# ANEJO Nº 6. ESTRUCTURAS

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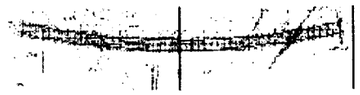
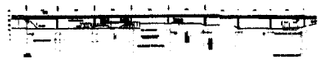
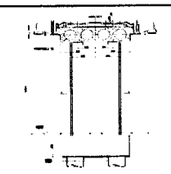
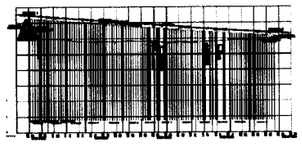
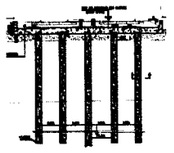
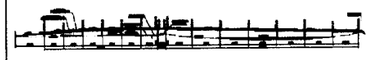
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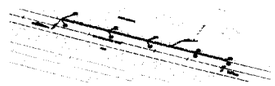
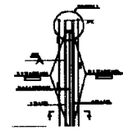
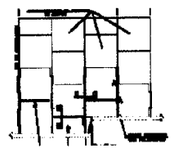
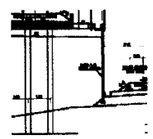
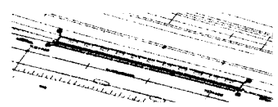
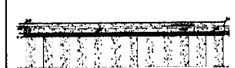
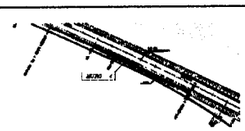
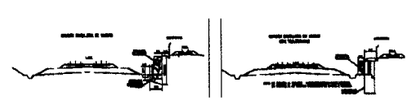
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# 1. Cuadro resumen

## CUADRO RESUMEN DE ESTRUCTURAS

| ESTRUCTURA | P.K. | DENOMINACIÓN | TIPOLOGÍA | ISOSTÁTICA-HIPERESTÁTIC | ESVIAJE | LUCES | CANTO | ANCHO | PROCEDIM. CONSTRUCTIVO | PLANTA | PERFIL | SECCIÓN |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.1. | 702+174 | VIADUCTO DE CORNELLÁ | LOSA DE H.P.. ALIGERADA | HIPERESTÁTICA | 100g | 33-4x40-40-39-28 | 2.00 | 14.00 | VANO A VANO CON CIMBRA AUTOPORTANT |  |  |  |
| 2.9.2. | 702+980 | LOSA PILOTADA | LOSA DE H.A. | HIPERESTÁTICA | 100g | CUADRÍCULA 10x8.75 | 0.76 A 0.85 | 9.30 | APOYADO |  |  |  |
| 2.9.3. | 703+680 | PASARELA DE CORNELLÁ | VIGA APORTICADA DE H.P. | HIPERESTÁTICA | 100g | 5x27.5-26.6 36.39-5x40-36.42 | 1.80 | 4.75 | VANO A VANO CON CIMBRA AUTOPORTANTE |  |  |  |

| ESTRUCTURA | P.K. | DENOMINACIÓN | TIPOLOGÍA | ESVIAJE | LONGITUD | ANCHURA | ALTURA | PLANTA | PERFIL | SECCIÓN |
|---|---|---|---|---|---|---|---|---|---|---|
| 2.9.4.1. | 703+400 | MURO 1-A | PANTALLAS | 100g | 99.8 | 0.60 | 7.00 |  |  |  |
| 2.9.4.2. | 702+990 | MURO 1-B | TIERRA ARMADA | 100g | 469.5 | 0.14 | VARIAS |  |  |  |
| 2.9.4.3. | 702+140 | MURO 1-C | ESCOLLERA | 100g | 528 | 1.50 | 2.8 |  | — |  |
| 4.4. | 705+500 | MURO 3 | GRAVEDAD PILOTADA | 100g | 61 | 0.7 | 3 |  |  |  |
| 4.5. | 705+640 | MURO 4 | ESCOLLERA / TABLAESTACA | 100g | 175 | VAR | VAR |  |  | |

## *2. Descripción (Tipología, aparatos de apoyo, juntas, impermeabilización, etc.)*

## 2. DESCRIPCIÓN

El tramo Sant Joan Despí - L´Hospitalet de Llobregat tiene una longitud de 3.820 m y comienza en el final del tramo anterior Sta. Coloma de Cervelló – Sant Joan Despí, en la margen izquierda del río Llobregat, al final del meandro de Sant Joan Despí antes de cruzar el nudo viario de Cornellá, en el terraplén de acceso al viaducto, con una orientación sureste.

### 2.1. Viaducto de Cornellà

En el corredor viario y ferroviario que une las dos márgenes del río Llobregat, entre Cornellá y Sant Boi, la traza atraviesa en viaducto, entre el PK 702+174 y el PK 702+579, la pata sudoeste del nudo de Cornellá, por la que discurren:

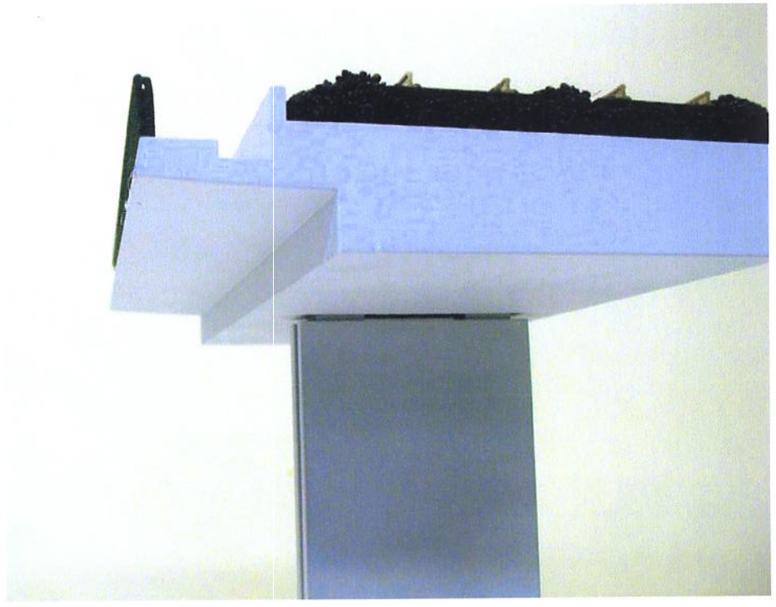
- El camino lateral sudoeste del nudo de Cornellà.
- La estructura de cruce de la carretera de Pous y el ramal Ronda Litoral (A-2) - C-245.
- La carretera C-245 de 4 carriles.
- El FF.CC. Barcelona – Manresa de vía doble electrificada.
- El ramal C-245 - Ronda Litoral (A-2) y el camino lateral sudeste del nudo de Cornellà.
- El camino de reposición del camino de cruce de FGC.

Para asegurar la permeabilidad transversal de todas las infraestructuras mencionadas, se ha construido un viaducto.

El viaducto de Cornellà es una estructura de 11 vanos y 405 m de longitud para la vía doble de mercancías de ancho mixto a Can Tunis y el puerto, que salva sucesivamente: El camino lateral sudoeste del nudo de Cornellà, la estructura de la carretera de Pous y el ramal Ronda Litoral – C-245, la carretera C-245 de 4 carriles, el FF.CC., Barcelona – Manresa de vía doble, el ramal C-245 – Ronda Litoral y el camino lateral sueste del nudo de Cornellà. Las luces varían, para adaptarse a la presencia de los obstáculos que hay que salvar, resultando en las siguientes luces: 33 + 4 x 40 + 2 x 35 + 36 + 40 + 39 + 27 m.

Se trata de una losa con canto total de 2,0 metros con aligeramientos tubulares de porexpan de 1,35 metros de diámetro.

El viaducto cruza por encima de un conjunto de vías con circulación de vehículos y tendrá una notable presencia visual.



Se logra, manteniendo prácticamente todas las cualidades estructurales y constructivas de la solución, una atractiva apariencia visual, aligerando el peso visual del tablero, situando los voladizos para las vías de servicio a un nivel inferior al del plano superior de la losa. Los voladizos contribuyen poco a la flexión longitudinal del tablero. Y en cuanto a la flexión transversal, es prácticamente indiferente la posición que ocupa. De esta manera, se logra un aspecto muy estilizado y atractivo para la estructura, con un coste adicional insignificante.

El tablero apoya en pilas-tabique de 1,30x6,00 metros, por intermedio de una pareja de apoyos confinados de neopreno-teflón. Tres pilas centrales están empotradas en el tablero, para poder soportar las cargas longitudinales de frenado y viento longitudinal. Los apoyos de la pila 8 son fijos en el sentido longitudinal, de manera que ayudan a absorber estas cargas.

De los dos aparatos de apoyos por pila, uno se fija transversalmente, para soportar las cargas horizontales transversales, como el viento o la fuerza centrífuga.

La cimentación de las pilas se resuelve mediante 4 pilotes $\phi$ 2.000 mm, construidos con camisa recuperable que con una profundidad de unos 25 metros. El encepado es de unas dimensiones de 8,00x8,00x3,00 metros. Los pilotes son capaces de transmitir las cargas verticales y también las horizontales al terreno.

Los estribos se han construido como sillas pilotadas en el terraplén. Una vez realizado el bloque técnico y antes de ejecutar los pilotes se dejó asentar el terreno durante un mes. Posteriormente se construyeron los cuatro pilotes de ϕ 1.250 mm se ejecutaron, reduciendo así los efectos del rozamiento negativo.

El proceso constructivo del tablero realizado ha sido con un avance de vano en vano con una cimbra autoportante superior, que se apoya sobre las pilas pilotadas ya ejecutadas y desde la cual se ha colgado el encofrado. De esta manera, se han podido salvar los obstáculos, manteniendo un gálibo aceptable. Por otra parte, se ha aprovechado la cimentación definitiva de la pasarela para la cimbra, teniendo en cuenta que el terreno no es adecuado para una cimentación directa.

El núcleo del tablero se ha impermeabilizado con membrana termosoldable de betún elastomérico de 4 mm de espesor, protegida superficialmente con una capa de granulos minerales y posteriormente aglomerada con 4 cm de MBC tipo D-8. Los dos pasillos laterales se han impermeabilizado con una imprimación asfáltica.

El núcleo desaguará a través de agujeros en el muro guarda-balasto hacia los pasillos que, a su vez, tienen tubos verticales de P.V.C. ϕ 110 mm, para el paso del agua.

Al borde de los pasillos, se ha construido una barandilla, galvanizada y pintada, compuesta por tubos horizontales, que están fijados a postes en forma de tubos rectangulares cada 2,00 m.

**2.2. Losa pilotada**

En la campaña adicional de sondeos y catas realizada durante las obras se detectó una zona con rellenos antrópicos de profundidades entre 10 y 15m y con una alta proporción de materia orgánica.

Esta zona de rellenos obligó a pasar sobre ellos en estructura. La solución construida a lo largo de 394 metros ha sido una losa armada de 9,3 m de ancho y 0,46 m de canto mínimo sobre un relleno de tierras, cimentada mediante un conjunto de pilotes prefabricados pretensados con una separación transversal de 1,5 m entre ejes y distribución longitudinal usual de 3,75 m aunque variable.

Además de un módulo tipo (que se repite sucesivamente), ha sido necesario generar módulos especiales que salven cruces de drenajes y colectores (tal y como se detalla en los correspondientes planos)

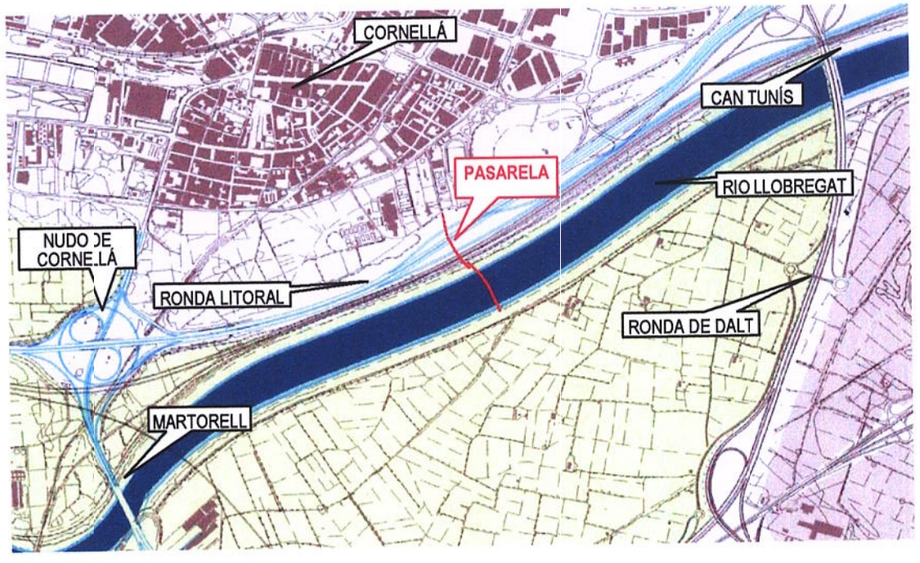
**2.3. Pasarela peatonal**

Se trata de una pasarela peatonal con un ancho útil de 3,46 metros y 542 m de longitud, formada por 13 vanos con luces medias de 38 m. La pasarela conecta los dos caminos de servicio del encauzamiento del río Llobregat, situados en sendos márgenes del cauce, con la nueva zona deportiva proyectada en Cornellà, asegurando así una adecuada permeabilidad del territorio que queda dividido por diversas vías principales de comunicación y por el propio cauce.

Para ello cruza por encima de los siguientes elementos:

- Los nuevos viales proyectados en Cornellà para la zona deportiva.
- La Autovía A-2 (Ronda del Litoral).
- La vía doble del ferrocarril de mercancías de ancho mixto, recogida en este proyecto.
- El ramal de mercancías del puerto de FGC.
- El camino de servicio del encauzamiento del río en su margen izquierda y el cauce del mismo.

Además, conecta dos caminos de servicio del encauzamiento situados en ambos márgenes del río Llobregat




Se trata de una estructura aporticada, que con una ejecución fundamentalmente "in-situ" se adapta bien a geometrías curvas y permite ajustar un trazado, tanto en planta como en alzado, que con suavidad se aleja de la monotonía de planta recta de una pasarela de gran longitud. El alzado, por su parte, busca una coordinación

con la geometría en planta que evite perfiles pronunciados, contribuyendo así a la sensación de armonía en el paso. En ello tiene que ver la sección escogida, que permite bajar la rasante de la superficie de rodadura suavizando las pendientes necesarias en el paso superior. Su asimetría evita la sensación de encajonamiento en el paseante, que siempre cuenta con una visión transparente del río y su entorno.

La altura libre desde el terreno hasta el tablero es variable y viene definida por el gálibo de los diferentes elementos sobre los que discurre (5.50 m sobre la Autovía A-2, 6.50 m sobre la plataforma del ferrocarril, 5.0 m sobre los caminos de servicio, etc.) La solución aporticada permite pilas de hormigón armado integradas geométricamente con el tablero y concebidas de tal modo que permita la reutilización de encofrados. La altura de las pilas es de 9 o 13.5 metros, con espesores de 0.6 y 0.8 metros respectivamente.

En planta, la pasarela se divide en dos tramos diferenciados. El primero cruza por encima de toda una serie de calzadas y vías de ferrocarril, salvando los gálibos correspondientes, para conectar Cornellà con su margen del río Llobregat. El segundo vuela sobre el cauce del río para unir ambos márgenes.

Los dos tramos quedan unidos a través de una plataforma elevada a modo de plaza, que queda situada a la altura del camino de servicio del encauzamiento del margen izquierdo. Esta materializada por una losa de hormigón de 55 cm de espesor. Su forma es trapezoidal con dimensiones aproximadas de 20x12 metros. En el centro se ha realizado ranuras en el suelo de 0,30 m de ancho que permiten el paso de la luz dando cierta transparencia vertical a la plataforma.

Desde esta plataforma, que actúa como elemento diferenciado de unión y distribución sin alterar la continuidad del conjunto, arrancan, a su vez, las rampas que conectan la pasarela con el camino. Estas rampas están formadas por una losa de hormigón armado de 55 cm de espesor y tienen una longitud aproximada de 75 metros, 50 de los cuales apoyan sobre pilas circulares centradas, y el resto sobre un terraplén que eleva la mota del encauzamiento del río. Las rampas salvan un desnivel total de 5m.

La longitud total de la doble pasarela es de aproximadamente 542 m distribuidos en vanos con luces de 32 + 3 x 40 + 35 + 27 en el tramo norte y de 35,15 + 5 x 40 + 34,60 m en el tramo sur. El ancho del núcleo es de 0,60 m y su altura de 1,80 m.

En alzado, la rasante arranca desde la margen izquierda con una moderada pendiente (del 8%) condicionada por el primer gálibo a salvar, el de los nuevos viales del enlace de Cornellà en proyecto. Seguidamente la pendiente se suaviza hasta alcanzar la plaza elevada, para luego volver a descender hasta alcanzar la otra orilla.

Las cimentaciones de las pilas centrales estan formadas por 4 pilotes de 650 mm de diámetro y el correspondiente encepado de dimensiones 4,25 x,4,25 x 1,50 m. Para las pilas extremas se proyecta una única fila de dos pilotes de $\phi$ 1.050 mm, para reducir los esfuerzos debidos a los movimientos impuestos por efectos térmicos, de retracción, de fluencia y de acortamiento elástico.

En los estribos y en la plataforma, el tablero descansa sobre aparatos de apoyo de teflón, uno siempre fijo en el sentido transversal, para absorber cargas horizontales. La junta de calzada consiste en una chapa que puede deslizar sobre el estribo.

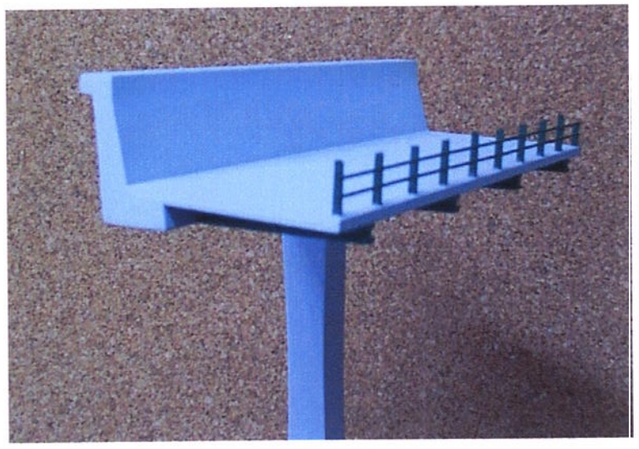
El pavimento se ha realizadocon un microaglomerado de 0,04 m que tiene una pendiente de 1,0 % hacia el lado contrario al nervio, para poder desaguar.

En los bordes opuestos al nervio de hormigón, que sobresale 1,20 m, se ha situado una barandillas con perfiles verticales, fijados a postes de chapa cada 1,25 m.



El tablero se ha ejecutado vano a vano, avanzando siempre en sentido Norte-Sur. Mediante la utilización de una cimbra autoportante superior que apoya sobre las

pilas pilotadas ya ejecutadas y que soporta el encofrado que cuelga desde ella. Las cimentaciones sobre el cauce y en la mediana de la A-2 se han ejecutado en recinto estanco materializado mediante tablestacas.



Como proceso constructivo del tablero se prevé el avance de vano en vano con una cimbra autoportante, que se apoya sobre las pilas pilotadas ya ejecutadas y desde la cual se cuelga el encofrado. De esta manera, se salvan los obstáculos, manteniendo un gálibo aceptable. Por otra parte, se aprovecha la cimentación definitiva para la cimbra, teniendo en cuenta que el terreno no es adecuado para una cimentación directa.

La sección transversal disimétrica de destacado efecto visual esta formada por una viga de hormigón postesado en forma de "S" que, con un canto de 1,80 m, soportará toda la flexión longitudinal, a la vez que actúa como barandilla a uno de los lados de la pasarela. El resto de los 3.46 metros de ancho útil de la pasarela se resuelve con una losa de estructura mixta, formada por perfiles metálicos de canto variable y una losa de hormigón de 12 cm de espesor. Esta estructura funciona como un voladizo empotrado en la viga de hormigón postesado antes descrita, que recoge las cargas llevándolas a las pilas a las que queda empotrada.

El resultado es un tablero con forma disimétrica y con amplias luces entre pilas. Desde el lado transparente, el de la barandilla, se genera una sensación de elevada esbeltez al situar el elemento resistente principal en el lado opuesto del tablero, y esconder su elevado canto en un elemento de protección lateral. Desde el lado contrario, asimismo, el conjunto de pilas y viga postesada produce un claro efecto de estructura aporticada de gran nitidez visual.

**2.4. Muros**

- **Muro 1A**: Separa la Ronda Litoral de la Plataforma de la LAV. Se trata de un muro ejecutado mediante pantallas recubiertas de unos 100 m de longitud y profundidad media de pantalla de 7 m.

- **Muro 1B**: Separa la Plataforma de la LAV de la línea ferroviaria del los FGC. Se trata de un muro de tierra armada de unos 470 m de longitud y altura media de 4 m.

- **Muro 1C**: Separa la Plataforma de la línea ferroviaria del los FGC de la motal de protección del Rio Llobregat. Se trata de un muro de escollera de 528 m de longitud y altura vista de 1,84 m.

- **Muro 2**: Separa la Ronda Litoral de la Plataforma de la LAV. Se trata de un muro de tierra armada. Su necesidad dependía de la solución del enlace Cornellà previsto inicialmente en las obras de ampliación de la Ronda Litoral realizadas por la Demarcación de Carreteras del Estado en Cataluña. El modificarse en las citadas obras la tipología del enlace, el muro, a pesar de estar casi terminado, no es necesario por lo que se desmontó.

- **Muro 3** Separa la plataforma de la LAV de la futura autovía de camiones de acceso al puerto de Barcelona. Se trata de un muro de hormigón de 3 m de altura y 61 m de longitud cimentado sobre 12 parejas de pantallas de 2,60 m de largo, 0,80 m de ancho y 9,60 m de profundidad.

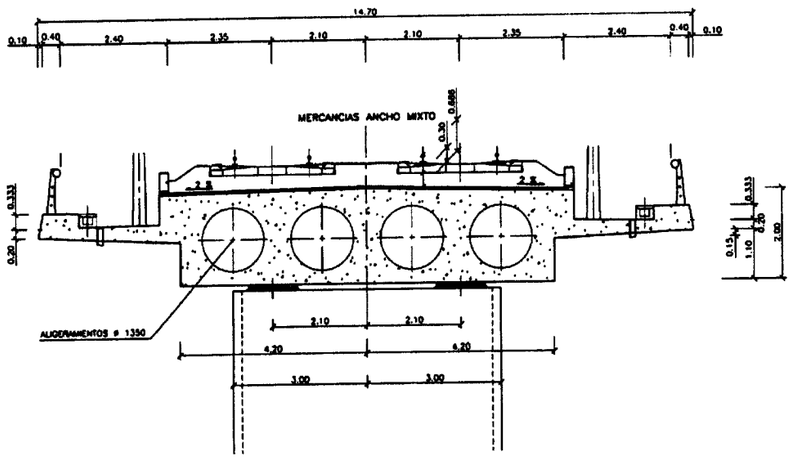
- **Muro 4**: Separa la Plataforma de la LAV de la línea ferroviaria del los FGC en el tramo final de la obra. Se trata de un muro de escollera de unos 290 m de longitud y altura variable realizado en los primeros 79 m íntegramente con escollera concertada de unos 1.000 kg de peso y en el resto, debido a la presencia de arenas que imposibilitaban cualquier excavación, con tablaestacas recubiertas con escollera de las mismas características para adecuarlo al entorno.

# 3. Definición geométrica

# 3. DEFINICIÓN GEOMÉTRICA

## 3.1. Viaducto de Cornellà

| TRAMO SANT JOAN DESPÍ – HOSPITALET<br>VIADUCTOS | | | | |
|---|---|---|---|---|
| PK | Estructura | Características | Largo | Ancho |
| 702+174 a 702+579 | Viaducto de Cornellà | 11 vanos<br>33+4X40+2X35+<br>36+40+39+27 | 405,00 | 14,70 |




**a) Trazado**

En planta, el eje del viaducto se encuentra entre el PK 702+374 del estribo nº 1 y el PK 702+779 del estribo nº 2, sobre una traza curva de radio 1.300 m. En alzado la rasante te sitúa en un acuerdo vertical convexo de parámetro Kv= 12.000 y longitud de 360 m, con un punto alto en el PK 702+588 en el vano nº 6. Las rampas laterales de acceso al viaducto tienen una pendiente de 15 milésimas.

La longitud del viaducto es de 405 m y la altura de pilas varía entre 7 y 11 metros en coherencia con los gálibos exigibles en las carreteras (5,30 m) y en las vías ferroviarias (7 m) atravesadas.

**b) Sección tipo**

La sección es apta para una doble vía de mercancías de ancho mixto, sobre balasto, y dos andenes laterales de servicio. El ancho total, sin barreras laterales, es de 14,0 m.

**c) Características geotécnicas del terreno**

Todo el viaducto discurre sobre un estrato de limos arenosos poco densos, de espesor variable entre 14 y 22 m, con un zócalo de apoyo de arena con gravillas medio densas. La cimentación es, por tanto, pilotada.

**d) Constructivos**

La importancia del enlace de Cornellà, sobre el que pasa el viaducto, y la poca altura del viaducto a condicionado todo el proceso constructivo ya que no se han podido cortar ramales ni se ha podido disminuir su capacidad durante la construcción del viaducto y debido al poco gálibo existente se ha tenido que diseñar una autocimbra superior que ha complicado todo el proceso constructivo del tablero.

Los espacios entre ramales son de gran amplitud, por lo que se ha dispuesto de suficientes plataformas de trabajo.

La posición de las pilas, está suficientemente alejada de los bordes de la calzada, por lo que la ejecución de los pilotes, zapatas y sus excavaciones consiguientes, se han podido realizar sin producir perturbaciones significativas en la circulación de vehículos por las calzadas actuales, con el empleo de entibaciones y tablaestacas.

**e) Estéticos y ambientales**

El viaducto discurre por un área cuajada de infraestructuras. Está muy a la vista y en las proximidades de una Ciudad acreditada en el mundo por la calidad de sus construcciones.

Es por eso que se ha cuidado la integración ambiental y se ha tenido muy en cuenta que la apariencia de la obra exteriorice la calidad del trabajo ejecutado.

Entre otros parámetros y dada la poca altura sobre los viales inferiores del viaducto, se han situado las alas a medio canto con lo que se le ha dado una gran sensación de ligereza al ocultar al ojo humano gran parte del canto.

**f) Durabilidad**

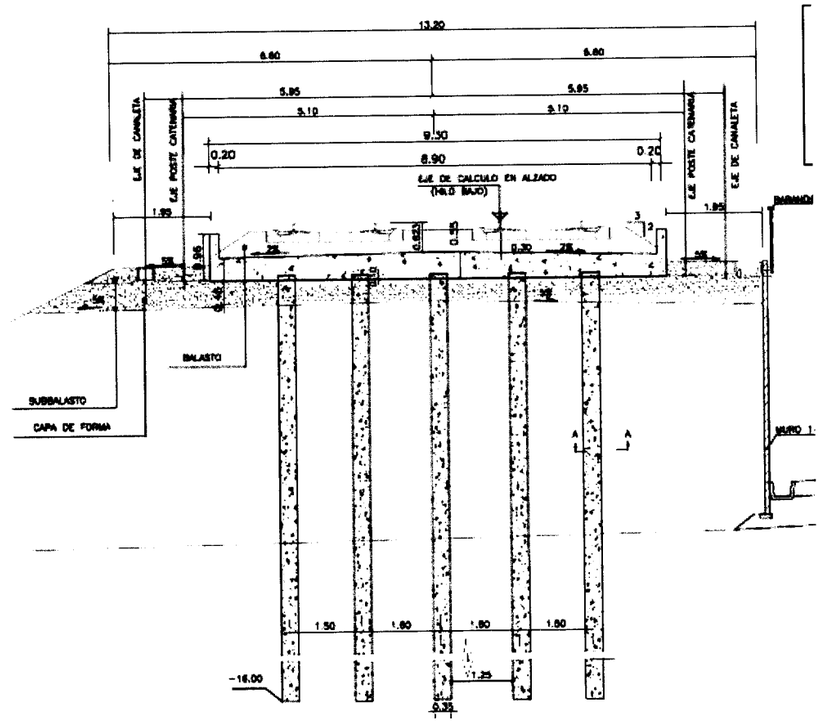
La obra se encuentra en un entorno industrial y marino, con una atmósfera húmeda y agresiva, que favorece la corrosión y degradación de las estructuras. Lo que se ha tenido muy en cuenta a nivel de proyecto y durante la construcción. En fase de proyecto se ha reducido el número de juntas de dilatación, de apoyos, y se ha simplificado la geometría de pilas y tableros evitando geometrías torturadas y rincones en los que se puedan acumular suciedades y humedad. En la fase de ejecución se ha tenido especial atención en el drenaje de las obras y en el recubrimiento de las armaduras. La robustez general de la estructura es otro factor que contribuye a que la estructura tenga, previsiblemente, un prolongado y sosegado futuro con bajos y controlados costes de mantenimiento.

### 3.2. Losa pilotada

En la campaña adicional de sondeos y catas realizada durante las obras se detectó una zona con rellenos antrópicos de profundidades entre 10 y 15m y con una alta proporción de materia orgánica.

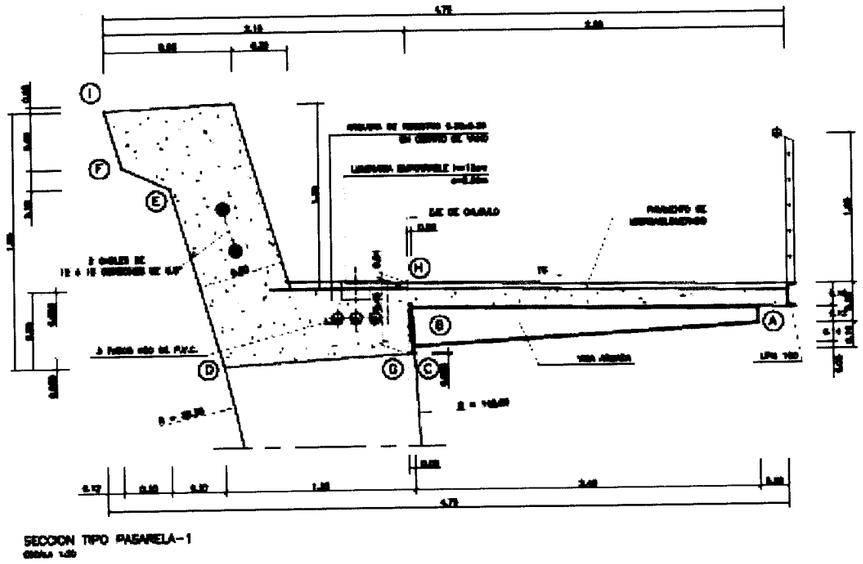
Esta zona de rellenos obligó a pasar sobre ellos en estructura. La solución construida ha sido una losa armada sobre un relleno de tierras, cimentada mediante un conjunto de pilotes prefabricados pretensados.

| TRAMO SANT JOAN DESPÍ – HOSPITALET<br>LOSAS | | | |
|---|---|---|---|
| PK | Estructura | Características | Largo |
| 702+980 a 703+374 | Losa | Losa pilotada | 394 |




### 3.3. Pasarela de Cornellà

| TRAMO SANT JOAN DESPÍ – HOSPITALET<br>PASARELAS | | | |
|---|---|---|---|
| PK | Estructura | Características | Largo |
| -- | Pasarela de Cornellà | Viga aporticada | 542 |



SECCION TIPO PASARELA-1

Son varios los aspectos que han condicionado el proyecto y la construcción de la pasarela. Desde un punto de vista funcional, por su situación y por su gran longitud, es de prever que los usuarios de la pasarela utilicen frecuentemente la bicicleta. Por ello, las pendientes no superan el 8% facilitando así el acceso a personas de movilidad reducida. El ancho útil necesario para permitir el cruce cómodo de dos bicicletas, se ha fijado en 3,46 metros. Además, la solución para la pasarela, incluyendo las rampas de acceso, evita en la medida de lo posible cambios bruscos de geometría, tanto en planta como en alzado, para permitir así una circulación fluida y segura de los ciclistas.

Por otro lado, un claro condicionante de la geometría de la estructura viene fijado por la posición del las vías a salvar, y por los gálibos mínimos que sobre ellas deben mantenerse (6,50 m sobre las vías de ferrocarril, 5,50 metros sobre la autovía, etc.). Además de los condicionantes geométricos, las exigencias visuales influyen en la determinación del número y la posición de las pilas de la pasarela.

La pasarela de Cornellà permite el acceso a los dos caminos de servicio del encauzamiento situados en ambos márgenes del río Llobregat. Dado que, por condicionantes de gálibo, la pasarela pasa sobre el margen norte del río a una altura superior a los 5 metros, ha sido necesario un sistema de rampas que salve esa diferencia de alturas conectando camino y pasarela en este punto. Debe tenerse en cuenta que ninguna modificación en el camino o acondicionamiento del terreno de la mota en la que se sitúa sobrepasa la línea de encauzamiento.

Desde el punto de vista del proceso constructivo, la presencia de varias vías de comunicación y del propio cauce bajo la pasarela, han obligado a emplear métodos de ejecución con una interferencia mínima con el tráfico por un lado y que sean compatibles con las eventuales avenidas del río durante la fase de construcción. Estos métodos previamente habían sido aprobados por las administraciones competentes de las infraestructuras mencionadas.

En lo que se refiere a los condicionantes geotécnicos, el terreno de asiento de las pilas de la pasarela en la parte más cercana a Cornellà, antes de alcanzar el río Llobregat, está formado por diversas formas de rellenos antrópicos, que provienen de antiguas graveras, de viales y explanaciones o bien han sido originados por el desvío del río. Llegados al cauce del río, el terreno es muy heterogéneo, estando formado por gravas y arenas limosas, además de barras aluviales. En ambos casos ha sido necesaria una cimentación profunda para las pilas formada por pilotes excavados.

Por último, un condicionante que dada la proporción y el emplazamiento de la pasarela cobra especial relevancia es su integración paisajística, y su papel como marco visual del río Llobregat y su entorno, tanto para los paseantes como para los usuarios de la Ronda Litoral y demás vías sobre las que cruza.

### 3.4. Muros

**-. Muro 1A**

El muro 1 del proyecto original separaba la Ronda Litoral de la Plataforma del LAV. Sin embargo, la cronología de las obras ha supuesto el inicio de la ejecución del muro en cuestión con la ampliación de la Ronda Litoral ya terminada.

El riesgo de agrietamiento de la calzada de la Ronda Litoral durante la excavación de la zapata necesaria para la ejecución del muro planteó la necesidad de una solución alternativa. Se ha optado por una tipología de muro pantalla revestido.

**-. Muro 1B**

Este muro no contemplado originalmente en el proyecto adjudicado nace de la necesidad de no reducir el cauce del Llobregat y simplificar la afección sobre FGC del proyecto original. Para conseguirlo, es necesario construir un muro entre el FGC y la plataforma del LAV tal y como se detalla en los planos.

La tipología del muro es de tierra armada, dados los enormes asientos esperados provocados por los rellenos antrópicos y la necesidad de minimizar las afecciones en la plataforma de FGC.

**- Muro 1c**

En realidad, se trata de un recubrimiento del talud de la mota de escollera para evitar desprendimientos locales. Este muro aparece también como consecuencia del ajuste de trazado en planta y de la solución final de FGC.

**- Muro 2**

Este muro no es necesario por lo finalmente no se ha construido.

**- Muro 3**

En un futuro próximo se prevé la construcción de una autovía de camiones paralela a la línea construida objeto de este proyecto, dadas la estrechez del paso bajo el vano de la Pata Sur y las diferentes rasantes existentes entre ambas infraestructuras se ha optado por la construcción parcial de un muro de contención de las futuras tierras de la mencionada autovía. De esta manera se evitarán las afecciones a la LAV y a su explotación que sin duda generaría su construcción en el futuro.

**- Muro 4**

La necesidad de no descalzar el ramal al puerto de FGC ha hecho necesaria la aparición de este muro. En esta zona, la abundancia de arenas imposibilitaba la excavación para la ejecución de cualquier tipología de muro. En la zona de poca altura se ha dispuesto un muro de escollera. En la zona de mayor altura y presencia de arenas se ha optado por unas tablestacas definitivas con un recubrimiento de escollera para dar una apariencia de continuidad a la solución.

# 4. Cálculos

## *4.2. Cálculo de losa pilotada*

# MEMORIA DE CÁLCULO DE LA LOSA PILOTADA ENTRE EL P.K. 702+980 AL 703+380

## MÓDULO 10 = MÓDULO TIPO IV

## 4 DE MAYO 2005

# LOSA DEL P.K. 702+980 A 703+380. MÓDULO 10

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3.1.2. Cálculo de esfuerzos
3.2. Cálculo dinámico
3.2.1. Análisis modal

**4 VERIFICACIÓN DE LOS ESTADOS LÍMITES DE SERVICIO**

4.1 Estado Límite de fisuración
4.2 Estado Límite de deformaciones
4.3 Estado Límite de vibraciones

**5 VERIFICACIÓN DEL E.L.U DE ROTURA POR TENSIONES NORMALES**

5.1. Dimensionamiento de la armadura por flexión
5.2. Verificación del ELU de rotura por tensiones normales

**6 VERIFICACIÓN DEL E.L.U DE ROTURA POR TENSIONES TANGENCIALES**

6.1. Evaluación del E.L.U. de Cortante
6.2. Evaluación del E.L. de Punzonamiento

**7 JUNTAS TRANSVERSALES**

7.1. Reacciones en las juntas
7.2. Cálculo de los movimientos en juntas

**8 VERIFICACIÓN DEL E.L.U. DE FATIGA**

**9 CÁLCULO DE LA CIMENTACIÓN**

9.1. Condiciones Geotécnicas
9.2. Cálculo del número de pilotes
9.3. Cálculo de esfuerzos y dimensionamiento

**10 ANÁLISIS DE LA INTERACCIÓN VÍA-ESTRUCTURA**


Nota: Los apartados señalados con un recuadro están pendientes de realización

# 1 GEOMETRÍA

## 1.1 GEOMETRÍA Y ESQUEMA ESTRUCTURAL

**Características Generales de la losa**

La losa del p.k. 702+980 al p.k. 703+380 consiste en una losa de hormigón armado de 9,3 m de ancho y 0,5 m de canto medio. Esta losa constituye un tablero sobre el que se colocarán dos vías de ferrocarril con una separación entre ejes 4,2 metros y 30 cm de balasto bajo traviesa. Aparentemente la losa se construirá sobre el terraplén, pero estructuralmente estará cimentada mediante filas de 5 pilotes prefabricados también de hormigón armado. Esta disposición se debe a la necesidad de salvar las malas condiciones geotécnicas del subsuelo en este tramo de la línea de ferrocarril. La estructura geológica del terreno en dicho tramo consiste en 3 estratos:

- Una capa de 15 m de espesor formada por rellenos antrópicos (escombros y basuras) de consistencia blanda.
- Una capa de arcillas de 10 m de espesor medio situada bajo los rellenos antrópicos.
- Un estrato de arenas y arenas limosas cuya capacidad portante es suficiente para soportar las cargas transmitidas por la losa-tablero.

Obviamente la deformabilidad del estrato de rellenos antrópicos bajo la carga del terraplén y el ferrocarril produciría asientos notables en la vía, completamente inadmisibles para su buen funcionamiento. Por esta razón en el Proyecto Constructivo se había optado por realizar un viaducto convencional, solución que se pretende sustituir por esta losa pilotada. Esta última alternativa resulta ventajosa en varios aspectos: En primer lugar evita las deformaciones en la vía de ferrocarril ya que a través de los pilotes transmite las cargas de los trenes a los estratos más profundos y competentes del terreno. Así mismo, la losa pilotada permite la utilización de medios constructivos menos sofisticados que los de un viaducto convencional: Construcción del terraplén mediante los procedimientos habituales, hincado de los pilotes prefabricados en el terraplén, a través de los primeros estratos de rellenos antrópicos hasta llegar a las capas resistentes, construcción de la losa de hormigón armado sobre el mismo terraplén sin necesidad de cimbra y encofrado inferior. Por ultimo, se mantiene la apariencia general de la obra, esto es, un terraplén de 3 m de altura media sobre la cota de terreno natural, lo que redunda en una integración paisajística mejor.

Como ya se ha dicho la losa se construirá en hormigón armado con una resistencia característica igual a 30 N/mm2. El armado del tablero se hará mediante barras corrugadas de acero B 500 S de límite elástico superior a 500 N/mm2. Para evitar la fisuración del hormigón por efecto de la retracción se han establecido juntas transversales cada 30 m. Se ha previsto que dichas juntas, además de permitir los movimientos de dilatación y contracción del material, ayuden a un trabajo estructural conjunto de los módulos adyacentes. Por esta razón, se ha dotado a las juntas de un sistema de conectadores que a modo de rótula transfiere las cargas de un módulo a otro (transmite cortantes que no momentos flectores). De esta forma se consigue un mejor aprovechamiento de la capacidad estructural de la losa como tablero. Los conectadores de la junta se fabricarán en acero inoxidable para evitar futuros problemas de mantenimiento en la obra.

En cuanto a la cimentación, ésta estará formada por filas de 5 pilotes prefabricados de hormigón separadas 3,75 m. Los pilotes prefabricados serán de hormigón y tendrán una sección transversal cuadrada de 0,35 m de lado. Al ser prefabricados deben introducirse en el subsuelo mediante procedimientos de hinca hasta la cota –16 m. En estas condiciones se dispone de un empotramiento de 3 m en el estrato de arenas y arenas limosas que se encuentran bajo las arcillas, resultando una carga admisible de 75 toneladas por pilote. Tras el hincado de los pilotes, éstos se dejarán embebidos una longitud de 10 cm en la losa de hormigón. De esta forma se asegura la transmisión de las fuerzas horizontales y verticales, pero se evita el empotramiento, configurándose una unión articulada entre el pilote y la losa.

**Características Particulares del Módulo 107**

El presente documento contiene el análisis del módulo 10 de la losa pilotada. Dicho módulo tiene una longitud de 28,5 m y está cimentado sobre 4 filas de 5 pilotes separadas 3,75 m y 6 filas de 5 pilotes separadas 1,25 m. En los primeros 13.0 m la losa tiene un canto de 0,5 m y está apoyada sobre 4 filas de 5 pilotes. En los 15,5 m. siguientes, la losa tiene un canto de 0,6 m, para salvar el paso del terraplén sobre un colector de 1200 mm de diámetro y un dren superior, y está apoyada sobre 6 filas de 5 pilotes cada una. Véase la distribución de pilotes en planta de dicho módulo en la página siguiente.

## 1.2 SECCIÓN TIPO

La sección transversal del tablero tiene un ancho de plataforma de 9,3 m y como ya se ha explicado anteriormente está constituida por una losa de hormigón armado con 0,5 m de canto medio. Su cara superior presenta un bombeo del 2 % para favorecer el drenaje de la plataforma ferroviaria.

La sección proyectada se observa en la figura adjunta.

SECCIÓN TIPO
ESCALA 1/30

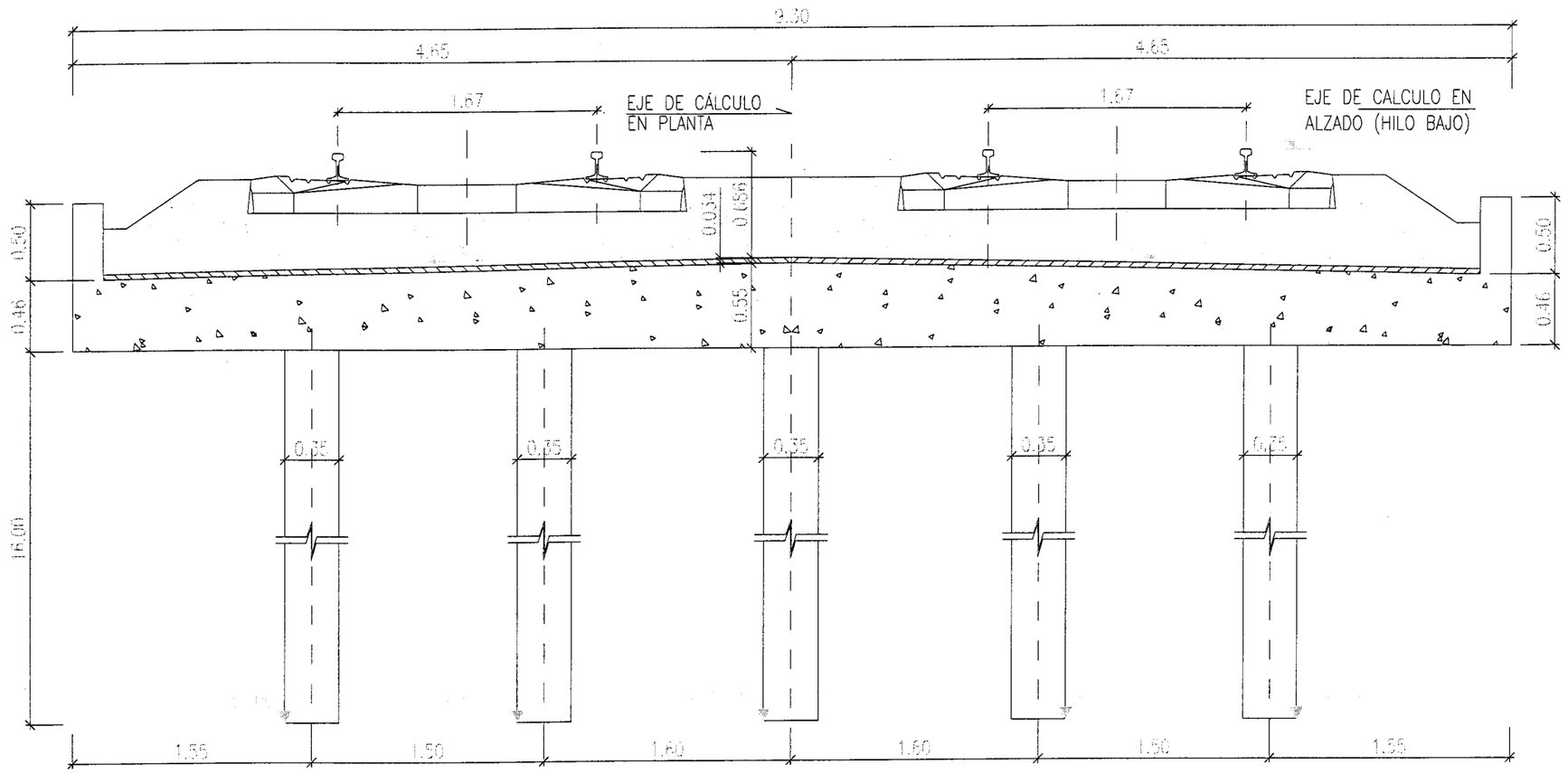



Figura 2. Sección transversal tipo de la losa pilotada.

## 2. Acciones, materiales, coeficientes de seguridad y normativas

Las acciones, materiales, coeficientes de seguridad y normativa se encuentra recogida en el epígrafe “4.2. “Cálculo de losa pilotada”.

# 3 CÁLCULO ESTRUCTURAL DEL TABLERO

## 3.1 CÁLCULO ESTRUCTURAL DEL MÓDULO TIPO IV

Debido a la discretización en módulos de la losa-tablero pilotada, se ha tenido que dividir el cálculo de esfuerzos en 5 partes:

- Cálculo estructural del módulo tipo I que se corresponde con el análisis de los módulos intermedios 2 a 6.
- Módulo tipo II. Se corresponde con el módulo intermedio 7.
- Módulo tipo III. Se corresponde con el módulo 8.
- Módulo tipo IV. Se corresponde con el módulo 10.
- Módulo tipo V. Se corresponde con el módulo 11.

En el presente documento se adjunta el cálculo del módulo tipo IV, quedando el resto de módulos pendientes de justificación en las memorias de cálculo correspondientes.

### 3.1.1 DISCRETIZACIÓN Y CARACTERÍSTICAS MECÁNICAS

Se modela el tablero mediante una losa de 28,5 m de longitud, en la que se pueden distinguir en función del espesor dos zonas: Los primeros 13,0 m con 0,5 m de canto y 15,5 m con 0,6 m de canto. Ambas zonas se han modelado con Elementos Finitos tipo lámina de 4 nodos, considerándose 3 grados de libertad por nodo (desplazamientos en el plano y perpendicular al plano). La losa está unida a los pilotes, que se han modelado como elementos barras con 6 grados de libertad por nudo. Dichas barras están apoyadas sobre lecho elástico cuyo módulo de balasto es igual al calculado en el apartado 2 de este anejo de cálculo. En las zonas de borde de la losa se ha puesto un apoyo elástico de rigidez igual a la de la losa contigua.

La discretización adoptada aparece en las hojas y esquemas adjuntos.

### 3.1.2 CÁLCULO DE ESFUERZOS EN LA LOSA

El cálculo de esfuerzos en la losa se detalla a continuación.

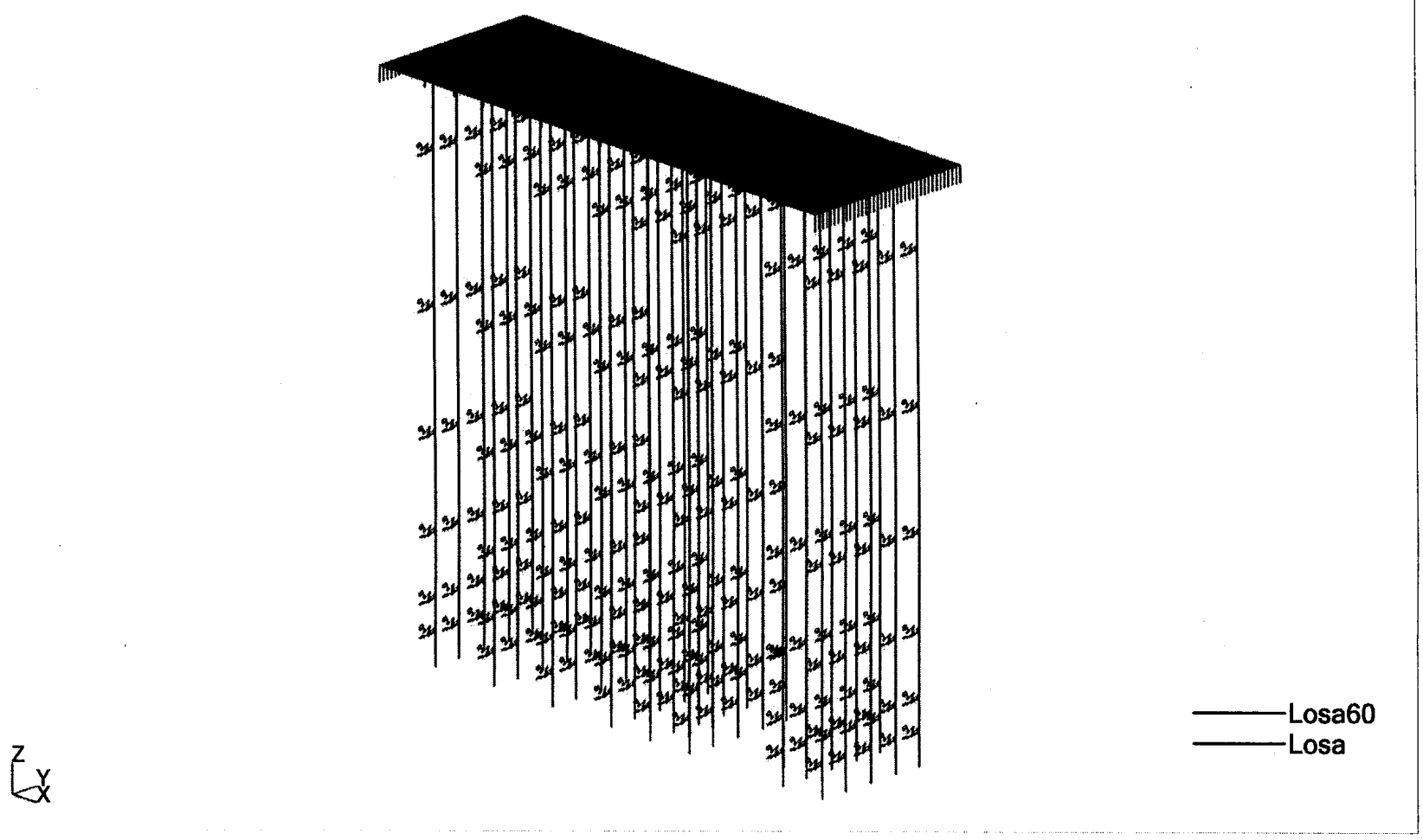
En los listados aparece la siguiente información:

1. Datos generales del Modelo de Cálculo.
2. Discretización: numeración de barras y nudos, coordenadas de los nudos condiciones de vinculación.
3. Casos de Carga y Combinaciones consideradas.
4. Esfuerzos en los casos de carga básicos
5. Esfuerzos en ELU y ELS para las combinaciones más desfavorables.

# CÁLCULO ESTRUCTURAL DEL MÓDULO TIPO IV

# MODELO DE CÁLCULO Y CARGAS

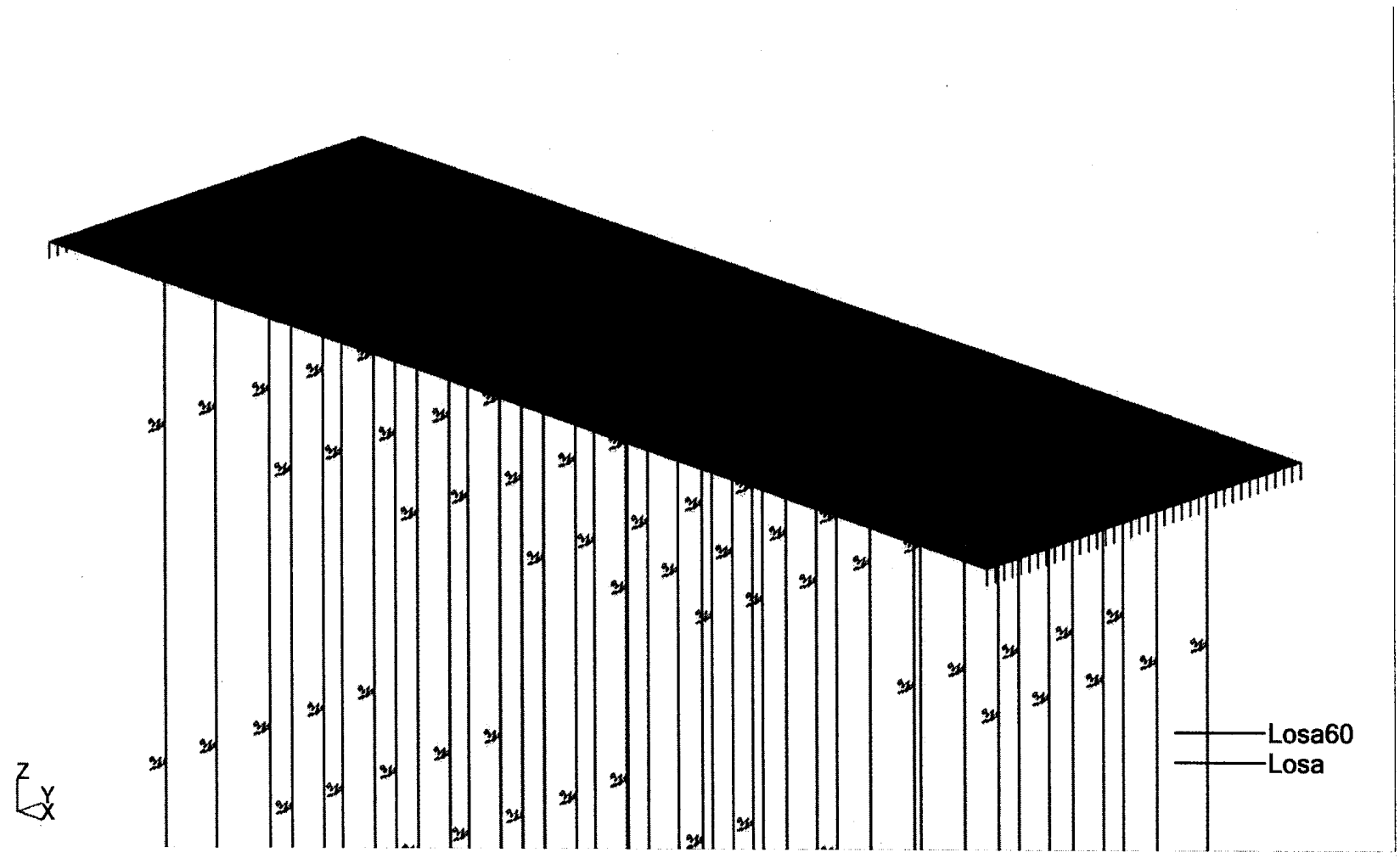
## Vista General del Modelo de Cálculo








## Detalle de Distribución de Espesores en Losa. Módulo 10



| Nudo | X (m) | Y (m) | Z (m) | Apoyo |
|---|---|---|---|---|
| 1 | 13.125 | 0.0 | 0.0 | |
| 2 | 1.875 | 0.0 | 0.0 | |
| 3 | 1.875 | 9.300 | 0.0 | |
| 5 | 27.850 | 0.0 | 0.0 | Ap_borde |
| 6 | 15.625 | 0.0 | 0.0 | |
| 7 | 15.625 | 9.300 | 0.0 | |
| 8 | 13.125 | 9.300 | 0.0 | |
| 9 | 13.125 | 0.251 | 0.0 | |
| 10 | 13.125 | 0.503 | 0.0 | |
| 11 | 13.125 | 0.754 | 0.0 | |
| 12 | 27.850 | 9.300 | 0.0 | Ap_borde |
| 15 | 13.125 | 2.011 | 0.0 | |
| 16 | 13.125 | 2.262 | 0.0 | |
| 17 | 13.125 | 2.514 | 0.0 | |
| 21 | 13.125 | 3.519 | 0.0 | |
| 22 | 13.125 | 3.770 | 0.0 | |
| 23 | 13.125 | 4.022 | 0.0 | |
| 24 | 13.125 | 4.273 | 0.0 | |
| 27 | 13.125 | 5.027 | 0.0 | |
| 28 | 13.125 | 5.278 | 0.0 | |
| 29 | 13.125 | 5.530 | 0.0 | |
| 30 | 13.125 | 5.781 | 0.0 | |
| 34 | 13.125 | 7.038 | 0.0 | |
| 38 | 13.125 | 8.546 | 0.0 | |
| 39 | 13.125 | 8.797 | 0.0 | |
| 40 | 13.125 | 9.049 | 0.0 | |
| 49 | 18.125 | 1.257 | 0.0 | |
| 50 | 18.125 | 1.508 | 0.0 | |
| 51 | 18.125 | 1.759 | 0.0 | |
| 55 | 0.469 | 0.0 | 0.0 | |
| 56 | 0.938 | 0.0 | 0.0 | |
| 57 | 1.406 | 0.0 | 0.0 | |
| 58 | 1.875 | 0.251 | 0.0 | |
| 59 | 1.875 | 0.503 | 0.0 | |
| 60 | 1.875 | 0.754 | 0.0 | |
| 61 | 13.625 | 0.0 | 0.0 | |
| 62 | 1.875 | 2.011 | 0.0 | |
| 63 | 1.875 | 2.262 | 0.0 | |
| 64 | 1.875 | 2.514 | 0.0 | |
| 65 | 1.875 | 3.519 | 0.0 | |
| 66 | 1.875 | 3.770 | 0.0 | |
| 67 | 1.875 | 4.022 | 0.0 | |
| 68 | 1.875 | 4.273 | 0.0 | |
| 69 | 1.875 | 5.027 | 0.0 | |
| 70 | 1.875 | 5.278 | 0.0 | |
| 71 | 1.875 | 5.530 | 0.0 | |
| 72 | 1.875 | 5.781 | 0.0 | |
| 73 | 14.125 | 0.0 | 0.0 | |
| 74 | 1.875 | 7.038 | 0.0 | |
| 75 | 14.625 | 0.0 | 0.0 | |
| 76 | 15.125 | 0.0 | 0.0 | |
| 77 | 1.875 | 8.546 | 0.0 | |
| 78 | 1.875 | 8.797 | 0.0 | |
| 79 | 1.875 | 9.049 | 0.0 | |
| 80 | 1.406 | 9.300 | 0.0 | |
| 81 | 0.938 | 9.300 | 0.0 | |
| 82 | 0.469 | 9.300 | 0.0 | |
| 83 | 0.469 | 0.251 | 0.0 | |
| 84 | 0.469 | 0.503 | 0.0 | |
| 85 | 0.469 | 0.754 | 0.0 | |
| 86 | 0.469 | 1.005 | 0.0 | |
| 87 | 0.469 | 1.257 | 0.0 | |
| 88 | 0.469 | 1.508 | 0.0 | |
| 89 | 0.469 | 1.759 | 0.0 | |
| 90 | 0.469 | 2.011 | 0.0 | |
| 91 | 0.469 | 2.262 | 0.0 | |
| 92 | 0.469 | 2.514 | 0.0 | |
| 93 | 0.469 | 2.765 | 0.0 | |
| 94 | 0.469 | 3.016 | 0.0 | |
| 95 | 0.469 | 3.268 | 0.0 | |
| 96 | 0.469 | 3.519 | 0.0 | |
| 97 | 0.469 | 3.770 | 0.0 | |
| 98 | 0.469 | 4.022 | 0.0 | |
| 99 | 0.469 | 4.273 | 0.0 | |
| 100 | 0.469 | 4.524 | 0.0 | |
| 101 | 0.469 | 4.776 | 0.0 | |
| 102 | 0.469 | 5.027 | 0.0 | |
| 103 | 0.469 | 5.278 | 0.0 | |
| 104 | 0.469 | 5.530 | 0.0 | |
| 105 | 0.469 | 5.781 | 0.0 | |
| 106 | 0.469 | 6.032 | 0.0 | |
| 107 | 0.469 | 6.284 | 0.0 | |
| 108 | 0.469 | 6.535 | 0.0 | |
| 109 | 0.469 | 6.786 | 0.0 | |
| 110 | 0.469 | 7.038 | 0.0 | |
| 111 | 0.469 | 7.289 | 0.0 | |
| 112 | 0.469 | 7.541 | 0.0 | |
| 113 | 26.625 | 1.257 | 0.0 | |
| 114 | 26.625 | 1.508 | 0.0 | |
| 115 | 26.625 | 1.759 | 0.0 | |
| 116 | 0.469 | 7.792 | 0.0 | |
| 117 | 0.469 | 8.043 | 0.0 | |
| 118 | 0.469 | 8.295 | 0.0 | |
| 119 | 26.625 | 2.765 | 0.0 | |
| 120 | 26.625 | 3.016 | 0.0 | |
| 121 | 26.625 | 3.268 | 0.0 | |
| 122 | 0.469 | 8.546 | 0.0 | |
| 123 | 0.469 | 8.797 | 0.0 | |
| 124 | 0.469 | 9.049 | 0.0 | |
| 125 | 0.938 | 0.251 | 0.0 | |
| 126 | 26.625 | 4.524 | 0.0 | |
| 127 | 26.625 | 4.776 | 0.0 | |
| 128 | 0.938 | 0.503 | 0.0 | |
| 129 | 0.938 | 0.754 | 0.0 | |
| 130 | 0.938 | 1.005 | 0.0 | |
| 131 | 0.938 | 1.257 | 0.0 | |
| 132 | 26.625 | 6.032 | 0.0 | |
| 133 | 26.625 | 6.284 | 0.0 | |
| 134 | 26.625 | 6.535 | 0.0 | |
| 135 | 0.938 | 1.508 | 0.0 | |
| 136 | 0.938 | 1.759 | 0.0 | |
| 137 | 0.938 | 2.011 | 0.0 | |
| 138 | 26.625 | 7.541 | 0.0 | |
| 139 | 26.625 | 7.792 | 0.0 | |
| 140 | 26.625 | 8.043 | 0.0 | |
| 141 | 0.938 | 2.262 | 0.0 | |
| 142 | 0.938 | 2.514 | 0.0 | |
| 143 | 0.938 | 2.765 | 0.0 | |
| 144 | 0.938 | 3.016 | 0.0 | |
| 145 | 0.938 | 3.268 | 0.0 | |
| 146 | 0.938 | 3.519 | 0.0 | |
| 147 | 0.938 | 3.770 | 0.0 | |
| 148 | 0.938 | 4.022 | 0.0 | |
| 149 | 0.938 | 4.273 | 0.0 | |
| 150 | 0.938 | 4.524 | 0.0 | |
| 151 | 0.938 | 4.776 | 0.0 | |
| 152 | 0.938 | 5.027 | 0.0 | |
| 153 | 0.938 | 5.278 | 0.0 | |
| 154 | 0.938 | 5.530 | 0.0 | |
| 155 | 0.938 | 5.781 | 0.0 | |
| 156 | 0.938 | 6.032 | 0.0 | |
| 157 | 0.938 | 6.284 | 0.0 | |
| 158 | 0.938 | 6.535 | 0.0 | |
| 159 | 0.938 | 6.786 | 0.0 | |
| 160 | 0.938 | 7.038 | 0.0 | |
| 161 | 0.938 | 7.289 | 0.0 | |
| 162 | 0.938 | 7.541 | 0.0 | |
| 163 | 0.938 | 7.792 | 0.0 | |
| 164 | 0.938 | 8.043 | 0.0 | |
| 165 | 0.938 | 8.295 | 0.0 | |
| 166 | 0.938 | 8.546 | 0.0 | |
| 167 | 0.938 | 8.797 | 0.0 | |
| 168 | 0.938 | 9.049 | 0.0 | |
| 169 | 1.406 | 0.251 | 0.0 | |
| 170 | 1.406 | 0.503 | 0.0 | |
| 171 | 1.406 | 0.754 | 0.0 | |
| 172 | 1.406 | 1.005 | 0.0 | |
| 173 | 1.406 | 1.257 | 0.0 | |
| 174 | 1.406 | 1.508 | 0.0 | |
| 175 | 1.406 | 1.759 | 0.0 | |
| 176 | 1.406 | 2.011 | 0.0 | |
| 177 | 1.406 | 2.262 | 0.0 | |
| 178 | 1.406 | 2.514 | 0.0 | |
| 179 | 1.406 | 2.765 | 0.0 | |
| 180 | 1.406 | 3.016 | 0.0 | |
| 181 | 1.406 | 3.268 | 0.0 | |
| 182 | 1.406 | 3.519 | 0.0 | |
| 183 | 1.406 | 3.770 | 0.0 | |
| 184 | 1.406 | 4.022 | 0.0 | |
| 185 | 1.406 | 4.273 | 0.0 | |
| 186 | 1.406 | 4.524 | 0.0 | |
| 187 | 1.406 | 4.776 | 0.0 | |
| 188 | 1.406 | 5.027 | 0.0 | |
| 189 | 1.406 | 5.278 | 0.0 | |
| 190 | 1.406 | 5.530 | 0.0 | |
| 191 | 1.406 | 5.781 | 0.0 | |
| 192 | 1.406 | 6.032 | 0.0 | |
| 193 | 1.406 | 6.284 | 0.0 | |
| 194 | 1.406 | 6.535 | 0.0 | |
| 195 | 1.406 | 6.786 | 0.0 | |
| 196 | 1.406 | 7.038 | 0.0 | |
| 197 | 1.406 | 7.289 | 0.0 | |
| 198 | 1.406 | 7.541 | 0.0 | |
| 199 | 1.406 | 7.792 | 0.0 | |
| 200 | 1.406 | 8.043 | 0.0 | |
| 201 | 1.406 | 8.295 | 0.0 | |
| 202 | 1.406 | 8.546 | 0.0 | |
| 203 | 1.406 | 8.797 | 0.0 | |
| 204 | 1.406 | 9.049 | 0.0 | |
| 205 | 26.625 | 0.0 | 0.0 | |
| 206 | 18.125 | 2.765 | 0.0 | |
| 207 | 18.125 | 3.016 | 0.0 | |
| 208 | 26.625 | 9.300 | 0.0 | |
| 209 | 18.125 | 3.268 | 0.0 | |
| 214 | 18.125 | 4.524 | 0.0 | |
| 215 | 18.125 | 4.776 | 0.0 | |
| 220 | 18.125 | 6.032 | 0.0 | |
| 221 | 18.125 | 6.284 | 0.0 | |
| 222 | 18.125 | 6.535 | 0.0 | |
| 226 | 18.125 | 7.541 | 0.0 | |
| 227 | 18.125 | 7.792 | 0.0 | |
| 228 | 18.125 | 8.043 | 0.0 | |
| 231 | 27.238 | 0.0 | 0.0 | |
| 232 | 27.850 | 0.251 | 0.0 | Ap_borde |
| 233 | 15.625 | 0.251 | 0.0 | |
| 234 | 15.625 | 0.503 | 0.0 | |
| 235 | 15.625 | 0.754 | 0.0 | |
| 236 | 15.625 | 1.005 | 0.0 | |
| 237 | 15.625 | 1.257 | 0.0 | |
| 238 | 15.625 | 1.508 | 0.0 | |
| 239 | 15.625 | 1.759 | 0.0 | |
| 240 | 15.625 | 2.011 | 0.0 | |
| 241 | 15.625 | 2.262 | 0.0 | |
| 242 | 15.625 | 2.514 | 0.0 | |
| 243 | 15.625 | 2.765 | 0.0 | |
| 244 | 15.625 | 3.016 | 0.0 | |
| 245 | 15.625 | 3.268 | 0.0 | |
| 246 | 15.625 | 3.519 | 0.0 | |
| 247 | 15.625 | 3.770 | 0.0 | |
| 248 | 15.625 | 4.022 | 0.0 | |
| 249 | 15.625 | 4.273 | 0.0 | |
| 250 | 15.625 | 4.524 | 0.0 | |
| 251 | 15.625 | 4.776 | 0.0 | |
| 252 | 15.625 | 5.027 | 0.0 | |
| 253 | 1.875 | 8.043 | 0.0 | |
| 254 | 1.875 | 7.792 | 0.0 | |
| 255 | 1.875 | 7.541 | 0.0 | |
| 256 | 15.625 | 5.278 | 0.0 | |
| 257 | 15.625 | 5.530 | 0.0 | |
| 258 | 15.625 | 5.781 | 0.0 | |
| 259 | 1.875 | 6.535 | 0.0 | |
| 260 | 1.875 | 6.284 | 0.0 | |
| 261 | 1.875 | 6.032 | 0.0 | |
| 262 | 15.625 | 6.032 | 0.0 | |
| 263 | 15.625 | 6.284 | 0.0 | |
| 264 | 15.625 | 6.535 | 0.0 | |
| 265 | 27.850 | 0.503 | 0.0 | Ap_borde |
| 266 | 1.875 | 4.776 | 0.0 | |
| 267 | 1.875 | 4.524 | 0.0 | |
| 268 | 27.850 | 0.754 | 0.0 | Ap_borde |
| 269 | 27.850 | 1.005 | 0.0 | Ap_borde |
| 270 | 27.850 | 1.257 | 0.0 | Ap_borde |
| 271 | 27.850 | 1.508 | 0.0 | Ap_borde |
| 272 | 1.875 | 3.268 | 0.0 | |
| 273 | 1.875 | 3.016 | 0.0 | |
| 274 | 1.875 | 2.765 | 0.0 | |
| 275 | 27.850 | 1.759 | 0.0 | Ap_borde |
| 276 | 26.625 | 9.049 | 0.0 | |
| 277 | 26.625 | 8.797 | 0.0 | |
| 278 | 1.875 | 1.759 | 0.0 | |
| 279 | 1.875 | 1.508 | 0.0 | |
| 280 | 1.875 | 1.257 | 0.0 | |
| 281 | 26.625 | 8.546 | 0.0 | |
| 282 | 26.625 | 8.295 | 0.0 | |
| 283 | 26.625 | 7.289 | 0.0 | |
| 284 | 26.625 | 7.038 | 0.0 | |
| 285 | 26.625 | 6.786 | 0.0 | |
| 286 | 26.625 | 5.781 | 0.0 | |
| 287 | 26.625 | 5.530 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **288** | 26.625 | 5.278 | 0.0 | |
| **289** | 26.625 | 5.027 | 0.0 | |
| **290** | 26.625 | 4.273 | 0.0 | |
| **291** | 26.625 | 4.022 | 0.0 | |
| **292** | 26.625 | 3.770 | 0.0 | |
| **293** | 26.625 | 3.519 | 0.0 | |
| **294** | 26.625 | 2.514 | 0.0 | |
| **295** | 26.625 | 2.262 | 0.0 | |
| **296** | 26.625 | 2.011 | 0.0 | |
| **297** | 26.625 | 1.005 | 0.0 | |
| **298** | 26.625 | 0.754 | 0.0 | |
| **299** | 26.625 | 0.503 | 0.0 | |
| **300** | 26.625 | 0.251 | 0.0 | |
| **301** | 27.850 | 2.011 | 0.0 | Ap_borde |
| **302** | 27.850 | 2.262 | 0.0 | Ap_borde |
| **303** | 27.850 | 2.514 | 0.0 | Ap_borde |
| **304** | 27.850 | 2.765 | 0.0 | Ap_borde |
| **305** | 27.850 | 3.016 | 0.0 | Ap_borde |
| **306** | 27.850 | 3.268 | 0.0 | Ap_borde |
| **307** | 27.850 | 3.519 | 0.0 | Ap_borde |
| **308** | 27.850 | 3.770 | 0.0 | Ap_borde |
| **309** | 27.850 | 4.022 | 0.0 | Ap_borde |
| **310** | 27.850 | 4.273 | 0.0 | Ap_borde |
| **311** | 27.850 | 4.524 | 0.0 | Ap_borde |
| **312** | 27.850 | 4.776 | 0.0 | Ap_borde |
| **313** | 27.850 | 5.027 | 0.0 | Ap_borde |
| **314** | 27.850 | 5.278 | 0.0 | Ap_borde |
| **315** | 27.850 | 5.530 | 0.0 | Ap_borde |
| **316** | 27.850 | 5.781 | 0.0 | Ap_borde |
| **317** | 27.850 | 6.032 | 0.0 | Ap_borde |
| **318** | 27.850 | 6.284 | 0.0 | Ap_borde |
| **319** | 27.850 | 6.535 | 0.0 | Ap_borde |
| **320** | 27.850 | 6.786 | 0.0 | Ap_borde |
| **321** | 27.850 | 7.038 | 0.0 | Ap_borde |
| **322** | 27.850 | 7.289 | 0.0 | Ap_borde |
| **323** | 27.850 | 7.541 | 0.0 | Ap_borde |
| **324** | 27.850 | 7.792 | 0.0 | Ap_borde |
| **325** | 27.850 | 8.043 | 0.0 | Ap_borde |
| **326** | 27.850 | 8.295 | 0.0 | Ap_borde |
| **327** | 27.850 | 8.546 | 0.0 | Ap_borde |
| **328** | 27.850 | 8.797 | 0.0 | Ap_borde |
| **329** | 27.850 | 9.049 | 0.0 | Ap_borde |
| **330** | 27.238 | 9.300 | 0.0 | |
| **331** | 27.238 | 0.251 | 0.0 | |
| **332** | 27.238 | 0.503 | 0.0 | |
| **333** | 27.238 | 0.754 | 0.0 | |
| **334** | 27.238 | 1.005 | 0.0 | |
| **335** | 27.238 | 1.257 | 0.0 | |
| **336** | 27.238 | 1.508 | 0.0 | |
| **337** | 27.238 | 1.759 | 0.0 | |
| **338** | 27.238 | 2.011 | 0.0 | |
| **339** | 27.238 | 2.262 | 0.0 | |
| **340** | 27.238 | 2.514 | 0.0 | |
| **341** | 27.238 | 2.765 | 0.0 | |
| **342** | 27.238 | 3.016 | 0.0 | |
| **343** | 27.238 | 3.268 | 0.0 | |
| **344** | 27.238 | 3.519 | 0.0 | |
| **345** | 27.238 | 3.770 | 0.0 | |
| **346** | 27.238 | 4.022 | 0.0 | |
| **347** | 27.238 | 4.273 | 0.0 | |
| **348** | 27.238 | 4.524 | 0.0 | |
| **349** | 27.238 | 4.776 | 0.0 | |
| **350** | 27.238 | 5.027 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **351** | 27.238 | 5.278 | 0.0 | |
| **352** | 27.238 | 5.530 | 0.0 | |
| **353** | 27.238 | 5.781 | 0.0 | |
| **354** | 27.238 | 6.032 | 0.0 | |
| **355** | 27.238 | 6.284 | 0.0 | |
| **356** | 27.238 | 6.535 | 0.0 | |
| **357** | 27.238 | 6.786 | 0.0 | |
| **358** | 27.238 | 7.038 | 0.0 | |
| **359** | 27.238 | 7.289 | 0.0 | |
| **360** | 27.238 | 7.541 | 0.0 | |
| **361** | 27.238 | 7.792 | 0.0 | |
| **362** | 27.238 | 8.043 | 0.0 | |
| **363** | 27.238 | 8.295 | 0.0 | |
| **364** | 27.238 | 8.546 | 0.0 | |
| **365** | 27.238 | 8.797 | 0.0 | |
| **366** | 27.238 | 9.049 | 0.0 | |
| **409** | 15.625 | 6.786 | 0.0 | |
| **410** | 15.625 | 7.038 | 0.0 | |
| **411** | 15.625 | 7.289 | 0.0 | |
| **412** | 15.625 | 7.541 | 0.0 | |
| **413** | 15.625 | 7.792 | 0.0 | |
| **414** | 15.625 | 8.043 | 0.0 | |
| **415** | 15.625 | 8.295 | 0.0 | |
| **416** | 15.625 | 8.546 | 0.0 | |
| **417** | 15.625 | 8.797 | 0.0 | |
| **418** | 15.625 | 9.049 | 0.0 | |
| **419** | 15.125 | 9.300 | 0.0 | |
| **420** | 14.625 | 9.300 | 0.0 | |
| **421** | 14.125 | 9.300 | 0.0 | |
| **422** | 13.625 | 9.300 | 0.0 | |
| **423** | 13.625 | 0.251 | 0.0 | |
| **424** | 13.625 | 0.503 | 0.0 | |
| **425** | 13.625 | 0.754 | 0.0 | |
| **426** | 13.625 | 1.005 | 0.0 | |
| **427** | 13.625 | 1.257 | 0.0 | |
| **428** | 13.625 | 1.508 | 0.0 | |
| **429** | 13.625 | 1.759 | 0.0 | |
| **430** | 13.625 | 2.011 | 0.0 | |
| **431** | 13.625 | 2.262 | 0.0 | |
| **432** | 13.625 | 2.514 | 0.0 | |
| **433** | 13.625 | 2.765 | 0.0 | |
| **434** | 13.625 | 3.016 | 0.0 | |
| **435** | 13.625 | 3.268 | 0.0 | |
| **436** | 13.625 | 3.519 | 0.0 | |
| **437** | 13.625 | 3.770 | 0.0 | |
| **438** | 13.625 | 4.022 | 0.0 | |
| **439** | 13.625 | 4.273 | 0.0 | |
| **440** | 13.625 | 4.524 | 0.0 | |
| **441** | 13.625 | 4.776 | 0.0 | |
| **442** | 13.625 | 5.027 | 0.0 | |
| **443** | 13.625 | 5.278 | 0.0 | |
| **444** | 13.625 | 5.530 | 0.0 | |
| **445** | 13.625 | 5.781 | 0.0 | |
| **446** | 13.625 | 6.032 | 0.0 | |
| **447** | 13.625 | 6.284 | 0.0 | |
| **448** | 13.625 | 6.535 | 0.0 | |
| **449** | 13.625 | 6.786 | 0.0 | |
| **450** | 13.625 | 7.038 | 0.0 | |
| **451** | 13.625 | 7.289 | 0.0 | |
| **452** | 13.625 | 7.541 | 0.0 | |
| **453** | 13.625 | 7.792 | 0.0 | |
| **454** | 13.625 | 8.043 | 0.0 | |
| **455** | 13.625 | 8.295 | 0.0 | |

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|---|---|---|---|---|
| **456** | 13.625 | 8.546 | 0.0 | |
| **457** | 25.375 | 0.0 | 0.0 | |
| **458** | 13.625 | 8.797 | 0.0 | |
| **459** | 13.625 | 9.049 | 0.0 | |
| **460** | 25.375 | 9.300 | 0.0 | |
| **461** | 14.125 | 0.251 | 0.0 | |
| **462** | 14.125 | 0.503 | 0.0 | |
| **463** | 14.125 | 0.754 | 0.0 | |
| **464** | 14.125 | 1.005 | 0.0 | |
| **465** | 14.125 | 1.257 | 0.0 | |
| **466** | 14.125 | 1.508 | 0.0 | |
| **467** | 14.125 | 1.759 | 0.0 | |
| **468** | 14.125 | 2.011 | 0.0 | |
| **469** | 14.125 | 2.262 | 0.0 | |
| **470** | 14.125 | 2.514 | 0.0 | |
| **471** | 14.125 | 2.765 | 0.0 | |
| **472** | 14.125 | 3.016 | 0.0 | |
| **473** | 14.125 | 3.268 | 0.0 | |
| **474** | 14.125 | 3.519 | 0.0 | |
| **475** | 14.125 | 3.770 | 0.0 | |
| **476** | 14.125 | 4.022 | 0.0 | |
| **477** | 14.125 | 4.273 | 0.0 | |
| **478** | 14.125 | 4.524 | 0.0 | |
| **479** | 14.125 | 4.776 | 0.0 | |
| **480** | 14.125 | 5.027 | 0.0 | |
| **481** | 14.125 | 5.278 | 0.0 | |
| **482** | 14.125 | 5.530 | 0.0 | |
| **483** | 14.125 | 5.781 | 0.0 | |
| **484** | 14.125 | 6.032 | 0.0 | |
| **485** | 14.125 | 6.284 | 0.0 | |
| **486** | 14.125 | 6.535 | 0.0 | |
| **487** | 14.125 | 6.786 | 0.0 | |
| **488** | 14.125 | 7.038 | 0.0 | |
| **489** | 14.125 | 7.289 | 0.0 | |
| **490** | 14.125 | 7.541 | 0.0 | |
| **491** | 14.125 | 7.792 | 0.0 | |
| **492** | 14.125 | 8.043 | 0.0 | |
| **493** | 14.125 | 8.295 | 0.0 | |
| **494** | 14.125 | 8.546 | 0.0 | |
| **495** | 14.125 | 8.797 | 0.0 | |
| **496** | 14.125 | 9.049 | 0.0 | |
| **497** | 25.792 | 0.0 | 0.0 | |
| **498** | 26.208 | 0.0 | 0.0 | |
| **499** | 26.208 | 9.300 | 0.0 | |
| **500** | 25.792 | 9.300 | 0.0 | |
| **501** | 25.375 | 9.049 | 0.0 | |
| **502** | 25.375 | 8.797 | 0.0 | |
| **503** | 25.375 | 8.546 | 0.0 | |
| **504** | 25.375 | 8.295 | 0.0 | |
| **505** | 25.375 | 8.043 | 0.0 | |
| **506** | 25.375 | 7.792 | 0.0 | |
| **507** | 25.375 | 7.541 | 0.0 | |
| **508** | 25.375 | 7.289 | 0.0 | |
| **509** | 25.375 | 7.038 | 0.0 | |
| **510** | 25.375 | 6.786 | 0.0 | |
| **511** | 25.375 | 6.535 | 0.0 | |
| **512** | 25.375 | 6.284 | 0.0 | |
| **513** | 25.375 | 6.032 | 0.0 | |
| **514** | 25.375 | 5.781 | 0.0 | |
| **515** | 25.375 | 5.530 | 0.0 | |
| **516** | 25.375 | 5.278 | 0.0 | |
| **517** | 25.375 | 5.027 | 0.0 | |
| **518** | 25.375 | 4.776 | 0.0 | |

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|---|---|---|---|---|
| **519** | 25.375 | 4.524 | 0.0 | |
| **520** | 25.375 | 4.273 | 0.0 | |
| **521** | 25.375 | 4.022 | 0.0 | |
| **522** | 25.375 | 3.770 | 0.0 | |
| **523** | 25.375 | 3.519 | 0.0 | |
| **524** | 25.375 | 3.268 | 0.0 | |
| **525** | 25.375 | 3.016 | 0.0 | |
| **526** | 25.375 | 2.765 | 0.0 | |
| **527** | 25.375 | 2.514 | 0.0 | |
| **528** | 25.375 | 2.262 | 0.0 | |
| **529** | 25.375 | 2.011 | 0.0 | |
| **530** | 25.375 | 1.759 | 0.0 | |
| **531** | 25.375 | 1.508 | 0.0 | |
| **532** | 25.375 | 1.257 | 0.0 | |
| **533** | 25.375 | 1.005 | 0.0 | |
| **534** | 25.375 | 0.754 | 0.0 | |
| **535** | 25.375 | 0.503 | 0.0 | |
| **536** | 25.375 | 0.251 | 0.0 | |
| **537** | 25.792 | 0.251 | 0.0 | |
| **538** | 25.792 | 0.503 | 0.0 | |
| **539** | 25.792 | 0.754 | 0.0 | |
| **540** | 25.792 | 1.005 | 0.0 | |
| **541** | 25.792 | 1.257 | 0.0 | |
| **542** | 25.792 | 1.508 | 0.0 | |
| **543** | 25.792 | 1.759 | 0.0 | |
| **544** | 25.792 | 2.011 | 0.0 | |
| **545** | 25.792 | 2.262 | 0.0 | |
| **546** | 25.792 | 2.514 | 0.0 | |
| **547** | 25.792 | 2.765 | 0.0 | |
| **548** | 25.792 | 3.016 | 0.0 | |
| **549** | 25.792 | 3.268 | 0.0 | |
| **550** | 25.792 | 3.519 | 0.0 | |
| **551** | 25.792 | 3.770 | 0.0 | |
| **552** | 25.792 | 4.022 | 0.0 | |
| **553** | 25.792 | 4.273 | 0.0 | |
| **554** | 25.792 | 4.524 | 0.0 | |
| **555** | 25.792 | 4.776 | 0.0 | |
| **556** | 25.792 | 5.027 | 0.0 | |
| **557** | 25.792 | 5.278 | 0.0 | |
| **558** | 25.792 | 5.530 | 0.0 | |
| **559** | 25.792 | 5.781 | 0.0 | |
| **560** | 25.792 | 6.032 | 0.0 | |
| **561** | 25.792 | 6.284 | 0.0 | |
| **562** | 25.792 | 6.535 | 0.0 | |
| **563** | 25.792 | 6.786 | 0.0 | |
| **564** | 25.792 | 7.038 | 0.0 | |
| **565** | 25.792 | 7.289 | 0.0 | |
| **566** | 25.792 | 7.541 | 0.0 | |
| **567** | 25.792 | 7.792 | 0.0 | |
| **568** | 25.792 | 8.043 | 0.0 | |
| **569** | 25.792 | 8.295 | 0.0 | |
| **570** | 25.792 | 8.546 | 0.0 | |
| **571** | 25.792 | 8.797 | 0.0 | |
| **572** | 25.792 | 9.049 | 0.0 | |
| **573** | 26.208 | 0.251 | 0.0 | |
| **574** | 26.208 | 0.503 | 0.0 | |
| **575** | 26.208 | 0.754 | 0.0 | |
| **576** | 26.208 | 1.005 | 0.0 | |
| **577** | 26.208 | 1.257 | 0.0 | |
| **578** | 26.208 | 1.508 | 0.0 | |
| **579** | 26.208 | 1.759 | 0.0 | |
| **580** | 26.208 | 2.011 | 0.0 | |
| **581** | 26.208 | 2.262 | 0.0 | |

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|---|---|---|---|---|
| **582** | 26.208 | 2.514 | 0.0 | |
| **583** | 26.208 | 2.765 | 0.0 | |
| **584** | 26.208 | 3.016 | 0.0 | |
| **585** | 26.208 | 3.268 | 0.0 | |
| **586** | 26.208 | 3.519 | 0.0 | |
| **587** | 26.208 | 3.770 | 0.0 | |
| **588** | 26.208 | 4.022 | 0.0 | |
| **589** | 26.208 | 4.273 | 0.0 | |
| **590** | 26.208 | 4.524 | 0.0 | |
| **591** | 26.208 | 4.776 | 0.0 | |
| **592** | 26.208 | 5.027 | 0.0 | |
| **593** | 26.208 | 5.278 | 0.0 | |
| **594** | 26.208 | 5.530 | 0.0 | |
| **595** | 26.208 | 5.781 | 0.0 | |
| **596** | 26.208 | 6.032 | 0.0 | |
| **597** | 26.208 | 6.284 | 0.0 | |
| **598** | 26.208 | 6.535 | 0.0 | |
| **599** | 26.208 | 6.786 | 0.0 | |
| **600** | 26.208 | 7.038 | 0.0 | |
| **601** | 26.208 | 7.289 | 0.0 | |
| **602** | 26.208 | 7.541 | 0.0 | |
| **603** | 26.208 | 7.792 | 0.0 | |
| **604** | 26.208 | 8.043 | 0.0 | |
| **605** | 26.208 | 8.295 | 0.0 | |
| **606** | 26.208 | 8.546 | 0.0 | |
| **607** | 26.208 | 8.797 | 0.0 | |
| **608** | 26.208 | 9.049 | 0.0 | |
| **609** | 24.125 | 0.0 | 0.0 | |
| **610** | 14.625 | 0.251 | 0.0 | |
| **611** | 14.625 | 0.503 | 0.0 | |
| **612** | 24.125 | 9.300 | 0.0 | |
| **613** | 14.625 | 0.754 | 0.0 | |
| **614** | 14.625 | 1.005 | 0.0 | |
| **615** | 14.625 | 1.257 | 0.0 | |
| **616** | 14.625 | 1.508 | 0.0 | |
| **617** | 14.625 | 1.759 | 0.0 | |
| **618** | 14.625 | 2.011 | 0.0 | |
| **619** | 14.625 | 2.262 | 0.0 | |
| **620** | 14.625 | 2.514 | 0.0 | |
| **621** | 14.625 | 2.765 | 0.0 | |
| **622** | 14.625 | 3.016 | 0.0 | |
| **623** | 14.625 | 3.268 | 0.0 | |
| **624** | 14.625 | 3.519 | 0.0 | |
| **625** | 14.625 | 3.770 | 0.0 | |
| **626** | 14.625 | 4.022 | 0.0 | |
| **627** | 14.625 | 4.273 | 0.0 | |
| **628** | 14.625 | 4.524 | 0.0 | |
| **629** | 14.625 | 4.776 | 0.0 | |
| **630** | 14.625 | 5.027 | 0.0 | |
| **631** | 14.625 | 5.278 | 0.0 | |
| **632** | 14.625 | 5.530 | 0.0 | |
| **633** | 14.625 | 5.781 | 0.0 | |
| **634** | 14.625 | 6.032 | 0.0 | |
| **635** | 14.625 | 6.284 | 0.0 | |
| **636** | 14.625 | 6.535 | 0.0 | |
| **637** | 14.625 | 6.786 | 0.0 | |
| **638** | 14.625 | 7.038 | 0.0 | |
| **639** | 14.625 | 7.289 | 0.0 | |
| **640** | 14.625 | 7.541 | 0.0 | |
| **641** | 14.625 | 7.792 | 0.0 | |
| **642** | 14.625 | 8.043 | 0.0 | |
| **643** | 14.625 | 8.295 | 0.0 | |
| **644** | 14.625 | 8.546 | 0.0 | |

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|---|---|---|---|---|
| **645** | 14.625 | 8.797 | 0.0 | |
| **646** | 14.625 | 9.049 | 0.0 | |
| **647** | 15.125 | 0.251 | 0.0 | |
| **648** | 15.125 | 0.503 | 0.0 | |
| **649** | 24.542 | 0.0 | 0.0 | |
| **650** | 24.958 | 0.0 | 0.0 | |
| **651** | 24.958 | 9.300 | 0.0 | |
| **652** | 24.542 | 9.300 | 0.0 | |
| **653** | 24.125 | 9.049 | 0.0 | |
| **654** | 24.125 | 8.797 | 0.0 | |
| **655** | 24.125 | 8.546 | 0.0 | |
| **656** | 24.125 | 8.295 | 0.0 | |
| **657** | 24.125 | 8.043 | 0.0 | |
| **658** | 24.125 | 7.792 | 0.0 | |
| **659** | 24.125 | 7.541 | 0.0 | |
| **660** | 24.125 | 7.289 | 0.0 | |
| **661** | 24.125 | 7.038 | 0.0 | |
| **662** | 24.125 | 6.786 | 0.0 | |
| **663** | 24.125 | 6.535 | 0.0 | |
| **664** | 24.125 | 6.284 | 0.0 | |
| **665** | 24.125 | 6.032 | 0.0 | |
| **666** | 24.125 | 5.781 | 0.0 | |
| **667** | 24.125 | 5.530 | 0.0 | |
| **668** | 24.125 | 5.278 | 0.0 | |
| **669** | 24.125 | 5.027 | 0.0 | |
| **670** | 24.125 | 4.776 | 0.0 | |
| **671** | 24.125 | 4.524 | 0.0 | |
| **672** | 24.125 | 4.273 | 0.0 | |
| **673** | 24.125 | 4.022 | 0.0 | |
| **674** | 24.125 | 3.770 | 0.0 | |
| **675** | 24.125 | 3.519 | 0.0 | |
| **676** | 24.125 | 3.268 | 0.0 | |
| **677** | 24.125 | 3.016 | 0.0 | |
| **678** | 24.125 | 2.765 | 0.0 | |
| **679** | 24.125 | 2.514 | 0.0 | |
| **680** | 24.125 | 2.262 | 0.0 | |
| **681** | 24.125 | 2.011 | 0.0 | |
| **682** | 24.125 | 1.759 | 0.0 | |
| **683** | 24.125 | 1.508 | 0.0 | |
| **684** | 24.125 | 1.257 | 0.0 | |
| **685** | 24.125 | 1.005 | 0.0 | |
| **686** | 24.125 | 0.754 | 0.0 | |
| **687** | 24.125 | 0.503 | 0.0 | |
| **688** | 24.125 | 0.251 | 0.0 | |
| **689** | 24.542 | 0.251 | 0.0 | |
| **690** | 24.542 | 0.503 | 0.0 | |
| **691** | 24.542 | 0.754 | 0.0 | |
| **692** | 24.542 | 1.005 | 0.0 | |
| **693** | 24.542 | 1.257 | 0.0 | |
| **694** | 24.542 | 1.508 | 0.0 | |
| **695** | 24.542 | 1.759 | 0.0 | |
| **696** | 24.542 | 2.011 | 0.0 | |
| **697** | 24.542 | 2.262 | 0.0 | |
| **698** | 24.542 | 2.514 | 0.0 | |
| **699** | 24.542 | 2.765 | 0.0 | |
| **700** | 24.542 | 3.016 | 0.0 | |
| **701** | 24.542 | 3.268 | 0.0 | |
| **702** | 24.542 | 3.519 | 0.0 | |
| **703** | 24.542 | 3.770 | 0.0 | |
| **704** | 24.542 | 4.022 | 0.0 | |
| **705** | 24.542 | 4.273 | 0.0 | |
| **706** | 24.542 | 4.524 | 0.0 | |
| **707** | 24.542 | 4.776 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **708** | 24.542 | 5.027 | 0.0 | |
| **709** | 24.542 | 5.278 | 0.0 | |
| **710** | 24.542 | 5.530 | 0.0 | |
| **711** | 24.542 | 5.781 | 0.0 | |
| **712** | 24.542 | 6.032 | 0.0 | |
| **713** | 24.542 | 6.284 | 0.0 | |
| **714** | 24.542 | 6.535 | 0.0 | |
| **715** | 24.542 | 6.786 | 0.0 | |
| **716** | 24.542 | 7.038 | 0.0 | |
| **717** | 24.542 | 7.289 | 0.0 | |
| **718** | 24.542 | 7.541 | 0.0 | |
| **719** | 24.542 | 7.792 | 0.0 | |
| **720** | 24.542 | 8.043 | 0.0 | |
| **721** | 24.542 | 8.295 | 0.0 | |
| **722** | 24.542 | 8.546 | 0.0 | |
| **723** | 24.542 | 8.797 | 0.0 | |
| **724** | 24.542 | 9.049 | 0.0 | |
| **725** | 24.958 | 0.251 | 0.0 | |
| **726** | 24.958 | 0.503 | 0.0 | |
| **727** | 24.958 | 0.754 | 0.0 | |
| **728** | 24.958 | 1.005 | 0.0 | |
| **729** | 24.958 | 1.257 | 0.0 | |
| **730** | 24.958 | 1.508 | 0.0 | |
| **731** | 24.958 | 1.759 | 0.0 | |
| **732** | 24.958 | 2.011 | 0.0 | |
| **733** | 24.958 | 2.262 | 0.0 | |
| **734** | 24.958 | 2.514 | 0.0 | |
| **735** | 24.958 | 2.765 | 0.0 | |
| **736** | 24.958 | 3.016 | 0.0 | |
| **737** | 24.958 | 3.268 | 0.0 | |
| **738** | 24.958 | 3.519 | 0.0 | |
| **739** | 24.958 | 3.770 | 0.0 | |
| **740** | 24.958 | 4.022 | 0.0 | |
| **741** | 24.958 | 4.273 | 0.0 | |
| **742** | 24.958 | 4.524 | 0.0 | |
| **743** | 24.958 | 4.776 | 0.0 | |
| **744** | 24.958 | 5.027 | 0.0 | |
| **745** | 24.958 | 5.278 | 0.0 | |
| **746** | 24.958 | 5.530 | 0.0 | |
| **747** | 24.958 | 5.781 | 0.0 | |
| **748** | 24.958 | 6.032 | 0.0 | |
| **749** | 24.958 | 6.284 | 0.0 | |
| **750** | 24.958 | 6.535 | 0.0 | |
| **751** | 24.958 | 6.786 | 0.0 | |
| **752** | 24.958 | 7.038 | 0.0 | |
| **753** | 24.958 | 7.289 | 0.0 | |
| **754** | 24.958 | 7.541 | 0.0 | |
| **755** | 24.958 | 7.792 | 0.0 | |
| **756** | 24.958 | 8.043 | 0.0 | |
| **757** | 24.958 | 8.295 | 0.0 | |
| **758** | 24.958 | 8.546 | 0.0 | |
| **759** | 24.958 | 8.797 | 0.0 | |
| **760** | 24.958 | 9.049 | 0.0 | |
| **761** | 15.125 | 0.754 | 0.0 | |
| **762** | 15.125 | 1.005 | 0.0 | |
| **763** | 15.125 | 1.257 | 0.0 | |
| **764** | 15.125 | 1.508 | 0.0 | |
| **765** | 15.125 | 1.759 | 0.0 | |
| **766** | 15.125 | 2.011 | 0.0 | |
| **767** | 15.125 | 2.262 | 0.0 | |
| **768** | 15.125 | 2.514 | 0.0 | |
| **769** | 15.125 | 2.765 | 0.0 | |
| **770** | 15.125 | 3.016 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **771** | 15.125 | 3.268 | 0.0 | |
| **772** | 15.125 | 3.519 | 0.0 | |
| **773** | 15.125 | 3.770 | 0.0 | |
| **774** | 15.125 | 4.022 | 0.0 | |
| **775** | 15.125 | 4.273 | 0.0 | |
| **776** | 15.125 | 4.524 | 0.0 | |
| **777** | 15.125 | 4.776 | 0.0 | |
| **778** | 15.125 | 5.027 | 0.0 | |
| **779** | 15.125 | 5.278 | 0.0 | |
| **780** | 15.125 | 5.530 | 0.0 | |
| **781** | 15.125 | 5.781 | 0.0 | |
| **782** | 15.125 | 6.032 | 0.0 | |
| **783** | 15.125 | 6.284 | 0.0 | |
| **784** | 15.125 | 6.535 | 0.0 | |
| **785** | 15.125 | 6.786 | 0.0 | |
| **786** | 15.125 | 7.038 | 0.0 | |
| **787** | 15.125 | 7.289 | 0.0 | |
| **788** | 15.125 | 7.541 | 0.0 | |
| **789** | 15.125 | 7.792 | 0.0 | |
| **790** | 15.125 | 8.043 | 0.0 | |
| **791** | 15.125 | 8.295 | 0.0 | |
| **792** | 15.125 | 8.546 | 0.0 | |
| **793** | 15.125 | 8.797 | 0.0 | |
| **794** | 15.125 | 9.049 | 0.0 | |
| **796** | 18.125 | 0.0 | 0.0 | |
| **797** | 18.125 | 9.300 | 0.0 | |
| **799** | 18.125 | 0.251 | 0.0 | |
| **800** | 18.125 | 0.503 | 0.0 | |
| **801** | 18.125 | 0.754 | 0.0 | |
| **802** | 18.125 | 1.005 | 0.0 | |
| **806** | 18.125 | 2.011 | 0.0 | |
| **807** | 18.125 | 2.262 | 0.0 | |
| **808** | 18.125 | 2.514 | 0.0 | |
| **812** | 18.125 | 3.519 | 0.0 | |
| **813** | 18.125 | 3.770 | 0.0 | |
| **814** | 18.125 | 4.022 | 0.0 | |
| **815** | 18.125 | 4.273 | 0.0 | |
| **818** | 18.125 | 5.027 | 0.0 | |
| **819** | 18.125 | 5.278 | 0.0 | |
| **820** | 18.125 | 5.530 | 0.0 | |
| **821** | 18.125 | 5.781 | 0.0 | |
| **825** | 18.125 | 6.786 | 0.0 | |
| **826** | 18.125 | 7.038 | 0.0 | |
| **827** | 18.125 | 7.289 | 0.0 | |
| **831** | 18.125 | 8.295 | 0.0 | |
| **832** | 18.125 | 8.546 | 0.0 | |
| **833** | 18.125 | 8.797 | 0.0 | |
| **834** | 18.125 | 9.049 | 0.0 | |
| **837** | 18.625 | 0.0 | 0.0 | |
| **838** | 19.125 | 0.0 | 0.0 | |
| **839** | 19.625 | 0.0 | 0.0 | |
| **840** | 20.125 | 0.0 | 0.0 | |
| **841** | 20.625 | 0.0 | 0.0 | |
| **842** | 21.125 | 0.0 | 0.0 | |
| **843** | 21.625 | 0.0 | 0.0 | |
| **844** | 22.125 | 0.0 | 0.0 | |
| **845** | 22.625 | 0.0 | 0.0 | |
| **846** | 23.125 | 0.0 | 0.0 | |
| **847** | 23.625 | 0.0 | 0.0 | |
| **848** | 23.625 | 9.300 | 0.0 | |
| **849** | 23.125 | 9.300 | 0.0 | |
| **850** | 22.625 | 9.300 | 0.0 | |
| **851** | 22.125 | 9.300 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **852** | 21.625 | 9.300 | 0.0 | |
| **853** | 21.125 | 9.300 | 0.0 | |
| **854** | 20.625 | 9.300 | 0.0 | |
| **855** | 20.125 | 9.300 | 0.0 | |
| **856** | 19.625 | 9.300 | 0.0 | |
| **857** | 19.125 | 9.300 | 0.0 | |
| **858** | 18.625 | 9.300 | 0.0 | |
| **859** | 18.625 | 0.251 | 0.0 | |
| **860** | 18.625 | 0.503 | 0.0 | |
| **861** | 18.625 | 0.754 | 0.0 | |
| **862** | 18.625 | 1.005 | 0.0 | |
| **863** | 18.625 | 1.257 | 0.0 | |
| **864** | 18.625 | 1.508 | 0.0 | |
| **865** | 18.625 | 1.759 | 0.0 | |
| **866** | 18.625 | 2.011 | 0.0 | |
| **867** | 18.625 | 2.262 | 0.0 | |
| **868** | 18.625 | 2.514 | 0.0 | |
| **869** | 18.625 | 2.765 | 0.0 | |
| **870** | 18.625 | 3.016 | 0.0 | |
| **871** | 18.625 | 3.268 | 0.0 | |
| **872** | 18.625 | 3.519 | 0.0 | |
| **873** | 18.625 | 3.770 | 0.0 | |
| **874** | 18.625 | 4.022 | 0.0 | |
| **875** | 18.625 | 4.273 | 0.0 | |
| **876** | 18.625 | 4.524 | 0.0 | |
| **877** | 18.625 | 4.776 | 0.0 | |
| **878** | 18.625 | 5.027 | 0.0 | |
| **879** | 18.625 | 5.278 | 0.0 | |
| **880** | 18.625 | 5.530 | 0.0 | |
| **881** | 18.625 | 5.781 | 0.0 | |
| **882** | 18.625 | 6.032 | 0.0 | |
| **883** | 18.625 | 6.284 | 0.0 | |
| **884** | 18.625 | 6.535 | 0.0 | |
| **885** | 18.625 | 6.786 | 0.0 | |
| **886** | 18.625 | 7.038 | 0.0 | |
| **887** | 18.625 | 7.289 | 0.0 | |
| **888** | 18.625 | 7.541 | 0.0 | |
| **889** | 18.625 | 7.792 | 0.0 | |
| **890** | 18.625 | 8.043 | 0.0 | |
| **891** | 18.625 | 8.295 | 0.0 | |
| **892** | 18.625 | 8.546 | 0.0 | |
| **893** | 18.625 | 8.797 | 0.0 | |
| **894** | 18.625 | 9.049 | 0.0 | |
| **895** | 19.125 | 0.251 | 0.0 | |
| **896** | 19.125 | 0.503 | 0.0 | |
| **897** | 19.125 | 0.754 | 0.0 | |
| **898** | 19.125 | 1.005 | 0.0 | |
| **899** | 19.125 | 1.257 | 0.0 | |
| **900** | 19.125 | 1.508 | 0.0 | |
| **901** | 19.125 | 1.759 | 0.0 | |
| **902** | 19.125 | 2.011 | 0.0 | |
| **903** | 19.125 | 2.262 | 0.0 | |
| **904** | 19.125 | 2.514 | 0.0 | |
| **905** | 19.125 | 2.765 | 0.0 | |
| **906** | 19.125 | 3.016 | 0.0 | |
| **907** | 19.125 | 3.268 | 0.0 | |
| **908** | 19.125 | 3.519 | 0.0 | |
| **909** | 19.125 | 3.770 | 0.0 | |
| **910** | 19.125 | 4.022 | 0.0 | |
| **911** | 19.125 | 4.273 | 0.0 | |
| **912** | 19.125 | 4.524 | 0.0 | |
| **913** | 19.125 | 4.776 | 0.0 | |
| **914** | 19.125 | 5.027 | 0.0 | |
| **915** | 19.125 | 5.278 | 0.0 | |
| **916** | 19.125 | 5.530 | 0.0 | |
| **917** | 19.125 | 5.781 | 0.0 | |
| **918** | 19.125 | 6.032 | 0.0 | |
| **919** | 19.125 | 6.284 | 0.0 | |
| **920** | 19.125 | 6.535 | 0.0 | |
| **921** | 19.125 | 6.786 | 0.0 | |
| **922** | 19.125 | 7.038 | 0.0 | |
| **923** | 19.125 | 7.289 | 0.0 | |
| **924** | 19.125 | 7.541 | 0.0 | |
| **925** | 19.125 | 7.792 | 0.0 | |
| **926** | 19.125 | 8.043 | 0.0 | |
| **927** | 19.125 | 8.295 | 0.0 | |
| **928** | 19.125 | 8.546 | 0.0 | |
| **929** | 19.125 | 8.797 | 0.0 | |
| **930** | 19.125 | 9.049 | 0.0 | |
| **931** | 19.625 | 0.251 | 0.0 | |
| **932** | 19.625 | 0.503 | 0.0 | |
| **933** | 19.625 | 0.754 | 0.0 | |
| **934** | 19.625 | 1.005 | 0.0 | |
| **935** | 19.625 | 1.257 | 0.0 | |
| **936** | 19.625 | 1.508 | 0.0 | |
| **937** | 19.625 | 1.759 | 0.0 | |
| **938** | 19.625 | 2.011 | 0.0 | |
| **939** | 19.625 | 2.262 | 0.0 | |
| **940** | 19.625 | 2.514 | 0.0 | |
| **941** | 19.625 | 2.765 | 0.0 | |
| **942** | 19.625 | 3.016 | 0.0 | |
| **943** | 19.625 | 3.268 | 0.0 | |
| **944** | 19.625 | 3.519 | 0.0 | |
| **945** | 19.625 | 3.770 | 0.0 | |
| **946** | 19.625 | 4.022 | 0.0 | |
| **947** | 19.625 | 4.273 | 0.0 | |
| **948** | 19.625 | 4.524 | 0.0 | |
| **949** | 19.625 | 4.776 | 0.0 | |
| **950** | 19.625 | 5.027 | 0.0 | |
| **951** | 19.625 | 5.278 | 0.0 | |
| **952** | 19.625 | 5.530 | 0.0 | |
| **953** | 19.625 | 5.781 | 0.0 | |
| **954** | 19.625 | 6.032 | 0.0 | |
| **955** | 19.625 | 6.284 | 0.0 | |
| **956** | 19.625 | 6.535 | 0.0 | |
| **957** | 19.625 | 6.786 | 0.0 | |
| **958** | 19.625 | 7.038 | 0.0 | |
| **959** | 19.625 | 7.289 | 0.0 | |
| **960** | 19.625 | 7.541 | 0.0 | |
| **961** | 19.625 | 7.792 | 0.0 | |
| **962** | 19.625 | 8.043 | 0.0 | |
| **963** | 19.625 | 8.295 | 0.0 | |
| **964** | 19.625 | 8.546 | 0.0 | |
| **965** | 19.625 | 8.797 | 0.0 | |
| **966** | 19.625 | 9.049 | 0.0 | |
| **967** | 20.125 | 0.251 | 0.0 | |
| **968** | 20.125 | 0.503 | 0.0 | |
| **969** | 20.125 | 0.754 | 0.0 | |
| **970** | 20.125 | 1.005 | 0.0 | |
| **971** | 20.125 | 1.257 | 0.0 | |
| **972** | 20.125 | 1.508 | 0.0 | |
| **973** | 20.125 | 1.759 | 0.0 | |
| **974** | 20.125 | 2.011 | 0.0 | |
| **975** | 20.125 | 2.262 | 0.0 | |
| **976** | 20.125 | 2.514 | 0.0 | |
| **977** | 20.125 | 2.765 | 0.0 | |
| **978** | 20.125 | 3.016 | 0.0 | |
| **979** | 20.125 | 3.268 | 0.0 | |
| **980** | 20.125 | 3.519 | 0.0 | |
| **981** | 20.125 | 3.770 | 0.0 | |
| **982** | 20.125 | 4.022 | 0.0 | |
| **983** | 20.125 | 4.273 | 0.0 | |
| **984** | 20.125 | 4.524 | 0.0 | |
| **985** | 20.125 | 4.776 | 0.0 | |
| **986** | 20.125 | 5.027 | 0.0 | |
| **987** | 20.125 | 5.278 | 0.0 | |
| **988** | 20.125 | 5.530 | 0.0 | |
| **989** | 20.125 | 5.781 | 0.0 | |
| **990** | 20.125 | 6.032 | 0.0 | |
| **991** | 20.125 | 6.284 | 0.0 | |
| **992** | 20.125 | 6.535 | 0.0 | |
| **993** | 20.125 | 6.786 | 0.0 | |
| **994** | 20.125 | 7.038 | 0.0 | |
| **995** | 20.125 | 7.289 | 0.0 | |
| **996** | 20.125 | 7.541 | 0.0 | |
| **997** | 20.125 | 7.792 | 0.0 | |
| **998** | 20.125 | 8.043 | 0.0 | |
| **999** | 20.125 | 8.295 | 0.0 | |
| **1000** | 20.125 | 8.546 | 0.0 | |
| **1001** | 20.125 | 8.797 | 0.0 | |
| **1002** | 20.125 | 9.049 | 0.0 | |
| **1003** | 20.625 | 0.251 | 0.0 | |
| **1004** | 20.625 | 0.503 | 0.0 | |
| **1005** | 20.625 | 0.754 | 0.0 | |
| **1006** | 20.625 | 1.005 | 0.0 | |
| **1007** | 20.625 | 1.257 | 0.0 | |
| **1008** | 20.625 | 1.508 | 0.0 | |
| **1009** | 20.625 | 1.759 | 0.0 | |
| **1010** | 20.625 | 2.011 | 0.0 | |
| **1011** | 20.625 | 2.262 | 0.0 | |
| **1012** | 20.625 | 2.514 | 0.0 | |
| **1013** | 20.625 | 2.765 | 0.0 | |
| **1014** | 20.625 | 3.016 | 0.0 | |
| **1015** | 20.625 | 3.268 | 0.0 | |
| **1016** | 20.625 | 3.519 | 0.0 | |
| **1017** | 20.625 | 3.770 | 0.0 | |
| **1018** | 20.625 | 4.022 | 0.0 | |
| **1019** | 20.625 | 4.273 | 0.0 | |
| **1020** | 20.625 | 4.524 | 0.0 | |
| **1021** | 20.625 | 4.776 | 0.0 | |
| **1022** | 20.625 | 5.027 | 0.0 | |
| **1023** | 20.625 | 5.278 | 0.0 | |
| **1024** | 20.625 | 5.530 | 0.0 | |
| **1025** | 20.625 | 5.781 | 0.0 | |
| **1026** | 20.625 | 6.032 | 0.0 | |
| **1027** | 20.625 | 6.284 | 0.0 | |
| **1028** | 20.625 | 6.535 | 0.0 | |
| **1029** | 20.625 | 6.786 | 0.0 | |
| **1030** | 20.625 | 7.038 | 0.0 | |
| **1031** | 20.625 | 7.289 | 0.0 | |
| **1032** | 20.625 | 7.541 | 0.0 | |
| **1033** | 20.625 | 7.792 | 0.0 | |
| **1034** | 20.625 | 8.043 | 0.0 | |
| **1035** | 20.625 | 8.295 | 0.0 | |
| **1036** | 20.625 | 8.546 | 0.0 | |
| **1037** | 20.625 | 8.797 | 0.0 | |
| **1038** | 20.625 | 9.049 | 0.0 | |
| **1039** | 21.125 | 0.251 | 0.0 | |
| **1040** | 21.125 | 0.503 | 0.0 | |
| **1041** | 21.125 | 0.754 | 0.0 | |
| **1042** | 21.125 | 1.005 | 0.0 | |
| **1043** | 21.125 | 1.257 | 0.0 | |
| **1044** | 21.125 | 1.508 | 0.0 | |
| **1045** | 21.125 | 1.759 | 0.0 | |
| **1046** | 21.125 | 2.011 | 0.0 | |
| **1047** | 21.125 | 2.262 | 0.0 | |
| **1048** | 21.125 | 2.514 | 0.0 | |
| **1049** | 21.125 | 2.765 | 0.0 | |
| **1050** | 21.125 | 3.016 | 0.0 | |
| **1051** | 21.125 | 3.268 | 0.0 | |
| **1052** | 21.125 | 3.519 | 0.0 | |
| **1053** | 21.125 | 3.770 | 0.0 | |
| **1054** | 21.125 | 4.022 | 0.0 | |
| **1055** | 21.125 | 4.273 | 0.0 | |
| **1056** | 21.125 | 4.524 | 0.0 | |
| **1057** | 21.125 | 4.776 | 0.0 | |
| **1058** | 21.125 | 5.027 | 0.0 | |
| **1059** | 21.125 | 5.278 | 0.0 | |
| **1060** | 21.125 | 5.530 | 0.0 | |
| **1061** | 21.125 | 5.781 | 0.0 | |
| **1062** | 21.125 | 6.032 | 0.0 | |
| **1063** | 21.125 | 6.284 | 0.0 | |
| **1064** | 21.125 | 6.535 | 0.0 | |
| **1065** | 21.125 | 6.786 | 0.0 | |
| **1066** | 21.125 | 7.038 | 0.0 | |
| **1067** | 21.125 | 7.289 | 0.0 | |
| **1068** | 21.125 | 7.541 | 0.0 | |
| **1069** | 21.125 | 7.792 | 0.0 | |
| **1070** | 21.125 | 8.043 | 0.0 | |
| **1071** | 21.125 | 8.295 | 0.0 | |
| **1072** | 21.125 | 8.546 | 0.0 | |
| **1073** | 21.125 | 8.797 | 0.0 | |
| **1074** | 21.125 | 9.049 | 0.0 | |
| **1075** | 21.625 | 0.251 | 0.0 | |
| **1076** | 21.625 | 0.503 | 0.0 | |
| **1077** | 21.625 | 0.754 | 0.0 | |
| **1078** | 21.625 | 1.005 | 0.0 | |
| **1079** | 21.625 | 1.257 | 0.0 | |
| **1080** | 21.625 | 1.508 | 0.0 | |
| **1081** | 21.625 | 1.759 | 0.0 | |
| **1082** | 21.625 | 2.011 | 0.0 | |
| **1083** | 21.625 | 2.262 | 0.0 | |
| **1084** | 21.625 | 2.514 | 0.0 | |
| **1085** | 21.625 | 2.765 | 0.0 | |
| **1086** | 21.625 | 3.016 | 0.0 | |
| **1087** | 21.625 | 3.268 | 0.0 | |
| **1088** | 21.625 | 3.519 | 0.0 | |
| **1089** | 21.625 | 3.770 | 0.0 | |
| **1090** | 21.625 | 4.022 | 0.0 | |
| **1091** | 21.625 | 4.273 | 0.0 | |
| **1092** | 21.625 | 4.524 | 0.0 | |
| **1093** | 21.625 | 4.776 | 0.0 | |
| **1094** | 21.625 | 5.027 | 0.0 | |
| **1095** | 21.625 | 5.278 | 0.0 | |
| **1096** | 21.625 | 5.530 | 0.0 | |
| **1097** | 21.625 | 5.781 | 0.0 | |
| **1098** | 21.625 | 6.032 | 0.0 | |
| **1099** | 21.625 | 6.284 | 0.0 | |
| **1100** | 21.625 | 6.535 | 0.0 | |
| **1101** | 21.625 | 6.786 | 0.0 | |
| **1102** | 21.625 | 7.038 | 0.0 | |
| **1103** | 21.625 | 7.289 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **1104** | 21.625 | 7.541 | 0.0 | |
| **1105** | 21.625 | 7.792 | 0.0 | |
| **1106** | 21.625 | 8.043 | 0.0 | |
| **1107** | 21.625 | 8.295 | 0.0 | |
| **1108** | 21.625 | 8.546 | 0.0 | |
| **1109** | 21.625 | 8.797 | 0.0 | |
| **1110** | 21.625 | 9.049 | 0.0 | |
| **1111** | 22.125 | 0.251 | 0.0 | |
| **1112** | 22.125 | 0.503 | 0.0 | |
| **1113** | 22.125 | 0.754 | 0.0 | |
| **1114** | 22.125 | 1.005 | 0.0 | |
| **1115** | 22.125 | 1.257 | 0.0 | |
| **1116** | 22.125 | 1.508 | 0.0 | |
| **1117** | 22.125 | 1.759 | 0.0 | |
| **1118** | 22.125 | 2.011 | 0.0 | |
| **1119** | 22.125 | 2.262 | 0.0 | |
| **1120** | 22.125 | 2.514 | 0.0 | |
| **1121** | 22.125 | 2.765 | 0.0 | |
| **1122** | 22.125 | 3.016 | 0.0 | |
| **1123** | 22.125 | 3.268 | 0.0 | |
| **1124** | 22.125 | 3.519 | 0.0 | |
| **1125** | 22.125 | 3.770 | 0.0 | |
| **1126** | 22.125 | 4.022 | 0.0 | |
| **1127** | 22.125 | 4.273 | 0.0 | |
| **1128** | 22.125 | 4.524 | 0.0 | |
| **1129** | 22.125 | 4.776 | 0.0 | |
| **1130** | 22.125 | 5.027 | 0.0 | |
| **1131** | 22.125 | 5.278 | 0.0 | |
| **1132** | 22.125 | 5.530 | 0.0 | |
| **1133** | 22.125 | 5.781 | 0.0 | |
| **1134** | 22.125 | 6.032 | 0.0 | |
| **1135** | 22.125 | 6.284 | 0.0 | |
| **1136** | 22.125 | 6.535 | 0.0 | |
| **1137** | 22.125 | 6.786 | 0.0 | |
| **1138** | 22.125 | 7.038 | 0.0 | |
| **1139** | 22.125 | 7.289 | 0.0 | |
| **1140** | 22.125 | 7.541 | 0.0 | |
| **1141** | 22.125 | 7.792 | 0.0 | |
| **1142** | 22.125 | 8.043 | 0.0 | |
| **1143** | 22.125 | 8.295 | 0.0 | |
| **1144** | 22.125 | 8.546 | 0.0 | |
| **1145** | 22.125 | 8.797 | 0.0 | |
| **1146** | 22.125 | 9.049 | 0.0 | |
| **1147** | 22.625 | 0.251 | 0.0 | |
| **1148** | 22.625 | 0.503 | 0.0 | |
| **1149** | 22.625 | 0.754 | 0.0 | |
| **1150** | 22.625 | 1.005 | 0.0 | |
| **1151** | 22.625 | 1.257 | 0.0 | |
| **1152** | 22.625 | 1.508 | 0.0 | |
| **1153** | 22.625 | 1.759 | 0.0 | |
| **1154** | 22.625 | 2.011 | 0.0 | |
| **1155** | 22.625 | 2.262 | 0.0 | |
| **1156** | 22.625 | 2.514 | 0.0 | |
| **1157** | 22.625 | 2.765 | 0.0 | |
| **1158** | 22.625 | 3.016 | 0.0 | |
| **1159** | 22.625 | 3.268 | 0.0 | |
| **1160** | 22.625 | 3.519 | 0.0 | |
| **1161** | 22.625 | 3.770 | 0.0 | |
| **1162** | 22.625 | 4.022 | 0.0 | |
| **1163** | 22.625 | 4.273 | 0.0 | |
| **1164** | 22.625 | 4.524 | 0.0 | |
| **1165** | 22.625 | 4.776 | 0.0 | |
| **1166** | 22.625 | 5.027 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **1167** | 22.625 | 5.278 | 0.0 | |
| **1168** | 22.625 | 5.530 | 0.0 | |
| **1169** | 22.625 | 5.781 | 0.0 | |
| **1170** | 22.625 | 6.032 | 0.0 | |
| **1171** | 22.625 | 6.284 | 0.0 | |
| **1172** | 22.625 | 6.535 | 0.0 | |
| **1173** | 22.625 | 6.786 | 0.0 | |
| **1174** | 22.625 | 7.038 | 0.0 | |
| **1175** | 22.625 | 7.289 | 0.0 | |
| **1176** | 22.625 | 7.541 | 0.0 | |
| **1177** | 22.625 | 7.792 | 0.0 | |
| **1178** | 22.625 | 8.043 | 0.0 | |
| **1179** | 22.625 | 8.295 | 0.0 | |
| **1180** | 22.625 | 8.546 | 0.0 | |
| **1181** | 22.625 | 8.797 | 0.0 | |
| **1182** | 22.625 | 9.049 | 0.0 | |
| **1183** | 23.125 | 0.251 | 0.0 | |
| **1184** | 23.125 | 0.503 | 0.0 | |
| **1185** | 23.125 | 0.754 | 0.0 | |
| **1186** | 23.125 | 1.005 | 0.0 | |
| **1187** | 23.125 | 1.257 | 0.0 | |
| **1188** | 23.125 | 1.508 | 0.0 | |
| **1189** | 23.125 | 1.759 | 0.0 | |
| **1190** | 23.125 | 2.011 | 0.0 | |
| **1191** | 23.125 | 2.262 | 0.0 | |
| **1192** | 23.125 | 2.514 | 0.0 | |
| **1193** | 23.125 | 2.765 | 0.0 | |
| **1194** | 23.125 | 3.016 | 0.0 | |
| **1195** | 23.125 | 3.268 | 0.0 | |
| **1196** | 23.125 | 3.519 | 0.0 | |
| **1197** | 23.125 | 3.770 | 0.0 | |
| **1198** | 23.125 | 4.022 | 0.0 | |
| **1199** | 23.125 | 4.273 | 0.0 | |
| **1200** | 23.125 | 4.524 | 0.0 | |
| **1201** | 23.125 | 4.776 | 0.0 | |
| **1202** | 23.125 | 5.027 | 0.0 | |
| **1203** | 23.125 | 5.278 | 0.0 | |
| **1204** | 23.125 | 5.530 | 0.0 | |
| **1205** | 23.125 | 5.781 | 0.0 | |
| **1206** | 23.125 | 6.032 | 0.0 | |
| **1207** | 23.125 | 6.284 | 0.0 | |
| **1208** | 23.125 | 6.535 | 0.0 | |
| **1209** | 23.125 | 6.786 | 0.0 | |
| **1210** | 23.125 | 7.038 | 0.0 | |
| **1211** | 23.125 | 7.289 | 0.0 | |
| **1212** | 23.125 | 7.541 | 0.0 | |
| **1213** | 23.125 | 7.792 | 0.0 | |
| **1214** | 23.125 | 8.043 | 0.0 | |
| **1215** | 23.125 | 8.295 | 0.0 | |
| **1216** | 23.125 | 8.546 | 0.0 | |
| **1217** | 23.125 | 8.797 | 0.0 | |
| **1218** | 23.125 | 9.049 | 0.0 | |
| **1219** | 23.625 | 0.251 | 0.0 | |
| **1220** | 23.625 | 0.503 | 0.0 | |
| **1221** | 23.625 | 0.754 | 0.0 | |
| **1222** | 23.625 | 1.005 | 0.0 | |
| **1223** | 23.625 | 1.257 | 0.0 | |
| **1224** | 23.625 | 1.508 | 0.0 | |
| **1225** | 23.625 | 1.759 | 0.0 | |
| **1226** | 23.625 | 2.011 | 0.0 | |
| **1227** | 23.625 | 2.262 | 0.0 | |
| **1228** | 23.625 | 2.514 | 0.0 | |
| **1229** | 23.625 | 2.765 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **1230** | 23.625 | 3.016 | 0.0 | |
| **1231** | 23.625 | 3.268 | 0.0 | |
| **1232** | 23.625 | 3.519 | 0.0 | |
| **1233** | 23.625 | 3.770 | 0.0 | |
| **1234** | 23.625 | 4.022 | 0.0 | |
| **1235** | 23.625 | 4.273 | 0.0 | |
| **1236** | 23.625 | 4.524 | 0.0 | |
| **1237** | 23.625 | 4.776 | 0.0 | |
| **1238** | 23.625 | 5.027 | 0.0 | |
| **1239** | 23.625 | 5.278 | 0.0 | |
| **1240** | 23.625 | 5.530 | 0.0 | |
| **1241** | 23.625 | 5.781 | 0.0 | |
| **1242** | 23.625 | 6.032 | 0.0 | |
| **1243** | 23.625 | 6.284 | 0.0 | |
| **1244** | 23.625 | 6.535 | 0.0 | |
| **1245** | 23.625 | 6.786 | 0.0 | |
| **1246** | 23.625 | 7.038 | 0.0 | |
| **1247** | 23.625 | 7.289 | 0.0 | |
| **1248** | 23.625 | 7.541 | 0.0 | |
| **1249** | 23.625 | 7.792 | 0.0 | |
| **1250** | 23.625 | 8.043 | 0.0 | |
| **1251** | 23.625 | 8.295 | 0.0 | |
| **1252** | 23.625 | 8.546 | 0.0 | |
| **1253** | 23.625 | 8.797 | 0.0 | |
| **1254** | 23.625 | 9.049 | 0.0 | |
| **1289** | 16.125 | 0.0 | 0.0 | |
| **1290** | 16.625 | 0.0 | 0.0 | |
| **1291** | 17.125 | 0.0 | 0.0 | |
| **1292** | 17.625 | 0.0 | 0.0 | |
| **1293** | 17.625 | 9.300 | 0.0 | |
| **1294** | 17.125 | 9.300 | 0.0 | |
| **1295** | 16.625 | 9.300 | 0.0 | |
| **1296** | 16.125 | 9.300 | 0.0 | |
| **1297** | 16.125 | 0.251 | 0.0 | |
| **1298** | 16.125 | 0.503 | 0.0 | |
| **1299** | 16.125 | 0.754 | 0.0 | |
| **1300** | 16.125 | 1.005 | 0.0 | |
| **1301** | 16.125 | 1.257 | 0.0 | |
| **1302** | 16.125 | 1.508 | 0.0 | |
| **1303** | 16.125 | 1.759 | 0.0 | |
| **1304** | 16.125 | 2.011 | 0.0 | |
| **1305** | 16.125 | 2.262 | 0.0 | |
| **1306** | 16.125 | 2.514 | 0.0 | |
| **1307** | 16.125 | 2.765 | 0.0 | |
| **1308** | 16.125 | 3.016 | 0.0 | |
| **1309** | 16.125 | 3.268 | 0.0 | |
| **1310** | 16.125 | 3.519 | 0.0 | |
| **1311** | 16.125 | 3.770 | 0.0 | |
| **1312** | 16.125 | 4.022 | 0.0 | |
| **1313** | 16.125 | 4.273 | 0.0 | |
| **1314** | 16.125 | 4.524 | 0.0 | |
| **1315** | 16.125 | 4.776 | 0.0 | |
| **1316** | 16.125 | 5.027 | 0.0 | |
| **1317** | 16.125 | 5.278 | 0.0 | |
| **1318** | 16.125 | 5.530 | 0.0 | |
| **1319** | 16.125 | 5.781 | 0.0 | |
| **1320** | 16.125 | 6.032 | 0.0 | |
| **1321** | 16.125 | 6.284 | 0.0 | |
| **1322** | 16.125 | 6.535 | 0.0 | |
| **1323** | 16.125 | 6.786 | 0.0 | |
| **1324** | 16.125 | 7.038 | 0.0 | |
| **1325** | 16.125 | 7.289 | 0.0 | |
| **1326** | 16.125 | 7.541 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **1327** | 16.125 | 7.792 | 0.0 | |
| **1328** | 16.125 | 8.043 | 0.0 | |
| **1329** | 16.125 | 8.295 | 0.0 | |
| **1330** | 16.125 | 8.546 | 0.0 | |
| **1331** | 16.125 | 8.797 | 0.0 | |
| **1332** | 16.125 | 9.049 | 0.0 | |
| **1333** | 16.625 | 0.251 | 0.0 | |
| **1334** | 16.625 | 0.503 | 0.0 | |
| **1335** | 16.625 | 0.754 | 0.0 | |
| **1336** | 16.625 | 1.005 | 0.0 | |
| **1337** | 16.625 | 1.257 | 0.0 | |
| **1338** | 16.625 | 1.508 | 0.0 | |
| **1339** | 16.625 | 1.759 | 0.0 | |
| **1340** | 16.625 | 2.011 | 0.0 | |
| **1341** | 16.625 | 2.262 | 0.0 | |
| **1342** | 16.625 | 2.514 | 0.0 | |
| **1343** | 16.625 | 2.765 | 0.0 | |
| **1344** | 16.625 | 3.016 | 0.0 | |
| **1345** | 16.625 | 3.268 | 0.0 | |
| **1346** | 16.625 | 3.519 | 0.0 | |
| **1347** | 16.625 | 3.770 | 0.0 | |
| **1348** | 16.625 | 4.022 | 0.0 | |
| **1349** | 16.625 | 4.273 | 0.0 | |
| **1350** | 16.625 | 4.524 | 0.0 | |
| **1351** | 16.625 | 4.776 | 0.0 | |
| **1352** | 16.625 | 5.027 | 0.0 | |
| **1353** | 16.625 | 5.278 | 0.0 | |
| **1354** | 16.625 | 5.530 | 0.0 | |
| **1355** | 16.625 | 5.781 | 0.0 | |
| **1356** | 16.625 | 6.032 | 0.0 | |
| **1357** | 16.625 | 6.284 | 0.0 | |
| **1358** | 16.625 | 6.535 | 0.0 | |
| **1359** | 16.625 | 6.786 | 0.0 | |
| **1360** | 16.625 | 7.038 | 0.0 | |
| **1361** | 16.625 | 7.289 | 0.0 | |
| **1362** | 16.625 | 7.541 | 0.0 | |
| **1363** | 16.625 | 7.792 | 0.0 | |
| **1364** | 16.625 | 8.043 | 0.0 | |
| **1365** | 16.625 | 8.295 | 0.0 | |
| **1366** | 16.625 | 8.546 | 0.0 | |
| **1367** | 16.625 | 8.797 | 0.0 | |
| **1368** | 16.625 | 9.049 | 0.0 | |
| **1369** | 17.125 | 0.251 | 0.0 | |
| **1370** | 17.125 | 0.503 | 0.0 | |
| **1371** | 17.125 | 0.754 | 0.0 | |
| **1372** | 17.125 | 1.005 | 0.0 | |
| **1373** | 17.125 | 1.257 | 0.0 | |
| **1374** | 17.125 | 1.508 | 0.0 | |
| **1375** | 17.125 | 1.759 | 0.0 | |
| **1376** | 17.125 | 2.011 | 0.0 | |
| **1377** | 17.125 | 2.262 | 0.0 | |
| **1378** | 17.125 | 2.514 | 0.0 | |
| **1379** | 17.125 | 2.765 | 0.0 | |
| **1380** | 17.125 | 3.016 | 0.0 | |
| **1381** | 17.125 | 3.268 | 0.0 | |
| **1382** | 17.125 | 3.519 | 0.0 | |
| **1383** | 17.125 | 3.770 | 0.0 | |
| **1384** | 17.125 | 4.022 | 0.0 | |
| **1385** | 17.125 | 4.273 | 0.0 | |
| **1386** | 17.125 | 4.524 | 0.0 | |
| **1387** | 17.125 | 4.776 | 0.0 | |
| **1388** | 17.125 | 5.027 | 0.0 | |
| **1389** | 17.125 | 5.278 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **1390** | 17.125 | 5.530 | 0.0 | |
| **1391** | 17.125 | 5.781 | 0.0 | |
| **1392** | 17.125 | 6.032 | 0.0 | |
| **1393** | 17.125 | 6.284 | 0.0 | |
| **1394** | 17.125 | 6.535 | 0.0 | |
| **1395** | 17.125 | 6.786 | 0.0 | |
| **1396** | 17.125 | 7.038 | 0.0 | |
| **1397** | 17.125 | 7.289 | 0.0 | |
| **1398** | 17.125 | 7.541 | 0.0 | |
| **1399** | 17.125 | 7.792 | 0.0 | |
| **1400** | 17.125 | 8.043 | 0.0 | |
| **1401** | 17.125 | 8.295 | 0.0 | |
| **1402** | 17.125 | 8.546 | 0.0 | |
| **1403** | 17.125 | 8.797 | 0.0 | |
| **1404** | 17.125 | 9.049 | 0.0 | |
| **1405** | 17.625 | 0.251 | 0.0 | |
| **1406** | 17.625 | 0.503 | 0.0 | |
| **1407** | 17.625 | 0.754 | 0.0 | |
| **1408** | 17.625 | 1.005 | 0.0 | |
| **1409** | 17.625 | 1.257 | 0.0 | |
| **1410** | 17.625 | 1.508 | 0.0 | |
| **1411** | 17.625 | 1.759 | 0.0 | |
| **1412** | 17.625 | 2.011 | 0.0 | |
| **1413** | 17.625 | 2.262 | 0.0 | |
| **1414** | 17.625 | 2.514 | 0.0 | |
| **1415** | 17.625 | 2.765 | 0.0 | |
| **1416** | 17.625 | 3.016 | 0.0 | |
| **1417** | 17.625 | 3.268 | 0.0 | |
| **1418** | 17.625 | 3.519 | 0.0 | |
| **1419** | 17.625 | 3.770 | 0.0 | |
| **1420** | 17.625 | 4.022 | 0.0 | |
| **1421** | 17.625 | 4.273 | 0.0 | |
| **1422** | 17.625 | 4.524 | 0.0 | |
| **1423** | 17.625 | 4.776 | 0.0 | |
| **1424** | 17.625 | 5.027 | 0.0 | |
| **1425** | 17.625 | 5.278 | 0.0 | |
| **1426** | 17.625 | 5.530 | 0.0 | |
| **1427** | 17.625 | 5.781 | 0.0 | |
| **1428** | 17.625 | 6.032 | 0.0 | |
| **1429** | 17.625 | 6.284 | 0.0 | |
| **1430** | 17.625 | 6.535 | 0.0 | |
| **1431** | 17.625 | 6.786 | 0.0 | |
| **1432** | 17.625 | 7.038 | 0.0 | |
| **1433** | 17.625 | 7.289 | 0.0 | |
| **1434** | 17.625 | 7.541 | 0.0 | |
| **1435** | 17.625 | 7.792 | 0.0 | |
| **1436** | 17.625 | 8.043 | 0.0 | |
| **1437** | 17.625 | 8.295 | 0.0 | |
| **1438** | 17.625 | 8.546 | 0.0 | |
| **1439** | 17.625 | 8.797 | 0.0 | |
| **1440** | 17.625 | 9.049 | 0.0 | |
| **4029** | 0.0 | 0.0 | 0.0 | Ap_esquina_M11 |
| **4032** | 0.0 | 9.300 | 0.0 | Ap_esquina_M11 |
| **4083** | 0.0 | 9.049 | 0.0 | Ap_borde_M11 |
| **4084** | 0.0 | 8.797 | 0.0 | Ap_borde_M11 |
| **4085** | 0.0 | 8.546 | 0.0 | Ap_borde_M11 |
| **4086** | 0.0 | 8.295 | 0.0 | Ap_borde_M11 |
| **4087** | 0.0 | 8.043 | 0.0 | Ap_borde_M11 |
| **4088** | 0.0 | 7.792 | 0.0 | Ap_borde_M11 |
| **4089** | 0.0 | 7.541 | 0.0 | Ap_borde_M11 |
| **4090** | 0.0 | 7.289 | 0.0 | Ap_borde_M11 |
| **4091** | 0.0 | 7.038 | 0.0 | Ap_borde_M11 |
| **4092** | 0.0 | 6.786 | 0.0 | Ap_borde_M11 |
| **4093** | 0.0 | 6.535 | 0.0 | Ap_borde_M11 |
| **4094** | 0.0 | 6.284 | 0.0 | Ap_borde_M11 |
| **4095** | 0.0 | 6.032 | 0.0 | Ap_borde_M11 |
| **4096** | 0.0 | 5.781 | 0.0 | Ap_borde_M11 |
| **4097** | 0.0 | 5.530 | 0.0 | Ap_borde_M11 |
| **4098** | 0.0 | 5.278 | 0.0 | Ap_borde_M11 |
| **4099** | 0.0 | 5.027 | 0.0 | Ap_borde_M11 |
| **4100** | 0.0 | 4.776 | 0.0 | Ap_borde_M11 |
| **4101** | 0.0 | 4.524 | 0.0 | Ap_borde_M11 |
| **4102** | 0.0 | 4.273 | 0.0 | Ap_borde_M11 |
| **4103** | 0.0 | 4.022 | 0.0 | Ap_borde_M11 |
| **4104** | 0.0 | 3.770 | 0.0 | Ap_borde_M11 |
| **4105** | 0.0 | 3.519 | 0.0 | Ap_borde_M11 |
| **4106** | 0.0 | 3.268 | 0.0 | Ap_borde_M11 |
| **4107** | 0.0 | 3.016 | 0.0 | Ap_borde_M11 |
| **4108** | 0.0 | 2.765 | 0.0 | Ap_borde_M11 |
| **4109** | 0.0 | 2.514 | 0.0 | Ap_borde_M11 |
| **4110** | 0.0 | 2.262 | 0.0 | Ap_borde_M11 |
| **4111** | 0.0 | 2.011 | 0.0 | Ap_borde_M11 |
| **4112** | 0.0 | 1.759 | 0.0 | Ap_borde_M11 |
| **4113** | 0.0 | 1.508 | 0.0 | Ap_borde_M11 |
| **4114** | 0.0 | 1.257 | 0.0 | Ap_borde_M11 |
| **4115** | 0.0 | 1.005 | 0.0 | Ap_borde_M11 |
| **4116** | 0.0 | 0.754 | 0.0 | Ap_borde_M11 |
| **4117** | 0.0 | 0.503 | 0.0 | Ap_borde_M11 |
| **4118** | 0.0 | 0.251 | 0.0 | Ap_borde_M11 |
| **4713** | 1.875 | 1.550 | -0.250 | |
| **4714** | 1.875 | 1.550 | -15.250 | |
| **4715** | 1.875 | 1.550 | -24.750 | |
| **4716** | 1.875 | 1.550 | -28.000 | Ap_pilote |
| **4717** | 1.875 | 3.050 | -0.250 | |
| **4718** | 1.875 | 3.050 | -15.250 | |
| **4719** | 1.875 | 3.050 | -24.750 | |
| **4720** | 1.875 | 3.050 | -28.000 | Ap_pilote |
| **4721** | 1.875 | 4.650 | -0.250 | |
| **4722** | 1.875 | 4.650 | -15.250 | |
| **4723** | 1.875 | 4.650 | -24.750 | |
| **4724** | 1.875 | 4.650 | -28.000 | Ap_pilote |
| **4725** | 1.875 | 6.250 | -0.250 | |
| **4726** | 1.875 | 6.250 | -15.250 | |
| **4727** | 1.875 | 6.250 | -24.750 | |
| **4728** | 1.875 | 6.250 | -28.000 | Ap_pilote |
| **4729** | 1.875 | 7.750 | -0.250 | |
| **4730** | 1.875 | 7.750 | -15.250 | |
| **4731** | 1.875 | 7.750 | -24.750 | |
| **4732** | 1.875 | 7.750 | -28.000 | Ap_pilote |
| **4733** | 5.625 | 1.550 | -0.250 | |
| **4734** | 5.625 | 1.550 | -15.250 | |
| **4735** | 5.625 | 1.550 | -24.750 | |
| **4736** | 5.625 | 1.550 | -28.000 | Ap_pilote |
| **4737** | 5.625 | 3.050 | -0.250 | |
| **4738** | 5.625 | 3.050 | -15.250 | |
| **4739** | 5.625 | 3.050 | -24.750 | |
| **4740** | 5.625 | 3.050 | -28.000 | Ap_pilote |
| **4741** | 5.625 | 4.650 | -0.250 | |
| **4742** | 5.625 | 4.650 | -15.250 | |
| **4743** | 5.625 | 4.650 | -24.750 | |
| **4744** | 5.625 | 4.650 | -28.000 | Ap_pilote |
| **4745** | 5.625 | 6.250 | -0.250 | |
| **4746** | 5.625 | 6.250 | -15.250 | |
| **4747** | 5.625 | 6.250 | -24.750 | |
| **4748** | 5.625 | 6.250 | -28.000 | Ap_pilote |
| **4749** | 5.625 | 7.750 | -0.250 | |
| **4750** | 5.625 | 7.750 | -15.250 | |
| **4751** | 5.625 | 7.750 | -24.750 | |
| **4752** | 5.625 | 7.750 | -28.000 | Ap_pilote |
| **4753** | 9.375 | 1.550 | -0.250 | |
| **4754** | 9.375 | 1.550 | -15.250 | |
| **4755** | 9.375 | 1.550 | -24.750 | |
| **4756** | 9.375 | 1.550 | -28.000 | Ap_pilote |
| **4757** | 9.375 | 3.050 | -0.250 | |
| **4758** | 9.375 | 3.050 | -15.250 | |
| **4759** | 9.375 | 3.050 | -24.750 | |
| **4760** | 9.375 | 3.050 | -28.000 | Ap_pilote |
| **4761** | 9.375 | 4.650 | -0.250 | |
| **4762** | 9.375 | 4.650 | -15.250 | |
| **4763** | 9.375 | 4.650 | -24.750 | |
| **4764** | 9.375 | 4.650 | -28.000 | Ap_pilote |
| **4765** | 9.375 | 6.250 | -0.250 | |
| **4766** | 9.375 | 6.250 | -15.250 | |
| **4767** | 9.375 | 6.250 | -24.750 | |
| **4768** | 9.375 | 6.250 | -28.000 | Ap_pilote |
| **4769** | 9.375 | 7.750 | -0.250 | |
| **4770** | 9.375 | 7.750 | -15.250 | |
| **4771** | 9.375 | 7.750 | -24.750 | |
| **4772** | 9.375 | 7.750 | -28.000 | Ap_pilote |
| **4773** | 13.125 | 1.550 | -0.250 | |
| **4774** | 13.125 | 1.550 | -15.250 | |
| **4775** | 13.125 | 1.550 | -24.750 | |
| **4776** | 13.125 | 1.550 | -28.000 | Ap_pilote |
| **4777** | 13.125 | 3.050 | -0.250 | |
| **4778** | 13.125 | 3.050 | -15.250 | |
| **4779** | 13.125 | 3.050 | -24.750 | |
| **4780** | 13.125 | 3.050 | -28.000 | Ap_pilote |
| **4781** | 13.125 | 4.650 | -0.250 | |
| **4782** | 13.125 | 4.650 | -15.250 | |
| **4783** | 13.125 | 4.650 | -24.750 | |
| **4784** | 13.125 | 4.650 | -28.000 | Ap_pilote |
| **4785** | 13.125 | 6.250 | -0.250 | |
| **4786** | 13.125 | 6.250 | -15.250 | |
| **4787** | 13.125 | 6.250 | -24.750 | |
| **4788** | 13.125 | 6.250 | -28.000 | Ap_pilote |
| **4789** | 13.125 | 7.750 | -0.250 | |
| **4790** | 13.125 | 7.750 | -15.250 | |
| **4791** | 13.125 | 7.750 | -24.750 | |
| **4792** | 13.125 | 7.750 | -28.000 | Ap_pilote |
| **4793** | 15.625 | 1.550 | -0.250 | |
| **4794** | 15.625 | 1.550 | -15.250 | |
| **4795** | 15.625 | 1.550 | -24.750 | |
| **4796** | 15.625 | 1.550 | -28.000 | Ap_pilote |
| **4797** | 15.625 | 3.050 | -0.250 | |
| **4798** | 15.625 | 3.050 | -15.250 | |
| **4799** | 15.625 | 3.050 | -24.750 | |
| **4800** | 15.625 | 3.050 | -28.000 | Ap_pilote |
| **4801** | 15.625 | 4.650 | -0.250 | |
| **4802** | 15.625 | 4.650 | -15.250 | |
| **4803** | 15.625 | 4.650 | -24.750 | |
| **4804** | 15.625 | 4.650 | -28.000 | Ap_pilote |
| **4805** | 15.625 | 6.250 | -0.250 | |
| **4806** | 15.625 | 6.250 | -15.250 | |
| **4807** | 15.625 | 6.250 | -24.750 | |
| **4808** | 15.625 | 6.250 | -28.000 | Ap_pilote |
| **4809** | 15.625 | 7.750 | -0.250 | |
| **4810** | 15.625 | 7.750 | -15.250 | |
| **4811** | 15.625 | 7.750 | -24.750 | |
| **4812** | 15.625 | 7.750 | -28.000 | Ap_pilote |
| **4813** | 18.125 | 1.550 | -0.250 | |
| **4814** | 18.125 | 1.550 | -15.250 | |
| **4815** | 18.125 | 1.550 | -24.750 | |
| **4816** | 18.125 | 1.550 | -28.000 | Ap_pilote |
| **4817** | 18.125 | 3.050 | -0.250 | |
| **4818** | 18.125 | 3.050 | -15.250 | |
| **4819** | 18.125 | 3.050 | -24.750 | |
| **4820** | 18.125 | 3.050 | -28.000 | Ap_pilote |
| **4821** | 18.125 | 4.650 | -0.250 | |
| **4822** | 18.125 | 4.650 | -15.250 | |
| **4823** | 18.125 | 4.650 | -24.750 | |
| **4824** | 18.125 | 4.650 | -28.000 | Ap_pilote |
| **4825** | 18.125 | 6.250 | -0.250 | |
| **4826** | 18.125 | 6.250 | -15.250 | |
| **4827** | 18.125 | 6.250 | -24.750 | |
| **4828** | 18.125 | 6.250 | -28.000 | Ap_pilote |
| **4829** | 18.125 | 7.750 | -0.250 | |
| **4830** | 18.125 | 7.750 | -15.250 | |
| **4831** | 18.125 | 7.750 | -24.750 | |
| **4832** | 18.125 | 7.750 | -28.000 | Ap_pilote |
| **4833** | 24.125 | 1.550 | -0.250 | |
| **4834** | 24.125 | 1.550 | -15.250 | |
| **4835** | 24.125 | 1.550 | -24.750 | |
| **4836** | 24.125 | 1.550 | -28.000 | Ap_pilote |
| **4837** | 24.125 | 3.050 | -0.250 | |
| **4838** | 24.125 | 3.050 | -15.250 | |
| **4839** | 24.125 | 3.050 | -24.750 | |

| | | | | |
|---|---|---|---|---|
| **4840** | 24.125 | 3.050 | -28.000 | Ap_pilote |
| **4841** | 24.125 | 4.650 | -0.250 | |
| **4842** | 24.125 | 4.650 | -15.250 | |
| **4843** | 24.125 | 4.650 | -24.750 | |
| **4844** | 24.125 | 4.650 | -28.000 | Ap_pilote |
| **4845** | 24.125 | 6.250 | -0.250 | |
| **4846** | 24.125 | 6.250 | -15.250 | |
| **4847** | 24.125 | 6.250 | -24.750 | |
| **4848** | 24.125 | 6.250 | -28.000 | Ap_pilote |
| **4849** | 24.125 | 7.750 | -0.250 | |
| **4850** | 24.125 | 7.750 | -15.250 | |
| **4851** | 24.125 | 7.750 | -24.750 | |
| **4852** | 24.125 | 7.750 | -28.000 | Ap_pilote |
| **4853** | 26.625 | 1.550 | -0.250 | |
| **4854** | 26.625 | 1.550 | -15.250 | |
| **4855** | 26.625 | 1.550 | -24.750 | |
| **4856** | 26.625 | 1.550 | -28.000 | Ap_pilote |
| **4857** | 26.625 | 3.050 | -0.250 | |
| **4858** | 26.625 | 3.050 | -15.250 | |
| **4859** | 26.625 | 3.050 | -24.750 | |
| **4860** | 26.625 | 3.050 | -28.000 | Ap_pilote |
| **4861** | 26.625 | 4.650 | -0.250 | |
| **4862** | 26.625 | 4.650 | -15.250 | |
| **4863** | 26.625 | 4.650 | -24.750 | |
| **4864** | 26.625 | 4.650 | -28.000 | Ap_pilote |
| **4865** | 26.625 | 6.250 | -0.250 | |
| **4866** | 26.625 | 6.250 | -15.250 | |
| **4867** | 26.625 | 6.250 | -24.750 | |
| **4868** | 26.625 | 6.250 | -28.000 | Ap_pilote |
| **4869** | 26.625 | 7.750 | -0.250 | |
| **4870** | 26.625 | 7.750 | -15.250 | |
| **4871** | 26.625 | 7.750 | -24.750 | |
| **4872** | 26.625 | 7.750 | -28.000 | Ap_pilote |
| **5083** | 2.344 | 0.0 | 0.0 | |
| **5084** | 2.344 | 0.251 | 0.0 | |
| **5085** | 2.344 | 0.503 | 0.0 | |
| **5086** | 2.344 | 0.754 | 0.0 | |
| **5087** | 2.344 | 1.005 | 0.0 | |
| **5088** | 1.875 | 1.005 | 0.0 | Ap_borde |
| **5089** | 2.344 | 1.257 | 0.0 | |
| **5090** | 2.344 | 1.508 | 0.0 | |
| **5091** | 2.344 | 1.759 | 0.0 | |
| **5092** | 2.344 | 2.011 | 0.0 | |
| **5093** | 2.344 | 2.262 | 0.0 | |
| **5094** | 2.344 | 2.514 | 0.0 | |
| **5095** | 2.344 | 2.765 | 0.0 | |
| **5096** | 2.344 | 3.016 | 0.0 | |
| **5097** | 2.344 | 3.268 | 0.0 | |
| **5098** | 2.344 | 3.519 | 0.0 | |
| **5099** | 2.344 | 3.770 | 0.0 | |
| **5100** | 2.344 | 4.022 | 0.0 | |
| **5101** | 2.344 | 4.273 | 0.0 | |
| **5102** | 2.344 | 4.524 | 0.0 | |
| **5103** | 2.344 | 4.776 | 0.0 | |
| **5104** | 2.344 | 5.027 | 0.0 | |
| **5105** | 2.344 | 5.278 | 0.0 | |
| **5106** | 2.344 | 5.530 | 0.0 | |
| **5107** | 2.344 | 5.781 | 0.0 | |
| **5108** | 2.344 | 6.032 | 0.0 | |
| **5109** | 2.344 | 6.284 | 0.0 | |
| **5110** | 2.344 | 6.535 | 0.0 | |
| **5111** | 2.344 | 6.786 | 0.0 | |
| **5112** | 1.875 | 6.786 | 0.0 | Ap_borde |
| **5113** | 2.344 | 7.038 | 0.0 | |
| **5114** | 2.344 | 7.289 | 0.0 | |
| **5115** | 1.875 | 7.289 | 0.0 | Ap_borde |
| **5116** | 2.344 | 7.541 | 0.0 | |
| **5117** | 2.344 | 7.792 | 0.0 | |
| **5118** | 2.344 | 8.043 | 0.0 | |
| **5119** | 2.344 | 8.295 | 0.0 | |
| **5120** | 1.875 | 8.295 | 0.0 | Ap_borde |
| **5121** | 2.344 | 8.546 | 0.0 | |
| **5122** | 2.344 | 8.797 | 0.0 | |
| **5123** | 2.344 | 9.049 | 0.0 | |
| **5124** | 2.344 | 9.300 | 0.0 | |
| **5125** | 2.813 | 0.0 | 0.0 | |
| **5126** | 2.813 | 0.251 | 0.0 | |
| **5127** | 2.813 | 0.503 | 0.0 | |
| **5128** | 2.813 | 0.754 | 0.0 | |
| **5129** | 2.813 | 1.005 | 0.0 | |
| **5130** | 2.813 | 1.257 | 0.0 | |
| **5131** | 2.813 | 1.508 | 0.0 | |
| **5132** | 2.813 | 1.759 | 0.0 | |
| **5133** | 2.813 | 2.011 | 0.0 | |
| **5134** | 2.813 | 2.262 | 0.0 | |
| **5135** | 2.813 | 2.514 | 0.0 | |
| **5136** | 2.813 | 2.765 | 0.0 | |
| **5137** | 2.813 | 3.016 | 0.0 | |
| **5138** | 2.813 | 3.268 | 0.0 | |
| **5139** | 2.813 | 3.519 | 0.0 | |
| **5140** | 2.813 | 3.770 | 0.0 | |
| **5141** | 2.813 | 4.022 | 0.0 | |
| **5142** | 2.813 | 4.273 | 0.0 | |
| **5143** | 2.813 | 4.524 | 0.0 | |
| **5144** | 2.813 | 4.776 | 0.0 | |
| **5145** | 2.813 | 5.027 | 0.0 | |
| **5146** | 2.813 | 5.278 | 0.0 | |
| **5147** | 2.813 | 5.530 | 0.0 | |
| **5148** | 2.813 | 5.781 | 0.0 | |
| **5149** | 2.813 | 6.032 | 0.0 | |
| **5150** | 2.813 | 6.284 | 0.0 | |
| **5151** | 2.813 | 6.535 | 0.0 | |
| **5152** | 2.813 | 6.786 | 0.0 | |
| **5153** | 2.813 | 7.038 | 0.0 | |
| **5154** | 2.813 | 7.289 | 0.0 | |
| **5155** | 2.813 | 7.541 | 0.0 | |
| **5156** | 2.813 | 7.792 | 0.0 | |
| **5157** | 2.813 | 8.043 | 0.0 | |
| **5158** | 2.813 | 8.295 | 0.0 | |
| **5159** | 2.813 | 8.546 | 0.0 | |
| **5160** | 2.813 | 8.797 | 0.0 | |
| **5161** | 2.813 | 9.049 | 0.0 | |
| **5162** | 2.813 | 9.300 | 0.0 | |
| **5163** | 3.281 | 0.0 | 0.0 | |
| **5164** | 3.281 | 0.251 | 0.0 | |
| **5165** | 3.281 | 0.503 | 0.0 | |
| **5166** | 3.281 | 0.754 | 0.0 | |
| **5167** | 3.281 | 1.005 | 0.0 | |
| **5168** | 3.281 | 1.257 | 0.0 | |
| **5169** | 3.281 | 1.508 | 0.0 | |
| **5170** | 3.281 | 1.759 | 0.0 | |
| **5171** | 3.281 | 2.011 | 0.0 | |
| **5172** | 3.281 | 2.262 | 0.0 | |
| **5173** | 3.281 | 2.514 | 0.0 | |
| **5174** | 3.281 | 2.765 | 0.0 | |
| **5175** | 3.281 | 3.016 | 0.0 | |
| **5176** | 3.281 | 3.268 | 0.0 | |
| **5177** | 3.281 | 3.519 | 0.0 | |
| **5178** | 3.281 | 3.770 | 0.0 | |
| **5179** | 3.281 | 4.022 | 0.0 | |
| **5180** | 3.281 | 4.273 | 0.0 | |
| **5181** | 3.281 | 4.524 | 0.0 | |
| **5182** | 3.281 | 4.776 | 0.0 | |
| **5183** | 3.281 | 5.027 | 0.0 | |
| **5184** | 3.281 | 5.278 | 0.0 | |
| **5185** | 3.281 | 5.530 | 0.0 | |
| **5186** | 3.281 | 5.781 | 0.0 | |
| **5187** | 3.281 | 6.032 | 0.0 | |
| **5188** | 3.281 | 6.284 | 0.0 | |
| **5189** | 3.281 | 6.535 | 0.0 | |
| **5190** | 3.281 | 6.786 | 0.0 | |
| **5191** | 3.281 | 7.038 | 0.0 | |
| **5192** | 3.281 | 7.289 | 0.0 | |
| **5193** | 3.281 | 7.541 | 0.0 | |
| **5194** | 3.281 | 7.792 | 0.0 | |
| **5195** | 3.281 | 8.043 | 0.0 | |
| **5196** | 3.281 | 8.295 | 0.0 | |
| **5197** | 3.281 | 8.546 | 0.0 | |
| **5198** | 3.281 | 8.797 | 0.0 | |
| **5199** | 3.281 | 9.049 | 0.0 | |
| **5200** | 3.281 | 9.300 | 0.0 | |
| **5201** | 3.750 | 0.0 | 0.0 | |
| **5202** | 3.750 | 0.251 | 0.0 | |
| **5203** | 3.750 | 0.503 | 0.0 | |
| **5204** | 3.750 | 0.754 | 0.0 | |
| **5206** | 3.750 | 1.257 | 0.0 | |
| **5207** | 3.750 | 1.508 | 0.0 | |
| **5208** | 3.750 | 1.759 | 0.0 | |
| **5209** | 3.750 | 2.011 | 0.0 | |
| **5210** | 3.750 | 2.262 | 0.0 | |
| **5211** | 3.750 | 2.514 | 0.0 | |
| **5212** | 3.750 | 2.765 | 0.0 | |
| **5213** | 3.750 | 3.016 | 0.0 | |
| **5214** | 3.750 | 3.268 | 0.0 | |
| **5215** | 3.750 | 3.519 | 0.0 | |
| **5216** | 3.750 | 3.770 | 0.0 | |
| **5217** | 3.750 | 4.022 | 0.0 | |
| **5218** | 3.750 | 4.273 | 0.0 | |
| **5219** | 3.750 | 4.524 | 0.0 | |
| **5220** | 3.750 | 4.776 | 0.0 | |
| **5221** | 3.750 | 5.027 | 0.0 | |
| **5222** | 3.750 | 5.278 | 0.0 | |
| **5223** | 3.750 | 5.530 | 0.0 | |
| **5224** | 3.750 | 5.781 | 0.0 | |
| **5225** | 3.750 | 6.032 | 0.0 | |
| **5226** | 3.750 | 6.284 | 0.0 | |
| **5227** | 3.750 | 6.535 | 0.0 | |
| **5229** | 3.750 | 7.038 | 0.0 | |
| **5231** | 3.750 | 7.541 | 0.0 | |
| **5232** | 3.750 | 7.792 | 0.0 | |
| **5233** | 3.750 | 8.043 | 0.0 | |
| **5235** | 3.750 | 8.546 | 0.0 | |
| **5236** | 3.750 | 8.797 | 0.0 | |
| **5237** | 3.750 | 9.049 | 0.0 | |
| **5238** | 3.750 | 9.300 | 0.0 | |
| **5239** | 4.219 | 0.0 | 0.0 | |
| **5240** | 4.219 | 0.251 | 0.0 | |
| **5241** | 4.219 | 0.503 | 0.0 | |
| **5242** | 4.219 | 0.754 | 0.0 | |
| **5243** | 4.219 | 1.005 | 0.0 | |
| **5244** | 3.750 | 1.005 | 0.0 | Ap_borde |
| **5245** | 4.219 | 1.257 | 0.0 | |
| **5246** | 4.219 | 1.508 | 0.0 | |
| **5247** | 4.219 | 1.759 | 0.0 | |
| **5248** | 4.219 | 2.011 | 0.0 | |
| **5249** | 4.219 | 2.262 | 0.0 | |
| **5250** | 4.219 | 2.514 | 0.0 | |
| **5251** | 4.219 | 2.765 | 0.0 | |
| **5252** | 4.219 | 3.016 | 0.0 | |
| **5253** | 4.219 | 3.268 | 0.0 | |
| **5254** | 4.219 | 3.519 | 0.0 | |
| **5255** | 4.219 | 3.770 | 0.0 | |
| **5256** | 4.219 | 4.022 | 0.0 | |
| **5257** | 4.219 | 4.273 | 0.0 | |
| **5258** | 4.219 | 4.524 | 0.0 | |
| **5259** | 4.219 | 4.776 | 0.0 | |
| **5260** | 4.219 | 5.027 | 0.0 | |
| **5261** | 4.219 | 5.278 | 0.0 | |
| **5262** | 4.219 | 5.530 | 0.0 | |
| **5263** | 4.219 | 5.781 | 0.0 | |
| **5264** | 4.219 | 6.032 | 0.0 | |
| **5265** | 4.219 | 6.284 | 0.0 | |
| **5266** | 4.219 | 6.535 | 0.0 | |
| **5267** | 4.219 | 6.786 | 0.0 | |
| **5268** | 3.750 | 6.786 | 0.0 | Ap_borde |
| **5269** | 4.219 | 7.038 | 0.0 | |
| **5270** | 4.219 | 7.289 | 0.0 | |
| **5271** | 3.750 | 7.289 | 0.0 | Ap_borde |
| **5272** | 4.219 | 7.541 | 0.0 | |
| **5273** | 4.219 | 7.792 | 0.0 | |
| **5274** | 4.219 | 8.043 | 0.0 | |
| **5275** | 4.219 | 8.295 | 0.0 | |
| **5276** | 3.750 | 8.295 | 0.0 | Ap_borde |
| **5277** | 4.219 | 8.546 | 0.0 | |
| **5278** | 4.219 | 8.797 | 0.0 | |
| **5279** | 4.219 | 9.049 | 0.0 | |
| **5280** | 4.219 | 9.300 | 0.0 | |
| **5281** | 4.688 | 0.0 | 0.0 | |
| **5282** | 4.688 | 0.251 | 0.0 | |
| **5283** | 4.688 | 0.503 | 0.0 | |
| **5284** | 4.688 | 0.754 | 0.0 | |
| **5285** | 4.688 | 1.005 | 0.0 | |
| **5286** | 4.688 | 1.257 | 0.0 | |
| **5287** | 4.688 | 1.508 | 0.0 | |
| **5288** | 4.688 | 1.759 | 0.0 | |
| **5289** | 4.688 | 2.011 | 0.0 | |
| **5290** | 4.688 | 2.262 | 0.0 | |
| **5291** | 4.688 | 2.514 | 0.0 | |
| **5292** | 4.688 | 2.765 | 0.0 | |
| **5293** | 4.688 | 3.016 | 0.0 | |
| **5294** | 4.688 | 3.268 | 0.0 | |
| **5295** | 4.688 | 3.519 | 0.0 | |
| **5296** | 4.688 | 3.770 | 0.0 | |
| **5297** | 4.688 | 4.022 | 0.0 | |
| **5298** | 4.688 | 4.273 | 0.0 | |
| **5299** | 4.688 | 4.524 | 0.0 | |
| **5300** | 4.688 | 4.776 | 0.0 | |
| **5301** | 4.688 | 5.027 | 0.0 | |
| **5302** | 4.688 | 5.278 | 0.0 | |
| **5303** | 4.688 | 5.530 | 0.0 | |
| **5304** | 4.688 | 5.781 | 0.0 | |
| **5305** | 4.688 | 6.032 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **5306** | 4.688 | 6.284 | 0.0 | |
| **5307** | 4.688 | 6.535 | 0.0 | |
| **5308** | 4.688 | 6.786 | 0.0 | |
| **5309** | 4.688 | 7.038 | 0.0 | |
| **5310** | 4.688 | 7.289 | 0.0 | |
| **5311** | 4.688 | 7.541 | 0.0 | |
| **5312** | 4.688 | 7.792 | 0.0 | |
| **5313** | 4.688 | 8.043 | 0.0 | |
| **5314** | 4.688 | 8.295 | 0.0 | |
| **5315** | 4.688 | 8.546 | 0.0 | |
| **5316** | 4.688 | 8.797 | 0.0 | |
| **5317** | 4.688 | 9.049 | 0.0 | |
| **5318** | 4.688 | 9.300 | 0.0 | |
| **5319** | 5.156 | 0.0 | 0.0 | |
| **5320** | 5.156 | 0.251 | 0.0 | |
| **5321** | 5.156 | 0.503 | 0.0 | |
| **5322** | 5.156 | 0.754 | 0.0 | |
| **5323** | 5.156 | 1.005 | 0.0 | |
| **5324** | 5.156 | 1.257 | 0.0 | |
| **5325** | 5.156 | 1.508 | 0.0 | |
| **5326** | 5.156 | 1.759 | 0.0 | |
| **5327** | 5.156 | 2.011 | 0.0 | |
| **5328** | 5.156 | 2.262 | 0.0 | |
| **5329** | 5.156 | 2.514 | 0.0 | |
| **5330** | 5.156 | 2.765 | 0.0 | |
| **5331** | 5.156 | 3.016 | 0.0 | |
| **5332** | 5.156 | 3.268 | 0.0 | |
| **5333** | 5.156 | 3.519 | 0.0 | |
| **5334** | 5.156 | 3.770 | 0.0 | |
| **5335** | 5.156 | 4.022 | 0.0 | |
| **5336** | 5.156 | 4.273 | 0.0 | |
| **5337** | 5.156 | 4.524 | 0.0 | |
| **5338** | 5.156 | 4.776 | 0.0 | |
| **5339** | 5.156 | 5.027 | 0.0 | |
| **5340** | 5.156 | 5.278 | 0.0 | |
| **5341** | 5.156 | 5.530 | 0.0 | |
| **5342** | 5.156 | 5.781 | 0.0 | |
| **5343** | 5.156 | 6.032 | 0.0 | |
| **5344** | 5.156 | 6.284 | 0.0 | |
| **5345** | 5.156 | 6.535 | 0.0 | |
| **5346** | 5.156 | 6.786 | 0.0 | |
| **5347** | 5.156 | 7.038 | 0.0 | |
| **5348** | 5.156 | 7.289 | 0.0 | |
| **5349** | 5.156 | 7.541 | 0.0 | |
| **5350** | 5.156 | 7.792 | 0.0 | |
| **5351** | 5.156 | 8.043 | 0.0 | |
| **5352** | 5.156 | 8.295 | 0.0 | |
| **5353** | 5.156 | 8.546 | 0.0 | |
| **5354** | 5.156 | 8.797 | 0.0 | |
| **5355** | 5.156 | 9.049 | 0.0 | |
| **5356** | 5.156 | 9.300 | 0.0 | |
| **5357** | 5.625 | 0.0 | 0.0 | |
| **5358** | 5.625 | 0.251 | 0.0 | |
| **5359** | 5.625 | 0.503 | 0.0 | |
| **5360** | 5.625 | 0.754 | 0.0 | |
| **5362** | 5.625 | 1.257 | 0.0 | |
| **5363** | 5.625 | 1.508 | 0.0 | |
| **5364** | 5.625 | 1.759 | 0.0 | |
| **5365** | 5.625 | 2.011 | 0.0 | |
| **5366** | 5.625 | 2.262 | 0.0 | |
| **5367** | 5.625 | 2.514 | 0.0 | |
| **5368** | 5.625 | 2.765 | 0.0 | |
| **5369** | 5.625 | 3.016 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **5370** | 5.625 | 3.268 | 0.0 | |
| **5371** | 5.625 | 3.519 | 0.0 | |
| **5372** | 5.625 | 3.770 | 0.0 | |
| **5373** | 5.625 | 4.022 | 0.0 | |
| **5374** | 5.625 | 4.273 | 0.0 | |
| **5375** | 5.625 | 4.524 | 0.0 | |
| **5376** | 5.625 | 4.776 | 0.0 | |
| **5377** | 5.625 | 5.027 | 0.0 | |
| **5378** | 5.625 | 5.278 | 0.0 | |
| **5379** | 5.625 | 5.530 | 0.0 | |
| **5380** | 5.625 | 5.781 | 0.0 | |
| **5381** | 5.625 | 6.032 | 0.0 | |
| **5382** | 5.625 | 6.284 | 0.0 | |
| **5383** | 5.625 | 6.535 | 0.0 | |
| **5385** | 5.625 | 7.038 | 0.0 | |
| **5387** | 5.625 | 7.541 | 0.0 | |
| **5388** | 5.625 | 7.792 | 0.0 | |
| **5389** | 5.625 | 8.043 | 0.0 | |
| **5391** | 5.625 | 8.546 | 0.0 | |
| **5392** | 5.625 | 8.797 | 0.0 | |
| **5393** | 5.625 | 9.049 | 0.0 | |
| **5394** | 5.625 | 9.300 | 0.0 | |
| **5395** | 6.094 | 0.0 | 0.0 | |
| **5396** | 6.094 | 0.251 | 0.0 | |
| **5397** | 6.094 | 0.503 | 0.0 | |
| **5398** | 6.094 | 0.754 | 0.0 | |
| **5399** | 6.094 | 1.005 | 0.0 | |
| **5400** | 5.625 | 1.005 | 0.0 | Ap_borde |
| **5401** | 6.094 | 1.257 | 0.0 | |
| **5402** | 6.094 | 1.508 | 0.0 | |
| **5403** | 6.094 | 1.759 | 0.0 | |
| **5404** | 6.094 | 2.011 | 0.0 | |
| **5405** | 6.094 | 2.262 | 0.0 | |
| **5406** | 6.094 | 2.514 | 0.0 | |
| **5407** | 6.094 | 2.765 | 0.0 | |
| **5408** | 6.094 | 3.016 | 0.0 | |
| **5409** | 6.094 | 3.268 | 0.0 | |
| **5410** | 6.094 | 3.519 | 0.0 | |
| **5411** | 6.094 | 3.770 | 0.0 | |
| **5412** | 6.094 | 4.022 | 0.0 | |
| **5413** | 6.094 | 4.273 | 0.0 | |
| **5414** | 6.094 | 4.524 | 0.0 | |
| **5415** | 6.094 | 4.776 | 0.0 | |
| **5416** | 6.094 | 5.027 | 0.0 | |
| **5417** | 6.094 | 5.278 | 0.0 | |
| **5418** | 6.094 | 5.530 | 0.0 | |
| **5419** | 6.094 | 5.781 | 0.0 | |
| **5420** | 6.094 | 6.032 | 0.0 | |
| **5421** | 6.094 | 6.284 | 0.0 | |
| **5422** | 6.094 | 6.535 | 0.0 | |
| **5423** | 6.094 | 6.786 | 0.0 | |
| **5424** | 5.625 | 6.786 | 0.0 | Ap_borde |
| **5425** | 6.094 | 7.038 | 0.0 | |
| **5426** | 6.094 | 7.289 | 0.0 | |
| **5427** | 5.625 | 7.289 | 0.0 | Ap_borde |
| **5428** | 6.094 | 7.541 | 0.0 | |
| **5429** | 6.094 | 7.792 | 0.0 | |
| **5430** | 6.094 | 8.043 | 0.0 | |
| **5431** | 6.094 | 8.295 | 0.0 | |
| **5432** | 5.625 | 8.295 | 0.0 | Ap_borde |
| **5433** | 6.094 | 8.546 | 0.0 | |
| **5434** | 6.094 | 8.797 | 0.0 | |
| **5435** | 6.094 | 9.049 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **5436** | 6.094 | 9.300 | 0.0 | |
| **5437** | 6.563 | 0.0 | 0.0 | |
| **5438** | 6.563 | 0.251 | 0.0 | |
| **5439** | 6.563 | 0.503 | 0.0 | |
| **5440** | 6.563 | 0.754 | 0.0 | |
| **5441** | 6.563 | 1.005 | 0.0 | |
| **5442** | 6.563 | 1.257 | 0.0 | |
| **5443** | 6.563 | 1.508 | 0.0 | |
| **5444** | 6.563 | 1.759 | 0.0 | |
| **5445** | 6.563 | 2.011 | 0.0 | |
| **5446** | 6.563 | 2.262 | 0.0 | |
| **5447** | 6.563 | 2.514 | 0.0 | |
| **5448** | 6.563 | 2.765 | 0.0 | |
| **5449** | 6.563 | 3.016 | 0.0 | |
| **5450** | 6.563 | 3.268 | 0.0 | |
| **5451** | 6.563 | 3.519 | 0.0 | |
| **5452** | 6.563 | 3.770 | 0.0 | |
| **5453** | 6.563 | 4.022 | 0.0 | |
| **5454** | 6.563 | 4.273 | 0.0 | |
| **5455** | 6.563 | 4.524 | 0.0 | |
| **5456** | 6.563 | 4.776 | 0.0 | |
| **5457** | 6.563 | 5.027 | 0.0 | |
| **5458** | 6.563 | 5.278 | 0.0 | |
| **5459** | 6.563 | 5.530 | 0.0 | |
| **5460** | 6.563 | 5.781 | 0.0 | |
| **5461** | 6.563 | 6.032 | 0.0 | |
| **5462** | 6.563 | 6.284 | 0.0 | |
| **5463** | 6.563 | 6.535 | 0.0 | |
| **5464** | 6.563 | 6.786 | 0.0 | |
| **5465** | 6.563 | 7.038 | 0.0 | |
| **5466** | 6.563 | 7.289 | 0.0 | |
| **5467** | 6.563 | 7.541 | 0.0 | |
| **5468** | 6.563 | 7.792 | 0.0 | |
| **5469** | 6.563 | 8.043 | 0.0 | |
| **5470** | 6.563 | 8.295 | 0.0 | |
| **5471** | 6.563 | 8.546 | 0.0 | |
| **5472** | 6.563 | 8.797 | 0.0 | |
| **5473** | 6.563 | 9.049 | 0.0 | |
| **5474** | 6.563 | 9.300 | 0.0 | |
| **5475** | 7.031 | 0.0 | 0.0 | |
| **5476** | 7.031 | 0.251 | 0.0 | |
| **5477** | 7.031 | 0.503 | 0.0 | |
| **5478** | 7.031 | 0.754 | 0.0 | |
| **5479** | 7.031 | 1.005 | 0.0 | |
| **5480** | 7.031 | 1.257 | 0.0 | |
| **5481** | 7.031 | 1.508 | 0.0 | |
| **5482** | 7.031 | 1.759 | 0.0 | |
| **5483** | 7.031 | 2.011 | 0.0 | |
| **5484** | 7.031 | 2.262 | 0.0 | |
| **5485** | 7.031 | 2.514 | 0.0 | |
| **5486** | 7.031 | 2.765 | 0.0 | |
| **5487** | 7.031 | 3.016 | 0.0 | |
| **5488** | 7.031 | 3.268 | 0.0 | |
| **5489** | 7.031 | 3.519 | 0.0 | |
| **5490** | 7.031 | 3.770 | 0.0 | |
| **5491** | 7.031 | 4.022 | 0.0 | |
| **5492** | 7.031 | 4.273 | 0.0 | |
| **5493** | 7.031 | 4.524 | 0.0 | |
| **5494** | 7.031 | 4.776 | 0.0 | |
| **5495** | 7.031 | 5.027 | 0.0 | |
| **5496** | 7.031 | 5.278 | 0.0 | |
| **5497** | 7.031 | 5.530 | 0.0 | |
| **5498** | 7.031 | 5.781 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **5499** | 7.031 | 6.032 | 0.0 | |
| **5500** | 7.031 | 6.284 | 0.0 | |
| **5501** | 7.031 | 6.535 | 0.0 | |
| **5502** | 7.031 | 6.786 | 0.0 | |
| **5503** | 7.031 | 7.038 | 0.0 | |
| **5504** | 7.031 | 7.289 | 0.0 | |
| **5505** | 7.031 | 7.541 | 0.0 | |
| **5506** | 7.031 | 7.792 | 0.0 | |
| **5507** | 7.031 | 8.043 | 0.0 | |
| **5508** | 7.031 | 8.295 | 0.0 | |
| **5509** | 7.031 | 8.546 | 0.0 | |
| **5510** | 7.031 | 8.797 | 0.0 | |
| **5511** | 7.031 | 9.049 | 0.0 | |
| **5512** | 7.031 | 9.300 | 0.0 | |
| **5513** | 7.500 | 0.0 | 0.0 | |
| **5514** | 7.500 | 0.251 | 0.0 | |
| **5515** | 7.500 | 0.503 | 0.0 | |
| **5516** | 7.500 | 0.754 | 0.0 | |
| **5518** | 7.500 | 1.257 | 0.0 | |
| **5519** | 7.500 | 1.508 | 0.0 | |
| **5520** | 7.500 | 1.759 | 0.0 | |
| **5521** | 7.500 | 2.011 | 0.0 | |
| **5522** | 7.500 | 2.262 | 0.0 | |
| **5523** | 7.500 | 2.514 | 0.0 | |
| **5524** | 7.500 | 2.765 | 0.0 | |
| **5525** | 7.500 | 3.016 | 0.0 | |
| **5526** | 7.500 | 3.268 | 0.0 | |
| **5527** | 7.500 | 3.519 | 0.0 | |
| **5528** | 7.500 | 3.770 | 0.0 | |
| **5529** | 7.500 | 4.022 | 0.0 | |
| **5530** | 7.500 | 4.273 | 0.0 | |
| **5531** | 7.500 | 4.524 | 0.0 | |
| **5532** | 7.500 | 4.776 | 0.0 | |
| **5533** | 7.500 | 5.027 | 0.0 | |
| **5534** | 7.500 | 5.278 | 0.0 | |
| **5535** | 7.500 | 5.530 | 0.0 | |
| **5536** | 7.500 | 5.781 | 0.0 | |
| **5537** | 7.500 | 6.032 | 0.0 | |
| **5538** | 7.500 | 6.284 | 0.0 | |
| **5539** | 7.500 | 6.535 | 0.0 | |
| **5541** | 7.500 | 7.038 | 0.0 | |
| **5543** | 7.500 | 7.541 | 0.0 | |
| **5544** | 7.500 | 7.792 | 0.0 | |
| **5545** | 7.500 | 8.043 | 0.0 | |
| **5547** | 7.500 | 8.546 | 0.0 | |
| **5548** | 7.500 | 8.797 | 0.0 | |
| **5549** | 7.500 | 9.049 | 0.0 | |
| **5550** | 7.500 | 9.300 | 0.0 | |
| **5551** | 7.969 | 0.0 | 0.0 | |
| **5552** | 7.969 | 0.251 | 0.0 | |
| **5553** | 7.969 | 0.503 | 0.0 | |
| **5554** | 7.969 | 0.754 | 0.0 | |
| **5555** | 7.969 | 1.005 | 0.0 | |
| **5556** | 7.500 | 1.005 | 0.0 | Ap_borde |
| **5557** | 7.969 | 1.257 | 0.0 | |
| **5558** | 7.969 | 1.508 | 0.0 | |
| **5559** | 7.969 | 1.759 | 0.0 | |
| **5560** | 7.969 | 2.011 | 0.0 | |
| **5561** | 7.969 | 2.262 | 0.0 | |
| **5562** | 7.969 | 2.514 | 0.0 | |
| **5563** | 7.969 | 2.765 | 0.0 | |
| **5564** | 7.969 | 3.016 | 0.0 | |
| **5565** | 7.969 | 3.268 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **5566** | 7.969 | 3.519 | 0.0 | |
| **5567** | 7.969 | 3.770 | 0.0 | |
| **5568** | 7.969 | 4.022 | 0.0 | |
| **5569** | 7.969 | 4.273 | 0.0 | |
| **5570** | 7.969 | 4.524 | 0.0 | |
| **5571** | 7.969 | 4.776 | 0.0 | |
| **5572** | 7.969 | 5.027 | 0.0 | |
| **5573** | 7.969 | 5.278 | 0.0 | |
| **5574** | 7.969 | 5.530 | 0.0 | |
| **5575** | 7.969 | 5.781 | 0.0 | |
| **5576** | 7.969 | 6.032 | 0.0 | |
| **5577** | 7.969 | 6.284 | 0.0 | |
| **5578** | 7.969 | 6.535 | 0.0 | |
| **5579** | 7.969 | 6.786 | 0.0 | |
| **5580** | 7.500 | 6.786 | 0.0 | Ap_borde |
| **5581** | 7.969 | 7.038 | 0.0 | |
| **5582** | 7.969 | 7.289 | 0.0 | |
| **5583** | 7.500 | 7.289 | 0.0 | Ap_borde |
| **5584** | 7.969 | 7.541 | 0.0 | |
| **5585** | 7.969 | 7.792 | 0.0 | |
| **5586** | 7.969 | 8.043 | 0.0 | |
| **5587** | 7.969 | 8.295 | 0.0 | |
| **5588** | 7.500 | 8.295 | 0.0 | Ap_borde |
| **5589** | 7.969 | 8.546 | 0.0 | |
| **5590** | 7.969 | 8.797 | 0.0 | |
| **5591** | 7.969 | 9.049 | 0.0 | |
| **5592** | 7.969 | 9.300 | 0.0 | |
| **5593** | 8.438 | 0.0 | 0.0 | |
| **5594** | 8.438 | 0.251 | 0.0 | |
| **5595** | 8.438 | 0.503 | 0.0 | |
| **5596** | 8.438 | 0.754 | 0.0 | |
| **5597** | 8.438 | 1.005 | 0.0 | |
| **5598** | 8.438 | 1.257 | 0.0 | |
| **5599** | 8.438 | 1.508 | 0.0 | |
| **5600** | 8.438 | 1.759 | 0.0 | |
| **5601** | 8.438 | 2.011 | 0.0 | |
| **5602** | 8.438 | 2.262 | 0.0 | |
| **5603** | 8.438 | 2.514 | 0.0 | |
| **5604** | 8.438 | 2.765 | 0.0 | |
| **5605** | 8.438 | 3.016 | 0.0 | |
| **5606** | 8.438 | 3.268 | 0.0 | |
| **5607** | 8.438 | 3.519 | 0.0 | |
| **5608** | 8.438 | 3.770 | 0.0 | |
| **5609** | 8.438 | 4.022 | 0.0 | |
| **5610** | 8.438 | 4.273 | 0.0 | |
| **5611** | 8.438 | 4.524 | 0.0 | |
| **5612** | 8.438 | 4.776 | 0.0 | |
| **5613** | 8.438 | 5.027 | 0.0 | |
| **5614** | 8.438 | 5.278 | 0.0 | |
| **5615** | 8.438 | 5.530 | 0.0 | |
| **5616** | 8.438 | 5.781 | 0.0 | |
| **5617** | 8.438 | 6.032 | 0.0 | |
| **5618** | 8.438 | 6.284 | 0.0 | |
| **5619** | 8.438 | 6.535 | 0.0 | |
| **5620** | 8.438 | 6.786 | 0.0 | |
| **5621** | 8.438 | 7.038 | 0.0 | |
| **5622** | 8.438 | 7.289 | 0.0 | |
| **5623** | 8.438 | 7.541 | 0.0 | |
| **5624** | 8.438 | 7.792 | 0.0 | |
| **5625** | 8.438 | 8.043 | 0.0 | |
| **5626** | 8.438 | 8.295 | 0.0 | |
| **5627** | 8.438 | 8.546 | 0.0 | |
| **5628** | 8.438 | 8.797 | 0.0 | |

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|---|---|---|---|---|
| **5629** | 8.438 | 9.049 | 0.0 | |
| **5630** | 8.438 | 9.300 | 0.0 | |
| **5631** | 8.906 | 0.0 | 0.0 | |
| **5632** | 8.906 | 0.251 | 0.0 | |
| **5633** | 8.906 | 0.503 | 0.0 | |
| **5634** | 8.906 | 0.754 | 0.0 | |
| **5635** | 8.906 | 1.005 | 0.0 | |
| **5636** | 8.906 | 1.257 | 0.0 | |
| **5637** | 8.906 | 1.508 | 0.0 | |
| **5638** | 8.906 | 1.759 | 0.0 | |
| **5639** | 8.906 | 2.011 | 0.0 | |
| **5640** | 8.906 | 2.262 | 0.0 | |
| **5641** | 8.906 | 2.514 | 0.0 | |
| **5642** | 8.906 | 2.765 | 0.0 | |
| **5643** | 8.906 | 3.016 | 0.0 | |
| **5644** | 8.906 | 3.268 | 0.0 | |
| **5645** | 8.906 | 3.519 | 0.0 | |
| **5646** | 8.906 | 3.770 | 0.0 | |
| **5647** | 8.906 | 4.022 | 0.0 | |
| **5648** | 8.906 | 4.273 | 0.0 | |
| **5649** | 8.906 | 4.524 | 0.0 | |
| **5650** | 8.906 | 4.776 | 0.0 | |
| **5651** | 8.906 | 5.027 | 0.0 | |
| **5652** | 8.906 | 5.278 | 0.0 | |
| **5653** | 8.906 | 5.530 | 0.0 | |
| **5654** | 8.906 | 5.781 | 0.0 | |
| **5655** | 8.906 | 6.032 | 0.0 | |
| **5656** | 8.906 | 6.284 | 0.0 | |
| **5657** | 8.906 | 6.535 | 0.0 | |
| **5658** | 8.906 | 6.786 | 0.0 | |
| **5659** | 8.906 | 7.038 | 0.0 | |
| **5660** | 8.906 | 7.289 | 0.0 | |
| **5661** | 8.906 | 7.541 | 0.0 | |
| **5662** | 8.906 | 7.792 | 0.0 | |
| **5663** | 8.906 | 8.043 | 0.0 | |
| **5664** | 8.906 | 8.295 | 0.0 | |
| **5665** | 8.906 | 8.546 | 0.0 | |
| **5666** | 8.906 | 8.797 | 0.0 | |
| **5667** | 8.906 | 9.049 | 0.0 | |
| **5668** | 8.906 | 9.300 | 0.0 | |
| **5669** | 9.375 | 0.0 | 0.0 | |
| **5670** | 9.375 | 0.251 | 0.0 | |
| **5671** | 9.375 | 0.503 | 0.0 | |
| **5672** | 9.375 | 0.754 | 0.0 | |
| **5674** | 9.375 | 1.257 | 0.0 | |
| **5675** | 9.375 | 1.508 | 0.0 | |
| **5676** | 9.375 | 1.759 | 0.0 | |
| **5677** | 9.375 | 2.011 | 0.0 | |
| **5678** | 9.375 | 2.262 | 0.0 | |
| **5679** | 9.375 | 2.514 | 0.0 | |
| **5680** | 9.375 | 2.765 | 0.0 | |
| **5681** | 9.375 | 3.016 | 0.0 | |
| **5682** | 9.375 | 3.268 | 0.0 | |
| **5683** | 9.375 | 3.519 | 0.0 | |
| **5684** | 9.375 | 3.770 | 0.0 | |
| **5685** | 9.375 | 4.022 | 0.0 | |
| **5686** | 9.375 | 4.273 | 0.0 | |
| **5687** | 9.375 | 4.524 | 0.0 | |
| **5688** | 9.375 | 4.776 | 0.0 | |
| **5689** | 9.375 | 5.027 | 0.0 | |
| **5690** | 9.375 | 5.278 | 0.0 | |
| **5691** | 9.375 | 5.530 | 0.0 | |
| **5692** | 9.375 | 5.781 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **5693** | 9.375 | 6.032 | 0.0 | |
| **5694** | 9.375 | 6.284 | 0.0 | |
| **5695** | 9.375 | 6.535 | 0.0 | |
| **5697** | 9.375 | 7.038 | 0.0 | |
| **5699** | 9.375 | 7.541 | 0.0 | |
| **5700** | 9.375 | 7.792 | 0.0 | |
| **5701** | 9.375 | 8.043 | 0.0 | |
| **5703** | 9.375 | 8.546 | 0.0 | |
| **5704** | 9.375 | 8.797 | 0.0 | |
| **5705** | 9.375 | 9.049 | 0.0 | |
| **5706** | 9.375 | 9.300 | 0.0 | |
| **5707** | 9.844 | 0.0 | 0.0 | |
| **5708** | 9.844 | 0.251 | 0.0 | |
| **5709** | 9.844 | 0.503 | 0.0 | |
| **5710** | 9.844 | 0.754 | 0.0 | |
| **5711** | 9.844 | 1.005 | 0.0 | |
| **5712** | 9.375 | 1.005 | 0.0 | Ap_borde |
| **5713** | 9.844 | 1.257 | 0.0 | |
| **5714** | 9.844 | 1.508 | 0.0 | |
| **5715** | 9.844 | 1.759 | 0.0 | |
| **5716** | 9.844 | 2.011 | 0.0 | |
| **5717** | 9.844 | 2.262 | 0.0 | |
| **5718** | 9.844 | 2.514 | 0.0 | |
| **5719** | 9.844 | 2.765 | 0.0 | |
| **5720** | 9.844 | 3.016 | 0.0 | |
| **5721** | 9.844 | 3.268 | 0.0 | |
| **5722** | 9.844 | 3.519 | 0.0 | |
| **5723** | 9.844 | 3.770 | 0.0 | |
| **5724** | 9.844 | 4.022 | 0.0 | |
| **5725** | 9.844 | 4.273 | 0.0 | |
| **5726** | 9.844 | 4.524 | 0.0 | |
| **5727** | 9.844 | 4.776 | 0.0 | |
| **5728** | 9.844 | 5.027 | 0.0 | |
| **5729** | 9.844 | 5.278 | 0.0 | |
| **5730** | 9.844 | 5.530 | 0.0 | |
| **5731** | 9.844 | 5.781 | 0.0 | |
| **5732** | 9.844 | 6.032 | 0.0 | |
| **5733** | 9.844 | 6.284 | 0.0 | |
| **5734** | 9.844 | 6.535 | 0.0 | |
| **5735** | 9.844 | 6.786 | 0.0 | |
| **5736** | 9.375 | 6.786 | 0.0 | Ap_borde |
| **5737** | 9.844 | 7.038 | 0.0 | |
| **5738** | 9.844 | 7.289 | 0.0 | |
| **5739** | 9.375 | 7.289 | 0.0 | Ap_borde |
| **5740** | 9.844 | 7.541 | 0.0 | |
| **5741** | 9.844 | 7.792 | 0.0 | |
| **5742** | 9.844 | 8.043 | 0.0 | |
| **5743** | 9.844 | 8.295 | 0.0 | |
| **5744** | 9.375 | 8.295 | 0.0 | Ap_borde |
| **5745** | 9.844 | 8.546 | 0.0 | |
| **5746** | 9.844 | 8.797 | 0.0 | |
| **5747** | 9.844 | 9.049 | 0.0 | |
| **5748** | 9.844 | 9.300 | 0.0 | |
| **5749** | 10.313 | 0.0 | 0.0 | |
| **5750** | 10.313 | 0.251 | 0.0 | |
| **5751** | 10.313 | 0.503 | 0.0 | |
| **5752** | 10.313 | 0.754 | 0.0 | |
| **5753** | 10.313 | 1.005 | 0.0 | |
| **5754** | 10.313 | 1.257 | 0.0 | |
| **5755** | 10.313 | 1.508 | 0.0 | |
| **5756** | 10.313 | 1.759 | 0.0 | |
| **5757** | 10.313 | 2.011 | 0.0 | |
| **5758** | 10.313 | 2.262 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **5759** | 10.313 | 2.514 | 0.0 | |
| **5760** | 10.313 | 2.765 | 0.0 | |
| **5761** | 10.313 | 3.016 | 0.0 | |
| **5762** | 10.313 | 3.268 | 0.0 | |
| **5763** | 10.313 | 3.519 | 0.0 | |
| **5764** | 10.313 | 3.770 | 0.0 | |
| **5765** | 10.313 | 4.022 | 0.0 | |
| **5766** | 10.313 | 4.273 | 0.0 | |
| **5767** | 10.313 | 4.524 | 0.0 | |
| **5768** | 10.313 | 4.776 | 0.0 | |
| **5769** | 10.313 | 5.027 | 0.0 | |
| **5770** | 10.313 | 5.278 | 0.0 | |
| **5771** | 10.313 | 5.530 | 0.0 | |
| **5772** | 10.313 | 5.781 | 0.0 | |
| **5773** | 10.313 | 6.032 | 0.0 | |
| **5774** | 10.313 | 6.284 | 0.0 | |
| **5775** | 10.313 | 6.535 | 0.0 | |
| **5776** | 10.313 | 6.786 | 0.0 | |
| **5777** | 10.313 | 7.038 | 0.0 | |
| **5778** | 10.313 | 7.289 | 0.0 | |
| **5779** | 10.313 | 7.541 | 0.0 | |
| **5780** | 10.313 | 7.792 | 0.0 | |
| **5781** | 10.313 | 8.043 | 0.0 | |
| **5782** | 10.313 | 8.295 | 0.0 | |
| **5783** | 10.313 | 8.546 | 0.0 | |
| **5784** | 10.313 | 8.797 | 0.0 | |
| **5785** | 10.313 | 9.049 | 0.0 | |
| **5786** | 10.313 | 9.300 | 0.0 | |
| **5787** | 10.781 | 0.0 | 0.0 | |
| **5788** | 10.781 | 0.251 | 0.0 | |
| **5789** | 10.781 | 0.503 | 0.0 | |
| **5790** | 10.781 | 0.754 | 0.0 | |
| **5791** | 10.781 | 1.005 | 0.0 | |
| **5792** | 10.781 | 1.257 | 0.0 | |
| **5793** | 10.781 | 1.508 | 0.0 | |
| **5794** | 10.781 | 1.759 | 0.0 | |
| **5795** | 10.781 | 2.011 | 0.0 | |
| **5796** | 10.781 | 2.262 | 0.0 | |
| **5797** | 10.781 | 2.514 | 0.0 | |
| **5798** | 10.781 | 2.765 | 0.0 | |
| **5799** | 10.781 | 3.016 | 0.0 | |
| **5800** | 10.781 | 3.268 | 0.0 | |
| **5801** | 10.781 | 3.519 | 0.0 | |
| **5802** | 10.781 | 3.770 | 0.0 | |
| **5803** | 10.781 | 4.022 | 0.0 | |
| **5804** | 10.781 | 4.273 | 0.0 | |
| **5805** | 10.781 | 4.524 | 0.0 | |
| **5806** | 10.781 | 4.776 | 0.0 | |
| **5807** | 10.781 | 5.027 | 0.0 | |
| **5808** | 10.781 | 5.278 | 0.0 | |
| **5809** | 10.781 | 5.530 | 0.0 | |
| **5810** | 10.781 | 5.781 | 0.0 | |
| **5811** | 10.781 | 6.032 | 0.0 | |
| **5812** | 10.781 | 6.284 | 0.0 | |
| **5813** | 10.781 | 6.535 | 0.0 | |
| **5814** | 10.781 | 6.786 | 0.0 | |
| **5815** | 10.781 | 7.038 | 0.0 | |
| **5816** | 10.781 | 7.289 | 0.0 | |
| **5817** | 10.781 | 7.541 | 0.0 | |
| **5818** | 10.781 | 7.792 | 0.0 | |
| **5819** | 10.781 | 8.043 | 0.0 | |
| **5820** | 10.781 | 8.295 | 0.0 | |
| **5821** | 10.781 | 8.546 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **5822** | 10.781 | 8.797 | 0.0 | |
| **5823** | 10.781 | 9.049 | 0.0 | |
| **5824** | 10.781 | 9.300 | 0.0 | |
| **5825** | 11.250 | 0.0 | 0.0 | |
| **5826** | 11.250 | 0.251 | 0.0 | |
| **5827** | 11.250 | 0.503 | 0.0 | |
| **5828** | 11.250 | 0.754 | 0.0 | |
| **5830** | 11.250 | 1.257 | 0.0 | |
| **5831** | 11.250 | 1.508 | 0.0 | |
| **5832** | 11.250 | 1.759 | 0.0 | |
| **5833** | 11.250 | 2.011 | 0.0 | |
| **5834** | 11.250 | 2.262 | 0.0 | |
| **5835** | 11.250 | 2.514 | 0.0 | |
| **5836** | 11.250 | 2.765 | 0.0 | |
| **5837** | 11.250 | 3.016 | 0.0 | |
| **5838** | 11.250 | 3.268 | 0.0 | |
| **5839** | 11.250 | 3.519 | 0.0 | |
| **5840** | 11.250 | 3.770 | 0.0 | |
| **5841** | 11.250 | 4.022 | 0.0 | |
| **5842** | 11.250 | 4.273 | 0.0 | |
| **5843** | 11.250 | 4.524 | 0.0 | |
| **5844** | 11.250 | 4.776 | 0.0 | |
| **5845** | 11.250 | 5.027 | 0.0 | |
| **5846** | 11.250 | 5.278 | 0.0 | |
| **5847** | 11.250 | 5.530 | 0.0 | |
| **5848** | 11.250 | 5.781 | 0.0 | |
| **5849** | 11.250 | 6.032 | 0.0 | |
| **5850** | 11.250 | 6.284 | 0.0 | |
| **5851** | 11.250 | 6.535 | 0.0 | |
| **5853** | 11.250 | 7.038 | 0.0 | |
| **5855** | 11.250 | 7.541 | 0.0 | |
| **5856** | 11.250 | 7.792 | 0.0 | |
| **5857** | 11.250 | 8.043 | 0.0 | |
| **5859** | 11.250 | 8.546 | 0.0 | |
| **5860** | 11.250 | 8.797 | 0.0 | |
| **5861** | 11.250 | 9.049 | 0.0 | |
| **5862** | 11.250 | 9.300 | 0.0 | |
| **5863** | 11.719 | 0.0 | 0.0 | |
| **5864** | 11.719 | 0.251 | 0.0 | |
| **5865** | 11.719 | 0.503 | 0.0 | |
| **5866** | 11.719 | 0.754 | 0.0 | |
| **5867** | 11.719 | 1.005 | 0.0 | |
| **5868** | 11.250 | 1.005 | 0.0 | Ap_borde |
| **5869** | 11.719 | 1.257 | 0.0 | |
| **5870** | 11.719 | 1.508 | 0.0 | |
| **5871** | 11.719 | 1.759 | 0.0 | |
| **5872** | 11.719 | 2.011 | 0.0 | |
| **5873** | 11.719 | 2.262 | 0.0 | |
| **5874** | 11.719 | 2.514 | 0.0 | |
| **5875** | 11.719 | 2.765 | 0.0 | |
| **5876** | 11.719 | 3.016 | 0.0 | |
| **5877** | 11.719 | 3.268 | 0.0 | |
| **5878** | 11.719 | 3.519 | 0.0 | |
| **5879** | 11.719 | 3.770 | 0.0 | |
| **5880** | 11.719 | 4.022 | 0.0 | |
| **5881** | 11.719 | 4.273 | 0.0 | |
| **5882** | 11.719 | 4.524 | 0.0 | |
| **5883** | 11.719 | 4.776 | 0.0 | |
| **5884** | 11.719 | 5.027 | 0.0 | |
| **5885** | 11.719 | 5.278 | 0.0 | |
| **5886** | 11.719 | 5.530 | 0.0 | |
| **5887** | 11.719 | 5.781 | 0.0 | |
| **5888** | 11.719 | 6.032 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **5889** | 11.719 | 6.284 | 0.0 | |
| **5890** | 11.719 | 6.535 | 0.0 | |
| **5891** | 11.719 | 6.786 | 0.0 | |
| **5892** | 11.250 | 6.786 | 0.0 | Ap_borde |
| **5893** | 11.719 | 7.038 | 0.0 | |
| **5894** | 11.719 | 7.289 | 0.0 | |
| **5895** | 11.250 | 7.289 | 0.0 | Ap_borde |
| **5896** | 11.719 | 7.541 | 0.0 | |
| **5897** | 11.719 | 7.792 | 0.0 | |
| **5898** | 11.719 | 8.043 | 0.0 | |
| **5899** | 11.719 | 8.295 | 0.0 | |
| **5900** | 11.250 | 8.295 | 0.0 | Ap_borde |
| **5901** | 11.719 | 8.546 | 0.0 | |
| **5902** | 11.719 | 8.797 | 0.0 | |
| **5903** | 11.719 | 9.049 | 0.0 | |
| **5904** | 11.719 | 9.300 | 0.0 | |
| **5905** | 12.188 | 0.0 | 0.0 | |
| **5906** | 12.188 | 0.251 | 0.0 | |
| **5907** | 12.188 | 0.503 | 0.0 | |
| **5908** | 12.188 | 0.754 | 0.0 | |
| **5909** | 12.188 | 1.005 | 0.0 | |
| **5910** | 12.188 | 1.257 | 0.0 | |
| **5911** | 12.188 | 1.508 | 0.0 | |
| **5912** | 12.188 | 1.759 | 0.0 | |
| **5913** | 12.188 | 2.011 | 0.0 | |
| **5914** | 12.188 | 2.262 | 0.0 | |
| **5915** | 12.188 | 2.514 | 0.0 | |
| **5916** | 12.188 | 2.765 | 0.0 | |
| **5917** | 12.188 | 3.016 | 0.0 | |
| **5918** | 12.188 | 3.268 | 0.0 | |
| **5919** | 12.188 | 3.519 | 0.0 | |
| **5920** | 12.188 | 3.770 | 0.0 | |
| **5921** | 12.188 | 4.022 | 0.0 | |
| **5922** | 12.188 | 4.273 | 0.0 | |
| **5923** | 12.188 | 4.524 | 0.0 | |
| **5924** | 12.188 | 4.776 | 0.0 | |
| **5925** | 12.188 | 5.027 | 0.0 | |
| **5926** | 12.188 | 5.278 | 0.0 | |
| **5927** | 12.188 | 5.530 | 0.0 | |
| **5928** | 12.188 | 5.781 | 0.0 | |
| **5929** | 12.188 | 6.032 | 0.0 | |
| **5930** | 12.188 | 6.284 | 0.0 | |
| **5931** | 12.188 | 6.535 | 0.0 | |
| **5932** | 12.188 | 6.786 | 0.0 | |
| **5933** | 12.188 | 7.038 | 0.0 | |
| **5934** | 12.188 | 7.289 | 0.0 | |
| **5935** | 12.188 | 7.541 | 0.0 | |
| **5936** | 12.188 | 7.792 | 0.0 | |
| **5937** | 12.188 | 8.043 | 0.0 | |
| **5938** | 12.188 | 8.295 | 0.0 | |
| **5939** | 12.188 | 8.546 | 0.0 | |
| **5940** | 12.188 | 8.797 | 0.0 | |
| **5941** | 12.188 | 9.049 | 0.0 | |
| **5942** | 12.188 | 9.300 | 0.0 | |
| **5943** | 12.656 | 0.0 | 0.0 | |
| **5944** | 12.656 | 0.251 | 0.0 | |
| **5945** | 12.656 | 0.503 | 0.0 | |
| **5946** | 12.656 | 0.754 | 0.0 | |
| **5947** | 12.656 | 1.005 | 0.0 | |
| **5948** | 12.656 | 1.257 | 0.0 | |
| **5949** | 12.656 | 1.508 | 0.0 | |
| **5950** | 12.656 | 1.759 | 0.0 | |
| **5951** | 12.656 | 2.011 | 0.0 | |

| | | | | |
|---|---|---|---|---|
| **5952** | 12.656 | 2.262 | 0.0 | |
| **5953** | 12.656 | 2.514 | 0.0 | |
| **5954** | 12.656 | 2.765 | 0.0 | |
| **5955** | 12.656 | 3.016 | 0.0 | |
| **5956** | 12.656 | 3.268 | 0.0 | |
| **5957** | 12.656 | 3.519 | 0.0 | |
| **5958** | 12.656 | 3.770 | 0.0 | |
| **5959** | 12.656 | 4.022 | 0.0 | |
| **5960** | 12.656 | 4.273 | 0.0 | |
| **5961** | 12.656 | 4.524 | 0.0 | |
| **5962** | 12.656 | 4.776 | 0.0 | |
| **5963** | 12.656 | 5.027 | 0.0 | |
| **5964** | 12.656 | 5.278 | 0.0 | |
| **5965** | 12.656 | 5.530 | 0.0 | |
| **5966** | 12.656 | 5.781 | 0.0 | |
| **5967** | 12.656 | 6.032 | 0.0 | |
| **5968** | 12.656 | 6.284 | 0.0 | |
| **5969** | 12.656 | 6.535 | 0.0 | |
| **5970** | 12.656 | 6.786 | 0.0 | |
| **5971** | 12.656 | 7.038 | 0.0 | |
| **5972** | 12.656 | 7.289 | 0.0 | |
| **5973** | 12.656 | 7.541 | 0.0 | |
| **5974** | 12.656 | 7.792 | 0.0 | |
| **5975** | 12.656 | 8.043 | 0.0 | |
| **5976** | 12.656 | 8.295 | 0.0 | |
| **5977** | 12.656 | 8.546 | 0.0 | |
| **5978** | 12.656 | 8.797 | 0.0 | |
| **5979** | 12.656 | 9.049 | 0.0 | |
| **5980** | 12.656 | 9.300 | 0.0 | |
| **5986** | 13.125 | 1.257 | 0.0 | |
| **5987** | 13.125 | 1.508 | 0.0 | |
| **5988** | 13.125 | 1.759 | 0.0 | |
| **5992** | 13.125 | 2.765 | 0.0 | |
| **5993** | 13.125 | 3.016 | 0.0 | |
| **5994** | 13.125 | 3.268 | 0.0 | |
| **5999** | 13.125 | 4.524 | 0.0 | |
| **6000** | 13.125 | 4.776 | 0.0 | |
| **6005** | 13.125 | 6.032 | 0.0 | |
| **6006** | 13.125 | 6.284 | 0.0 | |
| **6007** | 13.125 | 6.535 | 0.0 | |
| **6011** | 13.125 | 7.541 | 0.0 | |
| **6012** | 13.125 | 7.792 | 0.0 | |
| **6013** | 13.125 | 8.043 | 0.0 | |
| **6024** | 13.125 | 1.005 | 0.0 | Ap_borde |
| **6048** | 13.125 | 6.786 | 0.0 | Ap_borde |
| **6051** | 13.125 | 7.289 | 0.0 | Ap_borde |
| **6056** | 13.125 | 8.295 | 0.0 | Ap_borde |

**Definición de Barras en Pilotes**

| Filtrar | Barra | Elemento |
|---|---|---|
| Lista compl | 1 3A123 140A145 149A153 | 223A262 4 |
| Selección | 4A123 | 223A262 4 |
| | | |
| Número tot | 120 | 120 |
| Número sel | 120 | 120 |

| Barra | Nudos | Nudo 2 | Sección | Longitud (m) | Material |
|---|---|---|---|---|---|
| 4 | 4713 | 4714 | PIL 35x35 | 15.000 | HORMIGON |
| 5 | 4714 | 4715 | PIL 35x35 | 9.500 | HORMIGON |
| 6 | 4715 | 4716 | PIL 35x35 | 3.250 | HORMIGON |
| 7 | 4717 | 4718 | PIL 35x35 | 15.000 | HORMIGON |
| 8 | 4718 | 4719 | PIL 35x35 | 9.500 | HORMIGON |
| 9 | 4719 | 4720 | PIL 35x35 | 3.250 | HORMIGON |
| 10 | 4721 | 4722 | PIL 35x35 | 15.000 | HORMIGON |
| 11 | 4722 | 4723 | PIL 35x35 | 9.500 | HORMIGON |
| 12 | 4723 | 4724 | PIL 35x35 | 3.250 | HORMIGON |
| 13 | 4725 | 4726 | PIL 35x35 | 15.000 | HORMIGON |
| 14 | 4726 | 4727 | PIL 35x35 | 9.500 | HORMIGON |
| 15 | 4727 | 4728 | PIL 35x35 | 3.250 | HORMIGON |
| 16 | 4729 | 4730 | PIL 35x35 | 15.000 | HORMIGON |
| 17 | 4730 | 4731 | PIL 35x35 | 9.500 | HORMIGON |
| 18 | 4731 | 4732 | PIL 35x35 | 3.250 | HORMIGON |
| 19 | 4733 | 4734 | PIL 35x35 | 15.000 | HORMIGON |
| 20 | 4734 | 4735 | PIL 35x35 | 9.500 | HORMIGON |
| 21 | 4735 | 4736 | PIL 35x35 | 3.250 | HORMIGON |
| 22 | 4737 | 4738 | PIL 35x35 | 15.000 | HORMIGON |
| 23 | 4738 | 4739 | PIL 35x35 | 9.500 | HORMIGON |
| 24 | 4739 | 4740 | PIL 35x35 | 3.250 | HORMIGON |
| 25 | 4741 | 4742 | PIL 35x35 | 15.000 | HORMIGON |
| 26 | 4742 | 4743 | PIL 35x35 | 9.500 | HORMIGON |
| 27 | 4743 | 4744 | PIL 35x35 | 3.250 | HORMIGON |
| 28 | 4745 | 4746 | PIL 35x35 | 15.000 | HORMIGON |
| 29 | 4746 | 4747 | PIL 35x35 | 9.500 | HORMIGON |
| 30 | 4747 | 4748 | PIL 35x35 | 3.250 | HORMIGON |
| 31 | 4749 | 4750 | PIL 35x35 | 15.000 | HORMIGON |
| 32 | 4750 | 4751 | PIL 35x35 | 9.500 | HORMIGON |
| 33 | 4751 | 4752 | PIL 35x35 | 3.250 | HORMIGON |
| 34 | 4753 | 4754 | PIL 35x35 | 15.000 | HORMIGON |
| 35 | 4754 | 4755 | PIL 35x35 | 9.500 | HORMIGON |
| 36 | 4755 | 4756 | PIL 35x35 | 3.250 | HORMIGON |
| 37 | 4757 | 4758 | PIL 35x35 | 15.000 | HORMIGON |
| 38 | 4758 | 4759 | PIL 35x35 | 9.500 | HORMIGON |
| 39 | 4759 | 4760 | PIL 35x35 | 3.250 | HORMIGON |
| 40 | 4761 | 4762 | PIL 35x35 | 15.000 | HORMIGON |
| 41 | 4762 | 4763 | PIL 35x35 | 9.500 | HORMIGON |
| 42 | 4763 | 4764 | PIL 35x35 | 3.250 | HORMIGON |
| 43 | 4765 | 4766 | PIL 35x35 | 15.000 | HORMIGON |
| 44 | 4766 | 4767 | PIL 35x35 | 9.500 | HORMIGON |
| 45 | 4767 | 4768 | PIL 35x35 | 3.250 | HORMIGON |





| Barra | Nudos | Nudo 2 | Sección | Longitud (m) | Material |
|---|---|---|---|---|---|
| 46 | 4769 | 4770 | PIL 35x35 | 15.000 | HORMIGON |
| 47 | 4770 | 4771 | PIL 35x35 | 9.500 | HORMIGON |
| 48 | 4771 | 4772 | PIL 35x35 | 3.250 | HORMIGON |
| 49 | 4773 | 4774 | PIL 35x35 | 15.000 | HORMIGON |
| 50 | 4774 | 4775 | PIL 35x35 | 9.500 | HORMIGON |
| 51 | 4775 | 4776 | PIL 35x35 | 3.250 | HORMIGON |
| 52 | 4777 | 4778 | PIL 35x35 | 15.000 | HORMIGON |
| 53 | 4778 | 4779 | PIL 35x35 | 9.500 | HORMIGON |
| 54 | 4779 | 4780 | PIL 35x35 | 3.250 | HORMIGON |
| 55 | 4781 | 4782 | PIL 35x35 | 15.000 | HORMIGON |
| 56 | 4782 | 4783 | PIL 35x35 | 9.500 | HORMIGON |
| 57 | 4783 | 4784 | PIL 35x35 | 3.250 | HORMIGON |
| 58 | 4785 | 4786 | PIL 35x35 | 15.000 | HORMIGON |
| 59 | 4786 | 4787 | PIL 35x35 | 9.500 | HORMIGON |
| 60 | 4787 | 4788 | PIL 35x35 | 3.250 | HORMIGON |
| 61 | 4789 | 4790 | PIL 35x35 | 15.000 | HORMIGON |
| 62 | 4790 | 4791 | PIL 35x35 | 9.500 | HORMIGON |
| 63 | 4791 | 4792 | PIL 35x35 | 3.250 | HORMIGON |
| 64 | 4793 | 4794 | PIL 35x35 | 15.000 | HORMIGON |
| 65 | 4794 | 4795 | PIL 35x35 | 9.500 | HORMIGON |
| 66 | 4795 | 4796 | PIL 35x35 | 3.250 | HORMIGON |
| 67 | 4797 | 4798 | PIL 35x35 | 15.000 | HORMIGON |
| 68 | 4798 | 4799 | PIL 35x35 | 9.500 | HORMIGON |
| 69 | 4799 | 4800 | PIL 35x35 | 3.250 | HORMIGON |
| 70 | 4801 | 4802 | PIL 35x35 | 15.000 | HORMIGON |
| 71 | 4802 | 4803 | PIL 35x35 | 9.500 | HORMIGON |
| 72 | 4803 | 4804 | PIL 35x35 | 3.250 | HORMIGON |
| 73 | 4805 | 4806 | PIL 35x35 | 15.000 | HORMIGON |
| 74 | 4806 | 4807 | PIL 35x35 | 9.500 | HORMIGON |
| 75 | 4807 | 4808 | PIL 35x35 | 3.250 | HORMIGON |
| 76 | 4809 | 4810 | PIL 35x35 | 15.000 | HORMIGON |
| 77 | 4810 | 4811 | PIL 35x35 | 9.500 | HORMIGON |
| 78 | 4811 | 4812 | PIL 35x35 | 3.250 | HORMIGON |
| 79 | 4813 | 4814 | PIL 35x35 | 15.000 | HORMIGON |
| 80 | 4814 | 4815 | PIL 35x35 | 9.500 | HORMIGON |
| 81 | 4815 | 4816 | PIL 35x35 | 3.250 | HORMIGON |
| 82 | 4817 | 4818 | PIL 35x35 | 15.000 | HORMIGON |
| 83 | 4818 | 4819 | PIL 35x35 | 9.500 | HORMIGON |
| 84 | 4819 | 4820 | PIL 35x35 | 3.250 | HORMIGON |
| 85 | 4821 | 4822 | PIL 35x35 | 15.000 | HORMIGON |
| 86 | 4822 | 4823 | PIL 35x35 | 9.500 | HORMIGON |
| 87 | 4823 | 4824 | PIL 35x35 | 3.250 | HORMIGON |
| 88 | 4825 | 4826 | PIL 35x35 | 15.000 | HORMIGON |
| 89 | 4826 | 4827 | PIL 35x35 | 9.500 | HORMIGON |
| 90 | 4827 | 4828 | PIL 35x35 | 3.250 | HORMIGON |
| 91 | 4829 | 4830 | PIL 35x35 | 15.000 | HORMIGON |
| 92 | 4830 | 4831 | PIL 35x35 | 9.500 | HORMIGON |
| 93 | 4831 | 4832 | PIL 35x35 | 3.250 | HORMIGON |
| 94 | 4833 | 4834 | PIL 35x35 | 15.000 | HORMIGON |
| 95 | 4834 | 4835 | PIL 35x35 | 9.500 | HORMIGON |
| 96 | 4835 | 4836 | PIL 35x35 | 3.250 | HORMIGON |
| 97 | 4837 | 4838 | PIL 35x35 | 15.000 | HORMIGON |
| 98 | 4838 | 4839 | PIL 35x35 | 9.500 | HORMIGON |

| Barra | Nudos | Nudo 2 | Sección | Longitud (m) | Material |
|---|---|---|---|---|---|
| **99** | 4839 | 4840 | PIL 35x35 | 3.250 | HORMIGON |
| **100** | 4841 | 4842 | PIL 35x35 | 15.000 | HORMIGON |
| **101** | 4842 | 4843 | PIL 35x35 | 9.500 | HORMIGON |
| **102** | 4843 | 4844 | PIL 35x35 | 3.250 | HORMIGON |
| **103** | 4845 | 4846 | PIL 35x35 | 15.000 | HORMIGON |
| **104** | 4846 | 4847 | PIL 35x35 | 9.500 | HORMIGON |
| **105** | 4847 | 4848 | PIL 35x35 | 3.250 | HORMIGON |
| **106** | 4849 | 4850 | PIL 35x35 | 15.000 | HORMIGON |
| **107** | 4850 | 4851 | PIL 35x35 | 9.500 | HORMIGON |
| **108** | 4851 | 4852 | PIL 35x35 | 3.250 | HORMIGON |
| **109** | 4853 | 4854 | PIL 35x35 | 15.000 | HORMIGON |
| **110** | 4854 | 4855 | PIL 35x35 | 9.500 | HORMIGON |
| **111** | 4855 | 4856 | PIL 35x35 | 3.250 | HORMIGON |
| **112** | 4857 | 4858 | PIL 35x35 | 15.000 | HORMIGON |
| **113** | 4858 | 4859 | PIL 35x35 | 9.500 | HORMIGON |
| **114** | 4859 | 4860 | PIL 35x35 | 3.250 | HORMIGON |
| **115** | 4861 | 4862 | PIL 35x35 | 15.000 | HORMIGON |
| **116** | 4862 | 4863 | PIL 35x35 | 9.500 | HORMIGON |
| **117** | 4863 | 4864 | PIL 35x35 | 3.250 | HORMIGON |
| **118** | 4865 | 4866 | PIL 35x35 | 15.000 | HORMIGON |
| **119** | 4866 | 4867 | PIL 35x35 | 9.500 | HORMIGON |
| **120** | 4867 | 4868 | PIL 35x35 | 3.250 | HORMIGON |
| **121** | 4869 | 4870 | PIL 35x35 | 15.000 | HORMIGON |
| **122** | 4870 | 4871 | PIL 35x35 | 9.500 | HORMIGON |
| **123** | 4871 | 4872 | PIL 35x35 | 3.250 | HORMIGON |



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Proyecto : Losa Pilotada M10 V4

**Relajaciones y suelo elástico en barras-pilotes**

| Filtrar | Barra | Elemento |
|---|---|---|
| Lista compl | 1 3A123 140A145 149A153 | 223A262 4 |
| Selección | 4A123 | 223A262 4 |
| | | |
| Número tot | 120 | 120 |
| Número sel | 120 | 120 |

| Barra | Nudos | Nudo 2 | Relajaciones | Relajación - código | Suelo elástico | KY (T/m2) | KZ (T/m2) | HX (Tm/Degm) |
|---|---|---|---|---|---|---|---|---|
| **4** | 4713 | 4714 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **5** | 4714 | 4715 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **6** | 4715 | 4716 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **7** | 4717 | 4718 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **8** | 4718 | 4719 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **9** | 4719 | 4720 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **10** | 4721 | 4722 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **11** | 4722 | 4723 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **12** | 4723 | 4724 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **13** | 4725 | 4726 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **14** | 4726 | 4727 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **15** | 4727 | 4728 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **16** | 4729 | 4730 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **17** | 4730 | 4731 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **18** | 4731 | 4732 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **19** | 4733 | 4734 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **20** | 4734 | 4735 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **21** | 4735 | 4736 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **22** | 4737 | 4738 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **23** | 4738 | 4739 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **24** | 4739 | 4740 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **25** | 4741 | 4742 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **26** | 4742 | 4743 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **27** | 4743 | 4744 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **28** | 4745 | 4746 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **29** | 4746 | 4747 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **30** | 4747 | 4748 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **31** | 4749 | 4750 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **32** | 4750 | 4751 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **33** | 4751 | 4752 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **34** | 4753 | 4754 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **35** | 4754 | 4755 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **36** | 4755 | 4756 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **37** | 4757 | 4758 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **38** | 4758 | 4759 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **39** | 4759 | 4760 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **40** | 4761 | 4762 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **41** | 4762 | 4763 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| **42** | 4763 | 4764 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| **43** | 4765 | 4766 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| **44** | 4766 | 4767 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |

| Barra | Nudos | Nudo 2 | Relajaciones | Relajación - código | Suelo elástico | KY (T/m2) | KZ (T/m2) | HX (Tm/Degm) |
|---|---|---|---|---|---|---|---|---|
| 45 | 4767 | 4768 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 46 | 4769 | 4770 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 47 | 4770 | 4771 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 48 | 4771 | 4772 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 49 | 4773 | 4774 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 50 | 4774 | 4775 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 51 | 4775 | 4776 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 52 | 4777 | 4778 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 53 | 4778 | 4779 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 54 | 4779 | 4780 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 55 | 4781 | 4782 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 56 | 4782 | 4783 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 57 | 4783 | 4784 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 58 | 4785 | 4786 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 59 | 4786 | 4787 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 60 | 4787 | 4788 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 61 | 4789 | 4790 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 62 | 4790 | 4791 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 63 | 4791 | 4792 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 64 | 4793 | 4794 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 65 | 4794 | 4795 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 66 | 4795 | 4796 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 67 | 4797 | 4798 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 68 | 4798 | 4799 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 69 | 4799 | 4800 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 70 | 4801 | 4802 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 71 | 4802 | 4803 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 72 | 4803 | 4804 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 73 | 4805 | 4806 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 74 | 4806 | 4807 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 75 | 4807 | 4808 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 76 | 4809 | 4810 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 77 | 4810 | 4811 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 78 | 4811 | 4812 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 79 | 4813 | 4814 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 80 | 4814 | 4815 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 81 | 4815 | 4816 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 82 | 4817 | 4818 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 83 | 4818 | 4819 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 84 | 4819 | 4820 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 85 | 4821 | 4822 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 86 | 4822 | 4823 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 87 | 4823 | 4824 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 88 | 4825 | 4826 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 89 | 4826 | 4827 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 90 | 4827 | 4828 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 91 | 4829 | 4830 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 92 | 4830 | 4831 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 93 | 4831 | 4832 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 94 | 4833 | 4834 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 95 | 4834 | 4835 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 96 | 4835 | 4836 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |



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| Barra | Nudos | Nudo 2 | Relajaciones | Relajación - código | Suelo elástico | KY (T/m2) | KZ (T/m2) | HX (Tm/Degm) |
|---|---|---|---|---|---|---|---|---|
| 97 | 4837 | 4838 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 98 | 4838 | 4839 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 99 | 4839 | 4840 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 100 | 4841 | 4842 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 101 | 4842 | 4843 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 102 | 4843 | 4844 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 103 | 4845 | 4846 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 104 | 4846 | 4847 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 105 | 4847 | 4848 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 106 | 4849 | 4850 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 107 | 4850 | 4851 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 108 | 4851 | 4852 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 109 | 4853 | 4854 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 110 | 4854 | 4855 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 111 | 4855 | 4856 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 112 | 4857 | 4858 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 113 | 4858 | 4859 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 114 | 4859 | 4860 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 115 | 4861 | 4862 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 116 | 4862 | 4863 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 117 | 4863 | 4864 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 118 | 4865 | 4866 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 119 | 4866 | 4867 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 120 | 4867 | 4868 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |
| 121 | 4869 | 4870 | Articulacion | ffffll ffffff | Basuras | 650.000 | 650.000 | 0.0 |
| 122 | 4870 | 4871 | No existe | | Arcillas | 3450.000 | 3450.000 | 0.0 |
| 123 | 4871 | 4872 | No existe | | Arenas | 13700.000 | 13700.000 | 0.0 |

**Características de Barras**

| | Nombre de la sección | Lista de barras | SX (cm2) | SY (cm2) | SZ (cm2) | IX (cm4) | IY (cm4) | IZ (cm4) |
|---|---|---|---|---|---|---|---|---|
| | PIL 35x35 | 4A123 | 1225.000 | 1020.833 | 1020.833 | 210962.496 | 125052.083 | 125052.083 |



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**Características de Paneles**

| | Nombre de espesor | Lista de paneles | Material | Tipo de espesor | Espesor (cm) |
|---|---|---|---|---|---|
| | Losa | 1 140A145 151 152 | HA - 30 | constante | 50.000 |
| | Losa60 | 149 150 153 | HA - 30 | constante | 60.000 |

**Uniones rígidas**

| | Nombre de la unión | Nudo principal | Lista de los nudos secundarios | Condiciones de la unión |
|---|---|---|---|---|
| | Membrana | 4713 | 279 | UX UY UZ RX RY RZ |
| | Membrana | 4717 | 273 | UX UY UZ RX RY RZ |
| | Membrana | 4721 | 266 267 | UX UY UZ RX RY RZ |
| | Membrana | 4725 | 260 | UX UY UZ RX RY RZ |
| | Membrana | 4729 | 254 | UX UY UZ RX RY RZ |
| | Membrana | 4733 | 5363 | UX UY UZ RX RY RZ |
| | Membrana | 4737 | 5369 | UX UY UZ RX RY RZ |
| | Membrana | 4741 | 5375 5376 | UX UY UZ RX RY RZ |
| | Membrana | 4745 | 5382 | UX UY UZ RX RY RZ |
| | Membrana | 4749 | 5388 | UX UY UZ RX RY RZ |
| | Membrana | 4769 | 5700 | UX UY UZ RX RY RZ |
| | Membrana | 4765 | 5694 | UX UY UZ RX RY RZ |
| | Membrana | 4761 | 5687 5688 | UX UY UZ RX RY RZ |
| | Membrana | 4757 | 5681 | UX UY UZ RX RY RZ |
| | Membrana | 4753 | 5675 | UX UY UZ RX RY RZ |
| | Membrana | 4773 | 5987 | UX UY UZ RX RY RZ |
| | Membrana | 4777 | 5993 | UX UY UZ RX RY RZ |
| | Membrana | 4781 | 5999 6000 | UX UY UZ RX RY RZ |
| | Membrana | 4785 | 6006 | UX UY UZ RX RY RZ |
| | Membrana | 4789 | 6012 | UX UY UZ RX RY RZ |
| | Membrana | 4793 | 238 | UX UY UZ RX RY RZ |
| | Membrana | 4797 | 244 | UX UY UZ RX RY RZ |
| | Membrana | 4801 | 250 251 | UX UY UZ RX RY RZ |
| | Membrana | 4805 | 263 | UX UY UZ RX RY RZ |
| | Membrana | 4809 | 413 | UX UY UZ RX RY RZ |
| | Membrana | 4829 | 227 | UX UY UZ RX RY RZ |
| | Membrana | 4825 | 221 | UX UY UZ RX RY RZ |
| | Membrana | 4821 | 214 215 | UX UY UZ RX RY RZ |
| | Membrana | 4817 | 207 | UX UY UZ RX RY RZ |
| | Membrana | 4813 | 50 | UX UY UZ RX RY RZ |
| | Membrana | 4833 | 683 | UX UY UZ RX RY RZ |
| | Membrana | 4837 | 677 | UX UY UZ RX RY RZ |
| | Membrana | 4841 | 670 671 | UX UY UZ RX RY RZ |
| | Membrana | 4845 | 664 | UX UY UZ RX RY RZ |
| | Membrana | 4849 | 658 | UX UY UZ RX RY RZ |
| | Membrana | 4869 | 139 | UX UY UZ RX RY RZ |
| | Membrana | 4865 | 133 | UX UY UZ RX RY RZ |
| | Membrana | 4861 | 126 127 | UX UY UZ RX RY RZ |
| | Membrana | 4857 | 120 | UX UY UZ RX RY RZ |
| | Membrana | 4853 | 114 | UX UY UZ RX RY RZ |



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Proyecto : Losa Pilotada M10 V4

**Definición Apoyos**

| | Nombre del apoyo | Lista de nudos | Condiciones de apoyo |
|---|---|---|---|
| | Ap_pilote | 4716A4872CA4 | KZ=8000.000 (T/m) |
| | Ap_borde | 5 12 232 265 268A271 275 301A329 5088A6024CA156 5112A6048CA156 5115A6051CA156 5120A6056CA156 | KZ=375.000 (T/m) |
| | Ap_borde_M11 | 4083A4118 | KZ=525.000 (T/m) |
| | Ap_esquina_M11 | 4029 4032 | KZ=263.000 (T/m) |

Fecha : 04/05/05
Página : **2**

**Casos Simples de Cargas. Valores**

| Caso | Nombre del caso | Naturaleza | tipo de análisis |
|---|---|---|---|
| 1 | PESO PROPIO | permanente | Estático lineal |
| 2 | CARGA PERMANENTE | permanente | Estático lineal |
| 3 | RETRACCIÓN | permanente | Estático lineal |
| 4 | DILATACIÓN+GRADIENTE | temperatura | Estático lineal |
| 5 | CONTRACCIÓN+GRADIENTE | temperatura | Estático lineal |
| 6 | VIENTRO TRANSVERSAL CONCOMITANTE | viento | Estático lineal |
| 7 | IPF-B CENTRADO | Live1 | Estático lineal |
| 8 | IPF-B EXCÉNTRICO | Live1 | Estático lineal |
| 9 | IPF-A CENTRADO POSICIÓN 1 | Live1 | Estático lineal |
| 10 | IPF-A CENTRADO POSICIÓN 2 | Live1 | Estático lineal |
| 11 | IPF-A EXCÉNTRICO POSICIÓN 1 | Live1 | Estático lineal |
| 12 | IPF-A EXCÉNTRICO POSICIÓN 2 | Live1 | Estático lineal |
| 13 | FRENADO Y ARRANQUE | Live1 | Estático lineal |
| 14 | CARGA UNITARIA BORDE | Live1 | Estático lineal |

| | Caso | Nombre del caso | Tipo de carga | Lista | Valores de carga |
|---|---|---|---|---|---|
| | 1 | PESO PROPIO | peso propio | 1 3A123 140A145 149A153 | PZ Menos Coef=1.00 |
| | 2 | CARGA PERMANENTE | (EF) uniforme | 1 3 140A145 149A153 | PZ=-1.500(T/m2) |





| | Caso | Nombre del caso | Tipo de carga | Lista | Valores de carga |
|---|---|---|---|---|---|
| | 3 | RETRACCIÓN | (EF) térmica 3p | 1 3 140A145 149A153 | TX1=-20.00(°C) N1X=0.0(m) N1Y=0.0(m) N1Z=0.0(m) |
| | 4 | DILATACIÓN+GRADIENTE | (EF) térmica 3p | 1 3 140A145 149A153 | TX1=22.10(°C) TZ1=8.00(°C) N1X=0.0(m) N1Y=0.0(m) N1Z=0.0(m) |
| | 5 | CONTRACCIÓN+GRADIENTE | (EF) térmica 3p | 1 3 140A145 149A153 | TX1=-22.10(°C) TZ1=8.00(°C) N1X=0.0(m) N1Y=0.0(m) N1Z=0.0(m) |
| | 6 | VIENTRO TRANSVERSAL CONCOMITANTE | (EF) lineal 2p (3D) | 1 3 140A145 149A153 | FY1=0.600(T/m) MX1=-1.880(Tm/m) FY2=0.600(T/m) MX2=-1.880(Tm/m) N1X=0.0(m) N1Y=2.514(m) N1Z=0.0(m) N2X=30.000(m) N2Y=2.514(m) N2Z=0.0(m) |
| | 6 | VIENTRO TRANSVERSAL CONCOMITANTE | (EF) lineal 2p (3D) | 1 3 140A145 149A153 | FY1=0.600(T/m) MX1=-1.880(Tm/m) FY2=0.600(T/m) MX2=-1.880(Tm/m) N1X=0.0(m) N1Y=7.289(m) N1Z=0.0(m) N2X=30.000(m) N2Y=7.289(m) N2Z=0.0(m) |
| | 7 | IPF-B CENTRADO | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PZ1=-6.130(T/m2) P1(0, 0.925, 0) P2(27.9, 0.925, 0) P3(27.9, 4.17, 0) P4(0, 4.17, 0) |
| | 7 | IPF-B CENTRADO | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PZ1=-6.130(T/m2) P1(0, 5.13, 0) P2(27.9, 5.13, 0) P3(27.9, 8.38, 0) P4(0, 8.38, 0) |
| | 8 | IPF-B EXCÉNTRICO | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PZ1=-6.130(T/m2) P1(0, 0.625, 0) P2(27.9, 0.625, 0) P3(27.9, 3.88, 0) P4(0, 3.88, 0) |

| | Caso | Nombre del caso | Tipo de carga | Lista | Valores de carga |
|---|---|---|---|---|---|
| | 8 | IPF-B EXCÉNTRICO | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PZ1=-6.130(T/m2) P1(0, 4.83, 0) P2(27.9, 4.83, 0) P3(27.9, 8.07, 0) P4(0, 8.07, 0) |
| | 9 | IPF-A CENTRADO POSICIÓN 1 | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PZ1=-11.640(T/m2) P1(19.1, 5.13, 0) P2(23.1, 5.13, 0) P3(23.1, 8.38, 0) P4(19.1, 8.38, 0) |
| | 9 | IPF-A CENTRADO POSICIÓN 1 | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PZ1=-11.640(T/m2) P1(19.1, 0.925, 0) P2(23.1, 0.925, 0) P3(23.1, 4.17, 0) P4(19.1, 4.17, 0) |
| | 10 | IPF-A CENTRADO POSICIÓN 2 | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PZ1=-11.640(T/m2) P1(0, 0.925, 0) P2(3.95, 0.925, 0) P3(3.95, 4.17, 0) P4(0, 4.17, 0) |
| | 10 | IPF-A CENTRADO POSICIÓN 2 | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PZ1=-11.640(T/m2) P1(0, 5.13, 0) P2(3.95, 5.13, 0) P3(3.95, 8.38, 0) P4(0, 8.38, 0) |
| | 11 | IPF-A EXCÉNTRICO POSICIÓN 1 | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PZ1=-11.640(T/m2) P1(19.1, 0.625, 0) P2(23.1, 0.625, 0) P3(23.1, 3.88, 0) P4(19.1, 3.88, 0) |
| | 11 | IPF-A EXCÉNTRICO POSICIÓN 1 | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PZ1=-11.640(T/m2) P1(19.1, 4.83, 0) P2(23.1, 4.83, 0) P3(23.1, 8.07, 0) P4(19.1, 8.07, 0) |
| | 12 | IPF-A EXCÉNTRICO POSICIÓN 2 | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PZ1=-11.640(T/m2) P1(0, 0.625, 0) P2(3.95, 0.625, 0) P3(3.95, 3.88, 0) P4(0, 3.88, 0) |





| | Caso | Nombre del caso | Tipo de carga | Lista | Valores de carga |
|---|---|---|---|---|---|
| | 12 | IPF-A EXCÉNTRICO POSICIÓN 2 | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PZ1=-11.640(T/m2) P1(0, 4.83, 0) P2(3.95, 4.83, 0) P3(3.95, 8.07, 0) P4(0, 8.07, 0) |
| | 13 | FRENADO Y ARRANQUE | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PX1=0.615(T/m2) N1X=0.0(m) N1Y=0.0(m) N1Z=0.0(m) P1(0, 0.925, 0) P2(27.9, 0.925, 0) P3(27.9, 4.17, 0) P4(0, 4.17, 0) |
| | 13 | FRENADO Y ARRANQUE | (EF) superficial 3p (contornos) | 1 3 140A145 149A153 | PX1=1.015(T/m2) N1X=0.0(m) N1Y=0.0(m) N1Z=0.0(m) P1(0, 5.13, 0) P2(27.9, 5.13, 0) P3(27.9, 8.38, 0) P4(0, 8.38, 0) |
| | 14 | CARGA UNITARIA BORDE | (EF) lineal 2p (3D) | 1 3 140A145 | FZ1=-1.000(T/m) FZ2=-1.000(T/m) N1X=0.0(m) N1Y=0.0(m) N1Z=0.0(m) N2X=0.0(m) N2Y=9.300(m) N2Z=0.0(m) |
| | 14 | CARGA UNITARIA BORDE | (EF) lineal 2p (3D) | 1 3 140A145 149A151 | FZ1=-1.000(T/m) FZ2=-1.000(T/m) N1X=28.500(m) N1Y=0.0(m) N1Z=0.0(m) N2X=28.500(m) N2Y=9.300(m) N2Z=0.0(m) |

**Combinaciones de casos - Casos: 101A170 201A270 301A354**

**- Casos: 101A170 201A270 301A354**

| Filtrar | Combinación |
|---|---|
| Lista completa | 101A170 201A270 301A354 |
| Selección | 101A170 201A270 301A354 |
| | |
| Número total | 194 |
| Número seleccionado | 194 |

**- Casos: 101A170 201A270 301A354**

| Combinación | Nombre | Tipo de análisis | Naturaleza de combinación | Naturaleza de caso | Definición |
|---|---|---|---|---|---|
| 101 (C) | ELU01 | Combinación lineal | ELU | permanente | (1+2)*1.35 |
| 102 (C) | ELU02 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*1.50 |
| 103 (C) | ELU03 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*1.50 |
| 104 (C) | ELU04 | Combinación lineal | ELU | permanente | (1+2+3)*1.35 |
| 105 (C) | ELU05 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*1.50 |
| 106 (C) | ELU06 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*1.50 |
| 107 (C) | ELU11 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*1.50+7*1.20 |
| 108 (C) | ELU12 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*1.50+8*1.20 |
| 109 (C) | ELU13 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*1.50+7*1.20 |
| 110 (C) | ELU14 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*1.50+8*1.20 |
| 111 (C) | ELU15 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*0.90+7*1.50 |
| 112 (C) | ELU16 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*0.90+8*1.50 |
| 113 (C) | ELU17 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*0.90+7*1.50 |
| 114 (C) | ELU18 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*0.90+8*1.50 |
| 115 (C) | ELU19 | Combinación lineal | ELU | permanente | (1+2)*1.35+7*1.50 |
| 116 (C) | ELU20 | Combinación lineal | ELU | permanente | (1+2)*1.35+8*1.50 |
| 117 (C) | ELU21 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*1.50+(7+13)*1.20 |
| 118 (C) | ELU22 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*1.50+(8+13)*1.20 |
| 119 (C) | ELU23 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*1.50+(7+13)*1.20 |
| 120 (C) | ELU24 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*1.50+(8+13)*1.20 |
| 121 (C) | ELU25 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*0.90+(7+13)*1.50 |
| 122 (C) | ELU26 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*0.90+(8+13)*1.50 |
| 123 (C) | ELU27 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*0.90+(7+13)*1.50 |
| 124 (C) | ELU28 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*0.90+(8+13)*1.50 |
| 125 (C) | ELU29 | Combinación lineal | ELU | permanente | (1+2)*1.35+(7+13)*1.50 |
| 126 (C) | ELU30 | Combinación lineal | ELU | permanente | (1+2)*1.35+(8+13)*1.50 |
| 127 (C) | ELU31 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*1.50+7*1.20 |
| 128 (C) | ELU32 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*1.50+8*1.20 |
| 129 (C) | ELU33 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*1.50+7*1.20 |
| 130 (C) | ELU34 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*1.50+8*1.20 |
| 131 (C) | ELU35 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*0.90+7*1.50 |
| 132 (C) | ELU36 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*0.90+8*1.50 |
| 133 (C) | ELU37 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*0.90+7*1.50 |
| 134 (C) | ELU38 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*0.90+8*1.50 |
| 135 (C) | ELU39 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+7*1.50 |
| 136 (C) | ELU40 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+8*1.50 |
| 137 (C) | ELU41 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*1.50+(7+13)*1.20 |
| 138 (C) | ELU42 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*1.50+(8+13)*1.20 |



ROBOT v 17.0.1
Autor :
Dirección :

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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Combinación | Nombre | Tipo de análisis | Naturaleza de combinación | Naturaleza de caso | Definición |
|---|---|---|---|---|---|
| 139 (C) | ELU43 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*1.50+(7+13)*1.20 |
| 140 (C) | ELU44 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*1.50+(8+13)*1.20 |
| 141 (C) | ELU45 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*0.90+(7+13)*1.50 |
| 142 (C) | ELU46 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*0.90+(8+13)*1.50 |
| 143 (C) | ELU47 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*0.90+(7+13)*1.50 |
| 144 (C) | ELU48 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*0.90+(8+13)*1.50 |
| 145 (C) | ELU49 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+(7+13)*1.50 |
| 146 (C) | ELU50 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+(8+13)*1.50 |
| 147 (C) | ELU51 | Combinación lineal | ELU | permanente | (1+2)*1.35+9*1.50 |
| 148 (C) | ELU52 | Combinación lineal | ELU | permanente | (1+2)*1.35+10*1.50 |
| 149 (C) | ELU53 | Combinación lineal | ELU | permanente | (1+2)*1.35+11*1.50 |
| 150 (C) | ELU54 | Combinación lineal | ELU | permanente | (1+2)*1.35+12*1.50 |
| 151 (C) | ELU55 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*0.90+9*1.50 |
| 152 (C) | ELU56 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*0.90+9*1.50 |
| 153 (C) | ELU57 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*0.90+10*1.50 |
| 154 (C) | ELU58 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*0.90+10*1.50 |
| 155 (C) | ELU59 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*0.90+11*1.50 |
| 156 (C) | ELU510 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*0.90+11*1.50 |
| 157 (C) | ELU511 | Combinación lineal | ELU | permanente | (1+2)*1.35+4*0.90+12*1.50 |
| 158 (C) | ELU512 | Combinación lineal | ELU | permanente | (1+2)*1.35+5*0.90+12*1.50 |
| 159 (C) | ELU61 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+9*1.50 |
| 160 (C) | ELU62 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+10*1.50 |
| 161 (C) | ELU63 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+11*1.50 |
| 162 (C) | ELU64 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+12*1.50 |
| 163 (C) | ELU65 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*0.90+9*1.50 |
| 164 (C) | ELU66 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*0.90+9*1.50 |
| 165 (C) | ELU67 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*0.90+10*1.50 |
| 166 (C) | ELU68 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*0.90+10*1.50 |
| 167 (C) | ELU69 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*0.90+11*1.50 |
| 168 (C) | ELU610 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*0.90+11*1.50 |
| 169 (C) | ELU611 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+4*0.90+12*1.50 |
| 170 (C) | ELU612 | Combinación lineal | ELU | permanente | (1+2+3)*1.35+5*0.90+12*1.50 |
| 201 (C) | CAR01 | Combinación lineal | ELS | permanente | (1+2)*1.00 |
| 202 (C) | CAR02 | Combinación lineal | ELS | permanente | (1+2+4)*1.00 |
| 203 (C) | CAR03 | Combinación lineal | ELS | permanente | (1+2+5)*1.00 |
| 204 (C) | CAR04 | Combinación lineal | ELS | permanente | (1+2+3)*1.00 |
| 205 (C) | CAR05 | Combinación lineal | ELS | permanente | (1+2+3+4)*1.00 |
| 206 (C) | CAR06 | Combinación lineal | ELS | permanente | (1+2+3+5)*1.00 |
| 207 (C) | CAR11 | Combinación lineal | ELS | permanente | (1+2+4)*1.00+7*0.80 |
| 208 (C) | CAR12 | Combinación lineal | ELS | permanente | (1+2+4)*1.00+8*0.80 |
| 209 (C) | CAR13 | Combinación lineal | ELS | permanente | (1+2+5)*1.00+7*0.80 |
| 210 (C) | CAR14 | Combinación lineal | ELS | permanente | (1+2+5)*1.00+8*0.80 |
| 211 (C) | CAR15 | Combinación lineal | ELS | permanente | (1+2+7)*1.00+4*0.60 |
| 212 (C) | CAR16 | Combinación lineal | ELS | permanente | (1+2+8)*1.00+4*0.60 |
| 213 (C) | CAR17 | Combinación lineal | ELS | permanente | (1+2+7)*1.00+5*0.60 |
| 214 (C) | CAR18 | Combinación lineal | ELS | permanente | (1+2+8)*1.00+5*0.60 |
| 215 (C) | CAR19 | Combinación lineal | ELS | permanente | (1+2+7)*1.00 |
| 216 (C) | CAR20 | Combinación lineal | ELS | permanente | (1+2+8)*1.00 |
| 217 (C) | CAR21 | Combinación lineal | ELS | permanente | (1+2+4)*1.00+(7+13)*0.80 |
| 218 (C) | CAR22 | Combinación lineal | ELS | permanente | (1+2+4)*1.00+(8+13)*0.80 |
| 219 (C) | CAR23 | Combinación lineal | ELS | permanente | (1+2+5)*1.00+(7+13)*0.80 |

| Combinación | Nombre | Tipo de análisis | Naturaleza de combinación | Naturaleza de caso | Definición |
|---|---|---|---|---|---|
| 220 (C) | CAR24 | Combinación lineal | ELS | permanente | (1+2+5)*1.00+(8+13)*0.80 |
| 221 (C) | CAR25 | Combinación lineal | ELS | permanente | (1+2+7+13)*1.00+4*0.60 |
| 222 (C) | CAR26 | Combinación lineal | ELS | permanente | (1+2+8+13)*1.00+4*0.60 |
| 223 (C) | CAR27 | Combinación lineal | ELS | permanente | (1+2+7+13)*1.00+5*0.60 |
| 224 (C) | CAR28 | Combinación lineal | ELS | permanente | (1+2+8+13)*1.00+5*0.60 |
| 225 (C) | CAR29 | Combinación lineal | ELS | permanente | (1+2+7+13)*1.00 |
| 226 (C) | CAR30 | Combinación lineal | ELS | permanente | (1+2+8+13)*1.00 |
| 227 (C) | CAR31 | Combinación lineal | ELS | permanente | (1+2+3+4)*1.00+7*0.80 |
| 228 (C) | CAR32 | Combinación lineal | ELS | permanente | (1+2+3+4)*1.00+8*0.80 |
| 229 (C) | CAR33 | Combinación lineal | ELS | permanente | (1+2+3+5)*1.00+7*0.80 |
| 230 (C) | CAR34 | Combinación lineal | ELS | permanente | (1+2+3+5)*1.00+8*0.80 |
| 231 (C) | CAR35 | Combinación lineal | ELS | permanente | (1+2+3+7)*1.00+4*0.60 |
| 232 (C) | CAR36 | Combinación lineal | ELS | permanente | (1+2+3+8)*1.00+4*0.60 |
| 233 (C) | CAR37 | Combinación lineal | ELS | permanente | (1+2+3+7)*1.00+5*0.60 |
| 234 (C) | CAR38 | Combinación lineal | ELS | permanente | (1+2+3+8)*1.00+5*0.60 |
| 235 (C) | CAR39 | Combinación lineal | ELS | permanente | (1+2+3+7)*1.00 |
| 236 (C) | CAR40 | Combinación lineal | ELS | permanente | (1+2+3+8)*1.00 |
| 237 (C) | CAR41 | Combinación lineal | ELS | permanente | (1+2+3+4)*1.00+(7+13)*0.80 |
| 238 (C) | CAR42 | Combinación lineal | ELS | permanente | (1+2+3+4)*1.00+(8+13)*0.80 |
| 239 (C) | CAR43 | Combinación lineal | ELS | permanente | (1+2+3+5)*1.00+(7+13)*0.80 |
| 240 (C) | CAR44 | Combinación lineal | ELS | permanente | (1+2+3+5)*1.00+(8+13)*0.80 |
| 241 (C) | CAR45 | Combinación lineal | ELS | permanente | (1+2+3+7+13)*1.00+4*0.60 |
| 242 (C) | CAR46 | Combinación lineal | ELS | permanente | (1+2+3+8+13)*1.00+4*0.60 |
| 243 (C) | CAR47 | Combinación lineal | ELS | permanente | (1+2+3+7+13)*1.00+5*0.60 |
| 244 (C) | CAR48 | Combinación lineal | ELS | permanente | (1+2+3+8+13)*1.00+5*0.60 |
| 245 (C) | CAR49 | Combinación lineal | ELS | permanente | (1+2+3+7+13)*1.00 |
| 246 (C) | CAR50 | Combinación lineal | ELS | permanente | (1+2+3+8+13)*1.00 |
| 247 (C) | CAR51 | Combinación lineal | ELS | permanente | (1+2+9)*1.00 |
| 248 (C) | CAR52 | Combinación lineal | ELS | permanente | (1+2+10)*1.00 |
| 249 (C) | CAR53 | Combinación lineal | ELS | permanente | (1+2+11)*1.00 |
| 250 (C) | CAR54 | Combinación lineal | ELS | permanente | (1+2+12)*1.00 |
| 251 (C) | CAR55 | Combinación lineal | ELS | permanente | (1+2+9)*1.00+4*0.60 |
| 252 (C) | CAR56 | Combinación lineal | ELS | permanente | (1+2+9)*1.00+5*0.60 |
| 253 (C) | CAR57 | Combinación lineal | ELS | permanente | (1+2+10)*1.00+4*0.60 |
| 254 (C) | CAR58 | Combinación lineal | ELS | permanente | (1+2+10)*1.00+5*0.60 |
| 255 (C) | CAR59 | Combinación lineal | ELS | permanente | (1+2+11)*1.00+4*0.60 |
| 256 (C) | CAR510 | Combinación lineal | ELS | permanente | (1+2+11)*1.00+5*0.60 |
| 257 (C) | CAR511 | Combinación lineal | ELS | permanente | (1+2+12)*1.00+4*0.60 |
| 258 (C) | CAR512 | Combinación lineal | ELS | permanente | (1+2+12)*1.00+5*0.60 |
| 259 (C) | CAR61 | Combinación lineal | ELS | permanente | (1+2+3+9)*1.00 |
| 260 (C) | CAR62 | Combinación lineal | ELS | permanente | (1+2+3+10)*1.00 |
| 261 (C) | CAR63 | Combinación lineal | ELS | permanente | (1+2+3+11)*1.00 |
| 262 (C) | CAR64 | Combinación lineal | ELS | permanente | (1+2+3+12)*1.00 |
| 263 (C) | CAR65 | Combinación lineal | ELS | permanente | (1+2+3+9)*1.00+4*0.60 |
| 264 (C) | CAR66 | Combinación lineal | ELS | permanente | (1+2+3+9)*1.00+5*0.60 |
| 265 (C) | CAR67 | Combinación lineal | ELS | permanente | (1+2+3+10)*1.00+4*0.60 |
| 266 (C) | CAR68 | Combinación lineal | ELS | permanente | (1+2+3+10)*1.00+5*0.60 |
| 267 (C) | CAR69 | Combinación lineal | ELS | permanente | (1+2+3+11)*1.00+4*0.60 |
| 268 (C) | CAR610 | Combinación lineal | ELS | permanente | (1+2+3+11)*1.00+5*0.60 |
| 269 (C) | CAR611 | Combinación lineal | ELS | permanente | (1+2+3+12)*1.00+4*0.60 |
| 270 (C) | CAR612 | Combinación lineal | ELS | permanente | (1+2+3+12)*1.00+5*0.60 |



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Dirección :

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Proyecto : Losa Pilotada M10 V4

| Combinación | Nombre | Tipo de análisis | Naturaleza de combinación | Naturaleza de caso | Definición |
|---|---|---|---|---|---|
| 301 (C) | FREC01 | Combinación lineal | ELS | permanente | (1+2)*1.00 |
| 302 (C) | FREC02 | Combinación lineal | ELS | permanente | (1+2)*1.00+4*0.60 |
| 303 (C) | FREC03 | Combinación lineal | ELS | permanente | (1+2)*1.00+5*0.60 |
| 304 (C) | FREC04 | Combinación lineal | ELS | permanente | (1+2+3)*1.00 |
| 305 (C) | FREC05 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+4*0.60 |
| 306 (C) | FREC06 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+5*0.60 |
| 307 (C) | FREC15 | Combinación lineal | ELS | permanente | (1+2)*1.00+4*0.50+7*0.60 |
| 308 (C) | FREC16 | Combinación lineal | ELS | permanente | (1+2)*1.00+4*0.50+8*0.60 |
| 309 (C) | FREC17 | Combinación lineal | ELS | permanente | (1+2)*1.00+5*0.50+7*0.60 |
| 310 (C) | FREC18 | Combinación lineal | ELS | permanente | (1+2)*1.00+5*0.50+8*0.60 |
| 311 (C) | FREC19 | Combinación lineal | ELS | permanente | (1+2)*1.00+7*0.60 |
| 312 (C) | FREC20 | Combinación lineal | ELS | permanente | (1+2)*1.00+8*0.60 |
| 313 (C) | FREC25 | Combinación lineal | ELS | permanente | (1+2)*1.00+4*0.50+(7+13)*0.60 |
| 314 (C) | FREC26 | Combinación lineal | ELS | permanente | (1+2)*1.00+4*0.50+(8+13)*0.60 |
| 315 (C) | FREC27 | Combinación lineal | ELS | permanente | (1+2)*1.00+5*0.50+(7+13)*0.60 |
| 316 (C) | FREC28 | Combinación lineal | ELS | permanente | (1+2)*1.00+5*0.50+(8+13)*0.60 |
| 317 (C) | FREC29 | Combinación lineal | ELS | permanente | (1+2)*1.00+(7+13)*0.60 |
| 318 (C) | FREC30 | Combinación lineal | ELS | permanente | (1+2)*1.00+(8+13)*0.60 |
| 319 (C) | FREC35 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+4*0.50+7*0.60 |
| 320 (C) | FREC36 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+4*0.50+8*0.60 |
| 321 (C) | FREC37 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+5*0.50+7*0.60 |
| 322 (C) | FREC38 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+5*0.50+8*0.60 |
| 323 (C) | FREC39 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+7*0.60 |
| 324 (C) | FREC40 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+8*0.60 |
| 325 (C) | FREC45 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+4*0.50+(7+13)*0.60 |
| 326 (C) | FREC46 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+4*0.50+(8+13)*0.60 |
| 327 (C) | FREC47 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+5*0.50+(7+13)*0.60 |
| 328 (C) | FREC48 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+5*0.50+(8+13)*0.60 |
| 329 (C) | FREC49 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+(7+13)*0.60 |
| 330 (C) | FREC50 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+(8+13)*0.60 |
| 331 (C) | FREC51 | Combinación lineal | ELS | permanente | (1+2)*1.00+9*0.60 |
| 332 (C) | FREC52 | Combinación lineal | ELS | permanente | (1+2)*1.00+10*0.60 |
| 333 (C) | FREC53 | Combinación lineal | ELS | permanente | (1+2)*1.00+11*0.60 |
| 334 (C) | FREC54 | Combinación lineal | ELS | permanente | (1+2)*1.00+12*0.60 |
| 335 (C) | FREC55 | Combinación lineal | ELS | permanente | (1+2)*1.00+4*0.50+9*0.60 |
| 336 (C) | FREC56 | Combinación lineal | ELS | permanente | (1+2)*1.00+5*0.50+9*0.60 |
| 337 (C) | FREC57 | Combinación lineal | ELS | permanente | (1+2)*1.00+4*0.50+10*0.60 |
| 338 (C) | FREC58 | Combinación lineal | ELS | permanente | (1+2)*1.00+5*0.50+10*0.60 |
| 339 (C) | FREC59 | Combinación lineal | ELS | permanente | (1+2)*1.00+4*0.50+11*0.60 |
| 340 (C) | FREC510 | Combinación lineal | ELS | permanente | (1+2)*1.00+5*0.50+11*0.60 |
| 341 (C) | FREC511 | Combinación lineal | ELS | permanente | (1+2)*1.00+4*0.50+12*0.60 |
| 342 (C) | FREC512 | Combinación lineal | ELS | permanente | (1+2)*1.00+5*0.50+12*0.60 |
| 343 (C) | FREC61 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+9*0.60 |
| 344 (C) | FREC62 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+10*0.60 |
| 345 (C) | FREC63 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+11*0.60 |
| 346 (C) | FREC64 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+12*0.60 |
| 347 (C) | FREC65 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+4*0.50+9*0.60 |
| 348 (C) | FREC66 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+5*0.50+9*0.60 |
| 349 (C) | FREC67 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+4*0.50+10*0.60 |
| 350 (C) | FREC68 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+5*0.50+10*0.60 |
| 351 (C) | FREC69 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+4*0.50+11*0.60 |

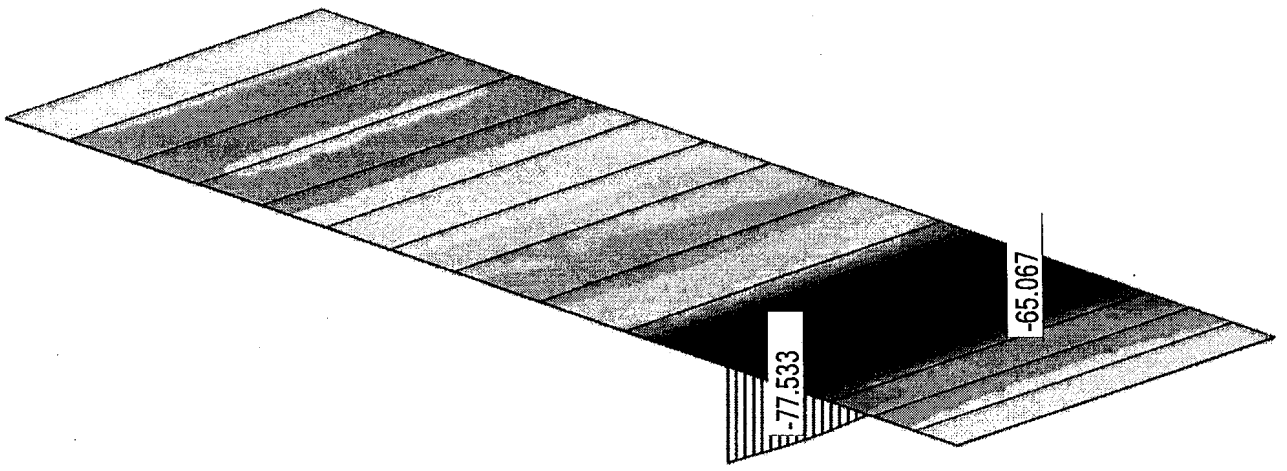
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| Combinación | Nombre | Tipo de análisis | Naturaleza de combinación | Naturaleza de caso | Definición |
|---|---|---|---|---|---|
| **352 (C)** | FREC610 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+5*0.50+11*0.60 |
| **353 (C)** | FREC611 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+4*0.50+12*0.60 |
| **354 (C)** | FREC612 | Combinación lineal | ELS | permanente | (1+2+3)*1.00+5*0.50+12*0.60 |

# DIAGRAMAS Y MAPAS DE ESFUERZOS EN LA LOSA

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## Mapas para paneles - MXX (Tm/m) Dirección X A - A1 casos: 168 (ELU610)



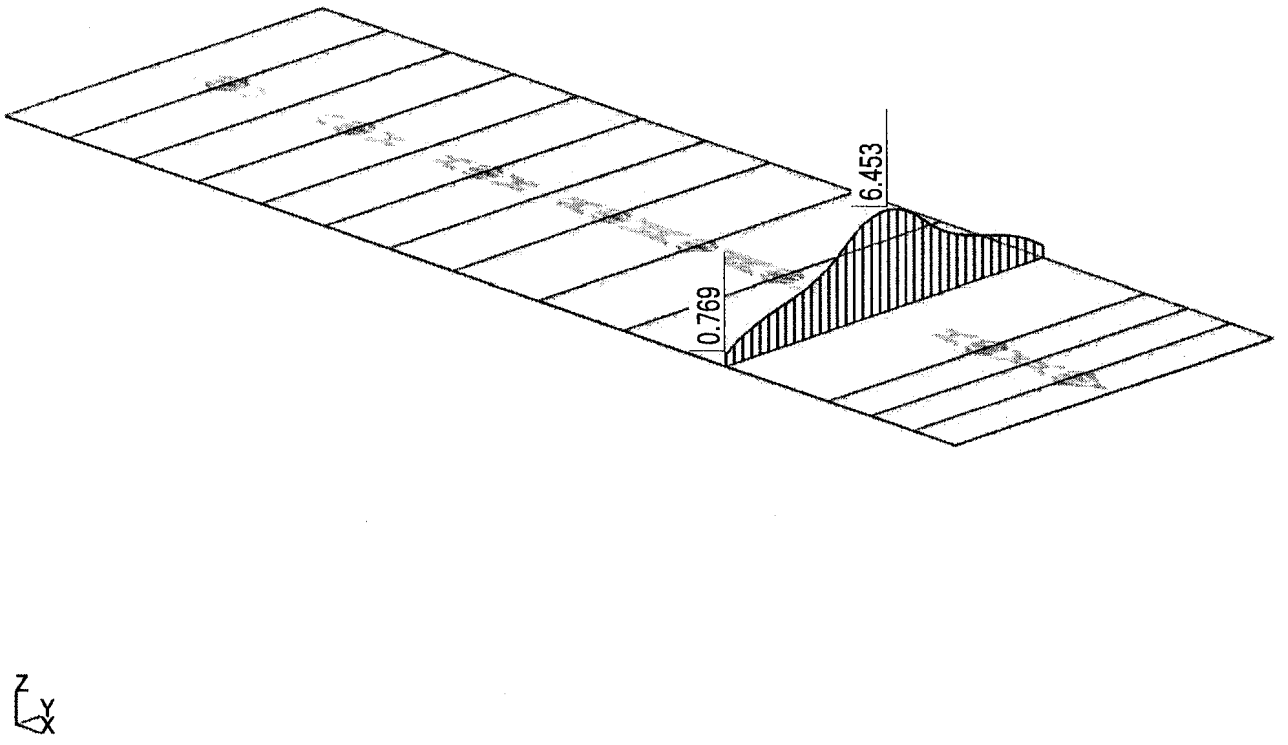

MXX (Tm/m)
Dirección X
máx: 29.805
mín: -77.572

29.805
20.857
11.909
2.961
-5.987
-14.935
-23.883
-32.831
-41.780
-50.728
-59.676
-68.624
-77.572




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## Mapas para paneles - NXX (T/m) Dirección X A - A1 casos: 168 (ELU610)

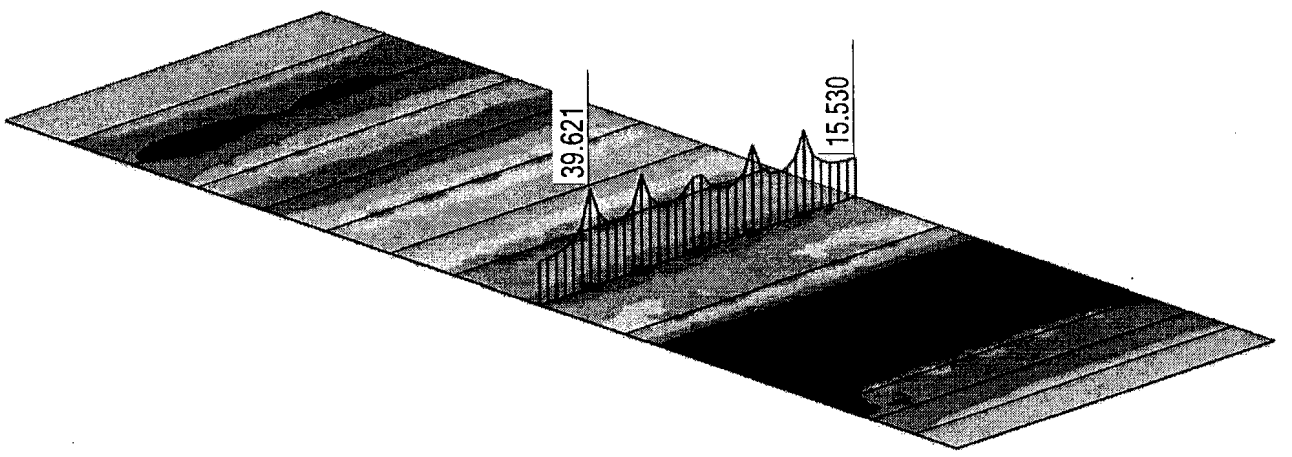


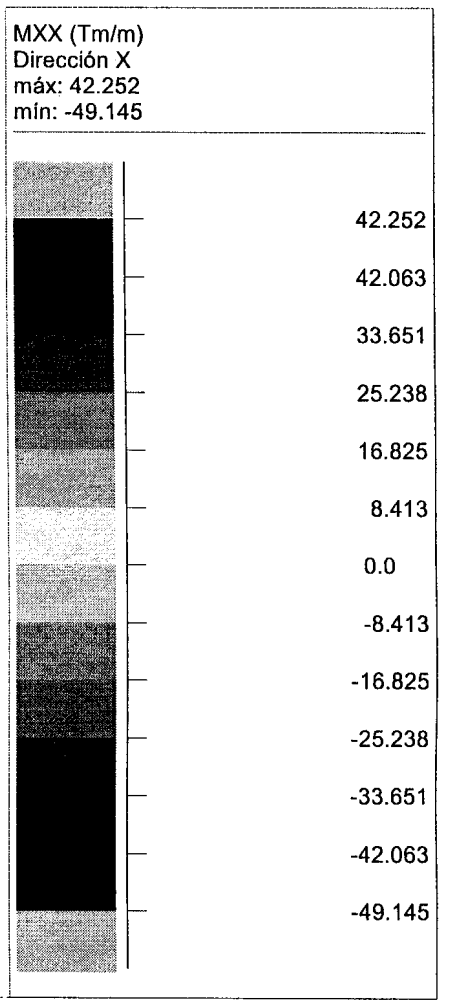

NXX (T/m)
Dirección X
máx: 142.745
mín: -84.418

142.745
123.744
104.744
85.743
66.743
47.742
28.742
9.741
-9.260
-28.260
-47.261
-66.261
-85.262

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## Mapas para paneles - MXX (Tm/m) Dirección X A - A2 casos: 136 (ELU40)



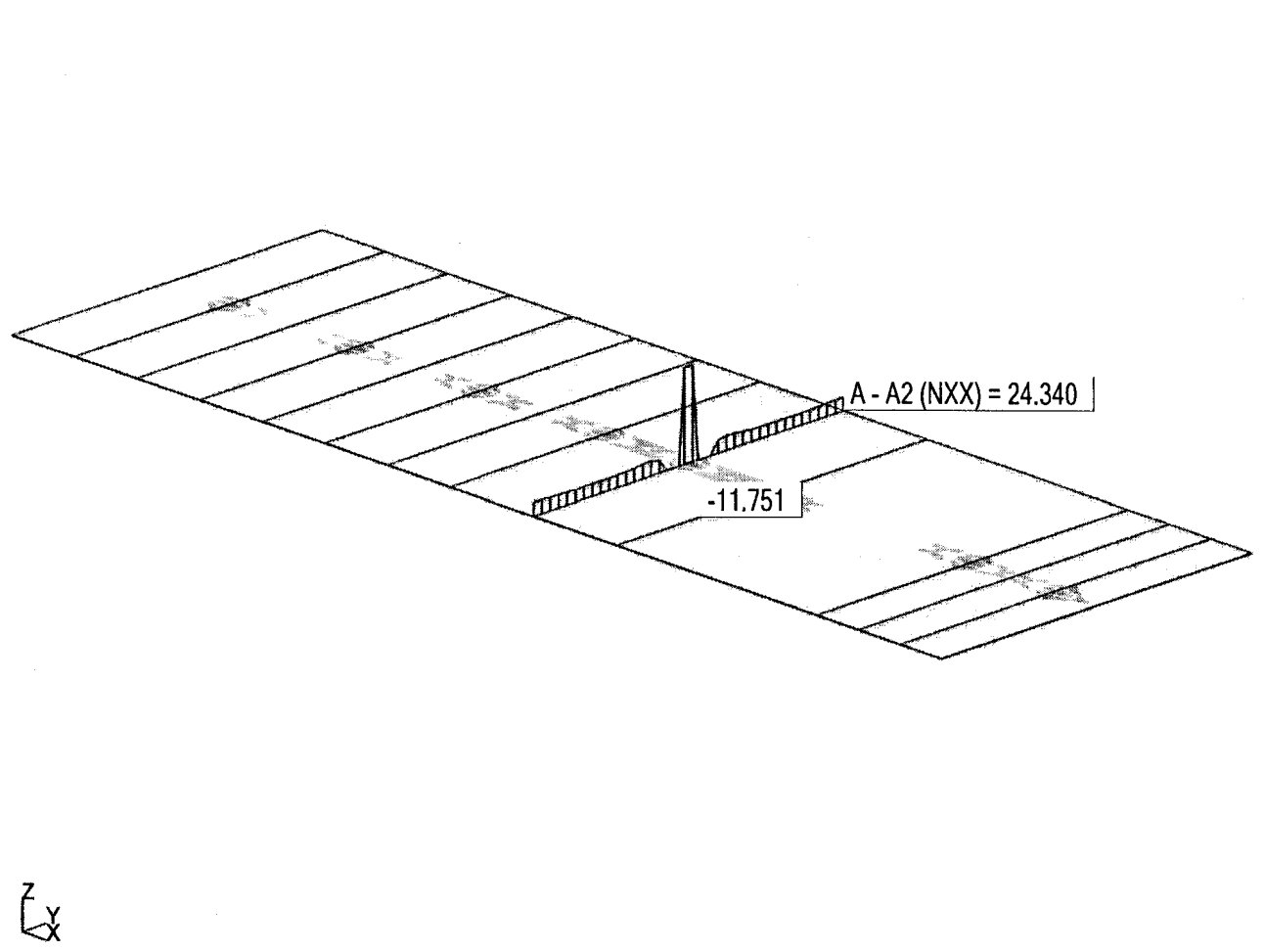



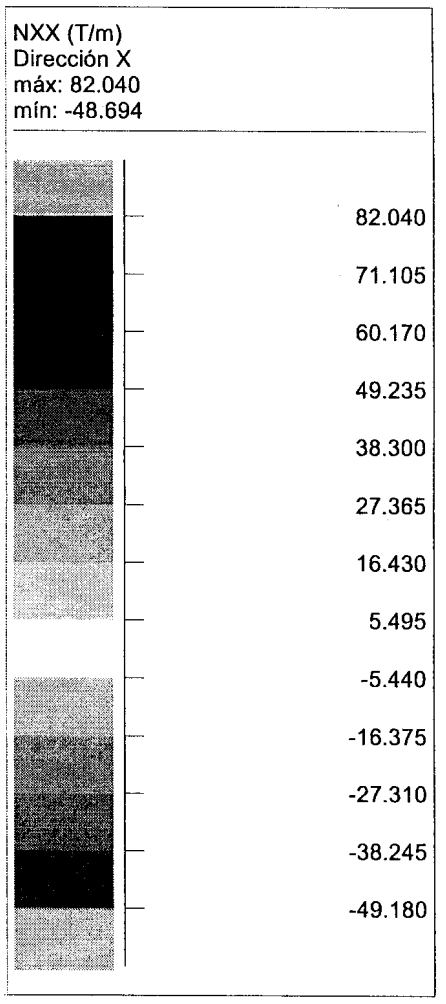




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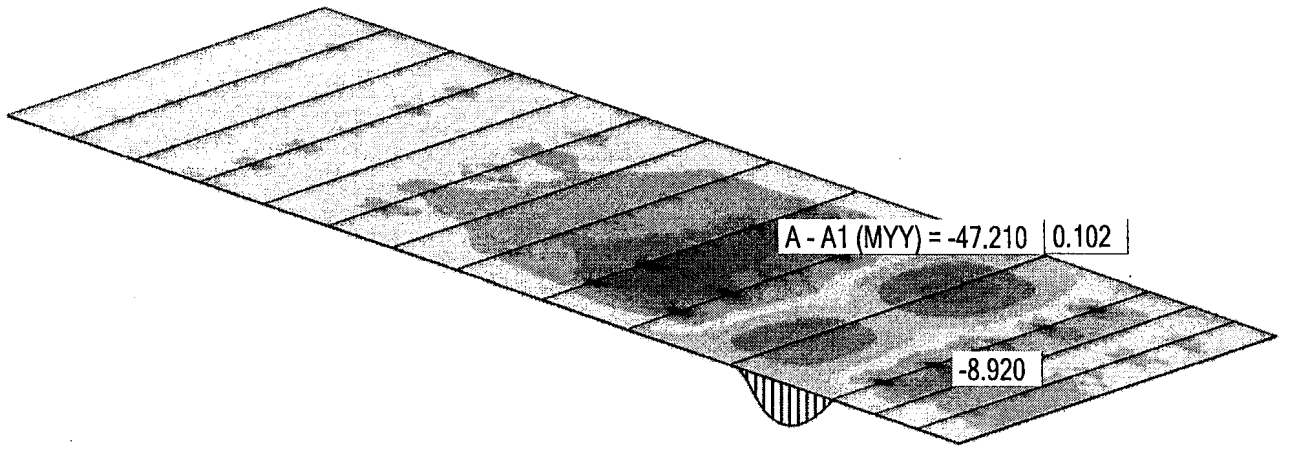

## Mapas para paneles - NXX (T/m) Dirección X A - A2 casos: 136 (ELU40)

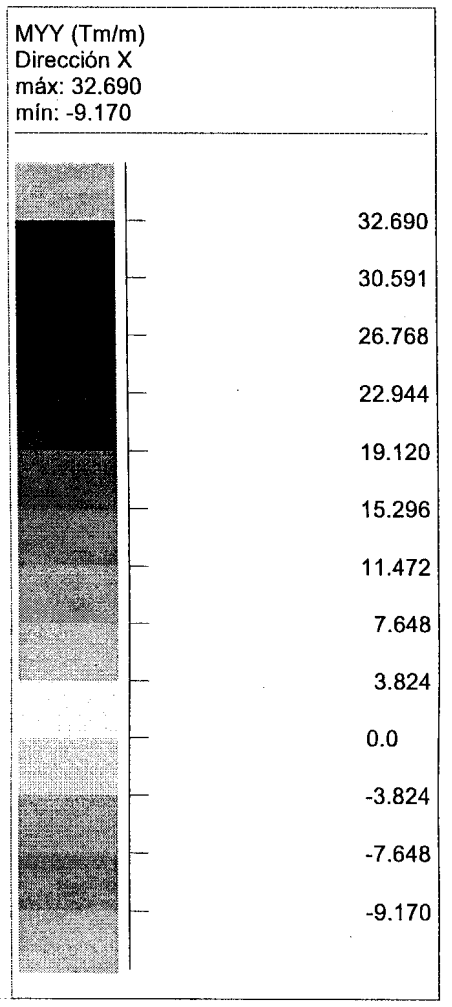


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## Mapas para paneles - MYY (Tm/m) Dirección X A - A1 casos: 168 (ELU610)



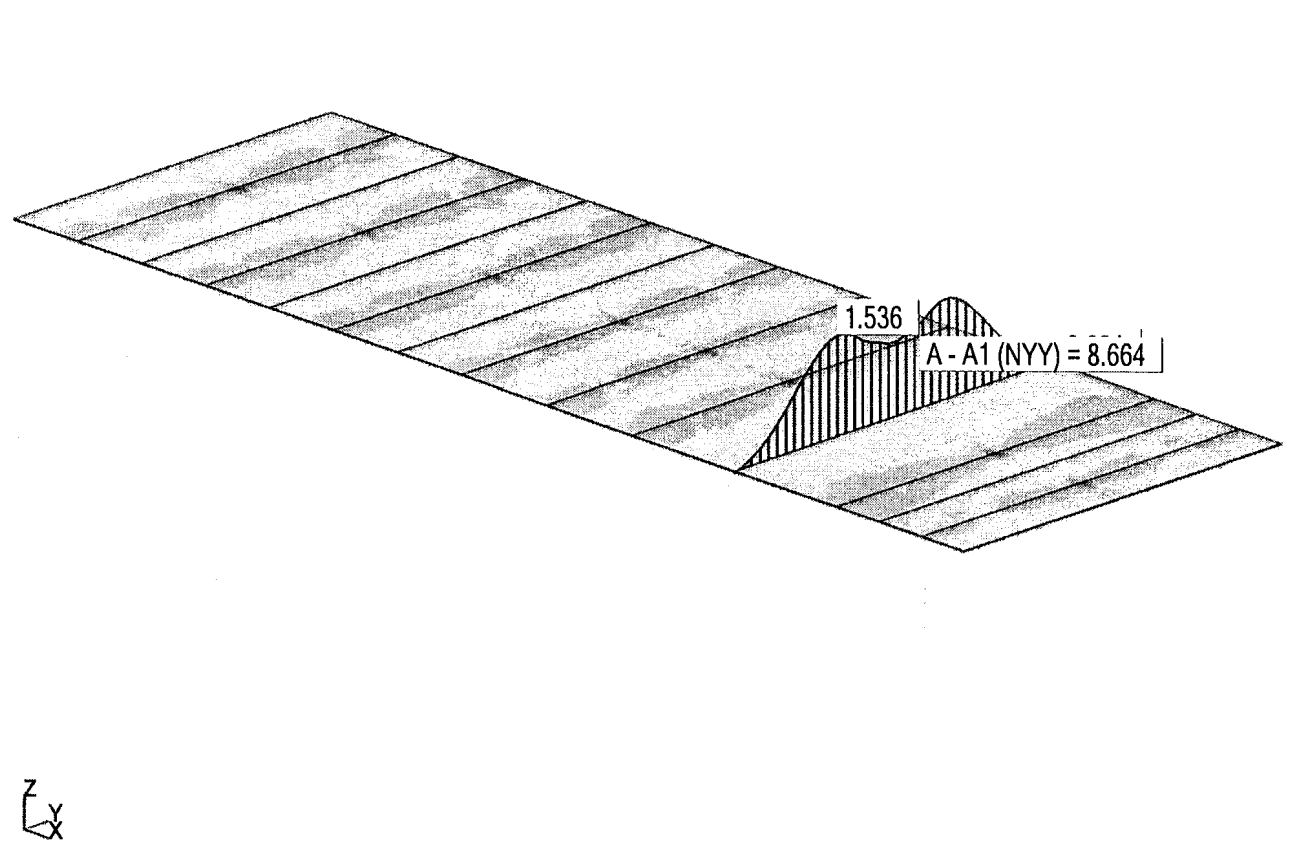



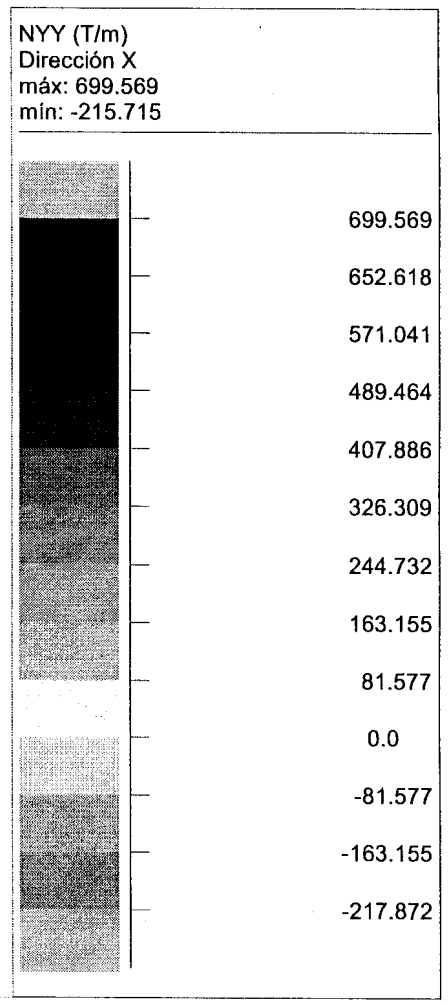




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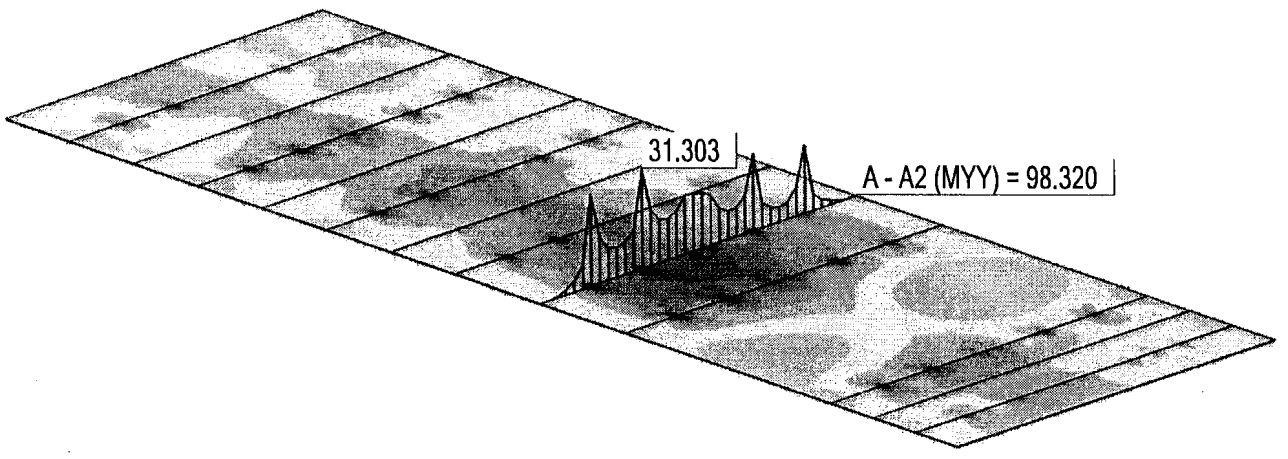

## Mapas para paneles - NYY (T/m) Dirección X A - A1 casos: 168 (ELU610)

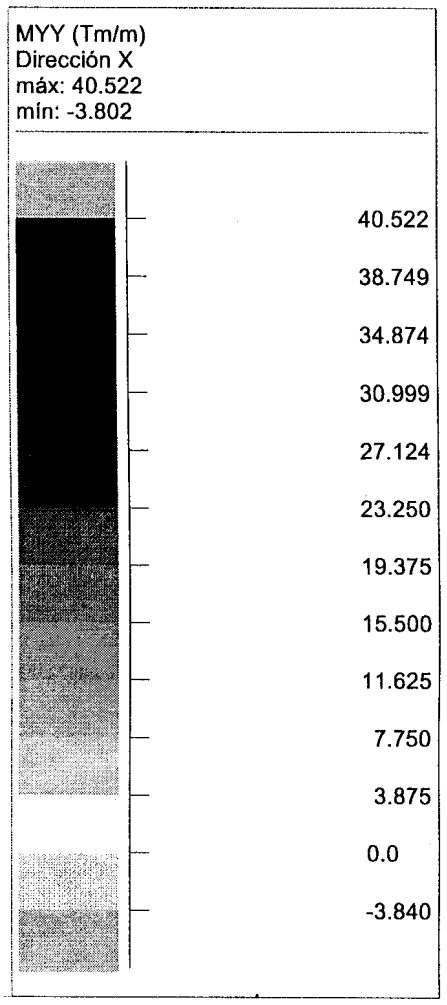


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## Mapas para paneles - MYY (Tm/m) Dirección X A - A2 casos: 116 (ELU20)



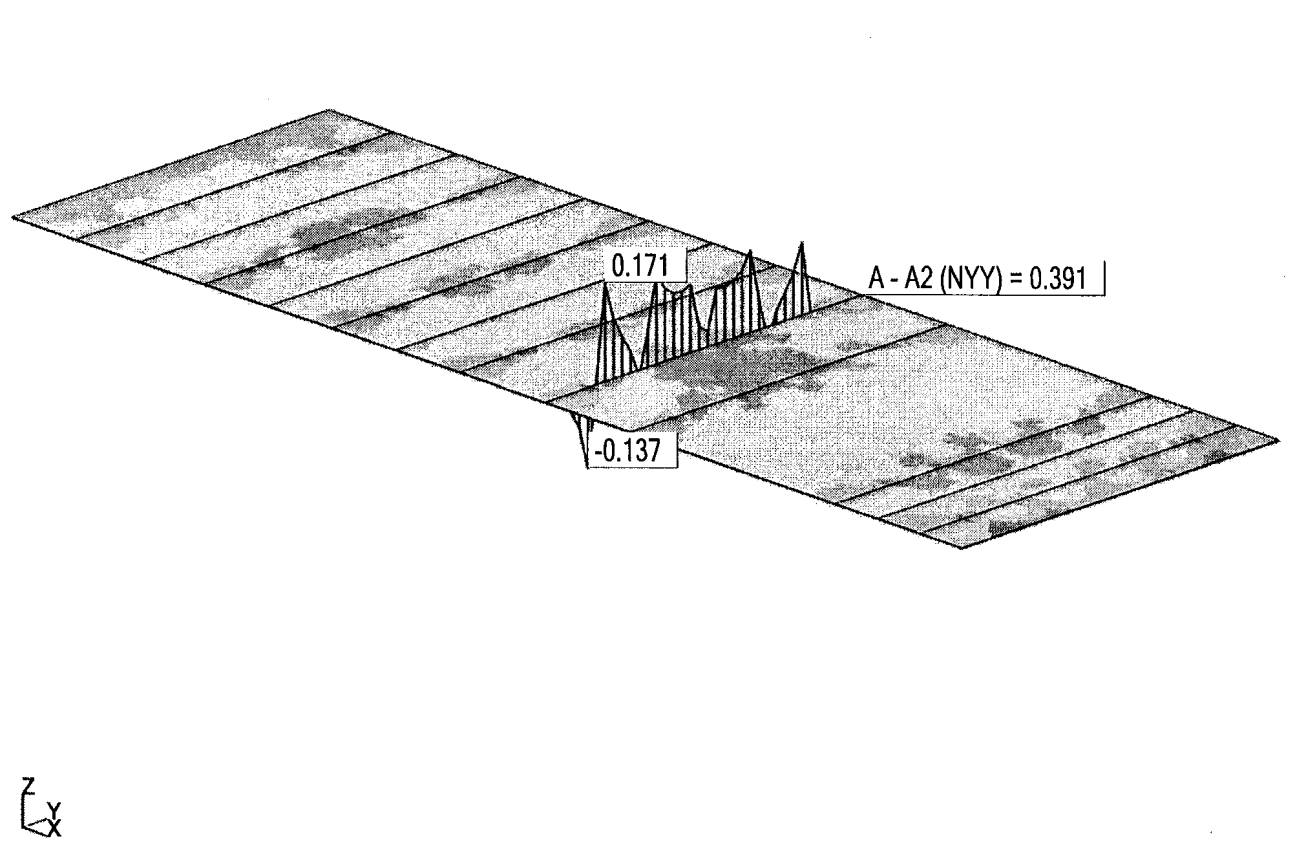



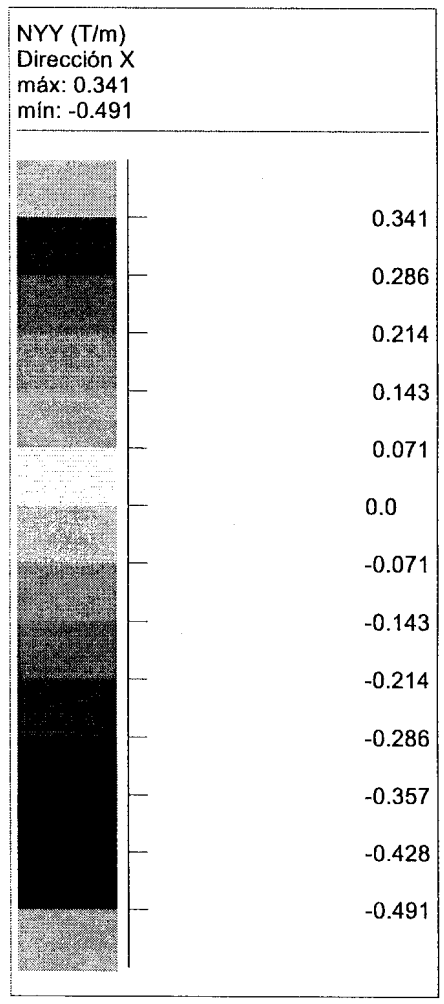




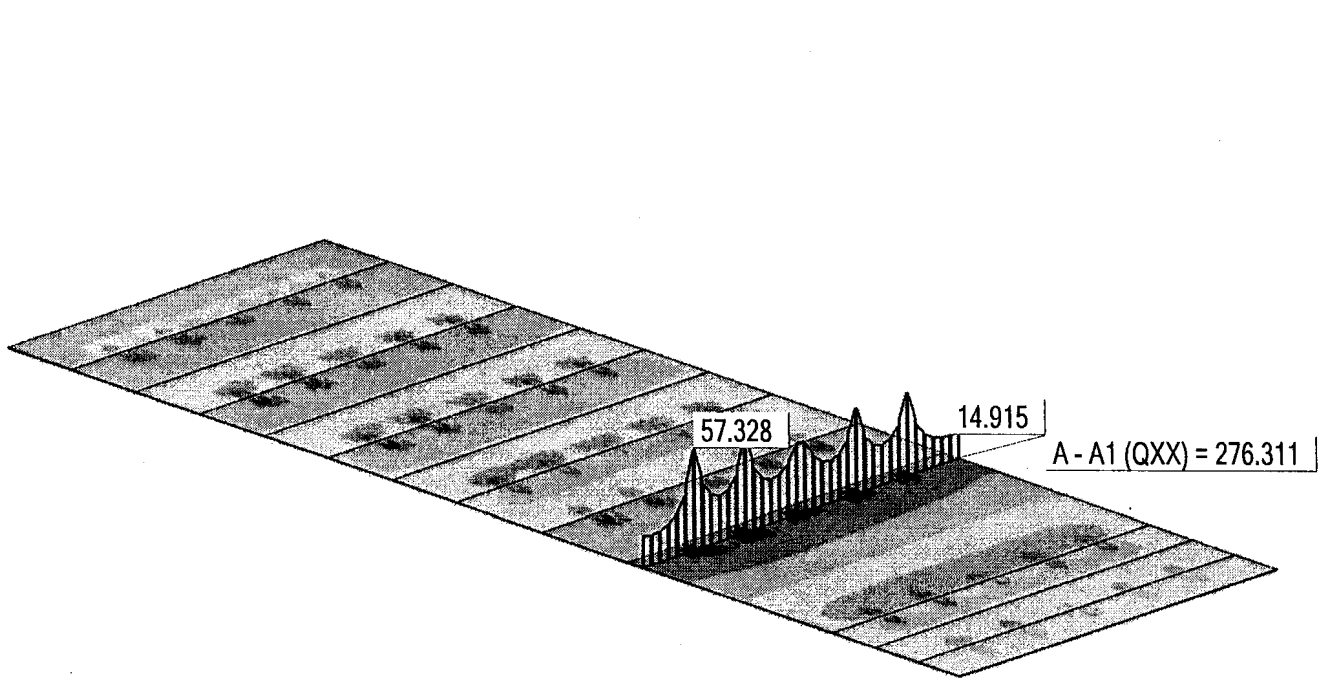
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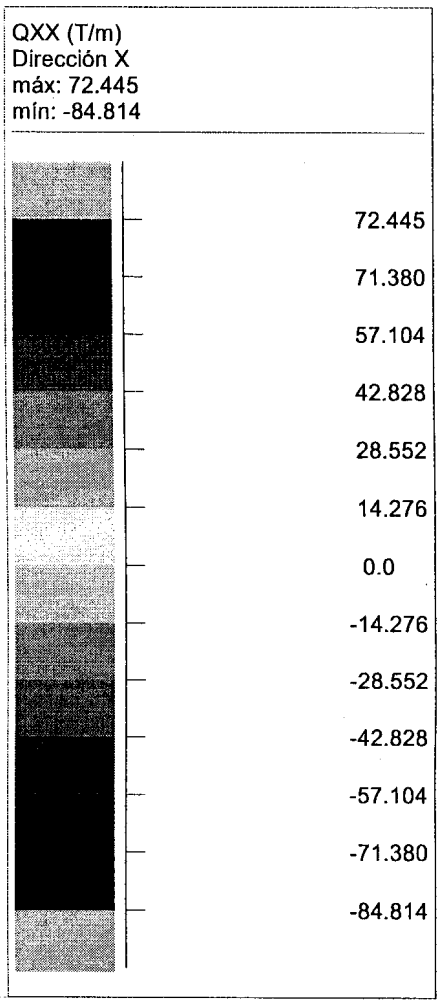

## Mapas para paneles - NYY (T/m) Dirección X A - A2 casos: 116 (ELU20)



## Mapas para paneles - QXX (T/m) Dirección X A - A1 casos: 134 (ELU38)



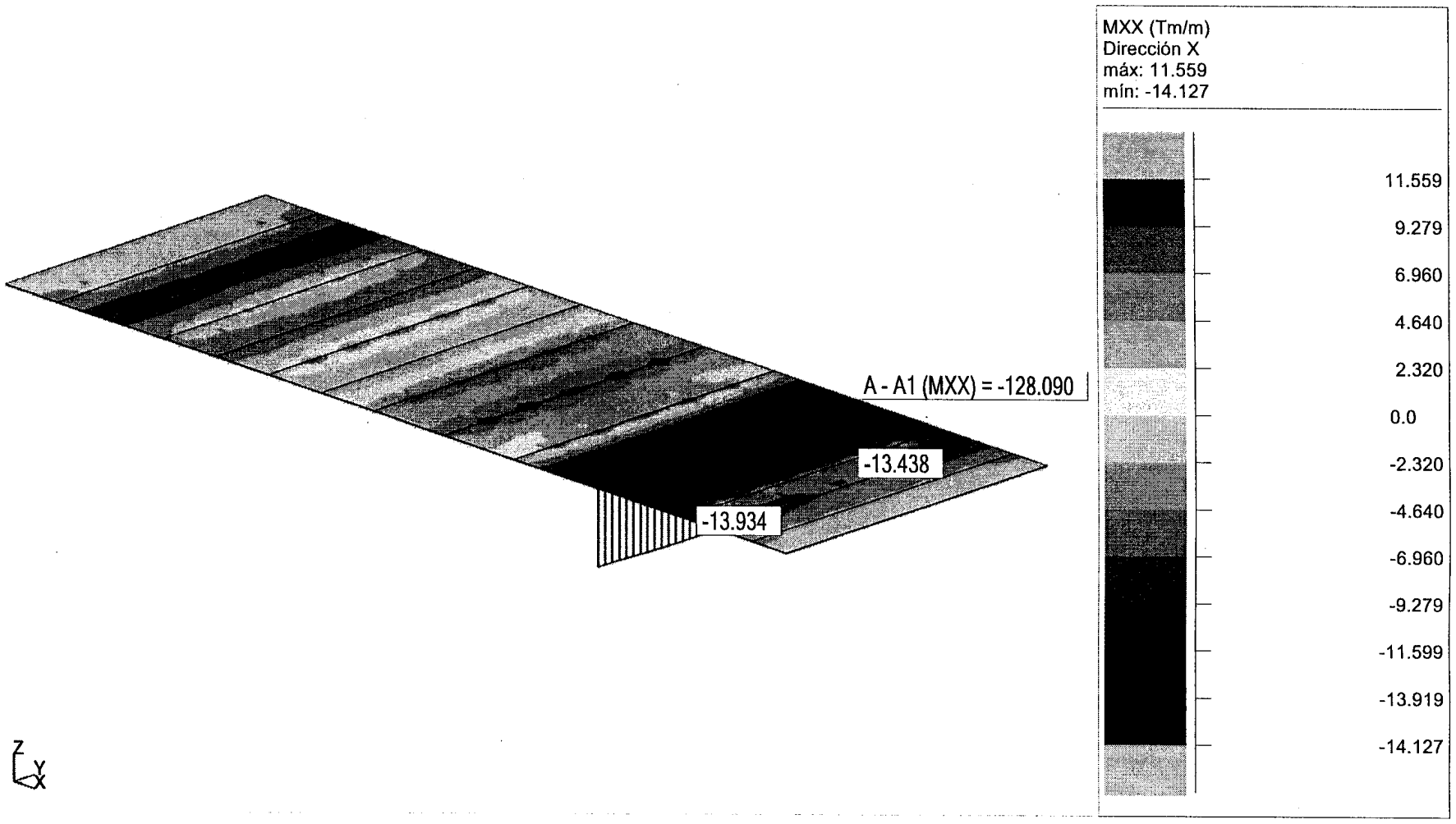






ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

## Mapas para paneles - NXX (T/m) Dirección X A - A1 casos: 134 (ELU38)

## Mapas para paneles - MXX (Tm/m) Dirección X A - A1 casos: 304 (FREC04)

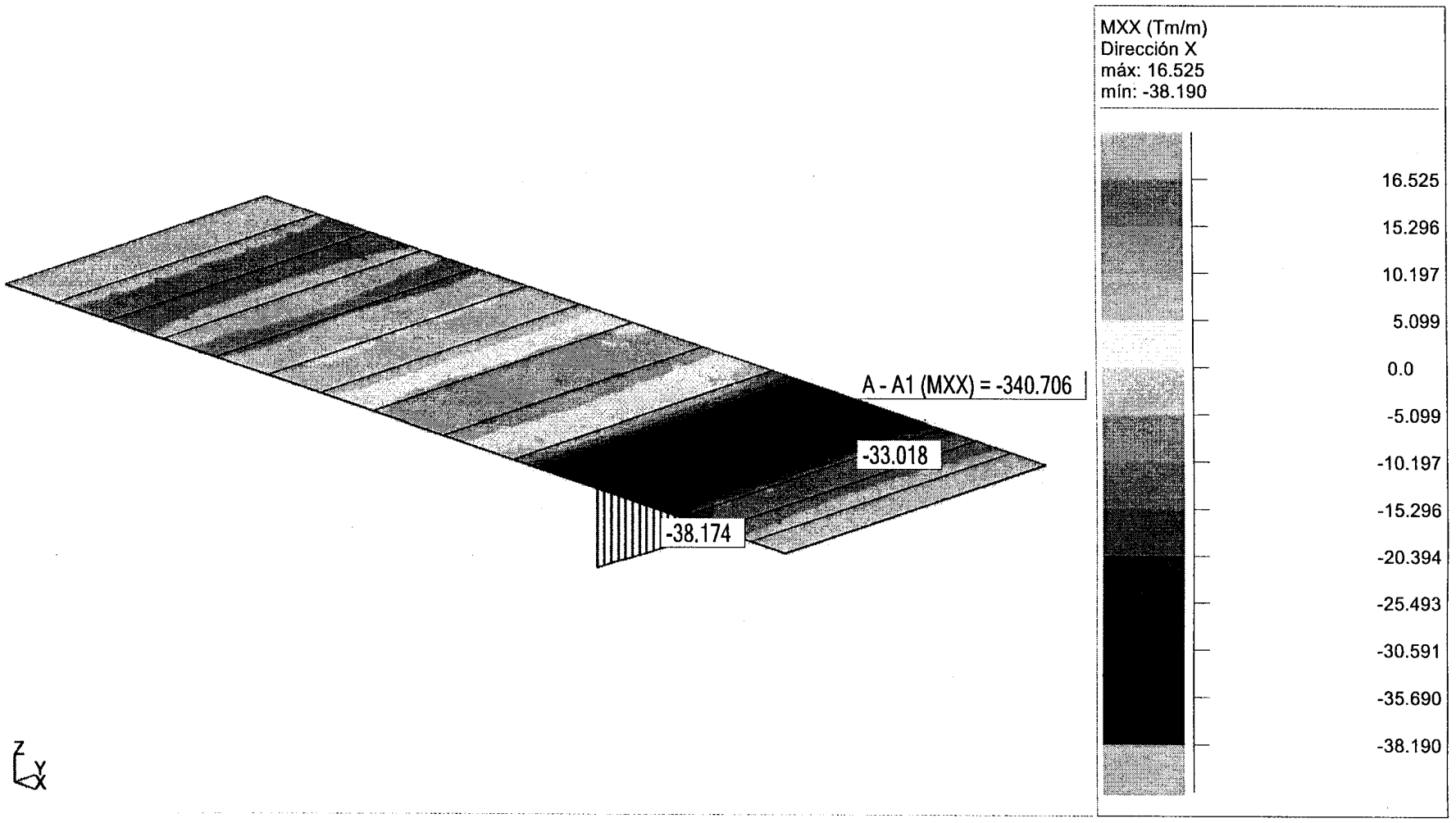





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Proyecto : Losa Pilotada M10 V4

## Mapas para paneles - MXX (Tm/m) Dirección X A - A2 casos: 304 (FREC04)

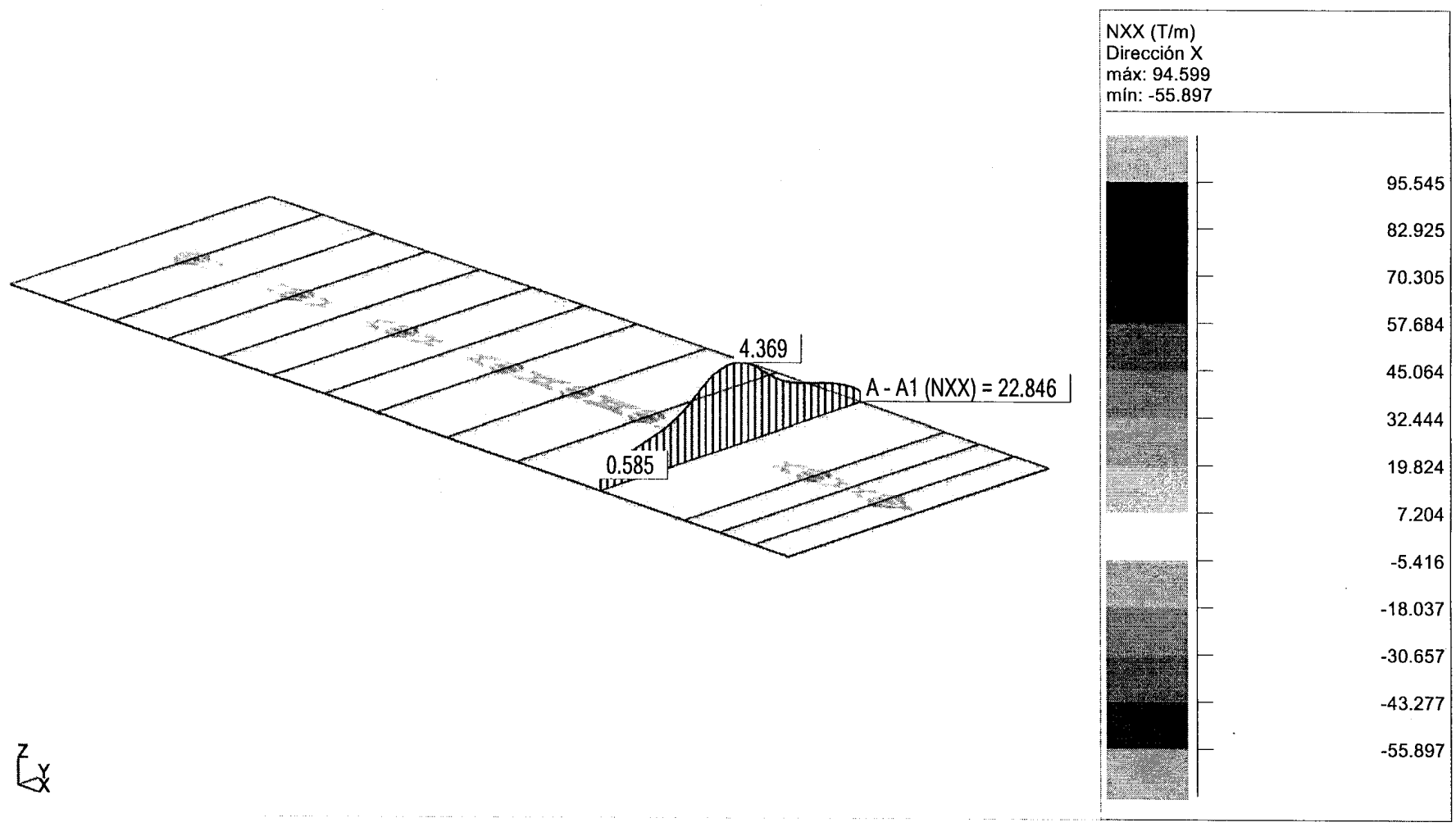
## Mapas para paneles - MXX (Tm/m) Dirección X A - A1 casos: 352 (FREC610)



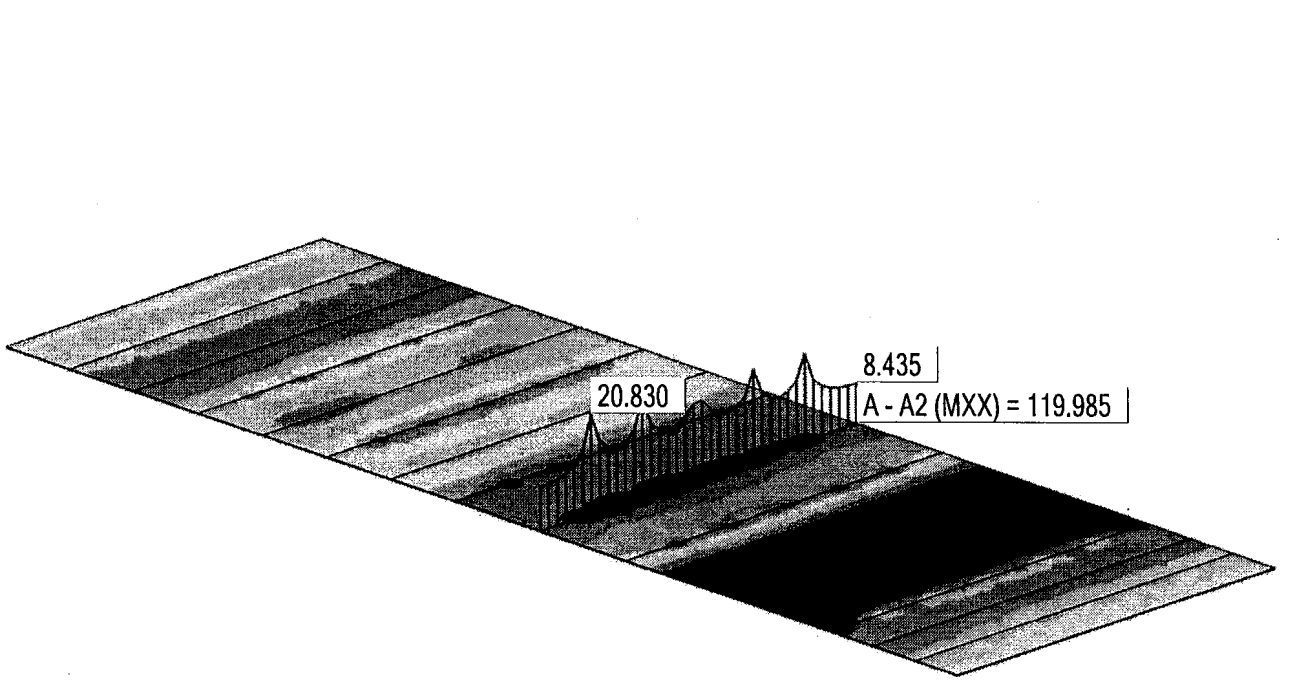


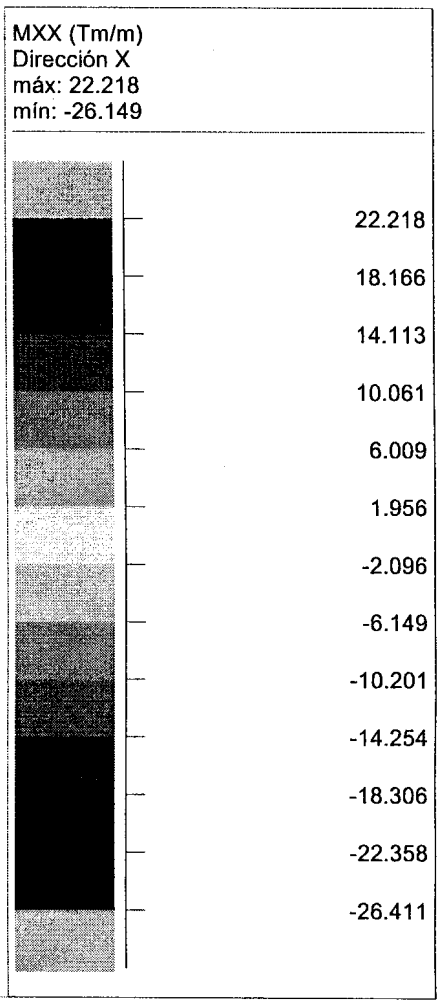



## Mapas para paneles - NXX (T/m) Dirección X A - A1 casos: 352 (FREC610)



## Mapas para paneles - MXX (Tm/m) Dirección X A - A2 casos: 324 (FREC40)

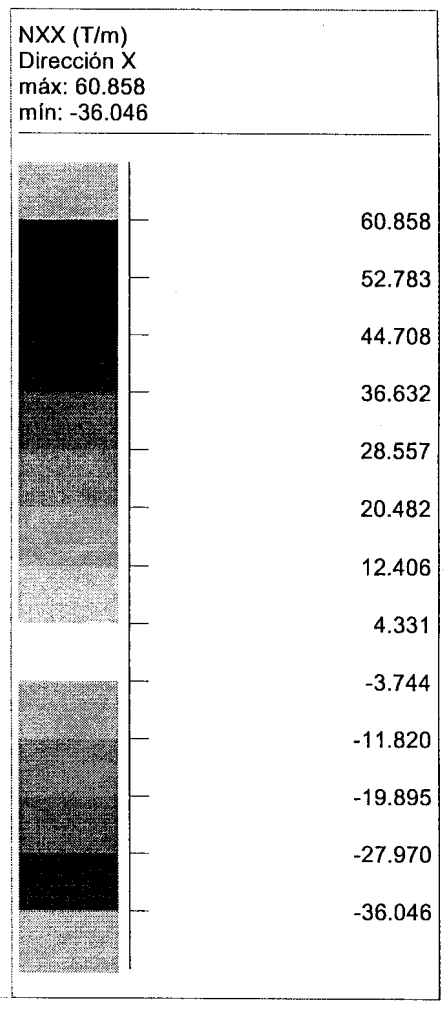


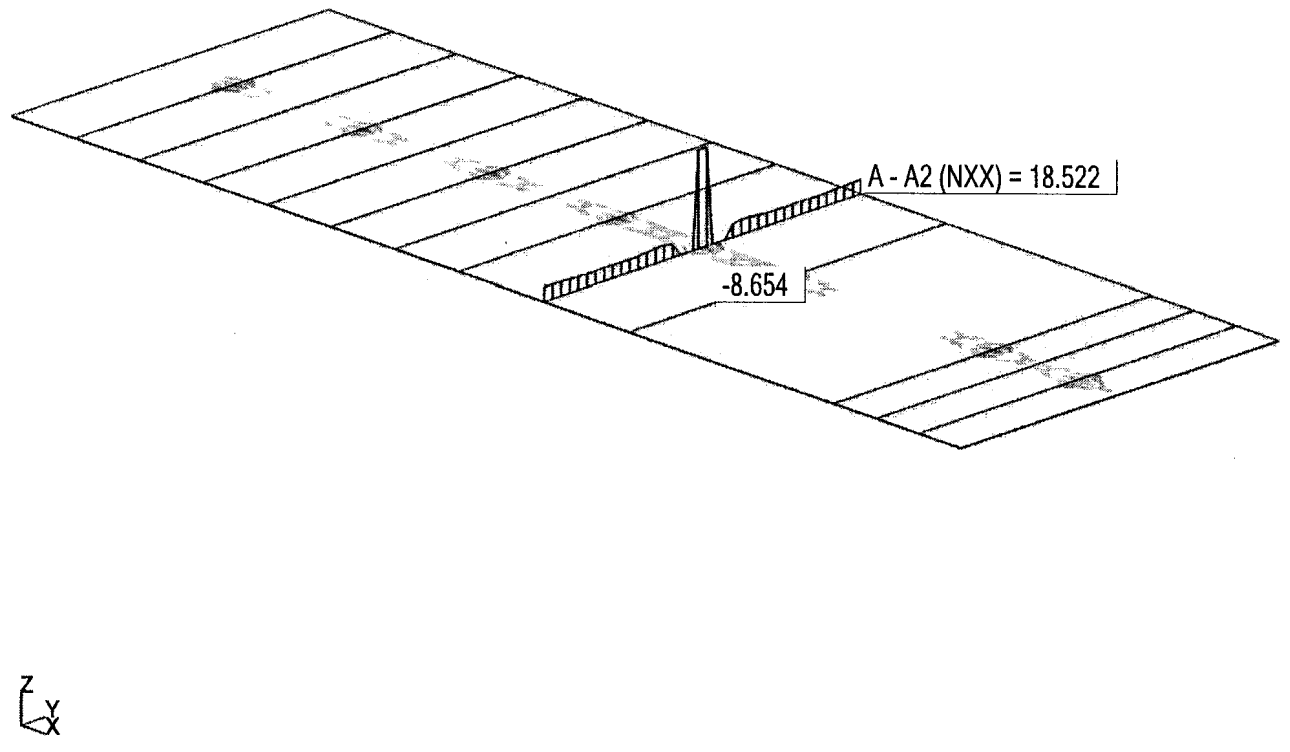






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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

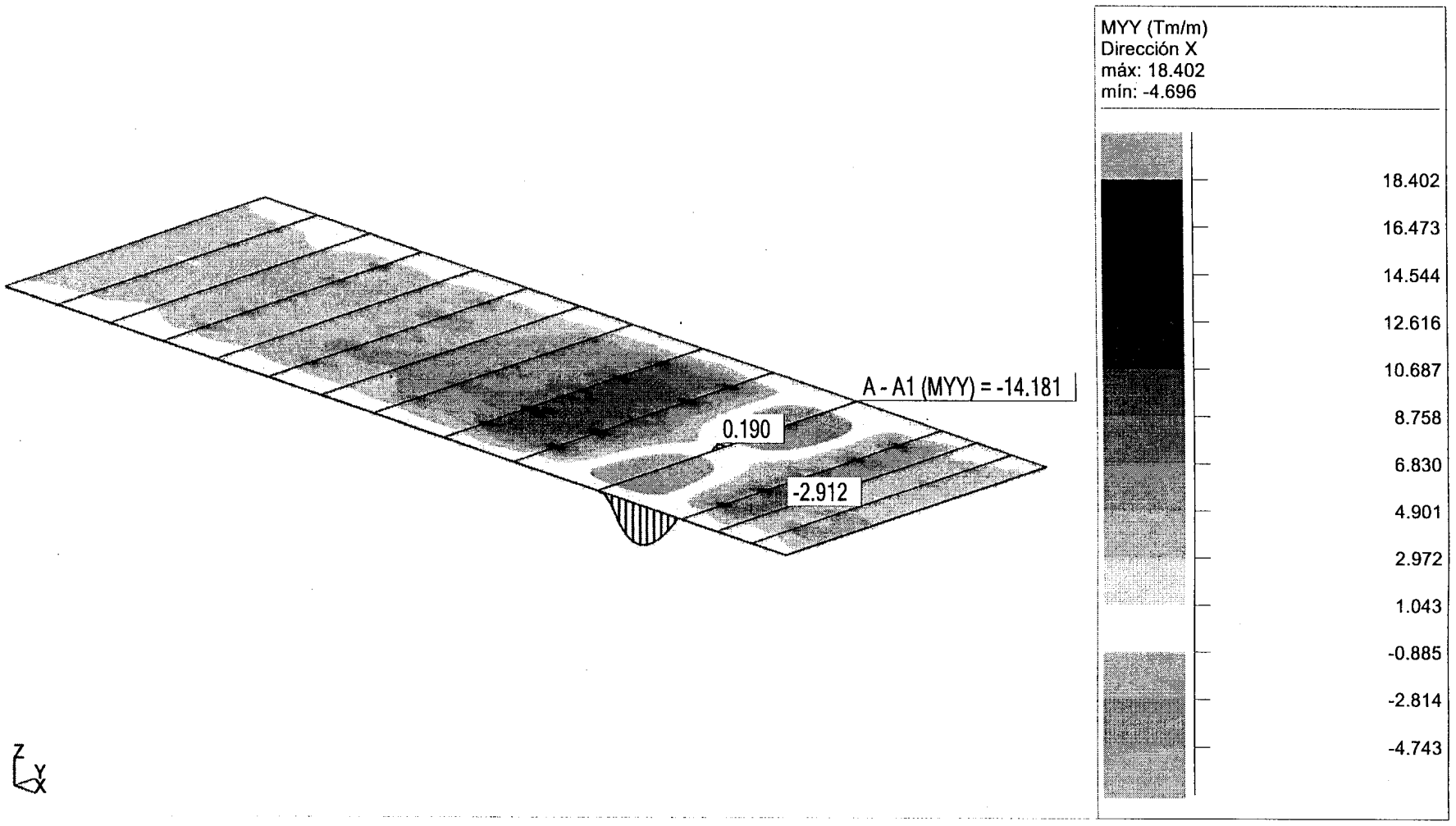
## Mapas para paneles - NXX (T/m) Dirección X A - A2 casos: 324 (FREC40)



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## Mapas para paneles - MYY (Tm/m) Dirección X A - A1 casos: 352 (FREC610)

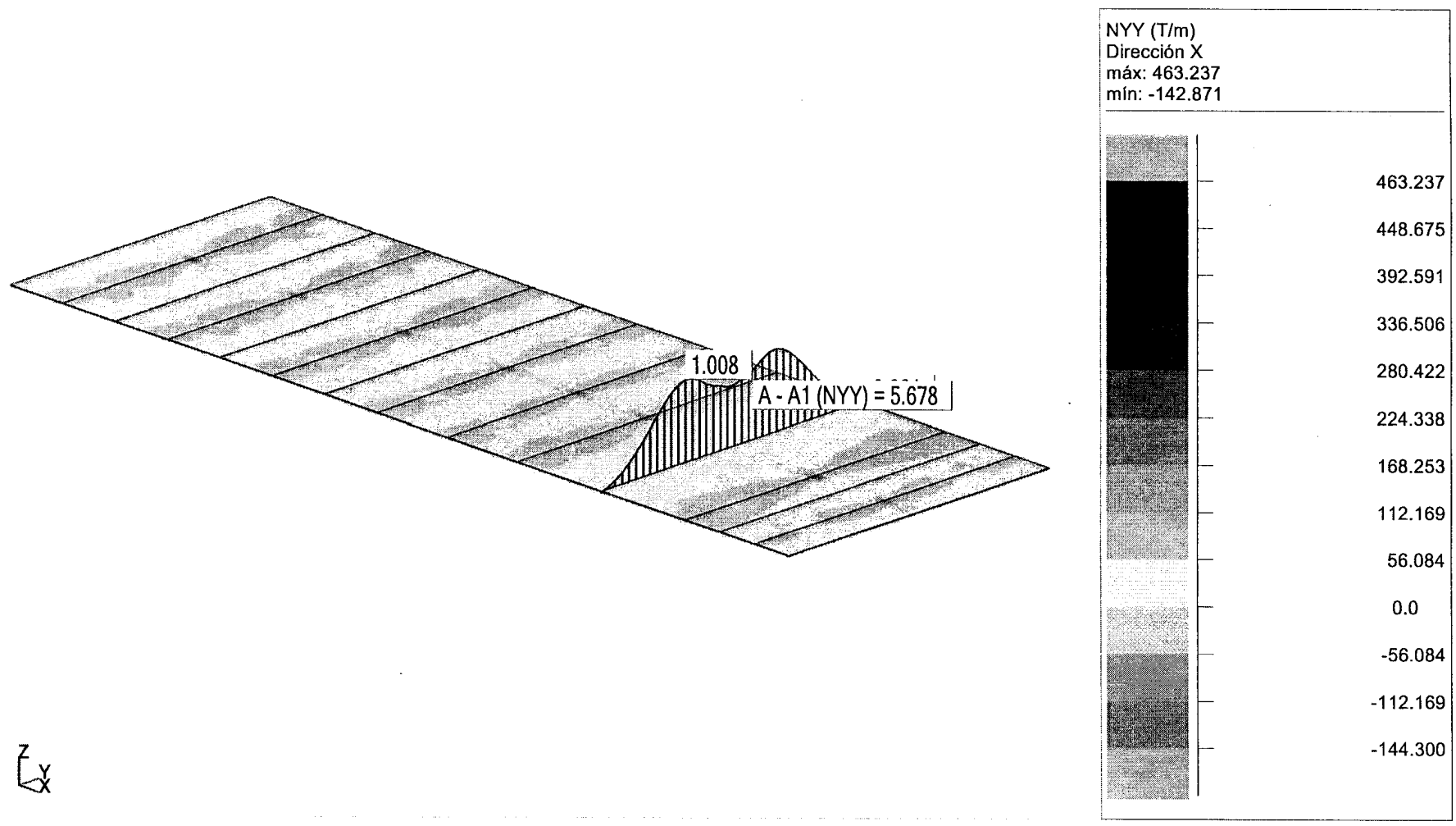






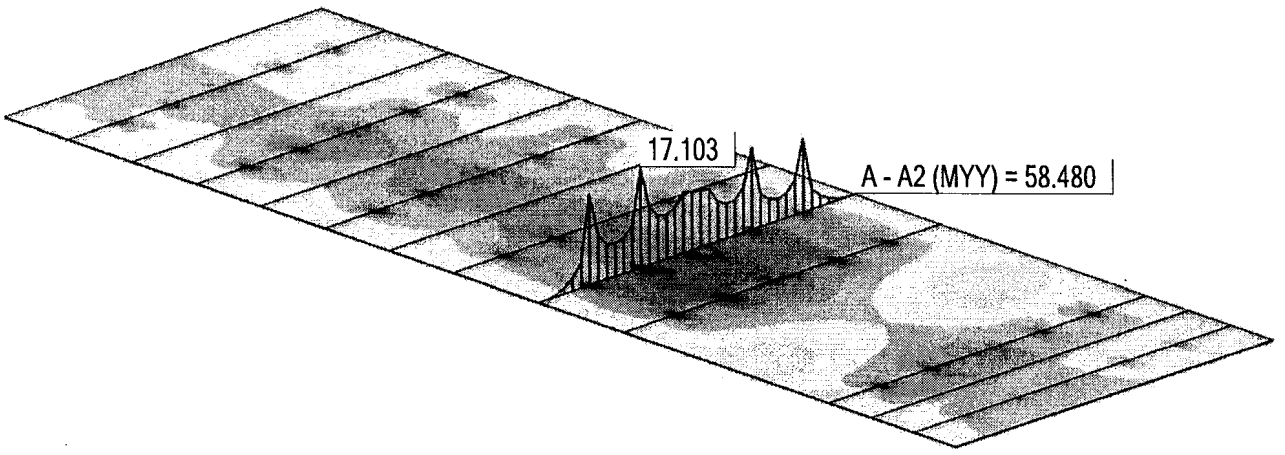
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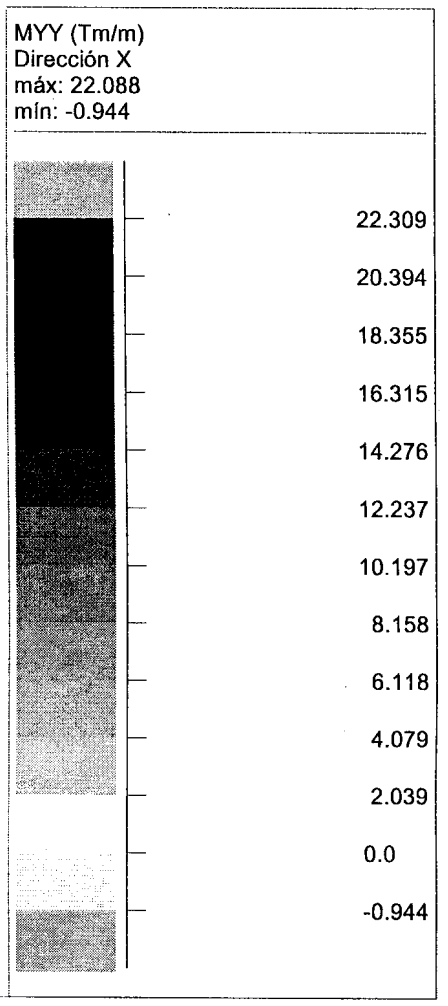

## Mapas para paneles - NYY (T/m) Dirección X A - A1 casos: 352 (FREC610)



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## Mapas para paneles - MYY (Tm/m) Dirección X A - A2 casos: 312 (FREC20)



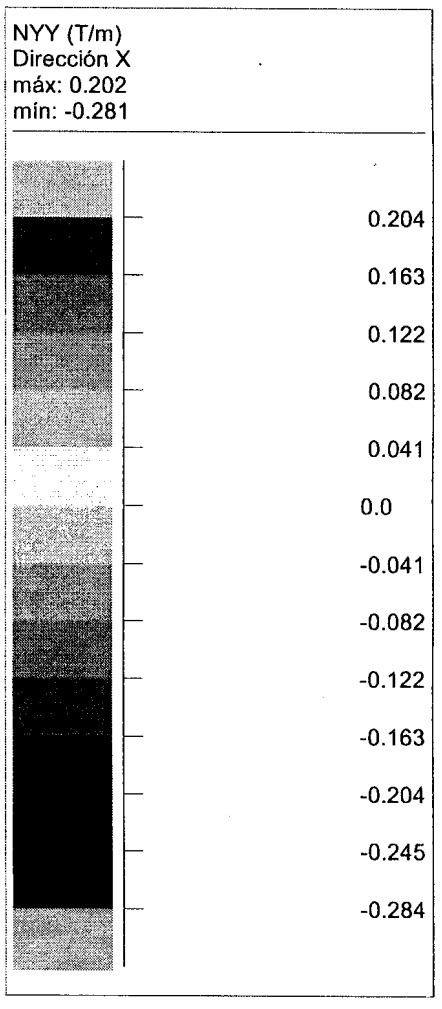



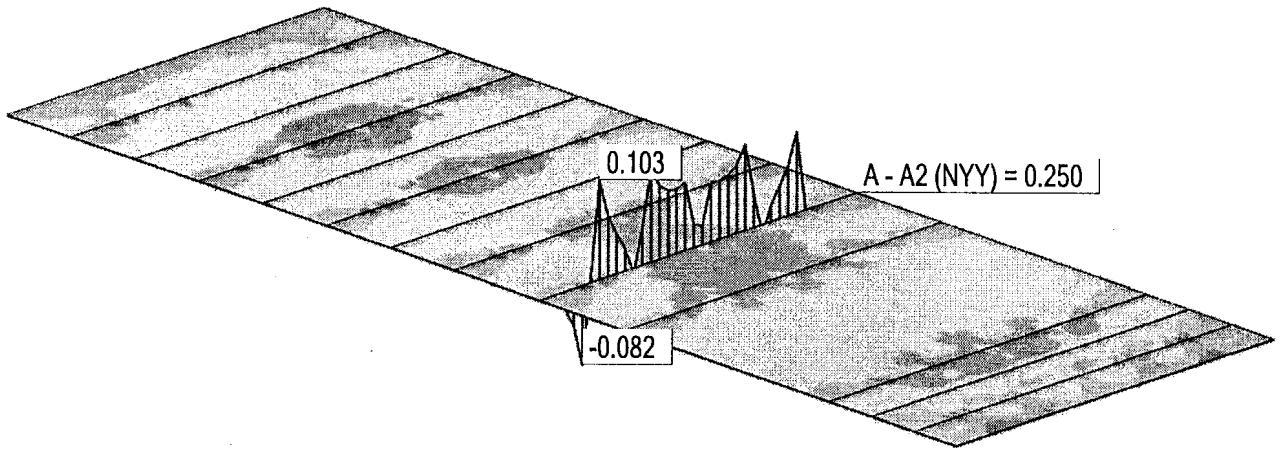




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## Mapas para paneles - NYY (T/m) Dirección X A - A2 casos: 312 (FREC20)



# LISTADOS DE ESFUERZOS EN LOS PILOTES

# CÁLCULO DEL PRETENSADO DEL VIADUCTO DE CORNELLÀ

# Cálculo del pretesando del Viaducto de Cornellá

## ÍNDICE


1. ANTECEDENTES
2. CÁLCULO DINÁMICO
3. VERIFICACIÓN DE LOS ESTADO LÍMITES DE SERVICIO
4. VERIFICACIÓN DEL E.L.U. DE ROTURA POR TENSIONES NORMALES
5. VERIFICACIÓN DEL E.L.U. DE ROTURA POR TENSIONES TANGENCIALES
6. JUNTAS TRANSVERSALES
7. VERIFICACIÓN DEL E.L.U. DE ROTURA
8. CÁLCULO DE LA CIMENTACIÓN
9. ANÁLISI DE LA INTERACCIÓN VÍA ESTRUCTURA

## 1. ANTECEDENTES

A continuación se presenta la verificación del pretensado del tablero del Viaducto de Cornellà, como parte de las obras del tramo Sant Joan Despí – L'Hospitalet de Llobregat de la LAV Madrid – Zaragoza – Barcelona – Frontera Francesa.

El objeto de este documento es el recálculo del pretensado del tablero para la misma sección transversal que la definida en el Proyecto Constructivo. Solamente se ha variado el número de tendones de pretensado y la separación entre aligeramientos.

En cuanto al esquema estructural general del Viaducto, también se ha conservado el definido en el Proyecto Constructivo, modificando únicamente las luces de los vanos 1 y 11, pasando a ser estas de 32.70 y 28.20 m respectivamente, siendo sus valores en el Proyecto Constructivo de 33.00 y 27.00 m.

Conviene destacar que el recálculo justificado en el presente documento concierne exclusivamente al postesado del tablero, pero no a sus armaduras pasivas. Estas últimas se toman del Proyecto Constructivo.

En todos los cálculos se han adoptado las mismas bases de diseño que en el Proyecto Constructivo original (acciones, materiales, ambientes, recubrimientos, niveles de control y combinación de esfuerzos).

Por último, en el apartado 7 se ha calculado el efecto que produce la autocimbra en su apoyo sobre el tablero, y se han dimensionado las armaduras necesarias para hacer frente a dicho apoyo.

Barcelona, 30 de julio de 2004.

Juan Antonio Sobrino Almunia
Dr. Ingeniero de Caminos
PEDELTA, S.L.

**Envolvente de Esfuerzos en Pilotes para Combinación ELU - Casos: 101A170**

**- Casos: 101A170**

| Filtrar | Barra | Caso |
|---|---|---|
| Lista completa | 1 3A123 140A14 1A14 | 101A170 2 |
| Selección | 4A123 | 101A170 |
| | | |
| Número total | 120 | 208 |
| Número seleccionado | 120 | 70 |

**- Casos: 101A170**

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 4/ 4714/ 157 (C) | 75.605>> | -0.001 | -0.005 | 0.0 | -0.003 | 0.000 |
| 4/ 4713/ 104 (C) | 17.523<< | 0.721 | 2.342 | 0.0 | -0.000 | 0.000 |
| 4/ 4713/ 140 (C) | 50.149 | 2.050>> | 9.614 | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 102 (C) | 19.443 | -0.585<< | -3.246 | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 139 (C) | 45.287 | 2.047 | 9.634>> | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 108 (C) | 50.593 | -0.569 | -3.443<< | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 101 (C) | 17.600 | 0.081 | -0.187 | 0.0>> | 0.000 | 0.000 |
| 4/ 4713/ 101 (C) | 17.600 | 0.081 | -0.187 | 0.0<< | 0.000 | 0.000 |
| 4/ 2/7/ 139 (C) | 46.321 | -0.279 | -1.312 | 0.0 | 6.774>> | -1.439 |
| 4/ 2/7/ 108 (C) | 51.627 | 0.077 | 0.469 | 0.0 | -2.421<< | 0.400 |
| 4/ 2/7/ 102 (C) | 20.478 | 0.080 | 0.442 | 0.0 | -2.283 | 0.412>> |
| 4/ 2/7/ 140 (C) | 51.183 | -0.279 | -1.309 | 0.0 | 6.761 | -1.442<< |
| 5/ 4715/ 157 (C) | 79.535>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 5/ 4714/ 104 (C) | 23.728<< | 0.002 | 0.006 | 0.0 | 0.004 | -0.001 |
| 5/ 4714/ 140 (C) | 56.354 | 0.005>> | 0.024 | 0.0 | 0.015 | -0.003 |
| 5/ 2/7/ 140 (C) | 57.009 | -0.002<< | -0.009 | 0.0 | 0.019 | -0.004 |
| 5/ 4714/ 139 (C) | 51.492 | 0.005 | 0.024>> | 0.0 | 0.015 | -0.003 |
| 5/ 2/7/ 139 (C) | 52.147 | -0.002 | -0.009<< | 0.0 | 0.019 | -0.004 |
| 5/ 4714/ 101 (C) | 23.805 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 5/ 4714/ 101 (C) | 23.805 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 5/ 2/7/ 139 (C) | 52.147 | -0.002 | -0.009 | 0.0 | 0.019>> | -0.004 |
| 5/ 2/7/ 108 (C) | 57.453 | 0.001 | 0.003 | 0.0 | -0.007<< | 0.001 |
| 5/ 2/7/ 102 (C) | 26.303 | 0.001 | 0.003 | 0.0 | -0.006 | 0.001>> |
| 5/ 2/7/ 140 (C) | 57.009 | -0.002 | -0.009 | 0.0 | 0.019 | -0.004<< |
| 6/ 4716/ 157 (C) | 80.879>> | -0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 6/ 4715/ 104 (C) | 27.658<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 6/ 4715/ 140 (C) | 60.284 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 6/ 4/7/ 140 (C) | 60.956 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 6/ 4715/ 139 (C) | 55.422 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 6/ 4/7/ 139 (C) | 56.094 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 6/ 4715/ 101 (C) | 27.735 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 6/ 4715/ 101 (C) | 27.735 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 6/ 2/7/ 139 (C) | 55.646 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 6/ 2/7/ 108 (C) | 60.951 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 6/ 2/7/ 102 (C) | 29.802 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 6/ 2/7/ 140 (C) | 60.508 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 7/ 4718/ 150 (C) | 69.009>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 7/ 4717/ 106 (C) | 13.026<< | 0.835 | 5.506 | 0.0 | -0.000 | 0.000 |
| 7/ 4717/ 139 (C) | 38.680 | 1.257>> | 9.705 | 0.0 | -0.000 | 0.000 |



ROBOT v 17.0.1
Autor :
Dirección :

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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 7/ 4717/ 108 (C) | 41.113 | -0.308<< | -3.416 | 0.0 | -0.000 | -0.000 |
| 7/ 4717/ 139 (C) | 38.680 | 1.257 | 9.705>> | 0.0 | -0.000 | 0.000 |
| 7/ 4717/ 108 (C) | 41.113 | -0.308 | -3.416<< | 0.0 | -0.000 | -0.000 |
| 7/ 4717/ 101 (C) | 15.028 | 0.043 | -0.180 | 0.0>> | 0.000 | 0.000 |
| 7/ 4717/ 101 (C) | 15.028 | 0.043 | -0.180 | 0.0<< | 0.000 | 0.000 |
| 7/ 2/7/ 139 (C) | 39.714 | -0.171 | -1.321 | 0.0 | 6.824>> | -0.884 |
| 7/ 2/7/ 108 (C) | 42.147 | 0.042 | 0.465 | 0.0 | -2.402<< | 0.217 |
| 7/ 2/7/ 108 (C) | 42.147 | 0.042 | 0.465 | 0.0 | -2.402 | 0.217>> |
| 7/ 2/7/ 139 (C) | 39.714 | -0.171 | -1.321 | 0.0 | 6.824 | -0.884<< |
| 8/ 4719/ 150 (C) | 72.938>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 8/ 4718/ 106 (C) | 19.230<< | 0.002 | 0.014 | 0.0 | 0.009 | -0.001 |
| 8/ 4718/ 139 (C) | 44.884 | 0.003>> | 0.024 | 0.0 | 0.016 | -0.002 |
| 8/ 2/7/ 139 (C) | 45.539 | -0.001<< | -0.009 | 0.0 | 0.019 | -0.002 |
| 8/ 4718/ 139 (C) | 44.884 | 0.003 | 0.024>> | 0.0 | 0.016 | -0.002 |
| 8/ 2/7/ 139 (C) | 45.539 | -0.001 | -0.009<< | 0.0 | 0.019 | -0.002 |
| 8/ 4718/ 101 (C) | 21.233 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 8/ 4718/ 101 (C) | 21.233 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 8/ 2/7/ 139 (C) | 45.539 | -0.001 | -0.009 | 0.0 | 0.019>> | -0.002 |
| 8/ 2/7/ 108 (C) | 47.973 | 0.000 | 0.003 | 0.0 | -0.007<< | 0.001 |
| 8/ 2/7/ 108 (C) | 47.973 | 0.000 | 0.003 | 0.0 | -0.007 | 0.001>> |
| 8/ 2/7/ 139 (C) | 45.539 | -0.001 | -0.009 | 0.0 | 0.019 | -0.002<< |
| 9/ 4720/ 150 (C) | 74.283>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 9/ 4719/ 106 (C) | 23.160<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 9/ 4719/ 139 (C) | 48.814 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 9/ 4/7/ 139 (C) | 49.486 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 9/ 4719/ 139 (C) | 48.814 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 9/ 4/7/ 139 (C) | 49.486 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 9/ 4719/ 101 (C) | 25.163 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 9/ 4719/ 101 (C) | 25.163 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 9/ 2/7/ 139 (C) | 49.038 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 9/ 2/7/ 108 (C) | 51.472 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 9/ 2/7/ 108 (C) | 51.472 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 9/ 2/7/ 139 (C) | 49.038 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 10/ 4722/ 148 (C) | 65.387>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 10/ 4721/ 106 (C) | 10.974<< | 0.000 | 5.518 | 0.0 | -0.000 | 0.000 |
| 10/ 4721/ 143 (C) | 43.881 | 0.509>> | 9.575 | 0.0 | -0.000 | 0.000 |
| 10/ 3/7/ 143 (C) | 45.949 | -0.083<< | -1.556 | 0.0 | 2.219 | -0.118 |
| 10/ 4721/ 139 (C) | 36.299 | 0.407 | 9.776>> | 0.0 | -0.000 | 0.000 |
| 10/ 4721/ 108 (C) | 36.561 | -0.030 | -3.401<< | 0.0 | 0.000 | -0.000 |
| 10/ 4721/ 101 (C) | 14.150 | -0.000 | -0.177 | 0.0>> | 0.000 | -0.000 |
| 10/ 4721/ 101 (C) | 14.150 | -0.000 | -0.177 | 0.0<< | 0.000 | -0.000 |
| 10/ 2/7/ 139 (C) | 37.333 | -0.055 | -1.331 | 0.0 | 6.874>> | -0.286 |
| 10/ 2/7/ 108 (C) | 37.596 | 0.004 | 0.463 | 0.0 | -2.392<< | 0.021 |
| 10/ 2/7/ 112 (C) | 45.149 | 0.005 | 0.303 | 0.0 | -1.563 | 0.026>> |
| 10/ 2/7/ 143 (C) | 44.915 | -0.069 | -1.304 | 0.0 | 6.733 | -0.358<< |
| 11/ 4723/ 148 (C) | 69.317>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 11/ 4722/ 106 (C) | 17.179<< | 0.000 | 0.014 | 0.0 | 0.009 | -0.000 |
| 11/ 4722/ 143 (C) | 50.086 | 0.001>> | 0.024 | 0.0 | 0.015 | -0.001 |
| 11/ 2/7/ 143 (C) | 50.741 | -0.000<< | -0.009 | 0.0 | 0.019 | -0.001 |
| 11/ 4722/ 139 (C) | 42.504 | 0.001 | 0.024>> | 0.0 | 0.016 | -0.001 |
| 11/ 2/7/ 139 (C) | 43.159 | -0.000 | -0.009<< | 0.0 | 0.019 | -0.001 |
| 11/ 4722/ 101 (C) | 20.355 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 11/ 4722/ 101 (C) | 20.355 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 11/ 2/7/ 139 (C) | 43.159 | -0.000 | -0.009 | 0.0 | 0.019>> | -0.001 |
| 11/ 2/7/ 108 (C) | 43.421 | 0.000 | 0.003 | 0.0 | -0.007<< | 0.000 |
| 11/ 2/7/ 112 (C) | 50.974 | 0.000 | 0.002 | 0.0 | -0.004 | 0.000>> |
| 11/ 2/7/ 143 (C) | 50.741 | -0.000 | -0.009 | 0.0 | 0.019 | -0.001<< |
| 12/ 4724/ 148 (C) | 70.662>> | 0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 12/ 4723/ 106 (C) | 21.108<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 12/ 4723/ 143 (C) | 54.016 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 12/ 4/7/ 143 (C) | 54.688 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 12/ 4723/ 139 (C) | 46.434 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 12/ 4/7/ 139 (C) | 47.106 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 12/ 4723/ 101 (C) | 24.285 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 12/ 4723/ 101 (C) | 24.285 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 12/ 2/7/ 139 (C) | 46.658 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 12/ 2/7/ 108 (C) | 46.920 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 12/ 2/7/ 112 (C) | 54.473 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 12/ 2/7/ 143 (C) | 54.240 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 13/ 4726/ 148 (C) | 66.403>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 13/ 4725/ 106 (C) | 13.026<< | -0.835 | 5.506 | 0.0 | -0.000 | 0.000 |
| 13/ 4725/ 117 (C) | 38.910 | 0.700>> | 1.075 | 0.0 | 0.000 | -0.000 |
| 13/ 4725/ 130 (C) | 36.672 | -0.868<< | 5.344 | 0.0 | -0.000 | 0.000 |
| 13/ 4725/ 140 (C) | 36.528 | -0.461 | 9.823>> | 0.0 | 0.000 | 0.000 |
| 13/ 4725/ 107 (C) | 39.054 | 0.293 | -3.405<< | 0.0 | 0.000 | -0.000 |
| 13/ 4725/ 101 (C) | 15.028 | -0.043 | -0.180 | 0.0>> | 0.000 | -0.000 |
| 13/ 4725/ 101 (C) | 15.028 | -0.043 | -0.180 | 0.0<< | 0.000 | -0.000 |
| 13/ 2/7/ 140 (C) | 37.562 | 0.063 | -1.337 | 0.0 | 6.908>> | 0.324 |
| 13/ 2/7/ 107 (C) | 40.088 | -0.040 | 0.464 | 0.0 | -2.394<< | -0.206 |
| 13/ 2/7/ 130 (C) | 37.706 | 0.118 | -0.727 | 0.0 | 3.758 | 0.610>> |
| 13/ 2/7/ 117 (C) | 39.944 | -0.095 | -0.146 | 0.0 | 0.756 | -0.492<< |
| 14/ 4727/ 148 (C) | 70.333>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 14/ 4726/ 106 (C) | 19.230<< | -0.002 | 0.014 | 0.0 | 0.009 | 0.001 |
| 14/ 4726/ 117 (C) | 45.115 | 0.002>> | 0.003 | 0.0 | 0.002 | -0.001 |
| 14/ 4726/ 130 (C) | 42.877 | -0.002<< | 0.013 | 0.0 | 0.009 | 0.001 |
| 14/ 4726/ 140 (C) | 42.732 | -0.001 | 0.024>> | 0.0 | 0.016 | 0.001 |
| 14/ 2/7/ 140 (C) | 43.387 | 0.000 | -0.009<< | 0.0 | 0.019 | 0.001 |
| 14/ 4726/ 101 (C) | 21.233 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 14/ 4726/ 101 (C) | 21.233 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 14/ 2/7/ 140 (C) | 43.387 | 0.000 | -0.009 | 0.0 | 0.019>> | 0.001 |
| 14/ 2/7/ 107 (C) | 45.914 | -0.000 | 0.003 | 0.0 | -0.007<< | -0.001 |
| 14/ 2/7/ 130 (C) | 43.532 | 0.001 | -0.005 | 0.0 | 0.010 | 0.002>> |
| 14/ 2/7/ 117 (C) | 45.770 | -0.001 | -0.001 | 0.0 | 0.002 | -0.001<< |
| 15/ 4728/ 148 (C) | 71.677>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 15/ 4727/ 106 (C) | 23.160<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 117 (C) | 49.045 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 15/ 4727/ 130 (C) | 46.807 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 140 (C) | 46.662 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 15/ 4/7/ 140 (C) | 47.334 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 101 (C) | 25.163 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 15/ 4727/ 101 (C) | 25.163 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 15/ 2/7/ 140 (C) | 46.886 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 15/ 2/7/ 107 (C) | 49.413 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 15/ 2/7/ 130 (C) | 47.031 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 15/ 2/7/ 117 (C) | 49.269 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 16/ 4730/ 153 (C) | 69.308>> | 0.001 | -0.005 | 0.0 | -0.003 | -0.001 |
| 16/ 4729/ 104 (C) | 17.523<< | -0.721 | 2.342 | 0.0 | 0.000 | -0.000 |
| 16/ 4729/ 117 (C) | 45.620 | 0.979>> | 1.105 | 0.0 | 0.000 | 0.000 |
| 16/ 4729/ 130 (C) | 40.739 | -1.646<< | 5.332 | 0.0 | -0.000 | -0.000 |
| 16/ 4729/ 140 (C) | 40.628 | -1.239 | 9.861>> | 0.0 | -0.000 | -0.000 |
| 16/ 4729/ 107 (C) | 45.730 | 0.572 | -3.424<< | 0.0 | 0.000 | -0.000 |
| 16/ 4729/ 101 (C) | 17.600 | -0.081 | -0.187 | 0.0>> | 0.000 | -0.000 |
| 16/ 4729/ 101 (C) | 17.600 | -0.081 | -0.187 | 0.0<< | 0.000 | -0.000 |
| 16/ 2/7/ 140 (C) | 41.662 | 0.169 | -1.343 | 0.0 | 6.934>> | 0.871 |
| 16/ 2/7/ 107 (C) | 46.765 | -0.078 | 0.466 | 0.0 | -2.408<< | -0.402 |
| 16/ 2/7/ 130 (C) | 41.773 | 0.224 | -0.726 | 0.0 | 3.750 | 1.157>> |
| 16/ 2/7/ 117 (C) | 46.654 | -0.133 | -0.150 | 0.0 | 0.777 | -0.688<< |
| 17/ 4731/ 153 (C) | 73.238>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 17/ 4730/ 104 (C) | 23.728<< | -0.002 | 0.006 | 0.0 | 0.004 | 0.001 |
| 17/ 4730/ 117 (C) | 51.824 | 0.002>> | 0.003 | 0.0 | 0.002 | -0.002 |
| 17/ 4730/ 130 (C) | 46.944 | -0.004<< | 0.013 | 0.0 | 0.009 | 0.003 |
| 17/ 4730/ 140 (C) | 46.833 | -0.003 | 0.024>> | 0.0 | 0.016 | 0.002 |
| 17/ 2/7/ 140 (C) | 47.488 | 0.001 | -0.009<< | 0.0 | 0.019 | 0.002 |
| 17/ 4730/ 101 (C) | 23.805 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 17/ 4730/ 101 (C) | 23.805 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 17/ 2/7/ 140 (C) | 47.488 | 0.001 | -0.009 | 0.0 | 0.019>> | 0.002 |
| 17/ 2/7/ 107 (C) | 52.590 | -0.001 | 0.003 | 0.0 | -0.007<< | -0.001 |
| 17/ 2/7/ 130 (C) | 47.599 | 0.002 | -0.005 | 0.0 | 0.010 | 0.003>> |
| 17/ 2/7/ 117 (C) | 52.479 | -0.001 | -0.001 | 0.0 | 0.002 | -0.002<< |
| 18/ 4732/ 153 (C) | 74.583>> | 0.000 | 0.000 | 0.0 | -0.000 | -0.000 |
| 18/ 4731/ 104 (C) | 27.658<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 18/ 4731/ 117 (C) | 55.754 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 18/ 4731/ 130 (C) | 50.874 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 18/ 4731/ 140 (C) | 50.763 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 18/ 4/7/ 140 (C) | 51.435 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 18/ 4731/ 101 (C) | 27.735 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 18/ 4731/ 101 (C) | 27.735 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 18/ 2/7/ 140 (C) | 50.987 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 18/ 2/7/ 107 (C) | 56.089 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 18/ 2/7/ 130 (C) | 51.098 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 18/ 2/7/ 117 (C) | 55.978 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 19/ 4734/ 134 (C) | 88.361>> | 0.003 | 0.007 | 0.0 | 0.005 | -0.002 |
| 19/ 4733/ 147 (C) | 26.979<< | 0.097 | -0.041 | 0.0 | 0.000 | 0.000 |
| 19/ 4733/ 140 (C) | 71.940 | 1.994>> | 8.135 | 0.0 | -0.000 | 0.000 |
| 19/ 4733/ 102 (C) | 29.215 | -0.551<< | -2.229 | 0.0 | 0.000 | 0.000 |
| 19/ 4733/ 143 (C) | 74.335 | 1.684 | 8.346>> | 0.0 | -0.000 | 0.000 |
| 19/ 4733/ 108 (C) | 71.838 | -0.502 | -2.288<< | 0.0 | 0.000 | 0.000 |
| 19/ 4733/ 101 (C) | 28.142 | 0.101 | -0.050 | 0.0>> | 0.000 | 0.000 |
| 19/ 4733/ 101 (C) | 28.142 | 0.101 | -0.050 | 0.0<< | 0.000 | 0.000 |
| 19/ 2/7/ 143 (C) | 75.369 | -0.229 | -1.136 | 0.0 | 5.869>> | -1.184 |
| 19/ 2/7/ 108 (C) | 72.872 | 0.068 | 0.311 | 0.0 | -1.609<< | 0.353 |
| 19/ 2/7/ 102 (C) | 30.249 | 0.075 | 0.303 | 0.0 | -1.568 | 0.387>> |
| 19/ 2/7/ 140 (C) | 72.975 | -0.271 | -1.108 | 0.0 | 5.721 | -1.402<< |
| 20/ 4735/ 134 (C) | 92.290>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 20/ 4734/ 147 (C) | 33.184<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 20/ 4734/ 140 (C) | 78.145 | 0.005>> | 0.020 | 0.0 | 0.013 | -0.003 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 20/ 2/7/ 140 (C) | 78.800 | -0.002<< | -0.008 | 0.0 | 0.016 | -0.004 |
| 20/ 4734/ 143 (C) | 80.540 | 0.004 | 0.021>> | 0.0 | 0.013 | -0.003 |
| 20/ 2/7/ 143 (C) | 81.195 | -0.002 | -0.008<< | 0.0 | 0.016 | -0.003 |
| 20/ 4734/ 101 (C) | 34.347 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 20/ 4734/ 101 (C) | 34.347 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 20/ 2/7/ 143 (C) | 81.195 | -0.002 | -0.008 | 0.0 | 0.016>> | -0.003 |
| 20/ 2/7/ 108 (C) | 78.698 | 0.000 | 0.002 | 0.0 | -0.004<< | 0.001 |
| 20/ 2/7/ 102 (C) | 36.075 | 0.001 | 0.002 | 0.0 | -0.004 | 0.001>> |
| 20/ 2/7/ 140 (C) | 78.800 | -0.002 | -0.008 | 0.0 | 0.016 | -0.004<< |
| 21/ 4736/ 134 (C) | 93.635>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 21/ 4735/ 147 (C) | 37.114<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 21/ 4735/ 140 (C) | 82.075 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 21/ 4/7/ 140 (C) | 82.747 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 21/ 4735/ 143 (C) | 84.469 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 21/ 4/7/ 143 (C) | 85.142 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 21/ 4735/ 101 (C) | 38.277 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 21/ 4735/ 101 (C) | 38.277 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 21/ 2/7/ 143 (C) | 84.693 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 21/ 2/7/ 108 (C) | 82.197 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 21/ 2/7/ 102 (C) | 39.574 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 21/ 2/7/ 140 (C) | 82.299 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 22/ 4738/ 136 (C) | 78.972>> | 0.001 | 0.004 | 0.0 | 0.003 | -0.001 |
| 22/ 4737/ 102 (C) | 21.869<< | -0.288 | -2.223 | 0.0 | 0.000 | -0.000 |
| 22/ 4737/ 140 (C) | 60.287 | 1.161>> | 8.198 | 0.0 | -0.000 | 0.000 |
| 22/ 4737/ 102 (C) | 21.869 | -0.288<< | -2.223 | 0.0 | 0.000 | -0.000 |
| 22/ 4737/ 143 (C) | 67.530 | 1.048 | 8.418>> | 0.0 | -0.000 | 0.000 |
| 22/ 4737/ 108 (C) | 60.086 | -0.265 | -2.276<< | 0.0 | 0.000 | -0.000 |
| 22/ 4737/ 101 (C) | 24.934 | 0.054 | -0.047 | 0.0>> | -0.000 | 0.000 |
| 22/ 4737/ 101 (C) | 24.934 | 0.054 | -0.047 | 0.0<< | -0.000 | 0.000 |
| 22/ 2/7/ 143 (C) | 68.564 | -0.143 | -1.146 | 0.0 | 5.920>> | -0.737 |
| 22/ 2/7/ 108 (C) | 61.120 | 0.036 | 0.310 | 0.0 | -1.601<< | 0.186 |
| 22/ 2/7/ 102 (C) | 22.903 | 0.039 | 0.303 | 0.0 | -1.563 | 0.203>> |
| 22/ 2/7/ 140 (C) | 61.321 | -0.158 | -1.116 | 0.0 | 5.765 | -0.817<< |
| 23/ 4739/ 136 (C) | 82.962>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 23/ 4738/ 102 (C) | 28.074<< | -0.001 | -0.005 | 0.0 | -0.004 | 0.000 |
| 23/ 4738/ 140 (C) | 66.492 | 0.003>> | 0.020 | 0.0 | 0.013 | -0.002 |
| 23/ 2/7/ 140 (C) | 67.147 | -0.001<< | -0.008 | 0.0 | 0.016 | -0.002 |
| 23/ 4738/ 143 (C) | 73.735 | 0.003 | 0.021>> | 0.0 | 0.014 | -0.002 |
| 23/ 2/7/ 143 (C) | 74.390 | -0.001 | -0.008<< | 0.0 | 0.016 | -0.002 |
| 23/ 4738/ 101 (C) | 31.139 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 23/ 4738/ 101 (C) | 31.139 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 23/ 2/7/ 143 (C) | 74.390 | -0.001 | -0.008 | 0.0 | 0.016>> | -0.002 |
| 23/ 2/7/ 108 (C) | 66.946 | 0.000 | 0.002 | 0.0 | -0.004<< | 0.001 |
| 23/ 2/7/ 102 (C) | 28.729 | 0.000 | 0.002 | 0.0 | -0.004 | 0.001>> |
| 23/ 2/7/ 140 (C) | 67.147 | -0.001 | -0.008 | 0.0 | 0.016 | -0.002<< |
| 24/ 4740/ 136 (C) | 84.246>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 24/ 4739/ 102 (C) | 32.003<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 24/ 4739/ 140 (C) | 70.422 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 24/ 4/7/ 140 (C) | 71.094 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 24/ 4739/ 143 (C) | 77.665 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 24/ 4/7/ 143 (C) | 78.337 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 24/ 4739/ 101 (C) | 35.069 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 24/ 4739/ 101 (C) | 35.069 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 24/ 2/7/ 143 (C) | 77.889 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 24/ 2/7/ 108 (C) | 70.444 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 24/ 2/7/ 102 (C) | 32.227 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 24/ 2/7/ 140 (C) | 70.646 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 25/ 4742/ 145 (C) | 73.827>> | 0.001 | 0.018 | 0.0 | 0.012 | -0.001 |
| 25/ 4741/ 102 (C) | 19.398<< | -0.000 | -2.222 | 0.0 | 0.000 | -0.000 |
| 25/ 4741/ 143 (C) | 65.057 | 0.353>> | 8.496 | 0.0 | -0.000 | 0.000 |
| 25/ 3/7/ 143 (C) | 67.125 | -0.057<< | -1.381 | 0.0 | 1.969 | -0.082 |
| 25/ 4741/ 144 (C) | 64.978 | 0.336 | 8.496>> | 0.0 | -0.000 | 0.000 |
| 25/ 4741/ 107 (C) | 54.357 | -0.000 | -2.271<< | 0.0 | 0.000 | -0.000 |
| 25/ 4741/ 101 (C) | 23.852 | 0.000 | -0.045 | 0.0>> | 0.000 | 0.000 |
| 25/ 4741/ 101 (C) | 23.852 | 0.000 | -0.045 | 0.0<< | 0.000 | 0.000 |
| 25/ 2/7/ 144 (C) | 66.012 | -0.046 | -1.157 | 0.0 | 5.974>> | -0.236 |
| 25/ 2/7/ 107 (C) | 55.391 | 0.000 | 0.309 | 0.0 | -1.597<< | 0.000 |
| 25/ 2/7/ 112 (C) | 65.833 | 0.002 | 0.192 | 0.0 | -0.994 | 0.012>> |
| 25/ 2/7/ 143 (C) | 66.091 | -0.048 | -1.157 | 0.0 | 5.974 | -0.248<< |
| 26/ 4743/ 145 (C) | 77.757>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 26/ 4742/ 102 (C) | 25.603<< | -0.000 | -0.005 | 0.0 | -0.004 | 0.000 |
| 26/ 4742/ 143 (C) | 71.261 | 0.001>> | 0.021 | 0.0 | 0.014 | -0.001 |
| 26/ 2/7/ 143 (C) | 71.916 | -0.000<< | -0.008 | 0.0 | 0.017 | -0.001 |
| 26/ 4742/ 144 (C) | 71.183 | 0.001 | 0.021>> | 0.0 | 0.014 | -0.001 |
| 26/ 2/7/ 144 (C) | 71.837 | -0.000 | -0.008<< | 0.0 | 0.017 | -0.001 |
| 26/ 4742/ 101 (C) | 30.057 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 26/ 4742/ 101 (C) | 30.057 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 26/ 2/7/ 144 (C) | 71.837 | -0.000 | -0.008 | 0.0 | 0.017>> | -0.001 |
| 26/ 2/7/ 107 (C) | 61.217 | 0.000 | 0.002 | 0.0 | -0.004<< | 0.000 |
| 26/ 2/7/ 112 (C) | 71.658 | 0.000 | 0.001 | 0.0 | -0.003 | 0.000>> |
| 26/ 2/7/ 143 (C) | 71.916 | -0.000 | -0.008 | 0.0 | 0.017 | -0.001<< |
| 27/ 4744/ 145 (C) | 79.101>> | 0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 27/ 4743/ 102 (C) | 29.533<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 27/ 4743/ 143 (C) | 75.191 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 27/ 4/7/ 143 (C) | 75.863 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 27/ 4743/ 144 (C) | 75.112 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 27/ 4/7/ 144 (C) | 75.785 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 27/ 4743/ 101 (C) | 33.986 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 27/ 4743/ 101 (C) | 33.986 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 27/ 2/7/ 144 (C) | 75.336 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 27/ 2/7/ 107 (C) | 64.715 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 27/ 2/7/ 112 (C) | 75.157 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 27/ 2/7/ 143 (C) | 75.415 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 28/ 4746/ 145 (C) | 75.523>> | -0.000 | 0.018 | 0.0 | 0.012 | 0.000 |
| 28/ 4745/ 102 (C) | 21.869<< | 0.288 | -2.223 | 0.0 | 0.000 | 0.000 |
| 28/ 4745/ 117 (C) | 57.326 | 0.548>> | 2.208 | 0.0 | 0.000 | 0.000 |
| 28/ 4745/ 130 (C) | 54.661 | -0.880<< | 3.831 | 0.0 | -0.000 | 0.000 |
| 28/ 4745/ 144 (C) | 63.995 | -0.346 | 8.558>> | 0.0 | -0.000 | 0.000 |
| 28/ 4745/ 107 (C) | 57.307 | 0.266 | -2.273<< | 0.0 | 0.000 | -0.000 |
| 28/ 4745/ 101 (C) | 24.934 | -0.054 | -0.047 | 0.0>> | -0.000 | 0.000 |
| 28/ 4745/ 101 (C) | 24.934 | -0.054 | -0.047 | 0.0<< | -0.000 | 0.000 |
| 28/ 2/7/ 144 (C) | 65.029 | 0.047 | -1.165 | 0.0 | 6.018>> | 0.243 |
| 28/ 2/7/ 107 (C) | 58.342 | -0.036 | 0.309 | 0.0 | -1.598<< | -0.187 |
| 28/ 2/7/ 130 (C) | 55.695 | 0.120 | -0.522 | 0.0 | 2.694 | 0.619>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 28/ 2/7/ 117 (C) | 58.361 | -0.075 | -0.301 | 0.0 | 1.553 | -0.385<< |
| 29/ 4747/ 145 (C) | 79.453>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 29/ 4746/ 102 (C) | 28.074<< | 0.001 | -0.005 | 0.0 | -0.004 | -0.000 |
| 29/ 4746/ 117 (C) | 63.531 | 0.001>> | 0.005 | 0.0 | 0.004 | -0.001 |
| 29/ 4746/ 130 (C) | 60.866 | -0.002<< | 0.009 | 0.0 | 0.006 | 0.001 |
| 29/ 4746/ 144 (C) | 70.199 | -0.001 | 0.021>> | 0.0 | 0.014 | 0.001 |
| 29/ 2/7/ 144 (C) | 70.854 | 0.000 | -0.008<< | 0.0 | 0.017 | 0.001 |
| 29/ 4746/ 101 (C) | 31.139 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 29/ 4746/ 101 (C) | 31.139 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 29/ 2/7/ 144 (C) | 70.854 | 0.000 | -0.008 | 0.0 | 0.017>> | 0.001 |
| 29/ 2/7/ 107 (C) | 64.167 | -0.000 | 0.002 | 0.0 | -0.004<< | -0.001 |
| 29/ 2/7/ 130 (C) | 61.521 | 0.001 | -0.004 | 0.0 | 0.007 | 0.002>> |
| 29/ 2/7/ 117 (C) | 64.186 | -0.001 | -0.002 | 0.0 | 0.004 | -0.001<< |
| 30/ 4748/ 145 (C) | 80.797>> | -0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 30/ 4747/ 102 (C) | 32.003<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 30/ 4747/ 117 (C) | 67.461 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 30/ 4747/ 130 (C) | 64.796 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 30/ 4747/ 144 (C) | 74.129 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 30/ 4/7/ 144 (C) | 74.801 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 30/ 4747/ 101 (C) | 35.069 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 30/ 4747/ 101 (C) | 35.069 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 30/ 2/7/ 144 (C) | 74.353 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 30/ 2/7/ 107 (C) | 67.666 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 30/ 2/7/ 130 (C) | 65.020 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 30/ 2/7/ 117 (C) | 67.685 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 31/ 4750/ 143 (C) | 80.626>> | -0.002 | 0.021 | 0.0 | 0.014 | 0.002 |
| 31/ 4749/ 149 (C) | 26.863<< | -0.103 | -0.033 | 0.0 | 0.000 | -0.000 |
| 31/ 4749/ 118 (C) | 59.615 | 0.812>> | 2.255 | 0.0 | -0.000 | -0.000 |
| 31/ 4749/ 129 (C) | 65.733 | -1.692<< | 3.819 | 0.0 | -0.000 | -0.000 |
| 31/ 4749/ 144 (C) | 66.878 | -0.967 | 8.614>> | 0.0 | -0.000 | -0.000 |
| 31/ 4749/ 107 (C) | 65.606 | 0.521 | -2.282<< | 0.0 | 0.000 | -0.000 |
| 31/ 4749/ 101 (C) | 28.142 | -0.101 | -0.050 | 0.0>> | 0.000 | -0.000 |
| 31/ 4749/ 101 (C) | 28.142 | -0.101 | -0.050 | 0.0<< | 0.000 | -0.000 |
| 31/ 2/7/ 144 (C) | 67.912 | 0.132 | -1.173 | 0.0 | 6.057>> | 0.680 |
| 31/ 2/7/ 107 (C) | 66.640 | -0.071 | 0.311 | 0.0 | -1.605<< | -0.366 |
| 31/ 2/7/ 129 (C) | 66.767 | 0.230 | -0.520 | 0.0 | 2.686 | 1.190>> |
| 31/ 2/7/ 118 (C) | 60.649 | -0.111 | -0.307 | 0.0 | 1.585 | -0.571<< |
| 32/ 4751/ 143 (C) | 84.556>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 32/ 4750/ 149 (C) | 33.068<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 32/ 4750/ 118 (C) | 65.820 | 0.002>> | 0.006 | 0.0 | 0.004 | -0.001 |
| 32/ 4750/ 129 (C) | 71.938 | -0.004<< | 0.009 | 0.0 | 0.006 | 0.003 |
| 32/ 4750/ 144 (C) | 73.082 | -0.002 | 0.021>> | 0.0 | 0.014 | 0.002 |
| 32/ 2/7/ 144 (C) | 73.737 | 0.001 | -0.008<< | 0.0 | 0.017 | 0.002 |
| 32/ 4750/ 101 (C) | 34.347 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 32/ 4750/ 101 (C) | 34.347 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 32/ 2/7/ 144 (C) | 73.737 | 0.001 | -0.008 | 0.0 | 0.017>> | 0.002 |
| 32/ 2/7/ 107 (C) | 72.466 | -0.000 | 0.002 | 0.0 | -0.004<< | -0.001 |
| 32/ 2/7/ 129 (C) | 72.593 | 0.002 | -0.004 | 0.0 | 0.007 | 0.003>> |
| 32/ 2/7/ 118 (C) | 66.475 | -0.001 | -0.002 | 0.0 | 0.004 | -0.002<< |
| 33/ 4752/ 143 (C) | 85.900>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 33/ 4751/ 149 (C) | 36.997<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 33/ 4751/ 118 (C) | 69.750 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |



ROBOT v 17.0.1
Autor :
Dirección :

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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 33/ 4751/ 129 (C) | 75.868 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 33/ 4751/ 144 (C) | 77.012 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 33/ 4/7/ 144 (C) | 77.684 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 33/ 4751/ 101 (C) | 38.277 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 33/ 4751/ 101 (C) | 38.277 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 33/ 2/7/ 144 (C) | 77.236 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 33/ 2/7/ 107 (C) | 75.964 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 33/ 2/7/ 129 (C) | 76.092 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 33/ 2/7/ 118 (C) | 69.974 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 34/ 4754/ 134 (C) | 88.081>> | 0.003 | 0.004 | 0.0 | 0.003 | -0.002 |
| 34/ 4753/ 147 (C) | 24.387<< | 0.094 | 0.024 | 0.0 | -0.000 | -0.000 |
| 34/ 4753/ 140 (C) | 72.471 | 1.884>> | 6.593 | 0.0 | -0.000 | 0.000 |
| 34/ 4753/ 102 (C) | 30.321 | -0.543<< | -1.223 | 0.0 | 0.000 | -0.000 |
| 34/ 4753/ 144 (C) | 81.843 | 1.566 | 7.191>> | 0.0 | -0.000 | 0.000 |
| 34/ 4753/ 102 (C) | 30.321 | -0.543 | -1.223<< | 0.0 | 0.000 | -0.000 |
| 34/ 4753/ 101 (C) | 27.602 | 0.101 | 0.019 | 0.0>> | -0.000 | 0.000 |
| 34/ 4753/ 101 (C) | 27.602 | 0.101 | 0.019 | 0.0<< | -0.000 | 0.000 |
| 34/ 2/7/ 144 (C) | 82.877 | -0.213 | -0.979 | 0.0 | 5.057>> | -1.101 |
| 34/ 2/7/ 102 (C) | 31.355 | 0.074 | 0.167 | 0.0 | -0.860<< | 0.382 |
| 34/ 2/7/ 102 (C) | 31.355 | 0.074 | 0.167 | 0.0 | -0.860 | 0.382>> |
| 34/ 2/7/ 140 (C) | 73.505 | -0.256 | -0.898 | 0.0 | 4.636 | -1.325<< |
| 35/ 4755/ 134 (C) | 92.011>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 35/ 4754/ 147 (C) | 30.592<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 35/ 4754/ 140 (C) | 78.676 | 0.005>> | 0.016 | 0.0 | 0.011 | -0.003 |
| 35/ 2/7/ 140 (C) | 79.331 | -0.002<< | -0.006 | 0.0 | 0.013 | -0.004 |
| 35/ 4754/ 144 (C) | 88.048 | 0.004 | 0.018>> | 0.0 | 0.012 | -0.003 |
| 35/ 2/7/ 144 (C) | 88.703 | -0.001 | -0.007<< | 0.0 | 0.014 | -0.003 |
| 35/ 4754/ 101 (C) | 33.807 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 35/ 4754/ 101 (C) | 33.807 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 35/ 2/7/ 144 (C) | 88.703 | -0.001 | -0.007 | 0.0 | 0.014>> | -0.003 |
| 35/ 2/7/ 102 (C) | 37.181 | 0.001 | 0.001 | 0.0 | -0.002<< | 0.001 |
| 35/ 2/7/ 102 (C) | 37.181 | 0.001 | 0.001 | 0.0 | -0.002 | 0.001>> |
| 35/ 2/7/ 140 (C) | 79.331 | -0.002 | -0.006 | 0.0 | 0.013 | -0.004<< |
| 36/ 4756/ 134 (C) | 93.355>> | 0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 147 (C) | 34.522<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 140 (C) | 82.606 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4/7/ 140 (C) | 83.278 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 144 (C) | 91.977 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 36/ 4/7/ 144 (C) | 92.650 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 101 (C) | 37.737 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 36/ 4755/ 101 (C) | 37.737 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 36/ 2/7/ 144 (C) | 92.201 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 36/ 2/7/ 102 (C) | 40.680 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 36/ 2/7/ 102 (C) | 40.680 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 36/ 2/7/ 140 (C) | 82.830 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 37/ 4758/ 136 (C) | 77.424>> | 0.001 | 0.003 | 0.0 | 0.002 | -0.001 |
| 37/ 4757/ 151 (C) | 20.335<< | -0.151 | -0.722 | 0.0 | 0.000 | -0.000 |
| 37/ 4757/ 140 (C) | 60.361 | 1.049>> | 6.642 | 0.0 | -0.000 | 0.000 |
| 37/ 4757/ 102 (C) | 22.697 | -0.284<< | -1.224 | 0.0 | 0.000 | -0.000 |
| 37/ 4757/ 144 (C) | 70.308 | 0.906 | 7.252>> | 0.0 | -0.000 | 0.000 |
| 37/ 4757/ 102 (C) | 22.697 | -0.284 | -1.224<< | 0.0 | 0.000 | -0.000 |
| 37/ 4757/ 101 (C) | 24.350 | 0.055 | 0.018 | 0.0>> | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 37/ 4757/ 101 (C) | 24.350 | 0.055 | 0.018 | 0.0<< | -0.000 | 0.000 |
| 37/ 2/7/ 144 (C) | 71.342 | -0.123 | -0.987 | 0.0 | 5.099>> | -0.637 |
| 37/ 2/7/ 102 (C) | 23.731 | 0.039 | 0.167 | 0.0 | -0.861<< | 0.199 |
| 37/ 2/7/ 102 (C) | 23.731 | 0.039 | 0.167 | 0.0 | -0.861 | 0.199>> |
| 37/ 2/7/ 140 (C) | 61.395 | -0.143 | -0.904 | 0.0 | 4.670 | -0.738<< |
| 38/ 4759/ 136 (C) | 81.354>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 38/ 4758/ 151 (C) | 26.540<< | -0.000 | -0.002 | 0.0 | -0.001 | 0.000 |
| 38/ 4758/ 140 (C) | 66.566 | 0.003>> | 0.016 | 0.0 | 0.011 | -0.002 |
| 38/ 2/7/ 140 (C) | 67.221 | -0.001<< | -0.006 | 0.0 | 0.013 | -0.002 |
| 38/ 4758/ 144 (C) | 76.513 | 0.002 | 0.018>> | 0.0 | 0.012 | -0.001 |
| 38/ 2/7/ 144 (C) | 77.168 | -0.001 | -0.007<< | 0.0 | 0.014 | -0.002 |
| 38/ 4758/ 101 (C) | 30.555 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 38/ 4758/ 101 (C) | 30.555 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 38/ 2/7/ 144 (C) | 77.168 | -0.001 | -0.007 | 0.0 | 0.014>> | -0.002 |
| 38/ 2/7/ 102 (C) | 29.557 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.001 |
| 38/ 2/7/ 102 (C) | 29.557 | 0.000 | 0.001 | 0.0 | -0.002 | 0.001>> |
| 38/ 2/7/ 140 (C) | 67.221 | -0.001 | -0.006 | 0.0 | 0.013 | -0.002<< |
| 39/ 4760/ 136 (C) | 82.699>> | -0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 39/ 4759/ 151 (C) | 30.470<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 39/ 4759/ 140 (C) | 70.496 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 39/ 4/7/ 140 (C) | 71.168 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 39/ 4759/ 144 (C) | 80.443 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 39/ 4/7/ 144 (C) | 81.115 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 39/ 4759/ 101 (C) | 34.484 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 39/ 4759/ 101 (C) | 34.484 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 39/ 2/7/ 144 (C) | 80.667 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 39/ 2/7/ 102 (C) | 33.056 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 39/ 2/7/ 102 (C) | 33.056 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 39/ 2/7/ 140 (C) | 70.720 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 40/ 4762/ 135 (C) | 72.053>> | 0.000 | 0.003 | 0.0 | 0.002 | -0.000 |
| 40/ 4761/ 155 (C) | 18.381<< | -0.011 | -0.722 | 0.0 | 0.000 | -0.000 |
| 40/ 4761/ 143 (C) | 64.086 | 0.199>> | 7.323 | 0.0 | -0.000 | -0.000 |
| 40/ 3/7/ 143 (C) | 66.155 | -0.032<< | -1.191 | 0.0 | 1.697 | -0.046 |
| 40/ 4761/ 144 (C) | 64.001 | 0.187 | 7.323>> | 0.0 | -0.000 | 0.000 |
| 40/ 4761/ 102 (C) | 20.118 | -0.000 | -1.225<< | 0.0 | 0.000 | -0.000 |
| 40/ 4761/ 101 (C) | 23.233 | 0.000 | 0.017 | 0.0>> | -0.000 | 0.000 |
| 40/ 4761/ 101 (C) | 23.233 | 0.000 | 0.017 | 0.0<< | -0.000 | 0.000 |
| 40/ 2/7/ 144 (C) | 65.035 | -0.025 | -0.997 | 0.0 | 5.150>> | -0.131 |
| 40/ 2/7/ 102 (C) | 21.152 | 0.000 | 0.167 | 0.0 | -0.862<< | 0.000 |
| 40/ 2/7/ 157 (C) | 24.101 | 0.002 | 0.095 | 0.0 | -0.492 | 0.011>> |
| 40/ 2/7/ 143 (C) | 65.120 | -0.027 | -0.997 | 0.0 | 5.150 | -0.140<< |
| 41/ 4763/ 135 (C) | 75.983>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 41/ 4762/ 155 (C) | 24.586<< | -0.000 | -0.002 | 0.0 | -0.001 | 0.000 |
| 41/ 4762/ 143 (C) | 70.291 | 0.000>> | 0.018 | 0.0 | 0.012 | -0.000 |
| 41/ 2/7/ 143 (C) | 70.946 | -0.000<< | -0.007 | 0.0 | 0.014 | -0.000 |
| 41/ 4762/ 144 (C) | 70.205 | 0.000 | 0.018>> | 0.0 | 0.012 | -0.000 |
| 41/ 2/7/ 144 (C) | 70.860 | -0.000 | -0.007<< | 0.0 | 0.014 | -0.000 |
| 41/ 4762/ 101 (C) | 29.438 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 41/ 4762/ 101 (C) | 29.438 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 41/ 2/7/ 144 (C) | 70.860 | -0.000 | -0.007 | 0.0 | 0.014>> | -0.000 |
| 41/ 2/7/ 102 (C) | 26.977 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.000 |
| 41/ 2/7/ 157 (C) | 29.926 | 0.000 | 0.001 | 0.0 | -0.001 | 0.000>> |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 41/ 2/7/ 143 (C) | 70.946 | -0.000 | -0.007 | 0.0 | 0.014 | -0.000<< |
| 42/ 4764/ 135 (C) | 77.327>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 42/ 4763/ 155 (C) | 28.516<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 42/ 4763/ 143 (C) | 74.221 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 42/ 4/7/ 143 (C) | 74.893 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 42/ 4763/ 144 (C) | 74.135 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 42/ 4/7/ 144 (C) | 74.807 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 42/ 4763/ 101 (C) | 33.368 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 42/ 4763/ 101 (C) | 33.368 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 42/ 2/7/ 144 (C) | 74.359 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 42/ 2/7/ 102 (C) | 30.476 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 42/ 2/7/ 157 (C) | 33.425 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 42/ 2/7/ 143 (C) | 74.445 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 43/ 4766/ 145 (C) | 73.805>> | -0.001 | 0.016 | 0.0 | 0.011 | 0.000 |
| 43/ 4765/ 155 (C) | 20.144<< | 0.141 | -0.717 | 0.0 | 0.000 | 0.000 |
| 43/ 4765/ 118 (C) | 54.249 | 0.421>> | 3.279 | 0.0 | -0.000 | -0.000 |
| 43/ 4765/ 129 (C) | 57.482 | -0.884<< | 2.267 | 0.0 | -0.000 | -0.000 |
| 43/ 4765/ 143 (C) | 66.712 | -0.501 | 7.385>> | 0.0 | -0.000 | -0.000 |
| 43/ 4765/ 102 (C) | 22.697 | 0.284 | -1.224<< | 0.0 | 0.000 | 0.000 |
| 43/ 4765/ 101 (C) | 24.350 | -0.055 | 0.018 | 0.0>> | -0.000 | 0.000 |
| 43/ 4765/ 101 (C) | 24.350 | -0.055 | 0.018 | 0.0<< | -0.000 | 0.000 |
| 43/ 2/7/ 143 (C) | 67.746 | 0.068 | -1.005 | 0.0 | 5.193>> | 0.353 |
| 43/ 2/7/ 102 (C) | 23.731 | -0.039 | 0.167 | 0.0 | -0.861<< | -0.199 |
| 43/ 2/7/ 129 (C) | 58.517 | 0.120 | -0.309 | 0.0 | 1.594 | 0.622>> |
| 43/ 2/7/ 118 (C) | 55.283 | -0.057 | -0.446 | 0.0 | 2.306 | -0.296<< |
| 44/ 4767/ 145 (C) | 77.735>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 44/ 4766/ 155 (C) | 26.349<< | 0.000 | -0.002 | 0.0 | -0.001 | -0.000 |
| 44/ 4766/ 118 (C) | 60.454 | 0.001>> | 0.008 | 0.0 | 0.005 | -0.001 |
| 44/ 4766/ 129 (C) | 63.687 | -0.002<< | 0.006 | 0.0 | 0.004 | 0.001 |
| 44/ 4766/ 143 (C) | 72.917 | -0.001 | 0.018>> | 0.0 | 0.012 | 0.001 |
| 44/ 2/7/ 143 (C) | 73.572 | 0.000 | -0.007<< | 0.0 | 0.014 | 0.001 |
| 44/ 4766/ 101 (C) | 30.555 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 44/ 4766/ 101 (C) | 30.555 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 44/ 2/7/ 143 (C) | 73.572 | 0.000 | -0.007 | 0.0 | 0.014>> | 0.001 |
| 44/ 2/7/ 102 (C) | 29.557 | -0.000 | 0.001 | 0.0 | -0.002<< | -0.001 |
| 44/ 2/7/ 129 (C) | 64.342 | 0.001 | -0.002 | 0.0 | 0.004 | 0.002>> |
| 44/ 2/7/ 118 (C) | 61.109 | -0.000 | -0.003 | 0.0 | 0.006 | -0.001<< |
| 45/ 4768/ 145 (C) | 79.079>> | 0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 45/ 4767/ 155 (C) | 30.279<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 45/ 4767/ 118 (C) | 64.384 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 45/ 4767/ 129 (C) | 67.617 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 45/ 4767/ 143 (C) | 76.847 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 45/ 4/7/ 143 (C) | 77.519 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 45/ 4767/ 101 (C) | 34.484 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 45/ 4767/ 101 (C) | 34.484 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 45/ 2/7/ 143 (C) | 77.071 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 45/ 2/7/ 102 (C) | 33.056 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 45/ 2/7/ 129 (C) | 67.841 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 45/ 2/7/ 118 (C) | 64.608 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 46/ 4770/ 143 (C) | 79.992>> | -0.003 | 0.018 | 0.0 | 0.012 | 0.002 |
| 46/ 4769/ 149 (C) | 23.974<< | -0.103 | 0.034 | 0.0 | -0.000 | 0.000 |
| 46/ 4769/ 118 (C) | 59.573 | 0.687>> | 3.328 | 0.0 | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 46/ 4769/ 129 (C) | 66.010 | -1.701<< | 2.268 | 0.0 | -0.000 | -0.000 |
| 46/ 4769/ 143 (C) | 73.787 | -1.138 | 7.447>> | 0.0 | -0.000 | -0.000 |
| 46/ 4769/ 102 (C) | 30.321 | 0.543 | -1.223<< | 0.0 | 0.000 | 0.000 |
| 46/ 4769/ 101 (C) | 27.602 | -0.101 | 0.019 | 0.0>> | -0.000 | -0.000 |
| 46/ 4769/ 101 (C) | 27.602 | -0.101 | 0.019 | 0.0<< | -0.000 | -0.000 |
| 46/ 2/7/ 143 (C) | 74.821 | 0.155 | -1.014 | 0.0 | 5.237>> | 0.800 |
| 46/ 2/7/ 102 (C) | 31.355 | -0.074 | 0.167 | 0.0 | -0.860<< | -0.382 |
| 46/ 2/7/ 129 (C) | 67.044 | 0.232 | -0.309 | 0.0 | 1.595 | 1.196>> |
| 46/ 2/7/ 118 (C) | 60.607 | -0.094 | -0.453 | 0.0 | 2.341 | -0.483<< |
| 47/ 4771/ 143 (C) | 83.922>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 47/ 4770/ 149 (C) | 30.179<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 47/ 4770/ 118 (C) | 65.778 | 0.002>> | 0.008 | 0.0 | 0.005 | -0.001 |
| 47/ 4770/ 129 (C) | 72.215 | -0.004<< | 0.006 | 0.0 | 0.004 | 0.003 |
| 47/ 4770/ 143 (C) | 79.992 | -0.003 | 0.018>> | 0.0 | 0.012 | 0.002 |
| 47/ 2/7/ 143 (C) | 80.647 | 0.001 | -0.007<< | 0.0 | 0.015 | 0.002 |
| 47/ 4770/ 101 (C) | 33.807 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 47/ 4770/ 101 (C) | 33.807 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 47/ 2/7/ 143 (C) | 80.647 | 0.001 | -0.007 | 0.0 | 0.015>> | 0.002 |
| 47/ 2/7/ 102 (C) | 37.181 | -0.001 | 0.001 | 0.0 | -0.002<< | -0.001 |
| 47/ 2/7/ 129 (C) | 72.870 | 0.002 | -0.002 | 0.0 | 0.004 | 0.003>> |
| 47/ 2/7/ 118 (C) | 66.433 | -0.001 | -0.003 | 0.0 | 0.007 | -0.001<< |
| 48/ 4772/ 143 (C) | 85.266>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 149 (C) | 34.109<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4/7/ 129 (C) | 76.817 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 129 (C) | 76.145 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 143 (C) | 83.922 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 48/ 4/7/ 143 (C) | 84.594 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 101 (C) | 37.737 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 48/ 4771/ 101 (C) | 37.737 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 48/ 2/7/ 143 (C) | 84.146 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 48/ 2/7/ 102 (C) | 40.680 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 48/ 2/7/ 129 (C) | 76.369 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 48/ 2/7/ 118 (C) | 69.932 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 49/ 4774/ 134 (C) | 77.812>> | 0.003 | 0.001 | 0.0 | 0.001 | -0.002 |
| 49/ 4773/ 148 (C) | 22.186<< | 0.088 | -0.055 | 0.0 | 0.000 | 0.000 |
| 49/ 4773/ 140 (C) | 63.815 | 1.748>> | 4.895 | 0.0 | -0.000 | 0.000 |
| 49/ 4773/ 102 (C) | 27.254 | -0.552<< | -0.285 | 0.0 | 0.000 | -0.000 |
| 49/ 4773/ 144 (C) | 71.552 | 1.399 | 5.860>> | 0.0 | -0.000 | 0.000 |
| 49/ 3/7/ 144 (C) | 73.621 | -0.227 | -0.953<< | 0.0 | 1.358 | -0.324 |
| 49/ 4773/ 101 (C) | 23.863 | 0.095 | 0.005 | 0.0>> | -0.000 | 0.000 |
| 49/ 4773/ 101 (C) | 23.863 | 0.095 | 0.005 | 0.0<< | -0.000 | 0.000 |
| 49/ 2/7/ 144 (C) | 72.587 | -0.190 | -0.798 | 0.0 | 4.121>> | -0.984 |
| 49/ 2/7/ 155 (C) | 28.402 | 0.039 | 0.042 | 0.0 | -0.216<< | 0.203 |
| 49/ 2/7/ 102 (C) | 28.288 | 0.075 | 0.039 | 0.0 | -0.201 | 0.388>> |
| 49/ 2/7/ 140 (C) | 64.849 | -0.238 | -0.666 | 0.0 | 3.442 | -1.229<< |
| 50/ 4775/ 134 (C) | 81.741>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 50/ 4774/ 148 (C) | 28.391<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 50/ 4774/ 140 (C) | 70.020 | 0.004>> | 0.012 | 0.0 | 0.008 | -0.003 |
| 50/ 2/7/ 140 (C) | 70.675 | -0.002<< | -0.005 | 0.0 | 0.010 | -0.003 |
| 50/ 4774/ 144 (C) | 77.757 | 0.003 | 0.014>> | 0.0 | 0.009 | -0.002 |
| 50/ 2/7/ 144 (C) | 78.412 | -0.001 | -0.006<< | 0.0 | 0.011 | -0.003 |
| 50/ 4774/ 101 (C) | 30.068 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 50/ 4774/ 101 (C) | 30.068 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 50/ 2/7/ 144 (C) | 78.412 | -0.001 | -0.006 | 0.0 | 0.011>> | -0.003 |
| 50/ 2/7/ 155 (C) | 34.228 | 0.000 | 0.000 | 0.0 | -0.001<< | 0.001 |
| 50/ 2/7/ 102 (C) | 34.114 | 0.001 | 0.000 | 0.0 | -0.001 | 0.001>> |
| 50/ 2/7/ 140 (C) | 70.675 | -0.002 | -0.005 | 0.0 | 0.010 | -0.003<< |
| 51/ 4776/ 134 (C) | 83.086>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 51/ 4775/ 148 (C) | 32.321<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 51/ 4775/ 140 (C) | 73.950 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 51/ 4/7/ 140 (C) | 74.622 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 51/ 4775/ 144 (C) | 81.687 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 51/ 4/7/ 144 (C) | 82.359 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 51/ 4775/ 101 (C) | 33.998 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 51/ 4775/ 101 (C) | 33.998 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 51/ 2/7/ 144 (C) | 81.911 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 51/ 2/7/ 155 (C) | 37.727 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 51/ 2/7/ 102 (C) | 37.613 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 51/ 2/7/ 140 (C) | 74.174 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 52/ 4778/ 136 (C) | 67.125>> | 0.001 | 0.001 | 0.0 | 0.000 | -0.001 |
| 52/ 4777/ 153 (C) | 18.742<< | -0.154 | -0.232 | 0.0 | 0.000 | 0.000 |
| 52/ 4777/ 140 (C) | 52.095 | 0.920>> | 4.943 | 0.0 | -0.000 | 0.000 |
| 52/ 4777/ 102 (C) | 19.878 | -0.287<< | -0.289 | 0.0 | 0.000 | 0.000 |
| 52/ 4777/ 144 (C) | 60.407 | 0.747 | 5.922>> | 0.0 | -0.000 | 0.000 |
| 52/ 3/7/ 144 (C) | 62.476 | -0.121 | -0.963<< | 0.0 | 1.372 | -0.173 |
| 52/ 4777/ 101 (C) | 20.772 | 0.053 | 0.005 | 0.0>> | -0.000 | -0.000 |
| 52/ 4777/ 101 (C) | 20.772 | 0.053 | 0.005 | 0.0<< | -0.000 | -0.000 |
| 52/ 2/7/ 144 (C) | 61.441 | -0.102 | -0.806 | 0.0 | 4.164>> | -0.526 |
| 52/ 2/7/ 155 (C) | 21.714 | 0.021 | 0.040 | 0.0 | -0.204<< | 0.106 |
| 52/ 2/7/ 102 (C) | 20.912 | 0.039 | 0.039 | 0.0 | -0.203 | 0.202>> |
| 52/ 2/7/ 140 (C) | 53.129 | -0.125 | -0.673 | 0.0 | 3.476 | -0.647<< |
| 53/ 4779/ 136 (C) | 71.055>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 53/ 4778/ 153 (C) | 24.947<< | -0.000 | -0.001 | 0.0 | -0.000 | 0.000 |
| 53/ 4778/ 140 (C) | 58.300 | 0.002>> | 0.012 | 0.0 | 0.008 | -0.001 |
| 53/ 2/7/ 140 (C) | 58.955 | -0.001<< | -0.005 | 0.0 | 0.010 | -0.002 |
| 53/ 4778/ 144 (C) | 66.612 | 0.002 | 0.015>> | 0.0 | 0.010 | -0.001 |
| 53/ 2/7/ 144 (C) | 67.267 | -0.001 | -0.006<< | 0.0 | 0.012 | -0.001 |
| 53/ 4778/ 101 (C) | 26.977 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 53/ 4778/ 101 (C) | 26.977 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 53/ 2/7/ 144 (C) | 67.267 | -0.001 | -0.006 | 0.0 | 0.012>> | -0.001 |
| 53/ 2/7/ 155 (C) | 27.539 | 0.000 | 0.000 | 0.0 | -0.001<< | 0.000 |
| 53/ 2/7/ 102 (C) | 26.738 | 0.000 | 0.000 | 0.0 | -0.001 | 0.001>> |
| 53/ 2/7/ 140 (C) | 58.955 | -0.001 | -0.005 | 0.0 | 0.010 | -0.002<< |
| 54/ 4780/ 136 (C) | 72.399>> | -0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 54/ 4779/ 153 (C) | 28.877<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 54/ 4779/ 140 (C) | 62.230 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 54/ 4/7/ 140 (C) | 62.902 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 54/ 4779/ 144 (C) | 70.542 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 54/ 4/7/ 144 (C) | 71.214 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 54/ 4779/ 101 (C) | 30.907 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 54/ 4779/ 101 (C) | 30.907 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 54/ 2/7/ 144 (C) | 70.766 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 54/ 2/7/ 155 (C) | 31.038 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 54/ 2/7/ 102 (C) | 30.236 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 54/ 2/7/ 140 (C) | 62.454 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 55/ 4782/ 135 (C) | 61.974>> | 0.000 | 0.001 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 157 (C) | 16.853<< | -0.017 | -0.233 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 123 (C) | 54.355 | 0.048>> | 5.748 | 0.0 | 0.000 | 0.000 |
| 55/ 4781/ 169 (C) | 16.918 | -0.017<< | 0.009 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 143 (C) | 54.420 | 0.048 | 5.991>> | 0.0 | 0.000 | -0.000 |
| 55/ 3/7/ 143 (C) | 56.488 | -0.008 | -0.974<< | 0.0 | 1.388 | -0.011 |
| 55/ 4781/ 101 (C) | 19.692 | 0.000 | 0.004 | 0.0>> | 0.000 | 0.000 |
| 55/ 4781/ 101 (C) | 19.692 | 0.000 | 0.004 | 0.0<< | 0.000 | 0.000 |
| 55/ 2/7/ 143 (C) | 55.454 | -0.006 | -0.816 | 0.0 | 4.212>> | -0.033 |
| 55/ 2/7/ 102 (C) | 18.410 | -0.000 | 0.040 | 0.0 | -0.205<< | -0.000 |
| 55/ 2/7/ 169 (C) | 17.952 | 0.002 | -0.001 | 0.0 | 0.006 | 0.012>> |
| 55/ 2/7/ 123 (C) | 55.389 | -0.006 | -0.783 | 0.0 | 4.042 | -0.033<< |
| 56/ 4783/ 135 (C) | 65.904>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 56/ 4782/ 157 (C) | 23.058<< | -0.000 | -0.001 | 0.0 | -0.000 | 0.000 |
| 56/ 4782/ 123 (C) | 60.560 | 0.000>> | 0.014 | 0.0 | 0.009 | -0.000 |
| 56/ 2/7/ 123 (C) | 61.215 | -0.000<< | -0.005 | 0.0 | 0.011 | -0.000 |
| 56/ 4782/ 143 (C) | 60.625 | 0.000 | 0.015>> | 0.0 | 0.010 | -0.000 |
| 56/ 2/7/ 143 (C) | 61.280 | -0.000 | -0.006<< | 0.0 | 0.012 | -0.000 |
| 56/ 4782/ 101 (C) | 25.897 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 56/ 4782/ 101 (C) | 25.897 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 56/ 2/7/ 143 (C) | 61.280 | -0.000 | -0.006 | 0.0 | 0.012>> | -0.000 |
| 56/ 2/7/ 102 (C) | 24.236 | -0.000 | 0.000 | 0.0 | -0.001<< | -0.000 |
| 56/ 2/7/ 169 (C) | 23.778 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 56/ 2/7/ 123 (C) | 61.215 | -0.000 | -0.005 | 0.0 | 0.011 | -0.000<< |
| 57/ 4784/ 135 (C) | 67.248>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 57/ 4783/ 157 (C) | 26.988<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 57/ 4783/ 123 (C) | 64.489 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 57/ 4/7/ 123 (C) | 65.162 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 57/ 4783/ 143 (C) | 64.555 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 57/ 4/7/ 143 (C) | 65.227 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 57/ 4783/ 101 (C) | 29.827 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 57/ 4783/ 101 (C) | 29.827 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 57/ 2/7/ 143 (C) | 64.779 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 57/ 2/7/ 102 (C) | 27.735 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 57/ 2/7/ 169 (C) | 27.277 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 57/ 2/7/ 123 (C) | 64.714 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 58/ 4786/ 135 (C) | 63.737>> | -0.001 | 0.001 | 0.0 | 0.000 | 0.001 |
| 58/ 4785/ 157 (C) | 18.541<< | 0.138 | -0.238 | 0.0 | 0.000 | 0.000 |
| 58/ 4785/ 117 (C) | 49.201 | 0.301>> | 4.211 | 0.0 | -0.000 | 0.000 |
| 58/ 4785/ 130 (C) | 46.620 | -0.881<< | 0.566 | 0.0 | -0.000 | -0.000 |
| 58/ 4785/ 143 (C) | 57.023 | -0.649 | 6.052>> | 0.0 | 0.000 | -0.000 |
| 58/ 3/7/ 143 (C) | 59.091 | 0.106 | -0.984<< | 0.0 | 1.402 | 0.150 |
| 58/ 4785/ 101 (C) | 20.772 | -0.053 | 0.005 | 0.0>> | 0.000 | -0.000 |
| 58/ 4785/ 101 (C) | 20.772 | -0.053 | 0.005 | 0.0<< | 0.000 | -0.000 |
| 58/ 2/7/ 143 (C) | 58.057 | 0.088 | -0.824 | 0.0 | 4.256>> | 0.457 |
| 58/ 2/7/ 102 (C) | 20.912 | -0.039 | 0.039 | 0.0 | -0.203<< | -0.202 |
| 58/ 2/7/ 130 (C) | 47.654 | 0.120 | -0.077 | 0.0 | 0.398 | 0.619>> |
| 58/ 2/7/ 117 (C) | 50.235 | -0.041 | -0.573 | 0.0 | 2.961 | -0.212<< |
| 59/ 4787/ 135 (C) | 67.667>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 59/ 4786/ 157 (C) | 24.746<< | 0.000 | -0.001 | 0.0 | -0.000 | -0.000 |
| 59/ 2/7/ 130 (C) | 53.480 | 0.001>> | -0.001 | 0.0 | 0.001 | 0.002 |



ROBOT v 17.0.1
Autor :
Dirección :
© RoboBAT 1996-2003
Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 59/ 4786/ 130 (C) | 52.825 | -0.002<< | 0.001 | 0.0 | 0.001 | 0.001 |
| 59/ 4786/ 143 (C) | 63.228 | -0.002 | 0.015>> | 0.0 | 0.010 | 0.001 |
| 59/ 2/7/ 143 (C) | 63.883 | 0.001 | -0.006<< | 0.0 | 0.012 | 0.001 |
| 59/ 4786/ 101 (C) | 26.977 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 59/ 4786/ 101 (C) | 26.977 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 59/ 2/7/ 143 (C) | 63.883 | 0.001 | -0.006 | 0.0 | 0.012>> | 0.001 |
| 59/ 2/7/ 102 (C) | 26.738 | -0.000 | 0.000 | 0.0 | -0.001<< | -0.001 |
| 59/ 2/7/ 130 (C) | 53.480 | 0.001 | -0.001 | 0.0 | 0.001 | 0.002>> |
| 59/ 2/7/ 117 (C) | 56.060 | -0.000 | -0.004 | 0.0 | 0.008 | -0.001<< |
| 60/ 4788/ 135 (C) | 69.011>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 157 (C) | 28.675<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 60/ 4/7/ 130 (C) | 57.427 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 130 (C) | 56.755 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 143 (C) | 67.158 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 60/ 4/7/ 143 (C) | 67.830 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 101 (C) | 30.907 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 60/ 4787/ 101 (C) | 30.907 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 60/ 2/7/ 143 (C) | 67.382 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 60/ 2/7/ 102 (C) | 30.236 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 60/ 2/7/ 130 (C) | 56.979 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 60/ 2/7/ 117 (C) | 59.559 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 61/ 4790/ 133 (C) | 70.147>> | -0.003 | 0.001 | 0.0 | 0.001 | 0.002 |
| 61/ 4789/ 150 (C) | 21.757<< | -0.103 | -0.068 | 0.0 | 0.000 | -0.000 |
| 61/ 4789/ 118 (C) | 51.622 | 0.574>> | 4.255 | 0.0 | -0.000 | 0.000 |
| 61/ 4789/ 129 (C) | 57.727 | -1.689<< | 0.568 | 0.0 | 0.000 | -0.000 |
| 61/ 4789/ 143 (C) | 63.897 | -1.278 | 6.111>> | 0.0 | -0.000 | -0.000 |
| 61/ 3/7/ 143 (C) | 65.966 | 0.208 | -0.993<< | 0.0 | 1.416 | 0.296 |
| 61/ 4789/ 101 (C) | 23.863 | -0.095 | 0.005 | 0.0>> | -0.000 | -0.000 |
| 61/ 4789/ 101 (C) | 23.863 | -0.095 | 0.005 | 0.0<< | -0.000 | -0.000 |
| 61/ 2/7/ 143 (C) | 64.931 | 0.174 | -0.832 | 0.0 | 4.297>> | 0.898 |
| 61/ 2/7/ 151 (C) | 27.073 | -0.039 | 0.039 | 0.0 | -0.202<< | -0.202 |
| 61/ 2/7/ 129 (C) | 58.761 | 0.230 | -0.077 | 0.0 | 0.399 | 1.187>> |
| 61/ 2/7/ 118 (C) | 52.656 | -0.078 | -0.579 | 0.0 | 2.992 | -0.404<< |
| 62/ 4791/ 133 (C) | 74.077>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 62/ 4790/ 150 (C) | 27.962<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 62/ 2/7/ 129 (C) | 64.587 | 0.002>> | -0.001 | 0.0 | 0.001 | 0.003 |
| 62/ 4790/ 129 (C) | 63.932 | -0.004<< | 0.001 | 0.0 | 0.001 | 0.003 |
| 62/ 4790/ 143 (C) | 70.102 | -0.003 | 0.015>> | 0.0 | 0.010 | 0.002 |
| 62/ 2/7/ 143 (C) | 70.757 | 0.001 | -0.006<< | 0.0 | 0.012 | 0.002 |
| 62/ 4790/ 101 (C) | 30.068 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 62/ 4790/ 101 (C) | 30.068 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 62/ 2/7/ 143 (C) | 70.757 | 0.001 | -0.006 | 0.0 | 0.012>> | 0.002 |
| 62/ 2/7/ 151 (C) | 32.899 | -0.000 | 0.000 | 0.0 | -0.001<< | -0.001 |
| 62/ 2/7/ 129 (C) | 64.587 | 0.002 | -0.001 | 0.0 | 0.001 | 0.003>> |
| 62/ 2/7/ 118 (C) | 58.482 | -0.001 | -0.004 | 0.0 | 0.008 | -0.001<< |
| 63/ 4792/ 133 (C) | 75.422>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 150 (C) | 31.892<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 63/ 4/7/ 129 (C) | 68.534 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 129 (C) | 67.862 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 143 (C) | 74.032 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 63/ 4/7/ 143 (C) | 74.704 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 101 (C) | 33.998 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 63/ 4791/ 101 (C) | 33.998 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 63/ 2/7/ 143 (C) | 74.256 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 63/ 2/7/ 151 (C) | 36.397 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 63/ 2/7/ 129 (C) | 68.086 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 63/ 2/7/ 118 (C) | 61.981 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 64/ 4794/ 144 (C) | 80.673>> | 0.003 | 0.012 | 0.0 | 0.008 | -0.002 |
| 64/ 4793/ 148 (C) | 24.683<< | 0.087 | -0.159 | 0.0 | -0.000 | -0.000 |
| 64/ 4793/ 130 (C) | 66.062 | 1.699>> | -0.759 | 0.0 | 0.000 | 0.000 |
| 64/ 4793/ 117 (C) | 59.865 | -0.573<< | 4.486 | 0.0 | -0.000 | -0.000 |
| 64/ 4793/ 121 (C) | 66.757 | -0.314 | 5.401>> | 0.0 | 0.000 | 0.000 |
| 64/ 3/7/ 121 (C) | 68.825 | 0.051 | -0.878<< | 0.0 | 1.252 | 0.073 |
| 64/ 4793/ 101 (C) | 25.669 | 0.090 | -0.092 | 0.0>> | 0.000 | -0.000 |
| 64/ 4793/ 101 (C) | 25.669 | 0.090 | -0.092 | 0.0<< | 0.000 | -0.000 |
| 64/ 2/7/ 121 (C) | 67.791 | 0.043 | -0.735 | 0.0 | 3.798>> | 0.221 |
| 64/ 2/7/ 168 (C) | 44.988 | -0.180 | 0.119 | 0.0 | -0.612<< | -0.929 |
| 64/ 2/7/ 117 (C) | 60.899 | 0.078 | -0.611 | 0.0 | 3.155 | 0.403>> |
| 64/ 2/7/ 130 (C) | 67.096 | -0.231 | 0.103 | 0.0 | -0.534 | -1.195<< |
| 65/ 4795/ 144 (C) | 84.603>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 65/ 4794/ 148 (C) | 30.888<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 65/ 4794/ 130 (C) | 72.267 | 0.004>> | -0.002 | 0.0 | -0.001 | -0.003 |
| 65/ 2/7/ 130 (C) | 72.922 | -0.002<< | 0.001 | 0.0 | -0.001 | -0.003 |
| 65/ 4794/ 121 (C) | 72.962 | -0.001 | 0.013>> | 0.0 | 0.009 | 0.001 |
| 65/ 2/7/ 121 (C) | 73.617 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.001 |
| 65/ 4794/ 101 (C) | 31.874 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 65/ 4794/ 101 (C) | 31.874 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 65/ 2/7/ 121 (C) | 73.617 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.001 |
| 65/ 2/7/ 168 (C) | 50.813 | -0.001 | 0.001 | 0.0 | -0.002<< | -0.003 |
| 65/ 2/7/ 117 (C) | 66.725 | 0.001 | -0.004 | 0.0 | 0.009 | 0.001>> |
| 65/ 2/7/ 130 (C) | 72.922 | -0.002 | 0.001 | 0.0 | -0.001 | -0.003<< |
| 66/ 4796/ 144 (C) | 85.947>> | -0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 66/ 4795/ 148 (C) | 34.818<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 66/ 4795/ 130 (C) | 76.197 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 66/ 4/7/ 130 (C) | 76.869 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 66/ 4795/ 121 (C) | 76.892 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 66/ 4/7/ 121 (C) | 77.564 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 66/ 4795/ 101 (C) | 35.804 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 66/ 4795/ 101 (C) | 35.804 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 66/ 2/7/ 121 (C) | 77.116 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 66/ 2/7/ 168 (C) | 54.312 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 66/ 2/7/ 117 (C) | 70.224 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 66/ 2/7/ 130 (C) | 76.421 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 67/ 4798/ 146 (C) | 70.500>> | 0.001 | 0.012 | 0.0 | 0.008 | -0.001 |
| 67/ 4797/ 153 (C) | 20.868<< | -0.156 | 0.051 | 0.0 | -0.000 | -0.000 |
| 67/ 4797/ 130 (C) | 54.536 | 0.878>> | -0.763 | 0.0 | 0.000 | -0.000 |
| 67/ 4797/ 117 (C) | 51.592 | -0.309<< | 4.533 | 0.0 | -0.000 | -0.000 |
| 67/ 4797/ 121 (C) | 59.844 | -0.177 | 5.461>> | 0.0 | -0.000 | -0.000 |
| 67/ 3/7/ 121 (C) | 61.912 | 0.029 | -0.888<< | 0.0 | 1.265 | 0.041 |
| 67/ 4797/ 101 (C) | 22.672 | 0.051 | -0.094 | 0.0>> | 0.000 | 0.000 |
| 67/ 4797/ 101 (C) | 22.672 | 0.051 | -0.094 | 0.0<< | 0.000 | 0.000 |
| 67/ 2/7/ 121 (C) | 60.878 | 0.024 | -0.743 | 0.0 | 3.840>> | 0.124 |
| 67/ 2/7/ 168 (C) | 37.177 | -0.093 | 0.116 | 0.0 | -0.599<< | -0.482 |
| 67/ 2/7/ 117 (C) | 52.627 | 0.042 | -0.617 | 0.0 | 3.187 | 0.217>> |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 67/ 2/7/ 130 (C) | 55.570 | -0.120 | 0.104 | 0.0 | -0.536 | -0.618<< |
| 68/ 4799/ 146 (C) | 74.430>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 68/ 4798/ 153 (C) | 27.072<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 68/ 4798/ 130 (C) | 60.741 | 0.002>> | -0.002 | 0.0 | -0.001 | -0.001 |
| 68/ 2/7/ 130 (C) | 61.396 | -0.001<< | 0.001 | 0.0 | -0.001 | -0.002 |
| 68/ 4798/ 121 (C) | 66.049 | -0.000 | 0.013>> | 0.0 | 0.009 | 0.000 |
| 68/ 2/7/ 121 (C) | 66.704 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.000 |
| 68/ 4798/ 101 (C) | 28.877 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 68/ 4798/ 101 (C) | 28.877 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 68/ 2/7/ 121 (C) | 66.704 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.000 |
| 68/ 2/7/ 168 (C) | 43.002 | -0.001 | 0.001 | 0.0 | -0.002<< | -0.001 |
| 68/ 2/7/ 117 (C) | 58.452 | 0.000 | -0.004 | 0.0 | 0.009 | 0.001>> |
| 68/ 2/7/ 130 (C) | 61.396 | -0.001 | 0.001 | 0.0 | -0.001 | -0.002<< |
| 69/ 4800/ 146 (C) | 75.774>> | 0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 69/ 4799/ 153 (C) | 31.002<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 69/ 4799/ 130 (C) | 64.671 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 69/ 4/7/ 130 (C) | 65.343 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 69/ 4799/ 121 (C) | 69.978 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 69/ 4/7/ 121 (C) | 70.651 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 69/ 4799/ 101 (C) | 32.807 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 69/ 4799/ 101 (C) | 32.807 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 69/ 2/7/ 121 (C) | 70.203 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 69/ 2/7/ 168 (C) | 46.501 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 69/ 2/7/ 117 (C) | 61.951 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 69/ 2/7/ 130 (C) | 64.895 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 70/ 4802/ 145 (C) | 65.305>> | -0.000 | 0.012 | 0.0 | 0.008 | 0.000 |
| 70/ 4801/ 102 (C) | 18.666<< | 0.000 | 0.258 | 0.0 | -0.000 | 0.000 |
| 70/ 3/7/ 144 (C) | 59.420 | 0.011>> | -0.791 | 0.0 | 1.128 | 0.015 |
| 70/ 4801/ 144 (C) | 57.352 | -0.066<< | 4.869 | 0.0 | -0.000 | -0.000 |
| 70/ 4801/ 121 (C) | 57.262 | -0.053 | 5.530>> | 0.0 | -0.000 | -0.000 |
| 70/ 3/7/ 121 (C) | 59.330 | 0.009 | -0.899<< | 0.0 | 1.281 | 0.012 |
| 70/ 4801/ 101 (C) | 21.620 | -0.000 | -0.095 | 0.0>> | 0.000 | -0.000 |
| 70/ 4801/ 101 (C) | 21.620 | -0.000 | -0.095 | 0.0<< | 0.000 | -0.000 |
| 70/ 2/7/ 121 (C) | 58.296 | 0.007 | -0.753 | 0.0 | 3.888>> | 0.037 |
| 70/ 2/7/ 164 (C) | 33.731 | 0.000 | 0.114 | 0.0 | -0.588<< | 0.000 |
| 70/ 2/7/ 144 (C) | 58.386 | 0.009 | -0.663 | 0.0 | 3.424 | 0.046>> |
| 70/ 5/7/ 144 (C) | 61.489 | -0.000 | 0.033 | 0.0 | -0.144 | -0.002<< |
| 71/ 4803/ 145 (C) | 69.234>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 71/ 4802/ 102 (C) | 24.871<< | 0.000 | 0.001 | 0.0 | 0.000 | -0.000 |
| 71/ 2/7/ 144 (C) | 64.212 | 0.000>> | -0.005 | 0.0 | 0.010 | 0.000 |
| 71/ 4802/ 144 (C) | 63.557 | -0.000<< | 0.012 | 0.0 | 0.008 | 0.000 |
| 71/ 4802/ 121 (C) | 63.467 | -0.000 | 0.014>> | 0.0 | 0.009 | 0.000 |
| 71/ 2/7/ 121 (C) | 64.122 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.000 |
| 71/ 4802/ 101 (C) | 27.825 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 71/ 4802/ 101 (C) | 27.825 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 71/ 2/7/ 121 (C) | 64.122 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.000 |
| 71/ 2/7/ 164 (C) | 39.557 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.000 |
| 71/ 2/7/ 144 (C) | 64.212 | 0.000 | -0.005 | 0.0 | 0.010 | 0.000>> |
| 71/ 5/7/ 144 (C) | 66.177 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 72/ 4804/ 145 (C) | 70.579>> | -0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 72/ 4803/ 102 (C) | 28.801<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 72/ 4/7/ 144 (C) | 68.159 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 72/ 4803/ 144 (C) | 67.487 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 72/ 4803/ 121 (C) | 67.397 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 72/ 4/7/ 121 (C) | 68.069 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 72/ 4803/ 101 (C) | 31.755 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 72/ 4803/ 101 (C) | 31.755 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 72/ 2/7/ 121 (C) | 67.621 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 72/ 2/7/ 164 (C) | 43.056 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 72/ 2/7/ 144 (C) | 67.711 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 72/ 2/7/ 155 (C) | 42.870 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 73/ 4806/ 145 (C) | 67.038>> | -0.001 | 0.013 | 0.0 | 0.008 | 0.001 |
| 73/ 4805/ 157 (C) | 20.789<< | 0.143 | 0.046 | 0.0 | -0.000 | 0.000 |
| 73/ 4805/ 102 (C) | 21.101 | 0.291>> | 0.258 | 0.0 | -0.000 | 0.000 |
| 73/ 4805/ 140 (C) | 48.936 | -0.919<< | 3.723 | 0.0 | -0.000 | -0.000 |
| 73/ 4805/ 122 (C) | 56.284 | 0.070 | 5.598>> | 0.0 | -0.000 | 0.000 |
| 73/ 3/7/ 122 (C) | 58.352 | -0.011 | -0.910<< | 0.0 | 1.297 | -0.016 |
| 73/ 4805/ 101 (C) | 22.672 | -0.051 | -0.094 | 0.0>> | -0.000 | -0.000 |
| 73/ 4805/ 101 (C) | 22.672 | -0.051 | -0.094 | 0.0<< | -0.000 | -0.000 |
| 73/ 2/7/ 122 (C) | 57.318 | -0.010 | -0.762 | 0.0 | 3.936>> | -0.049 |
| 73/ 2/7/ 164 (C) | 35.933 | 0.093 | 0.114 | 0.0 | -0.588<< | 0.479 |
| 73/ 2/7/ 140 (C) | 49.970 | 0.125 | -0.507 | 0.0 | 2.618 | 0.646>> |
| 73/ 2/7/ 102 (C) | 22.135 | -0.040 | -0.035 | 0.0 | 0.181 | -0.205<< |
| 74/ 4807/ 145 (C) | 70.968>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 74/ 4806/ 157 (C) | 26.994<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 74/ 2/7/ 140 (C) | 55.796 | 0.001>> | -0.003 | 0.0 | 0.007 | 0.002 |
| 74/ 4806/ 140 (C) | 55.141 | -0.002<< | 0.009 | 0.0 | 0.006 | 0.001 |
| 74/ 4806/ 122 (C) | 62.489 | 0.000 | 0.014>> | 0.0 | 0.009 | -0.000 |
| 74/ 2/7/ 122 (C) | 63.144 | -0.000 | -0.005<< | 0.0 | 0.011 | -0.000 |
| 74/ 4806/ 101 (C) | 28.877 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 74/ 4806/ 101 (C) | 28.877 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 74/ 2/7/ 122 (C) | 63.144 | -0.000 | -0.005 | 0.0 | 0.011>> | -0.000 |
| 74/ 2/7/ 164 (C) | 41.759 | 0.001 | 0.001 | 0.0 | -0.002<< | 0.001 |
| 74/ 2/7/ 140 (C) | 55.796 | 0.001 | -0.003 | 0.0 | 0.007 | 0.002>> |
| 74/ 2/7/ 102 (C) | 27.961 | -0.000 | -0.000 | 0.0 | 0.001 | -0.001<< |
| 75/ 4808/ 145 (C) | 72.312>> | -0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 75/ 4807/ 157 (C) | 30.923<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 75/ 4/7/ 140 (C) | 59.743 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 75/ 4807/ 140 (C) | 59.071 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 75/ 4807/ 122 (C) | 66.419 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 75/ 4/7/ 122 (C) | 67.091 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 75/ 4807/ 101 (C) | 32.807 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 75/ 4807/ 101 (C) | 32.807 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 75/ 2/7/ 122 (C) | 66.643 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 75/ 2/7/ 164 (C) | 45.258 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 75/ 2/7/ 140 (C) | 59.295 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 75/ 2/7/ 102 (C) | 31.460 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 76/ 4810/ 133 (C) | 73.016>> | -0.003 | -0.002 | 0.0 | -0.001 | 0.002 |
| 76/ 4809/ 150 (C) | 24.515<< | -0.099 | -0.168 | 0.0 | 0.000 | -0.000 |
| 76/ 4809/ 102 (C) | 28.219 | 0.562>> | 0.262 | 0.0 | -0.000 | 0.000 |
| 76/ 4809/ 139 (C) | 59.951 | -1.723<< | 3.772 | 0.0 | -0.000 | -0.000 |
| 76/ 4809/ 122 (C) | 59.280 | 0.222 | 5.662>> | 0.0 | -0.000 | 0.000 |
| 76/ 3/7/ 122 (C) | 61.348 | -0.036 | -0.920<< | 0.0 | 1.312 | -0.051 |
| 76/ 4809/ 101 (C) | 25.669 | -0.090 | -0.092 | 0.0>> | 0.000 | -0.000 |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 76/ 4809/ 101 (C) | 25.669 | -0.090 | -0.092 | 0.0<< | 0.000 | -0.000 |
| 76/ 2/7/ 122 (C) | 60.314 | -0.030 | -0.771 | 0.0 | 3.981>> | -0.156 |
| 76/ 2/7/ 164 (C) | 42.325 | 0.178 | 0.114 | 0.0 | -0.591<< | 0.922 |
| 76/ 2/7/ 139 (C) | 60.985 | 0.235 | -0.514 | 0.0 | 2.652 | 1.212>> |
| 76/ 2/7/ 102 (C) | 29.253 | -0.077 | -0.036 | 0.0 | 0.184 | -0.395<< |
| 77/ 4811/ 133 (C) | 76.946>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 77/ 4810/ 150 (C) | 30.720<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 77/ 2/7/ 139 (C) | 66.811 | 0.002>> | -0.004 | 0.0 | 0.007 | 0.003 |
| 77/ 4810/ 139 (C) | 66.156 | -0.004<< | 0.009 | 0.0 | 0.006 | 0.003 |
| 77/ 4810/ 122 (C) | 65.485 | 0.001 | 0.014>> | 0.0 | 0.009 | -0.000 |
| 77/ 2/7/ 122 (C) | 66.140 | -0.000 | -0.005<< | 0.0 | 0.011 | -0.000 |
| 77/ 4810/ 101 (C) | 31.874 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 77/ 4810/ 101 (C) | 31.874 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 77/ 2/7/ 122 (C) | 66.140 | -0.000 | -0.005 | 0.0 | 0.011>> | -0.000 |
| 77/ 2/7/ 164 (C) | 48.151 | 0.001 | 0.001 | 0.0 | -0.002<< | 0.003 |
| 77/ 2/7/ 139 (C) | 66.811 | 0.002 | -0.004 | 0.0 | 0.007 | 0.003>> |
| 77/ 2/7/ 102 (C) | 35.078 | -0.001 | -0.000 | 0.0 | 0.001 | -0.001<< |
| 78/ 4812/ 133 (C) | 78.290>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 78/ 4811/ 150 (C) | 34.650<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 78/ 4/7/ 139 (C) | 70.758 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 78/ 4811/ 139 (C) | 70.086 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 78/ 4811/ 122 (C) | 69.415 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 78/ 4/7/ 122 (C) | 70.087 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 78/ 4811/ 101 (C) | 35.804 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 78/ 4811/ 101 (C) | 35.804 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 78/ 2/7/ 122 (C) | 69.639 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 78/ 2/7/ 164 (C) | 51.649 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 78/ 2/7/ 139 (C) | 70.310 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 78/ 2/7/ 102 (C) | 38.577 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 79/ 4814/ 144 (C) | 97.419>> | 0.003 | 0.009 | 0.0 | 0.006 | -0.002 |
| 79/ 4813/ 148 (C) | 32.435<< | 0.085 | -0.190 | 0.0 | 0.000 | 0.000 |
| 79/ 4813/ 130 (C) | 80.079 | 1.695>> | -1.985 | 0.0 | 0.000 | 0.000 |
| 79/ 4813/ 117 (C) | 73.440 | -0.663<< | 5.023 | 0.0 | -0.000 | -0.000 |
| 79/ 4813/ 121 (C) | 82.930 | -0.422 | 5.678>> | 0.0 | -0.000 | -0.000 |
| 79/ 4813/ 130 (C) | 80.079 | 1.695 | -1.985<< | 0.0 | 0.000 | 0.000 |
| 79/ 4813/ 101 (C) | 32.768 | 0.087 | -0.127 | 0.0>> | 0.000 | 0.000 |
| 79/ 4813/ 101 (C) | 32.768 | 0.087 | -0.127 | 0.0<< | 0.000 | 0.000 |
| 79/ 2/7/ 121 (C) | 83.964 | 0.057 | -0.773 | 0.0 | 3.993>> | 0.297 |
| 79/ 2/7/ 130 (C) | 81.113 | -0.231 | 0.270 | 0.0 | -1.396<< | -1.192 |
| 79/ 2/7/ 117 (C) | 74.474 | 0.090 | -0.684 | 0.0 | 3.532 | 0.466>> |
| 79/ 2/7/ 130 (C) | 81.113 | -0.231 | 0.270 | 0.0 | -1.396 | -1.192<< |
| 80/ 4815/ 144 (C) | 101.349>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 80/ 4814/ 148 (C) | 38.640<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 80/ 4814/ 130 (C) | 86.284 | 0.004>> | -0.005 | 0.0 | -0.003 | -0.003 |
| 80/ 4814/ 117 (C) | 79.645 | -0.002<< | 0.012 | 0.0 | 0.008 | 0.001 |
| 80/ 4814/ 121 (C) | 89.135 | -0.001 | 0.014>> | 0.0 | 0.009 | 0.001 |
| 80/ 2/7/ 121 (C) | 89.790 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.001 |
| 80/ 4814/ 101 (C) | 38.973 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 80/ 4814/ 101 (C) | 38.973 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 80/ 2/7/ 121 (C) | 89.790 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.001 |
| 80/ 2/7/ 130 (C) | 86.939 | -0.002 | 0.002 | 0.0 | -0.004<< | -0.003 |
| 80/ 2/7/ 117 (C) | 80.300 | 0.001 | -0.005 | 0.0 | 0.010 | 0.001>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 80/ 2/7/ 130 (C) | 86.939 | -0.002 | 0.002 | 0.0 | -0.004 | -0.003<< |
| 81/ 4816/ 144 (C) | 102.693>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 81/ 4815/ 148 (C) | 42.570<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 81/ 4815/ 130 (C) | 90.214 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 81/ 4/7/ 130 (C) | 90.886 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 81/ 4815/ 121 (C) | 93.065 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 81/ 4/7/ 121 (C) | 93.737 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 81/ 4815/ 101 (C) | 42.903 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 81/ 4815/ 101 (C) | 42.903 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 81/ 2/7/ 121 (C) | 93.289 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 81/ 2/7/ 130 (C) | 90.438 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 81/ 2/7/ 117 (C) | 83.799 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 81/ 2/7/ 130 (C) | 90.438 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 82/ 4818/ 146 (C) | 88.232>> | 0.001 | 0.011 | 0.0 | 0.007 | -0.000 |
| 82/ 4817/ 102 (C) | 26.956<< | -0.295 | 0.844 | 0.0 | -0.000 | -0.000 |
| 82/ 4817/ 130 (C) | 68.756 | 0.878>> | -1.992 | 0.0 | 0.000 | 0.000 |
| 82/ 4817/ 117 (C) | 65.507 | -0.397<< | 5.067 | 0.0 | -0.000 | -0.000 |
| 82/ 4817/ 121 (C) | 76.338 | -0.285 | 5.733>> | 0.0 | -0.000 | -0.000 |
| 82/ 4817/ 130 (C) | 68.756 | 0.878 | -1.992<< | 0.0 | 0.000 | 0.000 |
| 82/ 4817/ 101 (C) | 29.938 | 0.048 | -0.130 | 0.0>> | 0.000 | 0.000 |
| 82/ 4817/ 101 (C) | 29.938 | 0.048 | -0.130 | 0.0<< | 0.000 | 0.000 |
| 82/ 2/7/ 121 (C) | 77.372 | 0.039 | -0.781 | 0.0 | 4.032>> | 0.200 |
| 82/ 2/7/ 130 (C) | 69.790 | -0.120 | 0.271 | 0.0 | -1.401<< | -0.618 |
| 82/ 2/7/ 117 (C) | 66.541 | 0.054 | -0.690 | 0.0 | 3.563 | 0.279>> |
| 82/ 2/7/ 130 (C) | 69.790 | -0.120 | 0.271 | 0.0 | -1.401 | -0.618<< |
| 83/ 4819/ 146 (C) | 92.162>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 83/ 4818/ 102 (C) | 33.161<< | -0.001 | 0.002 | 0.0 | 0.001 | 0.000 |
| 83/ 4818/ 130 (C) | 74.961 | 0.002>> | -0.005 | 0.0 | -0.003 | -0.001 |
| 83/ 4818/ 117 (C) | 71.712 | -0.001<< | 0.013 | 0.0 | 0.008 | 0.001 |
| 83/ 4818/ 121 (C) | 82.543 | -0.001 | 0.014>> | 0.0 | 0.009 | 0.000 |
| 83/ 2/7/ 121 (C) | 83.198 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.001 |
| 83/ 4818/ 101 (C) | 36.143 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 83/ 4818/ 101 (C) | 36.143 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 83/ 2/7/ 121 (C) | 83.198 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.001 |
| 83/ 2/7/ 130 (C) | 75.616 | -0.001 | 0.002 | 0.0 | -0.004<< | -0.002 |
| 83/ 2/7/ 117 (C) | 72.367 | 0.000 | -0.005 | 0.0 | 0.010 | 0.001>> |
| 83/ 2/7/ 130 (C) | 75.616 | -0.001 | 0.002 | 0.0 | -0.004 | -0.002<< |
| 84/ 4820/ 146 (C) | 93.506>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 84/ 4819/ 102 (C) | 37.091<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 84/ 4819/ 130 (C) | 78.891 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 84/ 4819/ 117 (C) | 75.642 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 84/ 4819/ 121 (C) | 86.473 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 84/ 4/7/ 121 (C) | 87.145 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 84/ 4819/ 101 (C) | 40.073 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 84/ 4819/ 101 (C) | 40.073 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 84/ 2/7/ 121 (C) | 86.697 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 84/ 2/7/ 130 (C) | 79.115 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 84/ 2/7/ 117 (C) | 75.866 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 84/ 2/7/ 130 (C) | 79.115 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 85/ 4822/ 145 (C) | 82.846>> | -0.000 | 0.011 | 0.0 | 0.007 | 0.000 |
| 85/ 4821/ 102 (C) | 24.599<< | 0.000 | 0.844 | 0.0 | 0.000 | 0.000 |
| 85/ 3/7/ 144 (C) | 76.151 | 0.026>> | -0.631 | 0.0 | 0.899 | 0.036 |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 85/ 4821/ 144 (C) | 74.083 | -0.157<< | 3.880 | 0.0 | 0.000 | -0.000 |
| 85/ 4821/ 121 (C) | 73.944 | -0.154 | 5.801>> | 0.0 | -0.000 | -0.000 |
| 85/ 4821/ 130 (C) | 62.851 | -0.002 | -1.993<< | 0.0 | 0.000 | -0.000 |
| 85/ 4821/ 101 (C) | 28.961 | 0.000 | -0.131 | 0.0>> | -0.000 | 0.000 |
| 85/ 4821/ 101 (C) | 28.961 | 0.000 | -0.131 | 0.0<< | -0.000 | 0.000 |
| 85/ 2/7/ 121 (C) | 74.978 | 0.021 | -0.790 | 0.0 | 4.079>> | 0.109 |
| 85/ 2/7/ 130 (C) | 63.885 | 0.000 | 0.271 | 0.0 | -1.401<< | 0.002 |
| 85/ 2/7/ 144 (C) | 75.117 | 0.021 | -0.528 | 0.0 | 2.728 | 0.111>> |
| 85/ 2/7/ 155 (C) | 63.952 | -0.002 | -0.011 | 0.0 | 0.059 | -0.011<< |
| 86/ 4823/ 145 (C) | 86.776>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 86/ 4822/ 102 (C) | 30.804<< | 0.000 | 0.002 | 0.0 | 0.001 | -0.000 |
| 86/ 2/7/ 144 (C) | 80.943 | 0.000>> | -0.004 | 0.0 | 0.008 | 0.000 |
| 86/ 4822/ 144 (C) | 80.288 | -0.000<< | 0.010 | 0.0 | 0.006 | 0.000 |
| 86/ 4822/ 121 (C) | 80.149 | -0.000 | 0.014>> | 0.0 | 0.009 | 0.000 |
| 86/ 2/7/ 121 (C) | 80.804 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.000 |
| 86/ 4822/ 101 (C) | 35.166 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 86/ 4822/ 101 (C) | 35.166 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 86/ 2/7/ 121 (C) | 80.804 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.000 |
| 86/ 2/7/ 130 (C) | 69.711 | 0.000 | 0.002 | 0.0 | -0.004<< | 0.000 |
| 86/ 2/7/ 144 (C) | 80.943 | 0.000 | -0.004 | 0.0 | 0.008 | 0.000>> |
| 86/ 2/7/ 155 (C) | 69.778 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 87/ 4824/ 145 (C) | 88.120>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 102 (C) | 34.733<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 87/ 4/7/ 144 (C) | 84.890 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 144 (C) | 84.218 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 121 (C) | 84.078 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 87/ 4/7/ 121 (C) | 84.751 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 101 (C) | 39.096 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 87/ 4823/ 101 (C) | 39.096 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 87/ 2/7/ 121 (C) | 84.302 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 87/ 2/7/ 130 (C) | 73.210 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 87/ 2/7/ 144 (C) | 84.442 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 87/ 2/7/ 155 (C) | 73.277 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 88/ 4826/ 145 (C) | 84.384>> | -0.001 | 0.011 | 0.0 | 0.007 | 0.001 |
| 88/ 4825/ 102 (C) | 26.956<< | 0.295 | 0.844 | 0.0 | -0.000 | 0.000 |
| 88/ 4825/ 102 (C) | 26.956 | 0.295>> | 0.844 | 0.0 | -0.000 | 0.000 |
| 88/ 4825/ 139 (C) | 65.742 | -0.994<< | 2.494 | 0.0 | -0.000 | -0.000 |
| 88/ 4825/ 122 (C) | 72.423 | -0.018 | 5.872>> | 0.0 | -0.000 | 0.000 |
| 88/ 4825/ 129 (C) | 65.694 | -0.871 | -1.988<< | 0.0 | 0.000 | -0.000 |
| 88/ 4825/ 101 (C) | 29.938 | -0.048 | -0.130 | 0.0>> | 0.000 | -0.000 |
| 88/ 4825/ 101 (C) | 29.938 | -0.048 | -0.130 | 0.0<< | 0.000 | -0.000 |
| 88/ 2/7/ 122 (C) | 73.457 | 0.002 | -0.799 | 0.0 | 4.129>> | 0.013 |
| 88/ 2/7/ 129 (C) | 66.729 | 0.119 | 0.271 | 0.0 | -1.398<< | 0.612 |
| 88/ 2/7/ 139 (C) | 66.776 | 0.135 | -0.340 | 0.0 | 1.754 | 0.699>> |
| 88/ 2/7/ 102 (C) | 27.990 | -0.040 | -0.115 | 0.0 | 0.593 | -0.208<< |
| 89/ 4827/ 145 (C) | 88.314>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 89/ 4826/ 102 (C) | 33.161<< | 0.001 | 0.002 | 0.0 | 0.001 | -0.000 |
| 89/ 2/7/ 139 (C) | 72.601 | 0.001>> | -0.002 | 0.0 | 0.005 | 0.002 |
| 89/ 4826/ 139 (C) | 71.947 | -0.002<< | 0.006 | 0.0 | 0.004 | 0.002 |
| 89/ 4826/ 122 (C) | 78.627 | -0.000 | 0.015>> | 0.0 | 0.009 | 0.000 |
| 89/ 2/7/ 122 (C) | 79.282 | 0.000 | -0.006<< | 0.0 | 0.011 | 0.000 |
| 89/ 4826/ 101 (C) | 36.143 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 89/ 4826/ 101 (C) | 36.143 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 89/ 2/7/ 122 (C) | 79.282 | 0.000 | -0.006 | 0.0 | 0.011>> | 0.000 |
| 89/ 2/7/ 129 (C) | 72.554 | 0.001 | 0.002 | 0.0 | -0.004<< | 0.002 |
| 89/ 2/7/ 139 (C) | 72.601 | 0.001 | -0.002 | 0.0 | 0.005 | 0.002>> |
| 89/ 2/7/ 102 (C) | 33.816 | -0.000 | -0.001 | 0.0 | 0.002 | -0.001<< |
| 90/ 4828/ 145 (C) | 89.659>> | -0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 90/ 4827/ 102 (C) | 37.091<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 90/ 4/7/ 139 (C) | 76.549 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 90/ 4827/ 139 (C) | 75.876 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 90/ 4827/ 122 (C) | 82.557 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 90/ 4/7/ 122 (C) | 83.229 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 90/ 4827/ 101 (C) | 40.073 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 90/ 4827/ 101 (C) | 40.073 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 90/ 2/7/ 122 (C) | 82.781 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 90/ 2/7/ 129 (C) | 76.053 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 90/ 2/7/ 139 (C) | 76.100 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 90/ 2/7/ 102 (C) | 37.315 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 91/ 4830/ 143 (C) | 89.224>> | -0.004 | 0.010 | 0.0 | 0.006 | 0.002 |
| 91/ 4829/ 150 (C) | 32.360<< | -0.093 | -0.198 | 0.0 | 0.000 | -0.000 |
| 91/ 4829/ 102 (C) | 33.812 | 0.572>> | 0.847 | 0.0 | -0.000 | -0.000 |
| 91/ 4829/ 139 (C) | 73.590 | -1.798<< | 2.551 | 0.0 | -0.000 | -0.000 |
| 91/ 4829/ 122 (C) | 74.925 | 0.130 | 5.942>> | 0.0 | -0.000 | -0.000 |
| 91/ 4829/ 129 (C) | 73.556 | -1.675 | -1.979<< | 0.0 | 0.000 | -0.000 |
| 91/ 4829/ 101 (C) | 32.768 | -0.087 | -0.127 | 0.0>> | -0.000 | -0.000 |
| 91/ 4829/ 101 (C) | 32.768 | -0.087 | -0.127 | 0.0<< | -0.000 | -0.000 |
| 91/ 2/7/ 122 (C) | 75.960 | -0.018 | -0.809 | 0.0 | 4.178>> | -0.091 |
| 91/ 2/7/ 129 (C) | 74.591 | 0.228 | 0.269 | 0.0 | -1.392<< | 1.178 |
| 91/ 2/7/ 139 (C) | 74.624 | 0.245 | -0.347 | 0.0 | 1.794 | 1.265>> |
| 91/ 2/7/ 102 (C) | 34.846 | -0.078 | -0.115 | 0.0 | 0.596 | -0.402<< |
| 92/ 4831/ 143 (C) | 93.154>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 92/ 4830/ 150 (C) | 38.565<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 92/ 2/7/ 139 (C) | 80.450 | 0.002>> | -0.002 | 0.0 | 0.005 | 0.004 |
| 92/ 4830/ 139 (C) | 79.795 | -0.004<< | 0.006 | 0.0 | 0.004 | 0.003 |
| 92/ 4830/ 122 (C) | 81.130 | 0.000 | 0.015>> | 0.0 | 0.010 | -0.000 |
| 92/ 2/7/ 122 (C) | 81.785 | -0.000 | -0.006<< | 0.0 | 0.012 | -0.000 |
| 92/ 4830/ 101 (C) | 38.973 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 92/ 4830/ 101 (C) | 38.973 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 92/ 2/7/ 122 (C) | 81.785 | -0.000 | -0.006 | 0.0 | 0.012>> | -0.000 |
| 92/ 2/7/ 129 (C) | 80.416 | 0.002 | 0.002 | 0.0 | -0.004<< | 0.003 |
| 92/ 2/7/ 139 (C) | 80.450 | 0.002 | -0.002 | 0.0 | 0.005 | 0.004>> |
| 92/ 2/7/ 102 (C) | 40.672 | -0.001 | -0.001 | 0.0 | 0.002 | -0.001<< |
| 93/ 4832/ 143 (C) | 94.498>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 93/ 4831/ 150 (C) | 42.495<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 93/ 4/7/ 139 (C) | 84.397 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 93/ 4831/ 139 (C) | 83.725 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 93/ 4831/ 122 (C) | 85.060 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 93/ 4/7/ 122 (C) | 85.732 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 93/ 4831/ 101 (C) | 42.903 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 93/ 4831/ 101 (C) | 42.903 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 93/ 2/7/ 122 (C) | 85.284 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 93/ 2/7/ 129 (C) | 83.915 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 93/ 2/7/ 139 (C) | 83.949 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 93/ 2/7/ 102 (C) | 44.170 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 94/ 4834/ 136 (C) | 87.881>> | 0.002 | -0.004 | 0.0 | -0.003 | -0.001 |
| 94/ 4833/ 102 (C) | 28.749<< | -0.588 | 2.613 | 0.0 | 0.000 | -0.000 |
| 94/ 4833/ 130 (C) | 71.051 | 1.670>> | -4.079 | 0.0 | -0.000 | 0.000 |
| 94/ 4833/ 117 (C) | 65.076 | -0.876<< | 7.119 | 0.0 | -0.000 | -0.000 |
| 94/ 4833/ 122 (C) | 81.403 | -0.665 | 7.295>> | 0.0 | -0.000 | -0.000 |
| 94/ 4833/ 106 (C) | 28.991 | 1.627 | -4.283<< | 0.0 | 0.000 | 0.000 |
| 94/ 4833/ 101 (C) | 29.031 | 0.082 | 0.175 | 0.0>> | -0.000 | 0.000 |
| 94/ 4833/ 101 (C) | 29.031 | 0.082 | 0.175 | 0.0<< | -0.000 | 0.000 |
| 94/ 2/7/ 122 (C) | 82.437 | 0.090 | -0.993 | 0.0 | 5.130>> | 0.467 |
| 94/ 2/7/ 106 (C) | 30.025 | -0.221 | 0.583 | 0.0 | -3.012<< | -1.144 |
| 94/ 2/7/ 117 (C) | 66.110 | 0.119 | -0.969 | 0.0 | 5.006 | 0.616>> |
| 94/ 2/7/ 130 (C) | 72.085 | -0.227 | 0.555 | 0.0 | -2.868 | -1.175<< |
| 95/ 4835/ 136 (C) | 91.811>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 95/ 4834/ 102 (C) | 34.954<< | -0.001 | 0.006 | 0.0 | 0.004 | 0.001 |
| 95/ 4834/ 130 (C) | 77.256 | 0.004>> | -0.010 | 0.0 | -0.007 | -0.003 |
| 95/ 4834/ 117 (C) | 71.281 | -0.002<< | 0.018 | 0.0 | 0.011 | 0.001 |
| 95/ 4834/ 122 (C) | 87.608 | -0.002 | 0.018>> | 0.0 | 0.012 | 0.001 |
| 95/ 4834/ 106 (C) | 35.196 | 0.004 | -0.011<< | 0.0 | -0.007 | -0.003 |
| 95/ 4834/ 101 (C) | 35.236 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 95/ 4834/ 101 (C) | 35.236 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 95/ 2/7/ 122 (C) | 88.263 | 0.001 | -0.007 | 0.0 | 0.014>> | 0.001 |
| 95/ 2/7/ 106 (C) | 35.851 | -0.002 | 0.004 | 0.0 | -0.008<< | -0.003 |
| 95/ 2/7/ 117 (C) | 71.936 | 0.001 | -0.007 | 0.0 | 0.014 | 0.002>> |
| 95/ 2/7/ 130 (C) | 77.911 | -0.002 | 0.004 | 0.0 | -0.008 | -0.003<< |
| 96/ 4836/ 136 (C) | 93.155>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 96/ 4835/ 102 (C) | 38.884<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 96/ 4835/ 130 (C) | 81.185 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 96/ 4835/ 117 (C) | 75.211 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 96/ 4835/ 122 (C) | 91.538 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 96/ 4835/ 106 (C) | 39.126 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 96/ 4835/ 101 (C) | 39.166 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 96/ 4835/ 101 (C) | 39.166 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 96/ 2/7/ 122 (C) | 91.762 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 96/ 2/7/ 106 (C) | 39.350 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 96/ 2/7/ 117 (C) | 75.435 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 96/ 2/7/ 130 (C) | 81.410 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 97/ 4838/ 136 (C) | 80.203>> | 0.001 | -0.004 | 0.0 | -0.003 | -0.001 |
| 97/ 4837/ 102 (C) | 22.482<< | -0.306 | 2.608 | 0.0 | -0.000 | -0.000 |
| 97/ 4837/ 130 (C) | 60.785 | 0.858>> | -4.090 | 0.0 | 0.000 | 0.000 |
| 97/ 4837/ 117 (C) | 57.813 | -0.605<< | 7.166 | 0.0 | 0.000 | -0.000 |
| 97/ 4837/ 122 (C) | 71.513 | -0.540 | 7.347>> | 0.0 | 0.000 | -0.000 |
| 97/ 4837/ 106 (C) | 22.780 | 0.838 | -4.287<< | 0.0 | 0.000 | -0.000 |
| 97/ 4837/ 101 (C) | 26.405 | 0.044 | 0.175 | 0.0>> | -0.000 | 0.000 |
| 97/ 4837/ 101 (C) | 26.405 | 0.044 | 0.175 | 0.0<< | -0.000 | 0.000 |
| 97/ 2/7/ 122 (C) | 72.547 | 0.074 | -1.000 | 0.0 | 5.166>> | 0.380 |
| 97/ 2/7/ 106 (C) | 23.814 | -0.114 | 0.584 | 0.0 | -3.014<< | -0.589 |
| 97/ 2/7/ 117 (C) | 58.847 | 0.082 | -0.976 | 0.0 | 5.039 | 0.426>> |
| 97/ 2/7/ 130 (C) | 61.819 | -0.117 | 0.557 | 0.0 | -2.876 | -0.604<< |
| 98/ 4839/ 136 (C) | 84.132>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 98/ 4838/ 102 (C) | 28.687<< | -0.001 | 0.006 | 0.0 | 0.004 | 0.000 |
| 98/ 4838/ 130 (C) | 66.990 | 0.002>> | -0.010 | 0.0 | -0.007 | -0.001 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 98/ 4838/ 117 (C) | 64.018 | -0.001<< | 0.018 | 0.0 | 0.012 | 0.001 |
| 98/ 4838/ 122 (C) | 77.718 | -0.001 | 0.018>> | 0.0 | 0.012 | 0.001 |
| 98/ 4838/ 106 (C) | 28.984 | 0.002 | -0.011<< | 0.0 | -0.007 | -0.001 |
| 98/ 4838/ 101 (C) | 32.610 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 98/ 4838/ 101 (C) | 32.610 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 98/ 2/7/ 122 (C) | 78.373 | 0.001 | -0.007 | 0.0 | 0.014>> | 0.001 |
| 98/ 2/7/ 106 (C) | 29.639 | -0.001 | 0.004 | 0.0 | -0.008<< | -0.002 |
| 98/ 2/7/ 117 (C) | 64.673 | 0.001 | -0.007 | 0.0 | 0.014 | 0.001>> |
| 98/ 2/7/ 130 (C) | 67.645 | -0.001 | 0.004 | 0.0 | -0.008 | -0.002<< |
| 99/ 4840/ 136 (C) | 85.477>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 99/ 4839/ 102 (C) | 32.617<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 99/ 4839/ 130 (C) | 70.920 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 99/ 4839/ 117 (C) | 67.948 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 99/ 4839/ 122 (C) | 81.648 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 99/ 4839/ 106 (C) | 32.914 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 99/ 4839/ 101 (C) | 36.540 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 99/ 4839/ 101 (C) | 36.540 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 99/ 2/7/ 122 (C) | 81.872 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 99/ 2/7/ 106 (C) | 33.138 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 99/ 2/7/ 117 (C) | 68.172 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 99/ 2/7/ 130 (C) | 71.144 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 100/ 4842/ 135 (C) | 75.496>> | -0.000 | -0.004 | 0.0 | -0.003 | 0.000 |
| 100/ 4841/ 102 (C) | 20.360<< | 0.000 | 2.606 | 0.0 | -0.000 | 0.000 |
| 100/ 3/7/ 144 (C) | 68.282 | 0.067>> | -0.401 | 0.0 | 0.571 | 0.095 |
| 100/ 4841/ 144 (C) | 66.214 | -0.411<< | 2.466 | 0.0 | -0.000 | 0.000 |
| 100/ 4841/ 122 (C) | 65.985 | -0.411 | 7.402>> | 0.0 | -0.000 | 0.000 |
| 100/ 4841/ 106 (C) | 20.680 | -0.000 | -4.291<< | 0.0 | 0.000 | -0.000 |
| 100/ 4841/ 101 (C) | 25.522 | -0.000 | 0.174 | 0.0>> | -0.000 | -0.000 |
| 100/ 4841/ 101 (C) | 25.522 | -0.000 | 0.174 | 0.0<< | -0.000 | -0.000 |
| 100/ 2/7/ 122 (C) | 67.019 | 0.056 | -1.008 | 0.0 | 5.205>> | 0.289 |
| 100/ 2/7/ 106 (C) | 21.714 | 0.000 | 0.584 | 0.0 | -3.017<< | 0.000 |
| 100/ 2/7/ 144 (C) | 67.248 | 0.056 | -0.336 | 0.0 | 1.734 | 0.289>> |
| 100/ 5/7/ 144 (C) | 70.351 | -0.003 | 0.016 | 0.0 | -0.073 | -0.012<< |
| 101/ 4843/ 135 (C) | 79.426>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 101/ 4842/ 102 (C) | 26.565<< | 0.000 | 0.006 | 0.0 | 0.004 | -0.000 |
| 101/ 2/7/ 144 (C) | 73.074 | 0.000>> | -0.002 | 0.0 | 0.005 | 0.001 |
| 101/ 4842/ 144 (C) | 72.419 | -0.001<< | 0.006 | 0.0 | 0.004 | 0.001 |
| 101/ 4842/ 122 (C) | 72.190 | -0.001 | 0.018>> | 0.0 | 0.012 | 0.001 |
| 101/ 4842/ 106 (C) | 26.885 | -0.000 | -0.011<< | 0.0 | -0.007 | 0.000 |
| 101/ 4842/ 101 (C) | 31.727 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 101/ 4842/ 101 (C) | 31.727 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 101/ 2/7/ 122 (C) | 72.845 | 0.000 | -0.007 | 0.0 | 0.014>> | 0.001 |
| 101/ 2/7/ 106 (C) | 27.540 | 0.000 | 0.004 | 0.0 | -0.008<< | 0.000 |
| 101/ 2/7/ 144 (C) | 73.074 | 0.000 | -0.002 | 0.0 | 0.005 | 0.001>> |
| 101/ 5/7/ 144 (C) | 75.039 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 102/ 4844/ 135 (C) | 80.771>> | -0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 102/ 4843/ 102 (C) | 30.494<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 102/ 4/7/ 144 (C) | 77.021 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 102/ 4843/ 144 (C) | 76.349 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 102/ 4843/ 122 (C) | 76.120 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 102/ 4843/ 106 (C) | 30.815 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 102/ 4843/ 101 (C) | 35.656 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 102/ 4843/ 101 (C) | 35.656 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 102/ 2/7/ 122 (C) | 76.344 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 102/ 2/7/ 106 (C) | 31.039 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 102/ 2/7/ 144 (C) | 76.573 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 102/ 2/7/ 157 (C) | 32.873 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 103/ 4846/ 135 (C) | 76.905>> | -0.001 | -0.004 | 0.0 | -0.003 | 0.001 |
| 103/ 4845/ 102 (C) | 22.482<< | 0.306 | 2.608 | 0.0 | -0.000 | 0.000 |
| 103/ 4845/ 102 (C) | 22.482 | 0.306>> | 2.608 | 0.0 | -0.000 | 0.000 |
| 103/ 4845/ 140 (C) | 55.386 | -1.179<< | 0.366 | 0.0 | -0.000 | -0.000 |
| 103/ 4845/ 121 (C) | 68.175 | -0.258 | 7.466>> | 0.0 | -0.000 | -0.000 |
| 103/ 4845/ 106 (C) | 22.780 | -0.838 | -4.287<< | 0.0 | 0.000 | -0.000 |
| 103/ 4845/ 101 (C) | 26.405 | -0.044 | 0.175 | 0.0>> | -0.000 | -0.000 |
| 103/ 4845/ 101 (C) | 26.405 | -0.044 | 0.175 | 0.0<< | -0.000 | -0.000 |
| 103/ 2/7/ 121 (C) | 69.209 | 0.035 | -1.016 | 0.0 | 5.250>> | 0.181 |
| 103/ 2/7/ 106 (C) | 23.814 | 0.114 | 0.584 | 0.0 | -3.014<< | 0.589 |
| 103/ 2/7/ 140 (C) | 56.420 | 0.161 | -0.050 | 0.0 | 0.258 | 0.829>> |
| 103/ 2/7/ 102 (C) | 23.516 | -0.042 | -0.355 | 0.0 | 1.834 | -0.215<< |
| 104/ 4847/ 135 (C) | 80.835>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 104/ 4846/ 102 (C) | 28.687<< | 0.001 | 0.006 | 0.0 | 0.004 | -0.000 |
| 104/ 2/7/ 140 (C) | 62.246 | 0.001>> | -0.000 | 0.0 | 0.001 | 0.002 |
| 104/ 4846/ 140 (C) | 61.591 | -0.003<< | 0.001 | 0.0 | 0.001 | 0.002 |
| 104/ 4846/ 121 (C) | 74.380 | -0.001 | 0.018>> | 0.0 | 0.012 | 0.000 |
| 104/ 4846/ 106 (C) | 28.984 | -0.002 | -0.011<< | 0.0 | -0.007 | 0.001 |
| 104/ 4846/ 101 (C) | 32.610 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 104/ 4846/ 101 (C) | 32.610 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 104/ 2/7/ 121 (C) | 75.035 | 0.000 | -0.007 | 0.0 | 0.015>> | 0.001 |
| 104/ 2/7/ 106 (C) | 29.639 | 0.001 | 0.004 | 0.0 | -0.008<< | 0.002 |
| 104/ 2/7/ 140 (C) | 62.246 | 0.001 | -0.000 | 0.0 | 0.001 | 0.002>> |
| 104/ 2/7/ 102 (C) | 29.342 | -0.000 | -0.002 | 0.0 | 0.005 | -0.001<< |
| 105/ 4848/ 135 (C) | 82.179>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 105/ 4847/ 102 (C) | 32.617<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 105/ 4/7/ 140 (C) | 66.193 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 105/ 4847/ 140 (C) | 65.521 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 105/ 4847/ 121 (C) | 78.309 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 105/ 4847/ 106 (C) | 32.914 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 105/ 4847/ 101 (C) | 36.540 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 105/ 4847/ 101 (C) | 36.540 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 105/ 2/7/ 121 (C) | 78.534 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 105/ 2/7/ 106 (C) | 33.138 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 105/ 2/7/ 140 (C) | 65.745 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 105/ 2/7/ 102 (C) | 32.841 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 106/ 4850/ 135 (C) | 80.748>> | -0.002 | -0.004 | 0.0 | -0.003 | 0.001 |
| 106/ 4849/ 102 (C) | 28.749<< | 0.588 | 2.613 | 0.0 | -0.000 | 0.000 |
| 106/ 4849/ 102 (C) | 28.749 | 0.588>> | 2.613 | 0.0 | -0.000 | 0.000 |
| 106/ 4849/ 139 (C) | 65.251 | -1.976<< | 0.429 | 0.0 | -0.000 | -0.000 |
| 106/ 4849/ 121 (C) | 74.186 | -0.117 | 7.528>> | 0.0 | 0.000 | -0.000 |
| 106/ 4849/ 106 (C) | 28.991 | -1.627 | -4.283<< | 0.0 | -0.000 | -0.000 |
| 106/ 4849/ 101 (C) | 29.031 | -0.082 | 0.175 | 0.0>> | -0.000 | -0.000 |
| 106/ 4849/ 101 (C) | 29.031 | -0.082 | 0.175 | 0.0<< | -0.000 | -0.000 |
| 106/ 2/7/ 121 (C) | 75.221 | 0.016 | -1.025 | 0.0 | 5.294>> | 0.082 |
| 106/ 2/7/ 106 (C) | 30.025 | 0.221 | 0.583 | 0.0 | -3.012<< | 1.144 |
| 106/ 2/7/ 139 (C) | 66.285 | 0.269 | -0.058 | 0.0 | 0.302 | 1.389>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 106/ 2/7/ 102 (C) | 29.783 | -0.080 | -0.356 | 0.0 | 1.838 | -0.413<< |
| 107/ 4851/ 135 (C) | 84.678>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 107/ 4850/ 102 (C) | 34.954<< | 0.001 | 0.006 | 0.0 | 0.004 | -0.001 |
| 107/ 2/7/ 139 (C) | 72.111 | 0.002>> | -0.000 | 0.0 | 0.001 | 0.004 |
| 107/ 4850/ 139 (C) | 71.456 | -0.005<< | 0.001 | 0.0 | 0.001 | 0.003 |
| 107/ 4850/ 121 (C) | 80.391 | -0.000 | 0.019>> | 0.0 | 0.012 | 0.000 |
| 107/ 4850/ 106 (C) | 35.196 | -0.004 | -0.011<< | 0.0 | -0.007 | 0.003 |
| 107/ 4850/ 101 (C) | 35.236 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 107/ 4850/ 101 (C) | 35.236 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 107/ 2/7/ 121 (C) | 81.046 | 0.000 | -0.007 | 0.0 | 0.015>> | 0.000 |
| 107/ 2/7/ 106 (C) | 35.851 | 0.002 | 0.004 | 0.0 | -0.008<< | 0.003 |
| 107/ 2/7/ 139 (C) | 72.111 | 0.002 | -0.000 | 0.0 | 0.001 | 0.004>> |
| 107/ 2/7/ 102 (C) | 35.609 | -0.001 | -0.002 | 0.0 | 0.005 | -0.001<< |
| 108/ 4852/ 135 (C) | 86.023>> | 0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 108/ 4851/ 102 (C) | 38.884<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 108/ 4/7/ 139 (C) | 76.058 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 108/ 4851/ 139 (C) | 75.385 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 108/ 4851/ 121 (C) | 84.321 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 108/ 4851/ 106 (C) | 39.126 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 108/ 4851/ 101 (C) | 39.166 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 108/ 4851/ 101 (C) | 39.166 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 108/ 2/7/ 121 (C) | 84.545 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 108/ 2/7/ 106 (C) | 39.350 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 108/ 2/7/ 139 (C) | 75.610 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 108/ 2/7/ 102 (C) | 39.108 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 109/ 4854/ 122 (C) | 49.758>> | -0.002 | 0.019 | 0.0 | 0.013 | 0.001 |
| 109/ 4853/ 104 (C) | 12.407<< | 0.714 | -2.245 | 0.0 | 0.000 | 0.000 |
| 109/ 4853/ 130 (C) | 38.186 | 1.631>> | -5.102 | 0.0 | 0.000 | 0.000 |
| 109/ 4853/ 117 (C) | 34.602 | -0.979<< | 7.834 | 0.0 | -0.000 | -0.000 |
| 109/ 4853/ 118 (C) | 38.601 | -0.979 | 7.864>> | 0.0 | -0.000 | -0.000 |
| 109/ 4853/ 106 (C) | 14.655 | 1.606 | -5.380<< | 0.0 | 0.000 | 0.000 |
| 109/ 4853/ 101 (C) | 12.480 | 0.075 | 0.258 | 0.0>> | 0.000 | -0.000 |
| 109/ 4853/ 101 (C) | 12.480 | 0.075 | 0.258 | 0.0<< | 0.000 | -0.000 |
| 109/ 2/7/ 118 (C) | 39.635 | 0.133 | -1.071 | 0.0 | 5.530>> | 0.688 |
| 109/ 2/7/ 106 (C) | 15.689 | -0.219 | 0.732 | 0.0 | -3.783<< | -1.129 |
| 109/ 2/7/ 117 (C) | 35.637 | 0.133 | -1.067 | 0.0 | 5.509 | 0.689>> |
| 109/ 2/7/ 130 (C) | 39.220 | -0.222 | 0.695 | 0.0 | -3.587 | -1.147<< |
| 110/ 4855/ 122 (C) | 53.688>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 110/ 4854/ 104 (C) | 18.612<< | 0.002 | -0.006 | 0.0 | -0.004 | -0.001 |
| 110/ 4854/ 130 (C) | 44.391 | 0.004>> | -0.013 | 0.0 | -0.008 | -0.003 |
| 110/ 4854/ 117 (C) | 40.807 | -0.002<< | 0.019 | 0.0 | 0.013 | 0.002 |
| 110/ 4854/ 118 (C) | 44.806 | -0.002 | 0.019>> | 0.0 | 0.013 | 0.002 |
| 110/ 4854/ 106 (C) | 20.860 | 0.004 | -0.013<< | 0.0 | -0.009 | -0.003 |
| 110/ 4854/ 101 (C) | 18.685 | 0.000 | 0.001 | 0.0>> | 0.000 | -0.000 |
| 110/ 4854/ 101 (C) | 18.685 | 0.000 | 0.001 | 0.0<< | 0.000 | -0.000 |
| 110/ 2/7/ 118 (C) | 45.461 | 0.001 | -0.007 | 0.0 | 0.015>> | 0.002 |
| 110/ 2/7/ 106 (C) | 21.515 | -0.002 | 0.005 | 0.0 | -0.011<< | -0.003 |
| 110/ 2/7/ 117 (C) | 41.462 | 0.001 | -0.007 | 0.0 | 0.015 | 0.002>> |
| 110/ 2/7/ 130 (C) | 45.046 | -0.002 | 0.005 | 0.0 | -0.010 | -0.003<< |
| 111/ 4856/ 122 (C) | 55.032>> | -0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 111/ 4855/ 104 (C) | 22.542<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 111/ 4855/ 130 (C) | 48.320 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 111/ 4855/ 117 (C) | 44.737 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 111/ 4855/ 118 (C) | 48.736 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 111/ 4855/ 106 (C) | 24.789 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 111/ 4855/ 101 (C) | 22.615 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 111/ 4855/ 101 (C) | 22.615 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 111/ 2/7/ 118 (C) | 48.960 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 111/ 2/7/ 106 (C) | 25.013 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 111/ 2/7/ 117 (C) | 44.961 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 111/ 2/7/ 130 (C) | 48.544 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 112/ 4858/ 126 (C) | 41.886>> | -0.001 | 0.015 | 0.0 | 0.010 | 0.001 |
| 112/ 4857/ 106 (C) | 9.119<< | 0.822 | -5.393 | 0.0 | 0.000 | -0.000 |
| 112/ 4857/ 129 (C) | 27.783 | 0.842>> | -5.148 | 0.0 | 0.000 | 0.000 |
| 112/ 4857/ 118 (C) | 29.793 | -0.718<< | 7.883 | 0.0 | -0.000 | -0.000 |
| 112/ 4857/ 118 (C) | 29.793 | -0.718 | 7.883>> | 0.0 | -0.000 | -0.000 |
| 112/ 4857/ 106 (C) | 9.119 | 0.822 | -5.393<< | 0.0 | 0.000 | -0.000 |
| 112/ 4857/ 101 (C) | 10.102 | 0.039 | 0.252 | 0.0>> | -0.000 | 0.000 |
| 112/ 4857/ 101 (C) | 10.102 | 0.039 | 0.252 | 0.0<< | -0.000 | 0.000 |
| 112/ 2/7/ 118 (C) | 30.827 | 0.098 | -1.073 | 0.0 | 5.543>> | 0.505 |
| 112/ 2/7/ 106 (C) | 10.154 | -0.112 | 0.734 | 0.0 | -3.792<< | -0.578 |
| 112/ 2/7/ 118 (C) | 30.827 | 0.098 | -1.073 | 0.0 | 5.543 | 0.505>> |
| 112/ 2/7/ 129 (C) | 28.817 | -0.115 | 0.701 | 0.0 | -3.620 | -0.592<< |
| 113/ 4859/ 126 (C) | 45.815>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 113/ 4858/ 106 (C) | 15.324<< | 0.002 | -0.013 | 0.0 | -0.009 | -0.001 |
| 113/ 4858/ 129 (C) | 33.988 | 0.002>> | -0.013 | 0.0 | -0.008 | -0.001 |
| 113/ 4858/ 118 (C) | 35.998 | -0.002<< | 0.019 | 0.0 | 0.013 | 0.001 |
| 113/ 4858/ 118 (C) | 35.998 | -0.002 | 0.019>> | 0.0 | 0.013 | 0.001 |
| 113/ 4858/ 106 (C) | 15.324 | 0.002 | -0.013<< | 0.0 | -0.009 | -0.001 |
| 113/ 4858/ 101 (C) | 16.307 | 0.000 | 0.001 | 0.0>> | 0.000 | -0.000 |
| 113/ 4858/ 101 (C) | 16.307 | 0.000 | 0.001 | 0.0<< | 0.000 | -0.000 |
| 113/ 2/7/ 118 (C) | 36.653 | 0.001 | -0.007 | 0.0 | 0.015>> | 0.001 |
| 113/ 2/7/ 106 (C) | 15.979 | -0.001 | 0.005 | 0.0 | -0.011<< | -0.002 |
| 113/ 2/7/ 118 (C) | 36.653 | 0.001 | -0.007 | 0.0 | 0.015 | 0.001>> |
| 113/ 2/7/ 129 (C) | 34.643 | -0.001 | 0.005 | 0.0 | -0.010 | -0.002<< |
| 114/ 4860/ 126 (C) | 47.160>> | -0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 114/ 4859/ 106 (C) | 19.254<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 114/ 4859/ 129 (C) | 37.918 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 114/ 4859/ 118 (C) | 39.928 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 114/ 4859/ 118 (C) | 39.928 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 114/ 4859/ 106 (C) | 19.254 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 114/ 4859/ 101 (C) | 20.236 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 114/ 4859/ 101 (C) | 20.236 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 114/ 2/7/ 118 (C) | 40.152 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 114/ 2/7/ 106 (C) | 19.478 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 114/ 2/7/ 118 (C) | 40.152 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 114/ 2/7/ 129 (C) | 38.142 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 115/ 4862/ 125 (C) | 38.433>> | -0.001 | 0.015 | 0.0 | 0.010 | 0.001 |
| 115/ 4861/ 106 (C) | 7.315<< | -0.000 | -5.407 | 0.0 | 0.000 | -0.000 |
| 115/ 3/7/ 144 (C) | 33.013 | 0.088>> | -0.274 | 0.0 | 0.391 | 0.126 |
| 115/ 4861/ 144 (C) | 30.944 | -0.542<< | 1.688 | 0.0 | -0.000 | -0.000 |
| 115/ 4861/ 118 (C) | 25.795 | -0.434 | 7.920>> | 0.0 | -0.000 | -0.000 |
| 115/ 4861/ 106 (C) | 7.315 | -0.000 | -5.407<< | 0.0 | 0.000 | -0.000 |
| 115/ 4861/ 101 (C) | 9.298 | -0.000 | 0.250 | 0.0>> | -0.000 | -0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 115/ 4861/ 101 (C) | 9.298 | -0.000 | 0.250 | 0.0<< | -0.000 | -0.000 |
| 115/ 2/7/ 118 (C) | 26.829 | 0.059 | -1.078 | 0.0 | 5.569>> | 0.305 |
| 115/ 2/7/ 106 (C) | 8.349 | 0.000 | 0.736 | 0.0 | -3.802<< | 0.000 |
| 115/ 2/7/ 144 (C) | 31.979 | 0.074 | -0.230 | 0.0 | 1.187 | 0.381>> |
| 115/ 5/7/ 144 (C) | 35.081 | -0.004 | 0.011 | 0.0 | -0.050 | -0.016<< |
| 116/ 4863/ 125 (C) | 42.363>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 116/ 4862/ 106 (C) | 13.520<< | -0.000 | -0.013 | 0.0 | -0.009 | 0.000 |
| 116/ 2/7/ 144 (C) | 37.804 | 0.001>> | -0.002 | 0.0 | 0.003 | 0.001 |
| 116/ 4862/ 144 (C) | 37.149 | -0.001<< | 0.004 | 0.0 | 0.003 | 0.001 |
| 116/ 4862/ 118 (C) | 32.000 | -0.001 | 0.020>> | 0.0 | 0.013 | 0.001 |
| 116/ 4862/ 106 (C) | 13.520 | -0.000 | -0.013<< | 0.0 | -0.009 | 0.000 |
| 116/ 4862/ 101 (C) | 15.502 | -0.000 | 0.001 | 0.0>> | 0.000 | 0.000 |
| 116/ 4862/ 101 (C) | 15.502 | -0.000 | 0.001 | 0.0<< | 0.000 | 0.000 |
| 116/ 2/7/ 118 (C) | 32.655 | 0.000 | -0.007 | 0.0 | 0.015>> | 0.001 |
| 116/ 2/7/ 106 (C) | 14.175 | 0.000 | 0.005 | 0.0 | -0.011<< | 0.000 |
| 116/ 2/7/ 144 (C) | 37.804 | 0.001 | -0.002 | 0.0 | 0.003 | 0.001>> |
| 116/ 5/7/ 144 (C) | 39.769 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 117/ 4864/ 125 (C) | 43.707>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 106 (C) | 17.450<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 117/ 4/7/ 144 (C) | 41.751 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 144 (C) | 41.079 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 118 (C) | 35.930 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 106 (C) | 17.450 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 117/ 4863/ 101 (C) | 19.432 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 117/ 4863/ 101 (C) | 19.432 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 117/ 2/7/ 118 (C) | 36.154 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 117/ 2/7/ 106 (C) | 17.674 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 117/ 2/7/ 144 (C) | 41.303 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 117/ 2/7/ 157 (C) | 18.622 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 118/ 4866/ 125 (C) | 39.813>> | -0.001 | 0.015 | 0.0 | 0.010 | 0.001 |
| 118/ 4865/ 106 (C) | 9.119<< | -0.822 | -5.393 | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 102 (C) | 9.330 | 0.318>> | 3.255 | 0.0 | -0.000 | 0.000 |
| 118/ 4865/ 140 (C) | 26.190 | -1.263<< | -0.691 | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 117 (C) | 28.135 | -0.103 | 7.973>> | 0.0 | -0.000 | -0.000 |
| 118/ 4865/ 106 (C) | 9.119 | -0.822 | -5.393<< | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 101 (C) | 10.102 | -0.039 | 0.252 | 0.0>> | -0.000 | -0.000 |
| 118/ 4865/ 101 (C) | 10.102 | -0.039 | 0.252 | 0.0<< | -0.000 | -0.000 |
| 118/ 2/7/ 117 (C) | 29.169 | 0.014 | -1.085 | 0.0 | 5.606>> | 0.072 |
| 118/ 2/7/ 106 (C) | 10.154 | 0.112 | 0.734 | 0.0 | -3.792<< | 0.578 |
| 118/ 2/7/ 140 (C) | 27.224 | 0.172 | 0.094 | 0.0 | -0.486 | 0.888>> |
| 118/ 2/7/ 102 (C) | 10.364 | -0.043 | -0.443 | 0.0 | 2.289 | -0.224<< |
| 119/ 4867/ 125 (C) | 43.743>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 119/ 4866/ 106 (C) | 15.324<< | -0.002 | -0.013 | 0.0 | -0.009 | 0.001 |
| 119/ 2/7/ 140 (C) | 33.050 | 0.001>> | 0.001 | 0.0 | -0.001 | 0.002 |
| 119/ 4866/ 140 (C) | 32.395 | -0.003<< | -0.002 | 0.0 | -0.001 | 0.002 |
| 119/ 4866/ 117 (C) | 34.340 | -0.000 | 0.020>> | 0.0 | 0.013 | 0.000 |
| 119/ 4866/ 106 (C) | 15.324 | -0.002 | -0.013<< | 0.0 | -0.009 | 0.001 |
| 119/ 4866/ 101 (C) | 16.307 | -0.000 | 0.001 | 0.0>> | 0.000 | 0.000 |
| 119/ 4866/ 101 (C) | 16.307 | -0.000 | 0.001 | 0.0<< | 0.000 | 0.000 |
| 119/ 2/7/ 117 (C) | 34.995 | 0.000 | -0.007 | 0.0 | 0.016>> | 0.000 |
| 119/ 2/7/ 106 (C) | 15.979 | 0.001 | 0.005 | 0.0 | -0.011<< | 0.002 |
| 119/ 2/7/ 140 (C) | 33.050 | 0.001 | 0.001 | 0.0 | -0.001 | 0.002>> |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 119/ 2/7/ 102 (C) | 16.190 | -0.000 | -0.003 | 0.0 | 0.006 | -0.001<< |
| 120/ 4868/ 125 (C) | 45.088>> | -0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 120/ 4867/ 106 (C) | 19.254<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 120/ 4/7/ 140 (C) | 36.997 | 0.000>> | 0.000 | 0.0 | -0.000 | 0.000 |
| 120/ 4867/ 140 (C) | 36.325 | -0.000<< | -0.000 | 0.0 | -0.000 | 0.000 |
| 120/ 4867/ 117 (C) | 38.270 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 120/ 4867/ 106 (C) | 19.254 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 120/ 4867/ 101 (C) | 20.236 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 120/ 4867/ 101 (C) | 20.236 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 120/ 2/7/ 117 (C) | 38.494 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 120/ 2/7/ 106 (C) | 19.478 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 120/ 2/7/ 140 (C) | 36.549 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 120/ 2/7/ 102 (C) | 19.689 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 121/ 4870/ 121 (C) | 44.686>> | -0.000 | 0.020 | 0.0 | 0.013 | 0.000 |
| 121/ 4869/ 104 (C) | 12.407<< | -0.714 | -2.245 | 0.0 | 0.000 | -0.000 |
| 121/ 4869/ 102 (C) | 14.908 | 0.602>> | 3.270 | 0.0 | -0.000 | 0.000 |
| 121/ 4869/ 140 (C) | 30.374 | -2.038<< | -0.637 | 0.0 | 0.000 | -0.000 |
| 121/ 4869/ 117 (C) | 34.543 | 0.177 | 8.041>> | 0.0 | -0.000 | 0.000 |
| 121/ 4869/ 106 (C) | 14.655 | -1.606 | -5.380<< | 0.0 | 0.000 | 0.000 |
| 121/ 4869/ 101 (C) | 12.480 | -0.075 | 0.258 | 0.0>> | -0.000 | -0.000 |
| 121/ 4869/ 101 (C) | 12.480 | -0.075 | 0.258 | 0.0<< | -0.000 | -0.000 |
| 121/ 2/7/ 117 (C) | 35.577 | -0.024 | -1.095 | 0.0 | 5.654>> | -0.124 |
| 121/ 2/7/ 106 (C) | 15.689 | 0.219 | 0.732 | 0.0 | -3.783<< | 1.129 |
| 121/ 2/7/ 140 (C) | 31.408 | 0.277 | 0.087 | 0.0 | -0.448 | 1.433>> |
| 121/ 2/7/ 102 (C) | 15.942 | -0.082 | -0.445 | 0.0 | 2.299 | -0.424<< |
| 122/ 4871/ 121 (C) | 48.616>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 122/ 4870/ 104 (C) | 18.612<< | -0.002 | -0.006 | 0.0 | -0.004 | 0.001 |
| 122/ 2/7/ 140 (C) | 37.234 | 0.002>> | 0.001 | 0.0 | -0.001 | 0.004 |
| 122/ 4870/ 140 (C) | 36.579 | -0.005<< | -0.002 | 0.0 | -0.001 | 0.003 |
| 122/ 4870/ 117 (C) | 40.748 | 0.000 | 0.020>> | 0.0 | 0.013 | -0.000 |
| 122/ 4870/ 106 (C) | 20.860 | -0.004 | -0.013<< | 0.0 | -0.009 | 0.003 |
| 122/ 4870/ 101 (C) | 18.685 | -0.000 | 0.001 | 0.0>> | 0.000 | 0.000 |
| 122/ 4870/ 101 (C) | 18.685 | -0.000 | 0.001 | 0.0<< | 0.000 | 0.000 |
| 122/ 2/7/ 117 (C) | 41.403 | -0.000 | -0.008 | 0.0 | 0.016>> | -0.000 |
| 122/ 2/7/ 106 (C) | 21.515 | 0.002 | 0.005 | 0.0 | -0.011<< | 0.003 |
| 122/ 2/7/ 140 (C) | 37.234 | 0.002 | 0.001 | 0.0 | -0.001 | 0.004>> |
| 122/ 2/7/ 102 (C) | 21.767 | -0.001 | -0.003 | 0.0 | 0.006 | -0.001<< |
| 123/ 4872/ 121 (C) | 49.960>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 123/ 4871/ 104 (C) | 22.542<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 123/ 4/7/ 140 (C) | 41.181 | 0.000>> | 0.000 | 0.0 | -0.000 | 0.000 |
| 123/ 4871/ 140 (C) | 40.509 | -0.000<< | -0.000 | 0.0 | -0.000 | 0.000 |
| 123/ 4871/ 117 (C) | 44.678 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 123/ 4871/ 106 (C) | 24.789 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 123/ 4871/ 101 (C) | 22.615 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 123/ 4871/ 101 (C) | 22.615 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 123/ 2/7/ 117 (C) | 44.902 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 123/ 2/7/ 106 (C) | 25.013 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 123/ 2/7/ 140 (C) | 40.733 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 123/ 2/7/ 102 (C) | 25.266 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |

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**Esfuerzos Máximos y Mínimos en Pilotes para Combinación ELU - Casos: 101A170**

**- Casos: 101A170**

| Filtrar | Barra | Caso |
|---|---|---|
| Lista completa | 1 3A123 140A14 | 1A14 101A170 2 |
| Selección | 4A123 | 101A170 |
| | | |
| Número total | 120 | 208 |
| Número seleccionado | 120 | 70 |

**- Casos: 101A170**

| | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| | | | | | | |
| MAX | 102.693 | 2.050 | 9.861 | 0.0 | 6.934 | 1.433 |
| Barra | 81 | 4 | 16 | 4 | 16 | 121 |
| Punto | 4816 | 4713 | 4729 | 4713 | 2/7 | 2/7 |
| Caso | 144 (C) | 140 (C) | 140 (C) | 101 (C) | 140 (C) | 140 (C) |
| | | | | | | |
| MIN | 7.315 | -2.038 | -5.407 | 0.0 | -3.802 | -1.442 |
| Barra | 115 | 121 | 115 | 4 | 115 | 4 |
| Punto | 4861 | 4869 | 4861 | 4713 | 2/7 | 2/7 |
| Caso | 106 (C) | 140 (C) | 106 (C) | 101 (C) | 106 (C) | 140 (C) |
| | | | | | | |

**Envolvente de Esfuerzos en Pilotes para Combinación Característica - Casos: 201A270**

**- Casos: 201A270**

| Filtrar | Barra | Caso |
|---|---|---|
| Lista completa | 1 3A123 140A14 | 1A14 101A170 2 |
| Selección | 4A123 | 201A270 |
| | | |
| Número total | 120 | 208 |
| Número seleccionado | 120 | 70 |

**- Casos: 201A270**

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 4/ 4714/ 257 (C) | 52.167>> | -0.000 | -0.003 | 0.0 | -0.002 | 0.000 |
| 4/ 4713/ 204 (C) | 12.980<< | 0.534 | 1.735 | 0.0 | -0.000 | 0.000 |
| 4/ 4713/ 240 (C) | 34.731 | 1.420>> | 6.583 | 0.0 | -0.000 | 0.000 |
| 4/ 4713/ 202 (C) | 14.266 | -0.384<< | -2.178 | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 239 (C) | 31.489 | 1.418 | 6.596>> | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 208 (C) | 35.032 | -0.373 | -2.309<< | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 201 (C) | 13.037 | 0.060 | -0.139 | 0.0>> | 0.000 | 0.000 |
| 4/ 4713/ 201 (C) | 13.037 | 0.060 | -0.139 | 0.0<< | 0.000 | 0.000 |
| 4/ 2/7/ 239 (C) | 32.255 | -0.193 | -0.898 | 0.0 | 4.638>> | -0.997 |
| 4/ 2/7/ 208 (C) | 35.798 | 0.051 | 0.314 | 0.0 | -1.624<< | 0.263 |
| 4/ 2/7/ 202 (C) | 15.032 | 0.052 | 0.297 | 0.0 | -1.531 | 0.270>> |
| 4/ 2/7/ 240 (C) | 35.497 | -0.193 | -0.896 | 0.0 | 4.629 | -0.999<< |
| 5/ 4715/ 257 (C) | 55.078>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 5/ 4714/ 204 (C) | 17.576<< | 0.001 | 0.004 | 0.0 | 0.003 | -0.001 |
| 5/ 4714/ 240 (C) | 39.327 | 0.004>> | 0.016 | 0.0 | 0.011 | -0.002 |
| 5/ 2/7/ 240 (C) | 39.812 | -0.001<< | -0.006 | 0.0 | 0.013 | -0.003 |
| 5/ 4714/ 239 (C) | 36.086 | 0.004 | 0.016>> | 0.0 | 0.011 | -0.002 |
| 5/ 2/7/ 239 (C) | 36.571 | -0.001 | -0.006<< | 0.0 | 0.013 | -0.003 |
| 5/ 4714/ 201 (C) | 17.633 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 5/ 4714/ 201 (C) | 17.633 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 5/ 2/7/ 239 (C) | 36.571 | -0.001 | -0.006 | 0.0 | 0.013>> | -0.003 |
| 5/ 2/7/ 208 (C) | 40.114 | 0.000 | 0.002 | 0.0 | -0.005<< | 0.001 |
| 5/ 2/7/ 202 (C) | 19.347 | 0.000 | 0.002 | 0.0 | -0.004 | 0.001>> |
| 5/ 2/7/ 240 (C) | 39.812 | -0.001 | -0.006 | 0.0 | 0.013 | -0.003<< |
| 6/ 4716/ 257 (C) | 56.073>> | -0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 6/ 4715/ 204 (C) | 20.487<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 6/ 4715/ 240 (C) | 42.238 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 6/ 4/7/ 240 (C) | 42.736 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 6/ 4715/ 239 (C) | 38.997 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 6/ 4/7/ 239 (C) | 39.494 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 6/ 4715/ 201 (C) | 20.544 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 6/ 4715/ 201 (C) | 20.544 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 6/ 2/7/ 239 (C) | 39.162 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 6/ 2/7/ 208 (C) | 42.705 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 6/ 2/7/ 202 (C) | 21.939 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 6/ 2/7/ 240 (C) | 42.404 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 7/ 4718/ 250 (C) | 47.579>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 7/ 4717/ 206 (C) | 9.793<< | 0.585 | 3.845 | 0.0 | -0.000 | 0.000 |
| 7/ 4717/ 239 (C) | 26.895 | 0.865>> | 6.644 | 0.0 | -0.000 | 0.000 |



ROBOT v 17.0.1
Autor :
Dirección :

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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 7/ 4717/ 208 (C) | 28.522 | -0.202<< | -2.291 | 0.0 | -0.000 | -0.000 |
| 7/ 4717/ 239 (C) | 26.895 | 0.865 | 6.644>> | 0.0 | -0.000 | 0.000 |
| 7/ 4717/ 208 (C) | 28.522 | -0.202 | -2.291<< | 0.0 | -0.000 | -0.000 |
| 7/ 4717/ 201 (C) | 11.132 | 0.032 | -0.133 | 0.0>> | 0.000 | 0.000 |
| 7/ 4717/ 201 (C) | 11.132 | 0.032 | -0.133 | 0.0<< | 0.000 | 0.000 |
| 7/ 2/7/ 239 (C) | 27.661 | -0.118 | -0.904 | 0.0 | 4.672>> | -0.609 |
| 7/ 2/7/ 208 (C) | 29.288 | 0.028 | 0.312 | 0.0 | -1.611<< | 0.142 |
| 7/ 2/7/ 208 (C) | 29.288 | 0.028 | 0.312 | 0.0 | -1.611 | 0.142>> |
| 7/ 2/7/ 239 (C) | 27.661 | -0.118 | -0.904 | 0.0 | 4.672 | -0.609<< |
| 8/ 4719/ 250 (C) | 50.490>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 8/ 4718/ 206 (C) | 14.389<< | 0.001 | 0.010 | 0.0 | 0.006 | -0.001 |
| 8/ 4718/ 239 (C) | 31.492 | 0.002>> | 0.016 | 0.0 | 0.011 | -0.001 |
| 8/ 2/7/ 239 (C) | 31.977 | -0.001<< | -0.006 | 0.0 | 0.013 | -0.002 |
| 8/ 4718/ 239 (C) | 31.492 | 0.002 | 0.016>> | 0.0 | 0.011 | -0.001 |
| 8/ 2/7/ 239 (C) | 31.977 | -0.001 | -0.006<< | 0.0 | 0.013 | -0.002 |
| 8/ 4718/ 201 (C) | 15.728 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 8/ 4718/ 201 (C) | 15.728 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 8/ 2/7/ 239 (C) | 31.977 | -0.001 | -0.006 | 0.0 | 0.013>> | -0.002 |
| 8/ 2/7/ 208 (C) | 33.603 | 0.000 | 0.002 | 0.0 | -0.004<< | 0.000 |
| 8/ 2/7/ 208 (C) | 33.603 | 0.000 | 0.002 | 0.0 | -0.004 | 0.000>> |
| 8/ 2/7/ 239 (C) | 31.977 | -0.001 | -0.006 | 0.0 | 0.013 | -0.002<< |
| 9/ 4720/ 250 (C) | 51.485>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 9/ 4719/ 206 (C) | 17.300<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 9/ 4719/ 239 (C) | 34.402 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 9/ 4/7/ 239 (C) | 34.900 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 9/ 4719/ 239 (C) | 34.402 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 9/ 4/7/ 239 (C) | 34.900 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 9/ 4719/ 201 (C) | 18.639 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 9/ 4719/ 201 (C) | 18.639 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 9/ 2/7/ 239 (C) | 34.568 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 9/ 2/7/ 208 (C) | 36.195 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 9/ 2/7/ 208 (C) | 36.195 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 9/ 2/7/ 239 (C) | 34.568 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 10/ 4722/ 248 (C) | 45.099>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 10/ 4721/ 206 (C) | 8.360<< | 0.000 | 3.853 | 0.0 | -0.000 | 0.000 |
| 10/ 4721/ 243 (C) | 30.298 | 0.339>> | 6.558 | 0.0 | 0.000 | 0.000 |
| 10/ 3/7/ 243 (C) | 31.830 | -0.055<< | -1.066 | 0.0 | 1.520 | -0.079 |
| 10/ 4721/ 239 (C) | 25.244 | 0.271 | 6.692>> | 0.0 | -0.000 | 0.000 |
| 10/ 4721/ 208 (C) | 25.422 | -0.020 | -2.280<< | 0.0 | 0.000 | -0.000 |
| 10/ 4721/ 201 (C) | 10.482 | -0.000 | -0.131 | 0.0>> | 0.000 | -0.000 |
| 10/ 4721/ 201 (C) | 10.482 | -0.000 | -0.131 | 0.0<< | 0.000 | -0.000 |
| 10/ 2/7/ 239 (C) | 26.010 | -0.037 | -0.911 | 0.0 | 4.705>> | -0.191 |
| 10/ 2/7/ 208 (C) | 26.189 | 0.003 | 0.310 | 0.0 | -1.604<< | 0.014 |
| 10/ 2/7/ 212 (C) | 31.224 | 0.003 | 0.204 | 0.0 | -1.051 | 0.018>> |
| 10/ 2/7/ 243 (C) | 31.064 | -0.046 | -0.893 | 0.0 | 4.611 | -0.239<< |
| 11/ 4723/ 248 (C) | 48.010>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 11/ 4722/ 206 (C) | 12.956<< | 0.000 | 0.010 | 0.0 | 0.006 | -0.000 |
| 11/ 4722/ 243 (C) | 34.895 | 0.001>> | 0.016 | 0.0 | 0.011 | -0.001 |
| 11/ 2/7/ 243 (C) | 35.380 | -0.000<< | -0.006 | 0.0 | 0.013 | -0.001 |
| 11/ 4722/ 239 (C) | 29.840 | 0.001 | 0.017>> | 0.0 | 0.011 | -0.000 |
| 11/ 2/7/ 239 (C) | 30.325 | -0.000 | -0.006<< | 0.0 | 0.013 | -0.001 |
| 11/ 4722/ 201 (C) | 15.078 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 11/ 4722/ 201 (C) | 15.078 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 11/ 2/7/ 239 (C) | 30.325 | -0.000 | -0.006 | 0.0 | 0.013>> | -0.001 |
| 11/ 2/7/ 208 (C) | 30.504 | 0.000 | 0.002 | 0.0 | -0.004<< | 0.000 |
| 11/ 2/7/ 212 (C) | 35.539 | 0.000 | 0.001 | 0.0 | -0.003 | 0.000>> |
| 11/ 2/7/ 243 (C) | 35.380 | -0.000 | -0.006 | 0.0 | 0.013 | -0.001<< |
| 12/ 4724/ 248 (C) | 49.006>> | 0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 12/ 4723/ 206 (C) | 15.867<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 12/ 4723/ 243 (C) | 37.806 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 12/ 4/7/ 243 (C) | 38.303 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 12/ 4723/ 239 (C) | 32.751 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 12/ 4/7/ 239 (C) | 33.249 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 12/ 4723/ 201 (C) | 17.989 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 12/ 4723/ 201 (C) | 17.989 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 12/ 2/7/ 239 (C) | 32.917 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 12/ 2/7/ 208 (C) | 33.096 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 12/ 2/7/ 212 (C) | 38.131 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 12/ 2/7/ 243 (C) | 37.972 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 13/ 4726/ 248 (C) | 45.841>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 13/ 4725/ 206 (C) | 9.793<< | -0.585 | 3.845 | 0.0 | -0.000 | 0.000 |
| 13/ 4725/ 217 (C) | 27.053 | 0.464>> | 0.703 | 0.0 | 0.000 | -0.000 |
| 13/ 4725/ 230 (C) | 25.557 | -0.606<< | 3.736 | 0.0 | -0.000 | 0.000 |
| 13/ 4725/ 240 (C) | 25.461 | -0.335 | 6.723>> | 0.0 | -0.000 | 0.000 |
| 13/ 4725/ 207 (C) | 27.149 | 0.192 | -2.283<< | 0.0 | -0.000 | -0.000 |
| 13/ 4725/ 201 (C) | 11.132 | -0.032 | -0.133 | 0.0>> | 0.000 | -0.000 |
| 13/ 4725/ 201 (C) | 11.132 | -0.032 | -0.133 | 0.0<< | 0.000 | -0.000 |
| 13/ 2/7/ 240 (C) | 26.227 | 0.046 | -0.915 | 0.0 | 4.727>> | 0.236 |
| 13/ 2/7/ 207 (C) | 27.915 | -0.026 | 0.311 | 0.0 | -1.606<< | -0.135 |
| 13/ 2/7/ 230 (C) | 26.323 | 0.083 | -0.509 | 0.0 | 2.627 | 0.426>> |
| 13/ 2/7/ 217 (C) | 27.819 | -0.063 | -0.096 | 0.0 | 0.494 | -0.326<< |
| 14/ 4727/ 248 (C) | 48.752>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 14/ 4726/ 206 (C) | 14.389<< | -0.001 | 0.010 | 0.0 | 0.006 | 0.001 |
| 14/ 4726/ 217 (C) | 31.649 | 0.001>> | 0.002 | 0.0 | 0.001 | -0.001 |
| 14/ 4726/ 230 (C) | 30.153 | -0.001<< | 0.009 | 0.0 | 0.006 | 0.001 |
| 14/ 4726/ 240 (C) | 30.057 | -0.001 | 0.017>> | 0.0 | 0.011 | 0.001 |
| 14/ 2/7/ 240 (C) | 30.542 | 0.000 | -0.006<< | 0.0 | 0.013 | 0.001 |
| 14/ 4726/ 201 (C) | 15.728 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 14/ 4726/ 201 (C) | 15.728 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 14/ 2/7/ 240 (C) | 30.542 | 0.000 | -0.006 | 0.0 | 0.013>> | 0.001 |
| 14/ 2/7/ 207 (C) | 32.231 | -0.000 | 0.002 | 0.0 | -0.004<< | -0.000 |
| 14/ 2/7/ 230 (C) | 30.638 | 0.001 | -0.004 | 0.0 | 0.007 | 0.001>> |
| 14/ 2/7/ 217 (C) | 32.135 | -0.000 | -0.001 | 0.0 | 0.001 | -0.001<< |
| 15/ 4728/ 248 (C) | 49.748>> | -0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 206 (C) | 17.300<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 217 (C) | 34.560 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 15/ 4727/ 230 (C) | 33.064 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 240 (C) | 32.968 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 15/ 4/7/ 240 (C) | 33.466 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 201 (C) | 18.639 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 15/ 4727/ 201 (C) | 18.639 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 15/ 2/7/ 240 (C) | 33.134 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 15/ 2/7/ 207 (C) | 34.823 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 15/ 2/7/ 230 (C) | 33.230 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 15/ 2/7/ 217 (C) | 34.726 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 16/ 4730/ 253 (C) | 47.969>> | 0.001 | -0.003 | 0.0 | -0.002 | -0.000 |
| 16/ 4729/ 204 (C) | 12.980<< | -0.534 | 1.735 | 0.0 | 0.000 | -0.000 |
| 16/ 4729/ 217 (C) | 31.717 | 0.647>> | 0.723 | 0.0 | 0.000 | 0.000 |
| 16/ 4729/ 230 (C) | 28.457 | -1.151<< | 3.728 | 0.0 | 0.000 | -0.000 |
| 16/ 4729/ 240 (C) | 28.383 | -0.880 | 6.748>> | 0.0 | -0.000 | -0.000 |
| 16/ 4729/ 207 (C) | 31.791 | 0.375 | -2.296<< | 0.0 | 0.000 | -0.000 |
| 16/ 4729/ 201 (C) | 13.037 | -0.060 | -0.139 | 0.0>> | 0.000 | -0.000 |
| 16/ 4729/ 201 (C) | 13.037 | -0.060 | -0.139 | 0.0<< | 0.000 | -0.000 |
| 16/ 2/7/ 240 (C) | 29.149 | 0.120 | -0.919 | 0.0 | 4.745>> | 0.618 |
| 16/ 2/7/ 207 (C) | 32.557 | -0.051 | 0.313 | 0.0 | -1.615<< | -0.264 |
| 16/ 2/7/ 230 (C) | 29.223 | 0.157 | -0.508 | 0.0 | 2.622 | 0.809>> |
| 16/ 2/7/ 217 (C) | 32.483 | -0.088 | -0.098 | 0.0 | 0.508 | -0.455<< |
| 17/ 4731/ 253 (C) | 50.880>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 17/ 4730/ 204 (C) | 17.576<< | -0.001 | 0.004 | 0.0 | 0.003 | 0.001 |
| 17/ 4730/ 217 (C) | 36.313 | 0.002>> | 0.002 | 0.0 | 0.001 | -0.001 |
| 17/ 4730/ 230 (C) | 33.053 | -0.003<< | 0.009 | 0.0 | 0.006 | 0.002 |
| 17/ 4730/ 240 (C) | 32.979 | -0.002 | 0.017>> | 0.0 | 0.011 | 0.001 |
| 17/ 2/7/ 240 (C) | 33.465 | 0.001 | -0.006<< | 0.0 | 0.013 | 0.002 |
| 17/ 4730/ 201 (C) | 17.633 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 17/ 4730/ 201 (C) | 17.633 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 17/ 2/7/ 240 (C) | 33.465 | 0.001 | -0.006 | 0.0 | 0.013>> | 0.002 |
| 17/ 2/7/ 207 (C) | 36.872 | -0.000 | 0.002 | 0.0 | -0.004<< | -0.001 |
| 17/ 2/7/ 230 (C) | 33.539 | 0.001 | -0.004 | 0.0 | 0.007 | 0.002>> |
| 17/ 2/7/ 217 (C) | 36.798 | -0.001 | -0.001 | 0.0 | 0.001 | -0.001<< |
| 18/ 4732/ 253 (C) | 51.876>> | 0.000 | 0.000 | 0.0 | -0.000 | -0.000 |
| 18/ 4731/ 204 (C) | 20.487<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 18/ 4731/ 217 (C) | 39.224 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 18/ 4731/ 230 (C) | 35.964 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 18/ 4731/ 240 (C) | 35.890 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 18/ 4/7/ 240 (C) | 36.388 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 18/ 4731/ 201 (C) | 20.544 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 18/ 4731/ 201 (C) | 20.544 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 18/ 2/7/ 240 (C) | 36.056 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 18/ 2/7/ 207 (C) | 39.464 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 18/ 2/7/ 230 (C) | 36.130 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 18/ 2/7/ 217 (C) | 39.390 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 19/ 4734/ 234 (C) | 61.454>> | 0.002 | 0.005 | 0.0 | 0.003 | -0.002 |
| 19/ 4733/ 247 (C) | 20.071<< | 0.072 | -0.031 | 0.0 | 0.000 | 0.000 |
| 19/ 4733/ 240 (C) | 50.048 | 1.384>> | 5.551 | 0.0 | -0.000 | 0.000 |
| 19/ 4733/ 202 (C) | 21.561 | -0.360<< | -1.490 | 0.0 | 0.000 | 0.000 |
| 19/ 4733/ 243 (C) | 51.644 | 1.178 | 5.691>> | 0.0 | -0.000 | 0.000 |
| 19/ 4733/ 208 (C) | 49.977 | -0.327 | -1.529<< | 0.0 | 0.000 | 0.000 |
| 19/ 4733/ 201 (C) | 20.846 | 0.075 | -0.037 | 0.0>> | 0.000 | 0.000 |
| 19/ 4733/ 201 (C) | 20.846 | 0.075 | -0.037 | 0.0<< | 0.000 | 0.000 |
| 19/ 2/7/ 243 (C) | 52.410 | -0.160 | -0.775 | 0.0 | 4.002>> | -0.828 |
| 19/ 2/7/ 208 (C) | 50.743 | 0.045 | 0.208 | 0.0 | -1.075<< | 0.230 |
| 19/ 2/7/ 202 (C) | 22.327 | 0.049 | 0.203 | 0.0 | -1.048 | 0.253>> |
| 19/ 2/7/ 240 (C) | 50.814 | -0.188 | -0.756 | 0.0 | 3.903 | -0.973<< |
| 20/ 4735/ 234 (C) | 64.365>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 20/ 4734/ 247 (C) | 24.667<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 20/ 4734/ 240 (C) | 54.644 | 0.003>> | 0.014 | 0.0 | 0.009 | -0.002 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 20/ 2/7/ 240 (C) | 55.129 | -0.001<< | -0.005 | 0.0 | 0.011 | -0.003 |
| 20/ 4734/ 243 (C) | 56.240 | 0.003 | 0.014>> | 0.0 | 0.009 | -0.002 |
| 20/ 2/7/ 243 (C) | 56.725 | -0.001 | -0.005<< | 0.0 | 0.011 | -0.002 |
| 20/ 4734/ 201 (C) | 25.442 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 20/ 4734/ 201 (C) | 25.442 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 20/ 2/7/ 243 (C) | 56.725 | -0.001 | -0.005 | 0.0 | 0.011>> | -0.002 |
| 20/ 2/7/ 208 (C) | 55.058 | 0.000 | 0.001 | 0.0 | -0.003<< | 0.001 |
| 20/ 2/7/ 202 (C) | 26.643 | 0.000 | 0.001 | 0.0 | -0.003 | 0.001>> |
| 20/ 2/7/ 240 (C) | 55.129 | -0.001 | -0.005 | 0.0 | 0.011 | -0.003<< |
| 21/ 4736/ 234 (C) | 65.361>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 21/ 4735/ 247 (C) | 27.578<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 21/ 4735/ 240 (C) | 57.555 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 21/ 4/7/ 240 (C) | 58.053 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 21/ 4735/ 243 (C) | 59.151 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 21/ 4/7/ 243 (C) | 59.649 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 21/ 4735/ 201 (C) | 28.353 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 21/ 4735/ 201 (C) | 28.353 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 21/ 2/7/ 243 (C) | 59.317 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 21/ 2/7/ 208 (C) | 57.650 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 21/ 2/7/ 202 (C) | 29.234 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 21/ 2/7/ 240 (C) | 57.721 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 22/ 4738/ 236 (C) | 54.959>> | 0.001 | 0.003 | 0.0 | 0.002 | -0.000 |
| 22/ 4737/ 202 (C) | 16.426<< | -0.188 | -1.485 | 0.0 | 0.000 | -0.000 |
| 22/ 4737/ 240 (C) | 42.043 | 0.803>> | 5.593 | 0.0 | -0.000 | 0.000 |
| 22/ 4737/ 202 (C) | 16.426 | -0.188<< | -1.485 | 0.0 | 0.000 | -0.000 |
| 22/ 4737/ 243 (C) | 46.872 | 0.727 | 5.740>> | 0.0 | -0.000 | 0.000 |
| 22/ 4737/ 208 (C) | 41.904 | -0.172 | -1.521<< | 0.0 | -0.000 | -0.000 |
| 22/ 4737/ 201 (C) | 18.469 | 0.040 | -0.035 | 0.0>> | 0.000 | 0.000 |
| 22/ 4737/ 201 (C) | 18.469 | 0.040 | -0.035 | 0.0<< | 0.000 | 0.000 |
| 22/ 2/7/ 243 (C) | 47.638 | -0.099 | -0.781 | 0.0 | 4.036>> | -0.511 |
| 22/ 2/7/ 208 (C) | 42.670 | 0.023 | 0.207 | 0.0 | -1.069<< | 0.121 |
| 22/ 2/7/ 202 (C) | 17.192 | 0.026 | 0.202 | 0.0 | -1.045 | 0.132>> |
| 22/ 2/7/ 240 (C) | 42.809 | -0.109 | -0.761 | 0.0 | 3.933 | -0.565<< |
| 23/ 4739/ 236 (C) | 57.870>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 23/ 4738/ 202 (C) | 21.022<< | -0.000 | -0.004 | 0.0 | -0.002 | 0.000 |
| 23/ 4738/ 240 (C) | 46.639 | 0.002>> | 0.014 | 0.0 | 0.009 | -0.001 |
| 23/ 2/7/ 240 (C) | 47.124 | -0.001<< | -0.005 | 0.0 | 0.011 | -0.002 |
| 23/ 4738/ 243 (C) | 51.468 | 0.002 | 0.014>> | 0.0 | 0.009 | -0.001 |
| 23/ 2/7/ 243 (C) | 51.953 | -0.001 | -0.005<< | 0.0 | 0.011 | -0.001 |
| 23/ 4738/ 201 (C) | 23.066 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 23/ 4738/ 201 (C) | 23.066 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 23/ 2/7/ 243 (C) | 51.953 | -0.001 | -0.005 | 0.0 | 0.011>> | -0.001 |
| 23/ 2/7/ 208 (C) | 46.985 | 0.000 | 0.001 | 0.0 | -0.003<< | 0.000 |
| 23/ 2/7/ 202 (C) | 21.507 | 0.000 | 0.001 | 0.0 | -0.003 | 0.000>> |
| 23/ 2/7/ 240 (C) | 47.124 | -0.001 | -0.005 | 0.0 | 0.011 | -0.002<< |
| 24/ 4740/ 236 (C) | 58.866>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 24/ 4739/ 202 (C) | 23.933<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 24/ 4739/ 240 (C) | 49.550 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 24/ 4/7/ 240 (C) | 50.048 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 24/ 4739/ 243 (C) | 54.379 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 24/ 4/7/ 243 (C) | 54.877 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 24/ 4739/ 201 (C) | 25.977 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 24/ 4739/ 201 (C) | 25.977 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 24/ 2/7/ 243 (C) | 54.545 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 24/ 2/7/ 208 (C) | 49.577 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 24/ 2/7/ 202 (C) | 24.099 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 24/ 2/7/ 240 (C) | 49.716 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 25/ 4742/ 245 (C) | 51.450>> | 0.001 | 0.012 | 0.0 | 0.008 | -0.000 |
| 25/ 4741/ 202 (C) | 14.699<< | -0.000 | -1.485 | 0.0 | -0.000 | -0.000 |
| 25/ 4741/ 243 (C) | 45.143 | 0.235>> | 5.792 | 0.0 | -0.000 | 0.000 |
| 25/ 3/7/ 243 (C) | 46.675 | -0.038<< | -0.942 | 0.0 | 1.342 | -0.055 |
| 25/ 4741/ 244 (C) | 45.091 | 0.224 | 5.792>> | 0.0 | -0.000 | 0.000 |
| 25/ 4741/ 207 (C) | 38.005 | -0.000 | -1.518<< | 0.0 | 0.000 | -0.000 |
| 25/ 4741/ 201 (C) | 17.668 | 0.000 | -0.034 | 0.0>> | 0.000 | 0.000 |
| 25/ 4741/ 201 (C) | 17.668 | 0.000 | -0.034 | 0.0<< | 0.000 | 0.000 |
| 25/ 2/7/ 244 (C) | 45.857 | -0.030 | -0.788 | 0.0 | 4.073>> | -0.157 |
| 25/ 2/7/ 207 (C) | 38.771 | 0.000 | 0.207 | 0.0 | -1.067<< | 0.000 |
| 25/ 2/7/ 212 (C) | 45.732 | 0.002 | 0.129 | 0.0 | -0.665 | 0.008>> |
| 25/ 2/7/ 243 (C) | 45.909 | -0.032 | -0.788 | 0.0 | 4.073 | -0.165<< |
| 26/ 4743/ 245 (C) | 54.361>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 26/ 4742/ 202 (C) | 19.295<< | -0.000 | -0.004 | 0.0 | -0.002 | 0.000 |
| 26/ 4742/ 243 (C) | 49.739 | 0.001>> | 0.014 | 0.0 | 0.009 | -0.000 |
| 26/ 2/7/ 243 (C) | 50.225 | -0.000<< | -0.005 | 0.0 | 0.011 | -0.000 |
| 26/ 4742/ 244 (C) | 49.687 | 0.001 | 0.014>> | 0.0 | 0.009 | -0.000 |
| 26/ 2/7/ 244 (C) | 50.172 | -0.000 | -0.005<< | 0.0 | 0.011 | -0.000 |
| 26/ 4742/ 201 (C) | 22.264 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 26/ 4742/ 201 (C) | 22.264 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 26/ 2/7/ 244 (C) | 50.172 | -0.000 | -0.005 | 0.0 | 0.011>> | -0.000 |
| 26/ 2/7/ 207 (C) | 43.086 | 0.000 | 0.001 | 0.0 | -0.003<< | 0.000 |
| 26/ 2/7/ 212 (C) | 50.047 | 0.000 | 0.001 | 0.0 | -0.002 | 0.000>> |
| 26/ 2/7/ 243 (C) | 50.225 | -0.000 | -0.005 | 0.0 | 0.011 | -0.000<< |
| 27/ 4744/ 245 (C) | 55.357>> | 0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 27/ 4743/ 202 (C) | 22.206<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 27/ 4743/ 243 (C) | 52.650 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 27/ 4/7/ 243 (C) | 53.148 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 27/ 4743/ 244 (C) | 52.598 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 27/ 4/7/ 244 (C) | 53.096 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 27/ 4743/ 201 (C) | 25.175 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 27/ 4743/ 201 (C) | 25.175 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 27/ 2/7/ 244 (C) | 52.764 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 27/ 2/7/ 207 (C) | 45.678 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 27/ 2/7/ 212 (C) | 52.639 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 27/ 2/7/ 243 (C) | 52.816 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 28/ 4746/ 245 (C) | 52.660>> | -0.000 | 0.012 | 0.0 | 0.008 | 0.000 |
| 28/ 4745/ 202 (C) | 16.426<< | 0.188 | -1.485 | 0.0 | 0.000 | 0.000 |
| 28/ 4745/ 217 (C) | 40.065 | 0.361>> | 1.469 | 0.0 | 0.000 | 0.000 |
| 28/ 4745/ 230 (C) | 38.292 | -0.615<< | 2.682 | 0.0 | -0.000 | -0.000 |
| 28/ 4745/ 244 (C) | 44.515 | -0.259 | 5.832>> | 0.0 | -0.000 | 0.000 |
| 28/ 4745/ 207 (C) | 40.052 | 0.173 | -1.519<< | 0.0 | 0.000 | 0.000 |
| 28/ 4745/ 201 (C) | 18.469 | -0.040 | -0.035 | 0.0>> | 0.000 | -0.000 |
| 28/ 4745/ 201 (C) | 18.469 | -0.040 | -0.035 | 0.0<< | 0.000 | -0.000 |
| 28/ 2/7/ 244 (C) | 45.281 | 0.035 | -0.794 | 0.0 | 4.101>> | 0.182 |
| 28/ 2/7/ 207 (C) | 40.818 | -0.024 | 0.207 | 0.0 | -1.068<< | -0.122 |
| 28/ 2/7/ 230 (C) | 39.058 | 0.084 | -0.365 | 0.0 | 1.886 | 0.433>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 28/ 2/7/ 217 (C) | 40.831 | -0.049 | -0.200 | 0.0 | 1.033 | -0.254<< |
| 29/ 4747/ 245 (C) | 55.571>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 29/ 4746/ 202 (C) | 21.022<< | 0.000 | -0.004 | 0.0 | -0.002 | -0.000 |
| 29/ 4746/ 217 (C) | 44.661 | 0.001>> | 0.004 | 0.0 | 0.002 | -0.001 |
| 29/ 4746/ 230 (C) | 42.889 | -0.002<< | 0.007 | 0.0 | 0.004 | 0.001 |
| 29/ 4746/ 244 (C) | 49.111 | -0.001 | 0.014>> | 0.0 | 0.009 | 0.000 |
| 29/ 2/7/ 244 (C) | 49.596 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.001 |
| 29/ 4746/ 201 (C) | 23.066 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 29/ 4746/ 201 (C) | 23.066 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 29/ 2/7/ 244 (C) | 49.596 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.001 |
| 29/ 2/7/ 207 (C) | 45.133 | -0.000 | 0.001 | 0.0 | -0.003<< | -0.000 |
| 29/ 2/7/ 230 (C) | 43.374 | 0.001 | -0.003 | 0.0 | 0.005 | 0.001>> |
| 29/ 2/7/ 217 (C) | 45.146 | -0.000 | -0.001 | 0.0 | 0.003 | -0.001<< |
| 30/ 4748/ 245 (C) | 56.567>> | -0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 30/ 4747/ 202 (C) | 23.933<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 30/ 4747/ 217 (C) | 47.572 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 30/ 4747/ 230 (C) | 45.800 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 30/ 4747/ 244 (C) | 52.022 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 30/ 4/7/ 244 (C) | 52.520 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 30/ 4747/ 201 (C) | 25.977 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 30/ 4747/ 201 (C) | 25.977 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 30/ 2/7/ 244 (C) | 52.188 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 30/ 2/7/ 207 (C) | 47.725 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 30/ 2/7/ 230 (C) | 45.966 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 30/ 2/7/ 217 (C) | 47.738 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 31/ 4750/ 243 (C) | 56.298>> | -0.002 | 0.014 | 0.0 | 0.009 | 0.001 |
| 31/ 4749/ 249 (C) | 19.993<< | -0.076 | -0.026 | 0.0 | 0.000 | -0.000 |
| 31/ 4749/ 218 (C) | 41.828 | 0.534>> | 1.499 | 0.0 | -0.000 | -0.000 |
| 31/ 4749/ 229 (C) | 45.909 | -1.183<< | 2.673 | 0.0 | -0.000 | -0.000 |
| 31/ 4749/ 244 (C) | 46.672 | -0.700 | 5.870>> | 0.0 | -0.000 | -0.000 |
| 31/ 4749/ 207 (C) | 45.822 | 0.340 | -1.525<< | 0.0 | 0.000 | -0.000 |
| 31/ 4749/ 201 (C) | 20.846 | -0.075 | -0.037 | 0.0>> | 0.000 | -0.000 |
| 31/ 4749/ 201 (C) | 20.846 | -0.075 | -0.037 | 0.0<< | 0.000 | -0.000 |
| 31/ 2/7/ 244 (C) | 47.438 | 0.095 | -0.799 | 0.0 | 4.128>> | 0.492 |
| 31/ 2/7/ 207 (C) | 46.588 | -0.046 | 0.208 | 0.0 | -1.072<< | -0.239 |
| 31/ 2/7/ 229 (C) | 46.675 | 0.161 | -0.364 | 0.0 | 1.880 | 0.832>> |
| 31/ 2/7/ 218 (C) | 42.594 | -0.073 | -0.204 | 0.0 | 1.054 | -0.376<< |
| 32/ 4751/ 243 (C) | 59.209>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 32/ 4750/ 249 (C) | 24.589<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 32/ 4750/ 218 (C) | 46.424 | 0.001>> | 0.004 | 0.0 | 0.002 | -0.001 |
| 32/ 4750/ 229 (C) | 50.506 | -0.003<< | 0.007 | 0.0 | 0.004 | 0.002 |
| 32/ 4750/ 244 (C) | 51.269 | -0.002 | 0.015>> | 0.0 | 0.009 | 0.001 |
| 32/ 2/7/ 244 (C) | 51.754 | 0.001 | -0.006<< | 0.0 | 0.011 | 0.001 |
| 32/ 4750/ 201 (C) | 25.442 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 32/ 4750/ 201 (C) | 25.442 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 32/ 2/7/ 244 (C) | 51.754 | 0.001 | -0.006 | 0.0 | 0.011>> | 0.001 |
| 32/ 2/7/ 207 (C) | 50.903 | -0.000 | 0.001 | 0.0 | -0.003<< | -0.001 |
| 32/ 2/7/ 229 (C) | 50.991 | 0.001 | -0.003 | 0.0 | 0.005 | 0.002>> |
| 32/ 2/7/ 218 (C) | 46.910 | -0.001 | -0.001 | 0.0 | 0.003 | -0.001<< |
| 33/ 4752/ 243 (C) | 60.205>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 33/ 4751/ 249 (C) | 27.500<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 33/ 4751/ 218 (C) | 49.335 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 33/ 4751/ 229 (C) | 53.416 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 33/ 4751/ 244 (C) | 54.180 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 33/ 4/7/ 244 (C) | 54.677 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 33/ 4751/ 201 (C) | 28.353 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 33/ 4751/ 201 (C) | 28.353 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 33/ 2/7/ 244 (C) | 54.346 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 33/ 2/7/ 207 (C) | 53.495 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 33/ 2/7/ 229 (C) | 53.582 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 33/ 2/7/ 218 (C) | 49.501 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 34/ 4754/ 234 (C) | 61.228>> | 0.002 | 0.003 | 0.0 | 0.002 | -0.002 |
| 34/ 4753/ 247 (C) | 18.303<< | 0.070 | 0.017 | 0.0 | -0.000 | -0.000 |
| 34/ 4753/ 240 (C) | 50.362 | 1.311>> | 4.471 | 0.0 | -0.000 | 0.000 |
| 34/ 4753/ 202 (C) | 22.259 | -0.355<< | -0.814 | 0.0 | 0.000 | -0.000 |
| 34/ 4753/ 244 (C) | 56.610 | 1.099 | 4.870>> | 0.0 | -0.000 | 0.000 |
| 34/ 4753/ 202 (C) | 22.259 | -0.355 | -0.814<< | 0.0 | 0.000 | -0.000 |
| 34/ 4753/ 201 (C) | 20.446 | 0.075 | 0.014 | 0.0>> | 0.000 | -0.000 |
| 34/ 4753/ 201 (C) | 20.446 | 0.075 | 0.014 | 0.0<< | 0.000 | -0.000 |
| 34/ 2/7/ 244 (C) | 57.376 | -0.150 | -0.663 | 0.0 | 3.424>> | -0.773 |
| 34/ 2/7/ 202 (C) | 23.025 | 0.048 | 0.111 | 0.0 | -0.573<< | 0.250 |
| 34/ 2/7/ 202 (C) | 23.025 | 0.048 | 0.111 | 0.0 | -0.573 | 0.250>> |
| 34/ 2/7/ 240 (C) | 51.128 | -0.178 | -0.609 | 0.0 | 3.144 | -0.922<< |
| 35/ 4755/ 234 (C) | 64.139>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 35/ 4754/ 247 (C) | 22.899<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 35/ 4754/ 240 (C) | 54.958 | 0.003>> | 0.011 | 0.0 | 0.007 | -0.002 |
| 35/ 2/7/ 240 (C) | 55.443 | -0.001<< | -0.004 | 0.0 | 0.009 | -0.003 |
| 35/ 4754/ 244 (C) | 61.206 | 0.003 | 0.012>> | 0.0 | 0.008 | -0.002 |
| 35/ 2/7/ 244 (C) | 61.691 | -0.001 | -0.005<< | 0.0 | 0.010 | -0.002 |
| 35/ 4754/ 201 (C) | 25.042 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 35/ 4754/ 201 (C) | 25.042 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 35/ 2/7/ 244 (C) | 61.691 | -0.001 | -0.005 | 0.0 | 0.010>> | -0.002 |
| 35/ 2/7/ 202 (C) | 27.340 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.001 |
| 35/ 2/7/ 202 (C) | 27.340 | 0.000 | 0.001 | 0.0 | -0.002 | 0.001>> |
| 35/ 2/7/ 240 (C) | 55.443 | -0.001 | -0.004 | 0.0 | 0.009 | -0.003<< |
| 36/ 4756/ 234 (C) | 65.135>> | -0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 247 (C) | 25.810<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 240 (C) | 57.869 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4/7/ 240 (C) | 58.367 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 244 (C) | 64.117 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 36/ 4/7/ 244 (C) | 64.615 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 201 (C) | 27.953 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 36/ 4755/ 201 (C) | 27.953 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 36/ 2/7/ 244 (C) | 64.283 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 36/ 2/7/ 202 (C) | 29.932 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 36/ 2/7/ 202 (C) | 29.932 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 36/ 2/7/ 240 (C) | 58.035 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 37/ 4758/ 236 (C) | 53.885>> | 0.001 | 0.002 | 0.0 | 0.001 | -0.000 |
| 37/ 4757/ 251 (C) | 15.361<< | -0.097 | -0.480 | 0.0 | 0.000 | -0.000 |
| 37/ 4757/ 240 (C) | 42.050 | 0.728>> | 4.503 | 0.0 | -0.000 | 0.000 |
| 37/ 4757/ 202 (C) | 16.935 | -0.185<< | -0.815 | 0.0 | 0.000 | -0.000 |
| 37/ 4757/ 244 (C) | 48.681 | 0.633 | 4.910>> | 0.0 | -0.000 | 0.000 |
| 37/ 4757/ 202 (C) | 16.935 | -0.185 | -0.815<< | 0.0 | 0.000 | -0.000 |
| 37/ 4757/ 201 (C) | 18.037 | 0.041 | 0.013 | 0.0>> | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 37/ 4757/ 201 (C) | 18.037 | 0.041 | 0.013 | 0.0<< | -0.000 | 0.000 |
| 37/ 2/7/ 244 (C) | 49.447 | -0.086 | -0.668 | 0.0 | 3.453>> | -0.445 |
| 37/ 2/7/ 202 (C) | 17.701 | 0.025 | 0.111 | 0.0 | -0.573<< | 0.130 |
| 37/ 2/7/ 202 (C) | 17.701 | 0.025 | 0.111 | 0.0 | -0.573 | 0.130>> |
| 37/ 2/7/ 240 (C) | 42.816 | -0.099 | -0.613 | 0.0 | 3.167 | -0.512<< |
| 38/ 4759/ 236 (C) | 56.796>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 38/ 4758/ 251 (C) | 19.957<< | -0.000 | -0.001 | 0.0 | -0.001 | 0.000 |
| 38/ 4758/ 240 (C) | 46.646 | 0.002>> | 0.011 | 0.0 | 0.007 | -0.001 |
| 38/ 2/7/ 240 (C) | 47.131 | -0.001<< | -0.004 | 0.0 | 0.009 | -0.001 |
| 38/ 4758/ 244 (C) | 53.277 | 0.002 | 0.012>> | 0.0 | 0.008 | -0.001 |
| 38/ 2/7/ 244 (C) | 53.762 | -0.001 | -0.005<< | 0.0 | 0.010 | -0.001 |
| 38/ 4758/ 201 (C) | 22.633 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 38/ 4758/ 201 (C) | 22.633 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 38/ 2/7/ 244 (C) | 53.762 | -0.001 | -0.005 | 0.0 | 0.010>> | -0.001 |
| 38/ 2/7/ 202 (C) | 22.017 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.000 |
| 38/ 2/7/ 202 (C) | 22.017 | 0.000 | 0.001 | 0.0 | -0.002 | 0.000>> |
| 38/ 2/7/ 240 (C) | 47.131 | -0.001 | -0.004 | 0.0 | 0.009 | -0.001<< |
| 39/ 4760/ 236 (C) | 57.792>> | -0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 39/ 4759/ 251 (C) | 22.868<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 39/ 4759/ 240 (C) | 49.557 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 39/ 4/7/ 240 (C) | 50.055 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 39/ 4759/ 244 (C) | 56.188 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 39/ 4/7/ 244 (C) | 56.686 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 39/ 4759/ 201 (C) | 25.544 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 39/ 4759/ 201 (C) | 25.544 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 39/ 2/7/ 244 (C) | 56.354 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 39/ 2/7/ 202 (C) | 24.608 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 39/ 2/7/ 202 (C) | 24.608 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 39/ 2/7/ 240 (C) | 49.723 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 40/ 4762/ 235 (C) | 50.222>> | 0.000 | 0.002 | 0.0 | 0.001 | -0.000 |
| 40/ 4761/ 255 (C) | 13.975<< | -0.007 | -0.480 | 0.0 | 0.000 | -0.000 |
| 40/ 4761/ 243 (C) | 44.451 | 0.133>> | 4.958 | 0.0 | -0.000 | -0.000 |
| 40/ 3/7/ 243 (C) | 45.983 | -0.022<< | -0.806 | 0.0 | 1.149 | -0.031 |
| 40/ 4761/ 244 (C) | 44.394 | 0.125 | 4.958>> | 0.0 | -0.000 | -0.000 |
| 40/ 4761/ 202 (C) | 15.133 | -0.000 | -0.816<< | 0.0 | 0.000 | -0.000 |
| 40/ 4761/ 201 (C) | 17.210 | 0.000 | 0.013 | 0.0>> | -0.000 | 0.000 |
| 40/ 4761/ 201 (C) | 17.210 | 0.000 | 0.013 | 0.0<< | -0.000 | 0.000 |
| 40/ 2/7/ 244 (C) | 45.160 | -0.017 | -0.675 | 0.0 | 3.486>> | -0.088 |
| 40/ 2/7/ 202 (C) | 15.899 | 0.000 | 0.111 | 0.0 | -0.573<< | 0.000 |
| 40/ 2/7/ 257 (C) | 17.865 | 0.001 | 0.063 | 0.0 | -0.327 | 0.007>> |
| 40/ 2/7/ 243 (C) | 45.217 | -0.018 | -0.675 | 0.0 | 3.486 | -0.093<< |
| 41/ 4763/ 235 (C) | 53.133>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 41/ 4762/ 255 (C) | 18.571<< | -0.000 | -0.001 | 0.0 | -0.001 | 0.000 |
| 41/ 4762/ 243 (C) | 49.047 | 0.000>> | 0.012 | 0.0 | 0.008 | -0.000 |
| 41/ 2/7/ 243 (C) | 49.533 | -0.000<< | -0.005 | 0.0 | 0.010 | -0.000 |
| 41/ 4762/ 244 (C) | 48.990 | 0.000 | 0.012>> | 0.0 | 0.008 | -0.000 |
| 41/ 2/7/ 244 (C) | 49.475 | -0.000 | -0.005<< | 0.0 | 0.010 | -0.000 |
| 41/ 4762/ 201 (C) | 21.806 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 41/ 4762/ 201 (C) | 21.806 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 41/ 2/7/ 244 (C) | 49.475 | -0.000 | -0.005 | 0.0 | 0.010>> | -0.000 |
| 41/ 2/7/ 202 (C) | 20.214 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.000 |
| 41/ 2/7/ 257 (C) | 22.180 | 0.000 | 0.000 | 0.0 | -0.001 | 0.000>> |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 41/ 2/7/ 243 (C) | 49.533 | -0.000 | -0.005 | 0.0 | 0.010 | -0.000<< |
| 42/ 4764/ 235 (C) | 54.129>> | 0.000 | 0.000 | 0.0 | -0.000 | -0.000 |
| 42/ 4763/ 255 (C) | 21.482<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 42/ 4763/ 243 (C) | 51.958 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 42/ 4/7/ 243 (C) | 52.456 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 42/ 4763/ 244 (C) | 51.901 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 42/ 4/7/ 244 (C) | 52.399 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 42/ 4763/ 201 (C) | 24.717 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 42/ 4763/ 201 (C) | 24.717 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 42/ 2/7/ 244 (C) | 52.067 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 42/ 2/7/ 202 (C) | 22.806 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 42/ 2/7/ 257 (C) | 24.772 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 42/ 2/7/ 243 (C) | 52.124 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 43/ 4766/ 245 (C) | 51.472>> | -0.000 | 0.011 | 0.0 | 0.007 | 0.000 |
| 43/ 4765/ 255 (C) | 15.233<< | 0.090 | -0.476 | 0.0 | 0.000 | 0.000 |
| 43/ 4765/ 218 (C) | 37.970 | 0.277>> | 2.187 | 0.0 | -0.000 | 0.000 |
| 43/ 4765/ 229 (C) | 40.130 | -0.618<< | 1.587 | 0.0 | -0.000 | -0.000 |
| 43/ 4765/ 243 (C) | 46.284 | -0.363 | 4.999>> | 0.0 | -0.000 | -0.000 |
| 43/ 4765/ 202 (C) | 16.935 | 0.185 | -0.815<< | 0.0 | 0.000 | 0.000 |
| 43/ 4765/ 201 (C) | 18.037 | -0.041 | 0.013 | 0.0>> | -0.000 | 0.000 |
| 43/ 4765/ 201 (C) | 18.037 | -0.041 | 0.013 | 0.0<< | -0.000 | 0.000 |
| 43/ 2/7/ 243 (C) | 47.050 | 0.049 | -0.681 | 0.0 | 3.515>> | 0.255 |
| 43/ 2/7/ 202 (C) | 17.701 | -0.025 | 0.111 | 0.0 | -0.573<< | -0.130 |
| 43/ 2/7/ 229 (C) | 40.897 | 0.084 | -0.216 | 0.0 | 1.116 | 0.435>> |
| 43/ 2/7/ 218 (C) | 38.736 | -0.038 | -0.298 | 0.0 | 1.538 | -0.195<< |
| 44/ 4767/ 245 (C) | 54.383>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 44/ 4766/ 255 (C) | 19.829<< | 0.000 | -0.001 | 0.0 | -0.001 | -0.000 |
| 44/ 4766/ 218 (C) | 42.566 | 0.001>> | 0.005 | 0.0 | 0.004 | -0.000 |
| 44/ 4766/ 229 (C) | 44.727 | -0.002<< | 0.004 | 0.0 | 0.003 | 0.001 |
| 44/ 4766/ 243 (C) | 50.880 | -0.001 | 0.012>> | 0.0 | 0.008 | 0.001 |
| 44/ 2/7/ 243 (C) | 51.365 | 0.000 | -0.005<< | 0.0 | 0.010 | 0.001 |
| 44/ 4766/ 201 (C) | 22.633 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 44/ 4766/ 201 (C) | 22.633 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 44/ 2/7/ 243 (C) | 51.365 | 0.000 | -0.005 | 0.0 | 0.010>> | 0.001 |
| 44/ 2/7/ 202 (C) | 22.017 | -0.000 | 0.001 | 0.0 | -0.002<< | -0.000 |
| 44/ 2/7/ 229 (C) | 45.212 | 0.001 | -0.001 | 0.0 | 0.003 | 0.001>> |
| 44/ 2/7/ 218 (C) | 43.051 | -0.000 | -0.002 | 0.0 | 0.004 | -0.001<< |
| 45/ 4768/ 245 (C) | 55.379>> | 0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 45/ 4767/ 255 (C) | 22.740<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 45/ 4767/ 218 (C) | 45.477 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 45/ 4767/ 229 (C) | 47.638 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 45/ 4767/ 243 (C) | 53.791 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 45/ 4/7/ 243 (C) | 54.289 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 45/ 4767/ 201 (C) | 25.544 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 45/ 4767/ 201 (C) | 25.544 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 45/ 2/7/ 243 (C) | 53.957 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 45/ 2/7/ 202 (C) | 24.608 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 45/ 2/7/ 229 (C) | 47.804 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 45/ 2/7/ 218 (C) | 45.643 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 46/ 4770/ 243 (C) | 55.836>> | -0.002 | 0.012 | 0.0 | 0.008 | 0.001 |
| 46/ 4769/ 249 (C) | 18.027<< | -0.076 | 0.024 | 0.0 | -0.000 | -0.000 |
| 46/ 4769/ 218 (C) | 41.760 | 0.450>> | 2.220 | 0.0 | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 46/ 4769/ 229 (C) | 46.054 | -1.189<< | 1.588 | 0.0 | -0.000 | -0.000 |
| 46/ 4769/ 243 (C) | 51.239 | -0.813 | 5.041>> | 0.0 | -0.000 | -0.000 |
| 46/ 3/7/ 243 (C) | 52.771 | 0.132 | -0.819<< | 0.0 | 1.168 | 0.188 |
| 46/ 4769/ 201 (C) | 20.446 | -0.075 | 0.014 | 0.0>> | -0.000 | -0.000 |
| 46/ 4769/ 201 (C) | 20.446 | -0.075 | 0.014 | 0.0<< | -0.000 | -0.000 |
| 46/ 2/7/ 243 (C) | 52.005 | 0.111 | -0.686 | 0.0 | 3.544>> | 0.572 |
| 46/ 2/7/ 202 (C) | 23.025 | -0.048 | 0.111 | 0.0 | -0.573<< | -0.250 |
| 46/ 2/7/ 229 (C) | 46.820 | 0.162 | -0.216 | 0.0 | 1.116 | 0.836>> |
| 46/ 2/7/ 218 (C) | 42.526 | -0.061 | -0.302 | 0.0 | 1.561 | -0.317<< |
| 47/ 4771/ 243 (C) | 58.747>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 47/ 4770/ 249 (C) | 22.624<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 47/ 2/7/ 229 (C) | 51.136 | 0.001>> | -0.001 | 0.0 | 0.003 | 0.002 |
| 47/ 4770/ 229 (C) | 50.651 | -0.003<< | 0.004 | 0.0 | 0.003 | 0.002 |
| 47/ 4770/ 243 (C) | 55.836 | -0.002 | 0.012>> | 0.0 | 0.008 | 0.001 |
| 47/ 2/7/ 243 (C) | 56.321 | 0.001 | -0.005<< | 0.0 | 0.010 | 0.002 |
| 47/ 4770/ 201 (C) | 25.042 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 47/ 4770/ 201 (C) | 25.042 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 47/ 2/7/ 243 (C) | 56.321 | 0.001 | -0.005 | 0.0 | 0.010>> | 0.002 |
| 47/ 2/7/ 202 (C) | 27.340 | -0.000 | 0.001 | 0.0 | -0.002<< | -0.001 |
| 47/ 2/7/ 229 (C) | 51.136 | 0.001 | -0.001 | 0.0 | 0.003 | 0.002>> |
| 47/ 2/7/ 218 (C) | 46.841 | -0.000 | -0.002 | 0.0 | 0.004 | -0.001<< |
| 48/ 4772/ 243 (C) | 59.742>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 249 (C) | 25.535<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4/7/ 229 (C) | 54.060 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 229 (C) | 53.562 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 243 (C) | 58.747 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 48/ 4/7/ 243 (C) | 59.244 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 201 (C) | 27.953 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 48/ 4771/ 201 (C) | 27.953 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 48/ 2/7/ 243 (C) | 58.912 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 48/ 2/7/ 202 (C) | 29.932 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 48/ 2/7/ 229 (C) | 53.728 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 48/ 2/7/ 218 (C) | 49.433 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 49/ 4774/ 234 (C) | 54.104>> | 0.002 | 0.001 | 0.0 | 0.001 | -0.002 |
| 49/ 4773/ 248 (C) | 16.558<< | 0.066 | -0.036 | 0.0 | -0.000 | 0.000 |
| 49/ 4773/ 240 (C) | 44.313 | 1.219>> | 3.282 | 0.0 | -0.000 | 0.000 |
| 49/ 4773/ 202 (C) | 19.937 | -0.361<< | -0.190 | 0.0 | 0.000 | -0.000 |
| 49/ 4773/ 244 (C) | 49.471 | 0.987 | 3.925>> | 0.0 | -0.000 | 0.000 |
| 49/ 3/7/ 244 (C) | 51.003 | -0.160 | -0.638<< | 0.0 | 0.910 | -0.229 |
| 49/ 4773/ 201 (C) | 17.677 | 0.070 | 0.004 | 0.0>> | -0.000 | 0.000 |
| 49/ 4773/ 201 (C) | 17.677 | 0.070 | 0.004 | 0.0<< | -0.000 | 0.000 |
| 49/ 2/7/ 244 (C) | 50.237 | -0.134 | -0.534 | 0.0 | 2.760>> | -0.694 |
| 49/ 2/7/ 255 (C) | 20.779 | 0.025 | 0.028 | 0.0 | -0.144<< | 0.131 |
| 49/ 2/7/ 202 (C) | 20.703 | 0.049 | 0.026 | 0.0 | -0.133 | 0.254>> |
| 49/ 2/7/ 240 (C) | 45.079 | -0.166 | -0.447 | 0.0 | 2.308 | -0.858<< |
| 50/ 4775/ 234 (C) | 57.015>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 50/ 4774/ 248 (C) | 21.155<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 50/ 4774/ 240 (C) | 48.909 | 0.003>> | 0.008 | 0.0 | 0.005 | -0.002 |
| 50/ 2/7/ 240 (C) | 49.394 | -0.001<< | -0.003 | 0.0 | 0.006 | -0.002 |
| 50/ 4774/ 244 (C) | 54.067 | 0.002 | 0.010>> | 0.0 | 0.006 | -0.002 |
| 50/ 2/7/ 244 (C) | 54.553 | -0.001 | -0.004<< | 0.0 | 0.008 | -0.002 |
| 50/ 4774/ 201 (C) | 22.273 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 50/ 4774/ 201 (C) | 22.273 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 50/ 2/7/ 244 (C) | 54.553 | -0.001 | -0.004 | 0.0 | 0.008>> | -0.002 |
| 50/ 2/7/ 255 (C) | 25.094 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 50/ 2/7/ 202 (C) | 25.018 | 0.000 | 0.000 | 0.0 | -0.000 | 0.001>> |
| 50/ 2/7/ 240 (C) | 49.394 | -0.001 | -0.003 | 0.0 | 0.006 | -0.002<< |
| 51/ 4776/ 234 (C) | 58.010>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 51/ 4775/ 248 (C) | 24.065<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 51/ 4775/ 240 (C) | 51.820 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 51/ 4/7/ 240 (C) | 52.318 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 51/ 4775/ 244 (C) | 56.978 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 51/ 4/7/ 244 (C) | 57.476 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 51/ 4775/ 201 (C) | 25.184 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 51/ 4775/ 201 (C) | 25.184 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 51/ 2/7/ 244 (C) | 57.144 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 51/ 2/7/ 255 (C) | 27.686 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 51/ 2/7/ 202 (C) | 27.610 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 51/ 2/7/ 240 (C) | 51.986 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 52/ 4778/ 236 (C) | 46.752>> | 0.001 | 0.001 | 0.0 | 0.000 | -0.000 |
| 52/ 4777/ 253 (C) | 14.034<< | -0.099 | -0.154 | 0.0 | 0.000 | 0.000 |
| 52/ 4777/ 240 (C) | 36.273 | 0.642>> | 3.314 | 0.0 | -0.000 | 0.000 |
| 52/ 4777/ 202 (C) | 14.790 | -0.188<< | -0.192 | 0.0 | 0.000 | 0.000 |
| 52/ 4777/ 244 (C) | 41.814 | 0.527 | 3.966>> | 0.0 | -0.000 | 0.000 |
| 52/ 3/7/ 244 (C) | 43.346 | -0.086 | -0.645<< | 0.0 | 0.919 | -0.122 |
| 52/ 4777/ 201 (C) | 15.387 | 0.039 | 0.004 | 0.0>> | -0.000 | 0.000 |
| 52/ 4777/ 201 (C) | 15.387 | 0.039 | 0.004 | 0.0<< | -0.000 | 0.000 |
| 52/ 2/7/ 244 (C) | 42.580 | -0.072 | -0.540 | 0.0 | 2.789>> | -0.370 |
| 52/ 2/7/ 255 (C) | 16.091 | 0.013 | 0.026 | 0.0 | -0.136<< | 0.068 |
| 52/ 2/7/ 202 (C) | 15.556 | 0.026 | 0.026 | 0.0 | -0.135 | 0.132>> |
| 52/ 2/7/ 240 (C) | 37.039 | -0.087 | -0.451 | 0.0 | 2.330 | -0.451<< |
| 53/ 4779/ 236 (C) | 49.663>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 53/ 4778/ 253 (C) | 18.630<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 53/ 4778/ 240 (C) | 40.869 | 0.002>> | 0.008 | 0.0 | 0.005 | -0.001 |
| 53/ 2/7/ 240 (C) | 41.354 | -0.001<< | -0.003 | 0.0 | 0.006 | -0.001 |
| 53/ 4778/ 244 (C) | 46.410 | 0.001 | 0.010>> | 0.0 | 0.006 | -0.001 |
| 53/ 2/7/ 244 (C) | 46.896 | -0.000 | -0.004<< | 0.0 | 0.008 | -0.001 |
| 53/ 4778/ 201 (C) | 19.983 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 53/ 4778/ 201 (C) | 19.983 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 53/ 2/7/ 244 (C) | 46.896 | -0.000 | -0.004 | 0.0 | 0.008>> | -0.001 |
| 53/ 2/7/ 255 (C) | 20.406 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 53/ 2/7/ 202 (C) | 19.872 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 53/ 2/7/ 240 (C) | 41.354 | -0.001 | -0.003 | 0.0 | 0.006 | -0.001<< |
| 54/ 4780/ 236 (C) | 50.659>> | 0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 54/ 4779/ 253 (C) | 21.541<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 54/ 4779/ 240 (C) | 43.780 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 54/ 4/7/ 240 (C) | 44.278 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 54/ 4779/ 244 (C) | 49.321 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 54/ 4/7/ 244 (C) | 49.819 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 54/ 4779/ 201 (C) | 22.894 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 54/ 4779/ 201 (C) | 22.894 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 54/ 2/7/ 244 (C) | 49.487 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 54/ 2/7/ 255 (C) | 22.998 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 54/ 2/7/ 202 (C) | 22.464 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 54/ 2/7/ 240 (C) | 43.946 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 55/ 4782/ 235 (C) | 43.239>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 257 (C) | 12.694<< | -0.011 | -0.155 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 223 (C) | 37.695 | 0.032>> | 3.832 | 0.0 | -0.000 | 0.000 |
| 55/ 4781/ 269 (C) | 12.742 | -0.011<< | 0.024 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 243 (C) | 37.744 | 0.032 | 4.012>> | 0.0 | -0.000 | -0.000 |
| 55/ 3/7/ 243 (C) | 39.276 | -0.005 | -0.652<< | 0.0 | 0.930 | -0.007 |
| 55/ 4781/ 201 (C) | 14.587 | 0.000 | 0.003 | 0.0>> | -0.000 | 0.000 |
| 55/ 4781/ 201 (C) | 14.587 | 0.000 | 0.003 | 0.0<< | -0.000 | 0.000 |
| 55/ 2/7/ 243 (C) | 38.510 | -0.004 | -0.546 | 0.0 | 2.821>> | -0.022 |
| 55/ 2/7/ 202 (C) | 13.809 | -0.000 | 0.026 | 0.0 | -0.136<< | -0.000 |
| 55/ 2/7/ 269 (C) | 13.508 | 0.002 | -0.003 | 0.0 | 0.017 | 0.008>> |
| 55/ 2/7/ 223 (C) | 38.461 | -0.004 | -0.522 | 0.0 | 2.695 | -0.022<< |
| 56/ 4783/ 235 (C) | 46.150>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 56/ 4782/ 257 (C) | 17.290<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 56/ 4782/ 223 (C) | 42.291 | 0.000>> | 0.009 | 0.0 | 0.006 | -0.000 |
| 56/ 2/7/ 223 (C) | 42.777 | -0.000<< | -0.004 | 0.0 | 0.007 | -0.000 |
| 56/ 4782/ 243 (C) | 42.340 | 0.000 | 0.010>> | 0.0 | 0.006 | -0.000 |
| 56/ 2/7/ 243 (C) | 42.825 | -0.000 | -0.004<< | 0.0 | 0.008 | -0.000 |
| 56/ 4782/ 201 (C) | 19.183 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 56/ 4782/ 201 (C) | 19.183 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 56/ 2/7/ 243 (C) | 42.825 | -0.000 | -0.004 | 0.0 | 0.008>> | -0.000 |
| 56/ 2/7/ 202 (C) | 18.124 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 56/ 2/7/ 269 (C) | 17.824 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 56/ 2/7/ 223 (C) | 42.777 | -0.000 | -0.004 | 0.0 | 0.007 | -0.000<< |
| 57/ 4784/ 235 (C) | 47.146>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 57/ 4783/ 257 (C) | 20.201<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 57/ 4783/ 223 (C) | 45.202 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 57/ 4/7/ 223 (C) | 45.700 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 57/ 4783/ 243 (C) | 45.251 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 57/ 4/7/ 243 (C) | 45.749 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 57/ 4783/ 201 (C) | 22.094 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 57/ 4783/ 201 (C) | 22.094 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 57/ 2/7/ 243 (C) | 45.417 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 57/ 2/7/ 202 (C) | 20.716 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 57/ 2/7/ 269 (C) | 20.415 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 57/ 2/7/ 223 (C) | 45.368 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 58/ 4786/ 235 (C) | 44.494>> | -0.001 | 0.000 | 0.0 | 0.000 | 0.000 |
| 58/ 4785/ 257 (C) | 13.899<< | 0.088 | -0.158 | 0.0 | 0.000 | 0.000 |
| 58/ 4785/ 217 (C) | 34.339 | 0.197>> | 2.808 | 0.0 | -0.000 | 0.000 |
| 58/ 4785/ 230 (C) | 32.623 | -0.616<< | 0.395 | 0.0 | 0.000 | -0.000 |
| 58/ 4785/ 243 (C) | 39.558 | -0.461 | 4.053>> | 0.0 | -0.000 | -0.000 |
| 58/ 3/7/ 243 (C) | 41.090 | 0.075 | -0.659<< | 0.0 | 0.939 | 0.107 |
| 58/ 4785/ 201 (C) | 15.387 | -0.039 | 0.004 | 0.0>> | 0.000 | -0.000 |
| 58/ 4785/ 201 (C) | 15.387 | -0.039 | 0.004 | 0.0<< | 0.000 | -0.000 |
| 58/ 2/7/ 243 (C) | 40.324 | 0.063 | -0.552 | 0.0 | 2.850>> | 0.324 |
| 58/ 2/7/ 202 (C) | 15.556 | -0.026 | 0.026 | 0.0 | -0.135<< | -0.132 |
| 58/ 2/7/ 230 (C) | 33.389 | 0.084 | -0.054 | 0.0 | 0.278 | 0.433>> |
| 58/ 2/7/ 217 (C) | 35.105 | -0.027 | -0.382 | 0.0 | 1.975 | -0.138<< |
| 59/ 4787/ 235 (C) | 47.405>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 59/ 4786/ 257 (C) | 18.495<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 59/ 2/7/ 230 (C) | 37.704 | 0.001>> | -0.000 | 0.0 | 0.001 | 0.001 |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 59/ 4786/ 230 (C) | 37.219 | -0.002<< | 0.001 | 0.0 | 0.001 | 0.001 |
| 59/ 4786/ 243 (C) | 44.154 | -0.001 | 0.010>> | 0.0 | 0.007 | 0.001 |
| 59/ 2/7/ 243 (C) | 44.640 | 0.000 | -0.004<< | 0.0 | 0.008 | 0.001 |
| 59/ 4786/ 201 (C) | 19.983 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 59/ 4786/ 201 (C) | 19.983 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 59/ 2/7/ 243 (C) | 44.640 | 0.000 | -0.004 | 0.0 | 0.008>> | 0.001 |
| 59/ 2/7/ 202 (C) | 19.872 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 59/ 2/7/ 230 (C) | 37.704 | 0.001 | -0.000 | 0.0 | 0.001 | 0.001>> |
| 59/ 2/7/ 217 (C) | 39.420 | -0.000 | -0.003 | 0.0 | 0.005 | -0.000<< |
| 60/ 4788/ 235 (C) | 48.400>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 257 (C) | 21.406<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 60/ 4/7/ 230 (C) | 40.628 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 230 (C) | 40.130 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 243 (C) | 47.065 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 60/ 4/7/ 243 (C) | 47.563 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 201 (C) | 22.894 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 60/ 4787/ 201 (C) | 22.894 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 60/ 2/7/ 243 (C) | 47.231 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 60/ 2/7/ 202 (C) | 22.464 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 60/ 2/7/ 230 (C) | 40.296 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 60/ 2/7/ 217 (C) | 42.012 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 61/ 4790/ 233 (C) | 48.994>> | -0.002 | 0.001 | 0.0 | 0.001 | 0.002 |
| 61/ 4789/ 250 (C) | 16.273<< | -0.076 | -0.045 | 0.0 | 0.000 | -0.000 |
| 61/ 4789/ 218 (C) | 36.182 | 0.376>> | 2.837 | 0.0 | -0.000 | 0.000 |
| 61/ 4789/ 229 (C) | 40.254 | -1.180<< | 0.397 | 0.0 | 0.000 | 0.000 |
| 61/ 4789/ 243 (C) | 44.368 | -0.906 | 4.092>> | 0.0 | -0.000 | -0.000 |
| 61/ 3/7/ 243 (C) | 45.900 | 0.147 | -0.665<< | 0.0 | 0.948 | 0.210 |
| 61/ 4789/ 201 (C) | 17.677 | -0.070 | 0.004 | 0.0>> | -0.000 | -0.000 |
| 61/ 4789/ 201 (C) | 17.677 | -0.070 | 0.004 | 0.0<< | -0.000 | -0.000 |
| 61/ 2/7/ 243 (C) | 45.134 | 0.123 | -0.557 | 0.0 | 2.878>> | 0.637 |
| 61/ 2/7/ 251 (C) | 19.893 | -0.025 | 0.026 | 0.0 | -0.134<< | -0.130 |
| 61/ 2/7/ 229 (C) | 41.020 | 0.161 | -0.054 | 0.0 | 0.279 | 0.830>> |
| 61/ 2/7/ 218 (C) | 36.948 | -0.051 | -0.386 | 0.0 | 1.995 | -0.264<< |
| 62/ 4791/ 233 (C) | 51.905>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 62/ 4790/ 250 (C) | 20.869<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 62/ 2/7/ 229 (C) | 45.336 | 0.001>> | -0.000 | 0.0 | 0.001 | 0.002 |
| 62/ 4790/ 229 (C) | 44.850 | -0.003<< | 0.001 | 0.0 | 0.001 | 0.002 |
| 62/ 4790/ 243 (C) | 48.964 | -0.002 | 0.010>> | 0.0 | 0.007 | 0.001 |
| 62/ 2/7/ 243 (C) | 49.449 | 0.001 | -0.004<< | 0.0 | 0.008 | 0.002 |
| 62/ 4790/ 201 (C) | 22.273 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 62/ 4790/ 201 (C) | 22.273 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 62/ 2/7/ 243 (C) | 49.449 | 0.001 | -0.004 | 0.0 | 0.008>> | 0.002 |
| 62/ 2/7/ 251 (C) | 24.208 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 62/ 2/7/ 229 (C) | 45.336 | 0.001 | -0.000 | 0.0 | 0.001 | 0.002>> |
| 62/ 2/7/ 218 (C) | 41.264 | -0.000 | -0.003 | 0.0 | 0.006 | -0.001<< |
| 63/ 4792/ 233 (C) | 52.901>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 250 (C) | 23.780<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 63/ 4/7/ 229 (C) | 48.259 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 229 (C) | 47.761 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 243 (C) | 51.875 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 63/ 4/7/ 243 (C) | 52.373 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 201 (C) | 25.184 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 63/ 4791/ 201 (C) | 25.184 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 63/ 2/7/ 243 (C) | 52.041 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 63/ 2/7/ 251 (C) | 26.800 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 63/ 2/7/ 229 (C) | 47.927 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 63/ 2/7/ 218 (C) | 43.855 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 64/ 4794/ 244 (C) | 56.145>> | 0.002 | 0.008 | 0.0 | 0.005 | -0.001 |
| 64/ 4793/ 248 (C) | 18.357<< | 0.064 | -0.113 | 0.0 | -0.000 | -0.000 |
| 64/ 4793/ 230 (C) | 45.945 | 1.187>> | -0.533 | 0.0 | 0.000 | 0.000 |
| 64/ 4793/ 217 (C) | 41.811 | -0.375<< | 2.984 | 0.0 | -0.000 | -0.000 |
| 64/ 4793/ 221 (C) | 46.406 | -0.203 | 3.594>> | 0.0 | 0.000 | 0.000 |
| 64/ 4793/ 268 (C) | 31.206 | 0.935 | -0.607<< | 0.0 | 0.000 | 0.000 |
| 64/ 4793/ 201 (C) | 19.014 | 0.067 | -0.068 | 0.0>> | 0.000 | 0.000 |
| 64/ 4793/ 201 (C) | 19.014 | 0.067 | -0.068 | 0.0<< | 0.000 | 0.000 |
| 64/ 2/7/ 221 (C) | 47.172 | 0.028 | -0.489 | 0.0 | 2.527>> | 0.143 |
| 64/ 2/7/ 268 (C) | 31.972 | -0.127 | 0.083 | 0.0 | -0.427<< | -0.658 |
| 64/ 2/7/ 217 (C) | 42.577 | 0.051 | -0.406 | 0.0 | 2.098 | 0.264>> |
| 64/ 2/7/ 230 (C) | 46.711 | -0.162 | 0.072 | 0.0 | -0.374 | -0.835<< |
| 65/ 4795/ 244 (C) | 59.056>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 65/ 4794/ 248 (C) | 22.953<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 65/ 4794/ 230 (C) | 50.541 | 0.003>> | -0.001 | 0.0 | -0.001 | -0.002 |
| 65/ 2/7/ 230 (C) | 51.026 | -0.001<< | 0.001 | 0.0 | -0.001 | -0.002 |
| 65/ 4794/ 221 (C) | 51.002 | -0.001 | 0.009>> | 0.0 | 0.006 | 0.000 |
| 65/ 2/7/ 221 (C) | 51.487 | 0.000 | -0.003<< | 0.0 | 0.007 | 0.000 |
| 65/ 4794/ 201 (C) | 23.611 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 65/ 4794/ 201 (C) | 23.611 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 65/ 2/7/ 221 (C) | 51.487 | 0.000 | -0.003 | 0.0 | 0.007>> | 0.000 |
| 65/ 2/7/ 268 (C) | 36.287 | -0.001 | 0.001 | 0.0 | -0.001<< | -0.002 |
| 65/ 2/7/ 217 (C) | 46.893 | 0.000 | -0.003 | 0.0 | 0.006 | 0.001>> |
| 65/ 2/7/ 230 (C) | 51.026 | -0.001 | 0.001 | 0.0 | -0.001 | -0.002<< |
| 66/ 4796/ 244 (C) | 60.052>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 66/ 4795/ 248 (C) | 25.864<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 66/ 4795/ 230 (C) | 53.452 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 66/ 4/7/ 230 (C) | 53.950 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 66/ 4795/ 221 (C) | 53.913 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 66/ 4/7/ 221 (C) | 54.411 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 66/ 4795/ 201 (C) | 26.522 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 66/ 4795/ 201 (C) | 26.522 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 66/ 2/7/ 221 (C) | 54.079 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 66/ 2/7/ 268 (C) | 38.879 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 66/ 2/7/ 217 (C) | 49.485 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 66/ 2/7/ 230 (C) | 53.618 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 67/ 4798/ 246 (C) | 49.143>> | 0.001 | 0.008 | 0.0 | 0.005 | -0.000 |
| 67/ 4797/ 253 (C) | 15.591<< | -0.100 | 0.027 | 0.0 | -0.000 | -0.000 |
| 67/ 4797/ 230 (C) | 38.041 | 0.614>> | -0.535 | 0.0 | 0.000 | 0.000 |
| 67/ 4797/ 217 (C) | 36.074 | -0.202<< | 3.015 | 0.0 | -0.000 | -0.000 |
| 67/ 4797/ 221 (C) | 41.575 | -0.114 | 3.634>> | 0.0 | -0.000 | -0.000 |
| 67/ 4797/ 268 (C) | 25.779 | 0.485 | -0.594<< | 0.0 | 0.000 | 0.000 |
| 67/ 4797/ 201 (C) | 16.794 | 0.038 | -0.070 | 0.0>> | 0.000 | 0.000 |
| 67/ 4797/ 201 (C) | 16.794 | 0.038 | -0.070 | 0.0<< | 0.000 | 0.000 |
| 67/ 2/7/ 221 (C) | 42.341 | 0.016 | -0.495 | 0.0 | 2.555>> | 0.080 |
| 67/ 2/7/ 268 (C) | 26.545 | -0.066 | 0.081 | 0.0 | -0.418<< | -0.341 |
| 67/ 2/7/ 217 (C) | 36.840 | 0.028 | -0.410 | 0.0 | 2.120 | 0.142>> |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 67/ 2/7/ 230 (C) | 38.807 | -0.084 | 0.073 | 0.0 | -0.376 | -0.432<< |
| 68/ 4799/ 246 (C) | 52.054>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 68/ 4798/ 253 (C) | 20.187<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 68/ 4798/ 230 (C) | 42.637 | 0.002>> | -0.001 | 0.0 | -0.001 | -0.001 |
| 68/ 2/7/ 230 (C) | 43.122 | -0.001<< | 0.001 | 0.0 | -0.001 | -0.001 |
| 68/ 4798/ 221 (C) | 46.172 | -0.000 | 0.009>> | 0.0 | 0.006 | 0.000 |
| 68/ 2/7/ 221 (C) | 46.657 | 0.000 | -0.003<< | 0.0 | 0.007 | 0.000 |
| 68/ 4798/ 201 (C) | 21.391 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 68/ 4798/ 201 (C) | 21.391 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 68/ 2/7/ 221 (C) | 46.657 | 0.000 | -0.003 | 0.0 | 0.007>> | 0.000 |
| 68/ 2/7/ 268 (C) | 30.860 | -0.000 | 0.001 | 0.0 | -0.001<< | -0.001 |
| 68/ 2/7/ 217 (C) | 41.156 | 0.000 | -0.003 | 0.0 | 0.006 | 0.000>> |
| 68/ 2/7/ 230 (C) | 43.122 | -0.001 | 0.001 | 0.0 | -0.001 | -0.001<< |
| 69/ 4800/ 246 (C) | 53.050>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 69/ 4799/ 253 (C) | 23.098<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 69/ 4799/ 230 (C) | 45.548 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 69/ 4/7/ 230 (C) | 46.046 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 69/ 4799/ 221 (C) | 49.082 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 69/ 4/7/ 221 (C) | 49.580 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 69/ 4799/ 201 (C) | 24.302 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 69/ 4799/ 201 (C) | 24.302 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 69/ 2/7/ 221 (C) | 49.248 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 69/ 2/7/ 268 (C) | 33.452 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 69/ 2/7/ 217 (C) | 43.748 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 69/ 2/7/ 230 (C) | 45.714 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 70/ 4802/ 245 (C) | 45.602>> | -0.000 | 0.008 | 0.0 | 0.005 | 0.000 |
| 70/ 4801/ 202 (C) | 14.045<< | 0.000 | 0.165 | 0.0 | -0.000 | 0.000 |
| 70/ 3/7/ 244 (C) | 41.373 | 0.007>> | -0.523 | 0.0 | 0.746 | 0.010 |
| 70/ 4801/ 244 (C) | 39.841 | -0.044<< | 3.219 | 0.0 | -0.000 | -0.000 |
| 70/ 4801/ 221 (C) | 39.776 | -0.035 | 3.680>> | 0.0 | -0.000 | -0.000 |
| 70/ 3/7/ 221 (C) | 41.308 | 0.006 | -0.598<< | 0.0 | 0.853 | 0.008 |
| 70/ 4801/ 201 (C) | 16.015 | -0.000 | -0.070 | 0.0>> | 0.000 | -0.000 |
| 70/ 4801/ 201 (C) | 16.015 | -0.000 | -0.070 | 0.0<< | 0.000 | -0.000 |
| 70/ 2/7/ 221 (C) | 40.542 | 0.005 | -0.501 | 0.0 | 2.587>> | 0.025 |
| 70/ 2/7/ 264 (C) | 24.170 | 0.000 | 0.080 | 0.0 | -0.411<< | 0.000 |
| 70/ 2/7/ 244 (C) | 40.607 | 0.006 | -0.438 | 0.0 | 2.264 | 0.031>> |
| 70/ 5/7/ 244 (C) | 42.905 | -0.000 | 0.021 | 0.0 | -0.095 | -0.001<< |
| 71/ 4803/ 245 (C) | 48.513>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 71/ 4802/ 202 (C) | 18.642<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 71/ 2/7/ 244 (C) | 44.922 | 0.000>> | -0.003 | 0.0 | 0.006 | 0.000 |
| 71/ 4802/ 244 (C) | 44.437 | -0.000<< | 0.008 | 0.0 | 0.005 | 0.000 |
| 71/ 4802/ 221 (C) | 44.372 | -0.000 | 0.009>> | 0.0 | 0.006 | 0.000 |
| 71/ 2/7/ 221 (C) | 44.857 | 0.000 | -0.003<< | 0.0 | 0.007 | 0.000 |
| 71/ 4802/ 201 (C) | 20.611 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 71/ 4802/ 201 (C) | 20.611 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 71/ 2/7/ 221 (C) | 44.857 | 0.000 | -0.003 | 0.0 | 0.007>> | 0.000 |
| 71/ 2/7/ 264 (C) | 28.486 | 0.000 | 0.001 | 0.0 | -0.001<< | 0.000 |
| 71/ 2/7/ 244 (C) | 44.922 | 0.000 | -0.003 | 0.0 | 0.006 | 0.000>> |
| 71/ 5/7/ 244 (C) | 46.378 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 72/ 4804/ 245 (C) | 49.509>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 72/ 4803/ 202 (C) | 21.553<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 72/ 4/7/ 244 (C) | 47.846 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 72/ 4803/ 244 (C) | 47.348 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 72/ 4803/ 221 (C) | 47.283 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 72/ 4/7/ 221 (C) | 47.781 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 72/ 4803/ 201 (C) | 23.522 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 72/ 4803/ 201 (C) | 23.522 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 72/ 2/7/ 221 (C) | 47.449 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 72/ 2/7/ 264 (C) | 31.077 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 72/ 2/7/ 244 (C) | 47.514 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 72/ 2/7/ 255 (C) | 30.949 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 73/ 4806/ 245 (C) | 46.835>> | -0.001 | 0.008 | 0.0 | 0.005 | 0.001 |
| 73/ 4805/ 257 (C) | 15.539<< | 0.092 | 0.024 | 0.0 | 0.000 | 0.000 |
| 73/ 4805/ 202 (C) | 15.747 | 0.190>> | 0.165 | 0.0 | -0.000 | 0.000 |
| 73/ 4805/ 240 (C) | 34.308 | -0.641<< | 2.455 | 0.0 | -0.000 | -0.000 |
| 73/ 4805/ 222 (C) | 39.202 | 0.043 | 3.725>> | 0.0 | -0.000 | 0.000 |
| 73/ 3/7/ 222 (C) | 40.734 | -0.007 | -0.606<< | 0.0 | 0.863 | -0.010 |
| 73/ 4805/ 201 (C) | 16.794 | -0.038 | -0.070 | 0.0>> | -0.000 | -0.000 |
| 73/ 4805/ 201 (C) | 16.794 | -0.038 | -0.070 | 0.0<< | -0.000 | -0.000 |
| 73/ 2/7/ 222 (C) | 39.968 | -0.006 | -0.507 | 0.0 | 2.619>> | -0.030 |
| 73/ 2/7/ 264 (C) | 25.715 | 0.066 | 0.080 | 0.0 | -0.411<< | 0.339 |
| 73/ 2/7/ 240 (C) | 35.074 | 0.087 | -0.334 | 0.0 | 1.726 | 0.450>> |
| 73/ 2/7/ 202 (C) | 16.513 | -0.026 | -0.022 | 0.0 | 0.116 | -0.134<< |
| 74/ 4807/ 245 (C) | 49.746>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 74/ 4806/ 257 (C) | 20.135<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 74/ 2/7/ 240 (C) | 39.389 | 0.001>> | -0.002 | 0.0 | 0.005 | 0.001 |
| 74/ 4806/ 240 (C) | 38.904 | -0.002<< | 0.006 | 0.0 | 0.004 | 0.001 |
| 74/ 4806/ 222 (C) | 43.798 | 0.000 | 0.009>> | 0.0 | 0.006 | -0.000 |
| 74/ 2/7/ 222 (C) | 44.284 | -0.000 | -0.004<< | 0.0 | 0.007 | -0.000 |
| 74/ 4806/ 201 (C) | 21.391 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 74/ 4806/ 201 (C) | 21.391 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 74/ 2/7/ 222 (C) | 44.284 | -0.000 | -0.004 | 0.0 | 0.007>> | -0.000 |
| 74/ 2/7/ 264 (C) | 30.031 | 0.000 | 0.001 | 0.0 | -0.001<< | 0.001 |
| 74/ 2/7/ 240 (C) | 39.389 | 0.001 | -0.002 | 0.0 | 0.005 | 0.001>> |
| 74/ 2/7/ 202 (C) | 20.828 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 75/ 4808/ 245 (C) | 50.742>> | -0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 75/ 4807/ 257 (C) | 23.046<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 75/ 4/7/ 240 (C) | 42.313 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 75/ 4807/ 240 (C) | 41.815 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 75/ 4807/ 222 (C) | 46.709 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 75/ 4/7/ 222 (C) | 47.207 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 75/ 4807/ 201 (C) | 24.302 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 75/ 4807/ 201 (C) | 24.302 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 75/ 2/7/ 222 (C) | 46.875 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 75/ 2/7/ 264 (C) | 32.623 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 75/ 2/7/ 240 (C) | 41.981 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 75/ 2/7/ 202 (C) | 23.420 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 76/ 4810/ 233 (C) | 51.040>> | -0.002 | -0.001 | 0.0 | -0.001 | 0.002 |
| 76/ 4809/ 250 (C) | 18.245<< | -0.073 | -0.119 | 0.0 | 0.000 | -0.000 |
| 76/ 4809/ 202 (C) | 20.714 | 0.368>> | 0.168 | 0.0 | -0.000 | 0.000 |
| 76/ 4809/ 239 (C) | 41.871 | -1.203<< | 2.488 | 0.0 | -0.000 | -0.000 |
| 76/ 4809/ 222 (C) | 41.421 | 0.141 | 3.768>> | 0.0 | -0.000 | 0.000 |
| 76/ 3/7/ 222 (C) | 42.953 | -0.023 | -0.612<< | 0.0 | 0.873 | -0.033 |
| 76/ 4809/ 201 (C) | 19.014 | -0.067 | -0.068 | 0.0>> | 0.000 | -0.000 |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 76/ 4809/ 201 (C) | 19.014 | -0.067 | -0.068 | 0.0<< | 0.000 | -0.000 |
| 76/ 2/7/ 222 (C) | 42.187 | -0.019 | -0.513 | 0.0 | 2.649>> | -0.099 |
| 76/ 2/7/ 264 (C) | 30.197 | 0.126 | 0.080 | 0.0 | -0.413<< | 0.652 |
| 76/ 2/7/ 239 (C) | 42.637 | 0.164 | -0.339 | 0.0 | 1.750 | 0.846>> |
| 76/ 2/7/ 202 (C) | 21.480 | -0.050 | -0.023 | 0.0 | 0.118 | -0.259<< |
| 77/ 4811/ 233 (C) | 53.951>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 77/ 4810/ 250 (C) | 22.841<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 77/ 2/7/ 239 (C) | 46.952 | 0.001>> | -0.002 | 0.0 | 0.005 | 0.002 |
| 77/ 4810/ 239 (C) | 46.467 | -0.003<< | 0.006 | 0.0 | 0.004 | 0.002 |
| 77/ 4810/ 222 (C) | 46.018 | 0.000 | 0.009>> | 0.0 | 0.006 | -0.000 |
| 77/ 2/7/ 222 (C) | 46.503 | -0.000 | -0.004<< | 0.0 | 0.007 | -0.000 |
| 77/ 4810/ 201 (C) | 23.611 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 77/ 4810/ 201 (C) | 23.611 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 77/ 2/7/ 222 (C) | 46.503 | -0.000 | -0.004 | 0.0 | 0.007>> | -0.000 |
| 77/ 2/7/ 264 (C) | 34.512 | 0.001 | 0.001 | 0.0 | -0.001<< | 0.002 |
| 77/ 2/7/ 239 (C) | 46.952 | 0.001 | -0.002 | 0.0 | 0.005 | 0.002>> |
| 77/ 2/7/ 202 (C) | 25.795 | -0.000 | -0.000 | 0.0 | 0.000 | -0.001<< |
| 78/ 4812/ 233 (C) | 54.947>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 78/ 4811/ 250 (C) | 25.752<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 78/ 4/7/ 239 (C) | 49.876 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 78/ 4811/ 239 (C) | 49.378 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 78/ 4811/ 222 (C) | 48.929 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 78/ 4/7/ 222 (C) | 49.427 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 78/ 4811/ 201 (C) | 26.522 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 78/ 4811/ 201 (C) | 26.522 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 78/ 2/7/ 222 (C) | 49.095 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 78/ 2/7/ 264 (C) | 37.104 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 78/ 2/7/ 239 (C) | 49.544 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 78/ 2/7/ 202 (C) | 28.387 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 79/ 4814/ 244 (C) | 67.837>> | 0.002 | 0.006 | 0.0 | 0.004 | -0.001 |
| 79/ 4813/ 248 (C) | 24.050<< | 0.063 | -0.136 | 0.0 | 0.000 | 0.000 |
| 79/ 4813/ 230 (C) | 55.817 | 1.184>> | -1.390 | 0.0 | 0.000 | 0.000 |
| 79/ 4813/ 217 (C) | 51.387 | -0.435<< | 3.340 | 0.0 | -0.000 | -0.000 |
| 79/ 4813/ 221 (C) | 57.714 | -0.275 | 3.776>> | 0.0 | -0.000 | -0.000 |
| 79/ 4813/ 230 (C) | 55.817 | 1.184 | -1.390<< | 0.0 | 0.000 | 0.000 |
| 79/ 4813/ 201 (C) | 24.273 | 0.064 | -0.094 | 0.0>> | 0.000 | 0.000 |
| 79/ 4813/ 201 (C) | 24.273 | 0.064 | -0.094 | 0.0<< | 0.000 | 0.000 |
| 79/ 2/7/ 221 (C) | 58.480 | 0.037 | -0.514 | 0.0 | 2.655>> | 0.193 |
| 79/ 2/7/ 230 (C) | 56.583 | -0.161 | 0.189 | 0.0 | -0.978<< | -0.832 |
| 79/ 2/7/ 217 (C) | 52.153 | 0.059 | -0.455 | 0.0 | 2.348 | 0.306>> |
| 79/ 2/7/ 230 (C) | 56.583 | -0.161 | 0.189 | 0.0 | -0.978 | -0.832<< |
| 80/ 4815/ 244 (C) | 70.748>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 80/ 4814/ 248 (C) | 28.647<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 80/ 4814/ 230 (C) | 60.413 | 0.003>> | -0.003 | 0.0 | -0.002 | -0.002 |
| 80/ 2/7/ 230 (C) | 60.898 | -0.001<< | 0.001 | 0.0 | -0.003 | -0.002 |
| 80/ 4814/ 221 (C) | 62.310 | -0.001 | 0.009>> | 0.0 | 0.006 | 0.000 |
| 80/ 2/7/ 221 (C) | 62.795 | 0.000 | -0.004<< | 0.0 | 0.007 | 0.001 |
| 80/ 4814/ 201 (C) | 28.869 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 80/ 4814/ 201 (C) | 28.869 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 80/ 2/7/ 221 (C) | 62.795 | 0.000 | -0.004 | 0.0 | 0.007>> | 0.001 |
| 80/ 2/7/ 230 (C) | 60.898 | -0.001 | 0.001 | 0.0 | -0.003<< | -0.002 |
| 80/ 2/7/ 217 (C) | 56.469 | 0.000 | -0.003 | 0.0 | 0.007 | 0.001>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 80/ 2/7/ 230 (C) | 60.898 | -0.001 | 0.001 | 0.0 | -0.003 | -0.002<< |
| 81/ 4816/ 244 (C) | 71.744>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 81/ 4815/ 248 (C) | 31.558<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 81/ 4815/ 230 (C) | 63.324 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 81/ 4/7/ 230 (C) | 63.822 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 81/ 4815/ 221 (C) | 65.221 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 81/ 4/7/ 221 (C) | 65.719 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 81/ 4815/ 201 (C) | 31.780 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 81/ 4815/ 201 (C) | 31.780 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 81/ 2/7/ 221 (C) | 65.387 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 81/ 2/7/ 230 (C) | 63.490 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 81/ 2/7/ 217 (C) | 59.061 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 81/ 2/7/ 230 (C) | 63.490 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 82/ 4818/ 246 (C) | 61.504>> | 0.001 | 0.007 | 0.0 | 0.005 | -0.000 |
| 82/ 4817/ 202 (C) | 20.188<< | -0.193 | 0.553 | 0.0 | -0.000 | -0.000 |
| 82/ 4817/ 230 (C) | 48.060 | 0.614>> | -1.395 | 0.0 | 0.000 | 0.000 |
| 82/ 4817/ 217 (C) | 45.889 | -0.261<< | 3.368 | 0.0 | -0.000 | -0.000 |
| 82/ 4817/ 221 (C) | 53.110 | -0.186 | 3.813>> | 0.0 | -0.000 | -0.000 |
| 82/ 4817/ 230 (C) | 48.060 | 0.614 | -1.395<< | 0.0 | 0.000 | 0.000 |
| 82/ 4817/ 201 (C) | 22.176 | 0.036 | -0.096 | 0.0>> | 0.000 | 0.000 |
| 82/ 4817/ 201 (C) | 22.176 | 0.036 | -0.096 | 0.0<< | 0.000 | 0.000 |
| 82/ 2/7/ 221 (C) | 53.876 | 0.025 | -0.519 | 0.0 | 2.681>> | 0.131 |
| 82/ 2/7/ 230 (C) | 48.827 | -0.084 | 0.190 | 0.0 | -0.981<< | -0.432 |
| 82/ 2/7/ 217 (C) | 46.655 | 0.036 | -0.459 | 0.0 | 2.369 | 0.183>> |
| 82/ 2/7/ 230 (C) | 48.827 | -0.084 | 0.190 | 0.0 | -0.981 | -0.432<< |
| 83/ 4819/ 246 (C) | 64.415>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 83/ 4818/ 202 (C) | 24.785<< | -0.000 | 0.001 | 0.0 | 0.001 | 0.000 |
| 83/ 4818/ 230 (C) | 52.657 | 0.002>> | -0.003 | 0.0 | -0.002 | -0.001 |
| 83/ 4818/ 217 (C) | 50.485 | -0.001<< | 0.008 | 0.0 | 0.005 | 0.000 |
| 83/ 4818/ 221 (C) | 57.706 | -0.000 | 0.009>> | 0.0 | 0.006 | 0.000 |
| 83/ 2/7/ 221 (C) | 58.191 | 0.000 | -0.004<< | 0.0 | 0.007 | 0.000 |
| 83/ 4818/ 201 (C) | 26.773 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 83/ 4818/ 201 (C) | 26.773 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 83/ 2/7/ 221 (C) | 58.191 | 0.000 | -0.004 | 0.0 | 0.007>> | 0.000 |
| 83/ 2/7/ 230 (C) | 53.142 | -0.001 | 0.001 | 0.0 | -0.003<< | -0.001 |
| 83/ 2/7/ 217 (C) | 50.971 | 0.000 | -0.003 | 0.0 | 0.007 | 0.001>> |
| 83/ 2/7/ 230 (C) | 53.142 | -0.001 | 0.001 | 0.0 | -0.003 | -0.001<< |
| 84/ 4820/ 246 (C) | 65.411>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 84/ 4819/ 202 (C) | 27.695<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 84/ 4819/ 230 (C) | 55.568 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 84/ 4819/ 217 (C) | 53.396 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 84/ 4819/ 221 (C) | 60.617 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 84/ 4/7/ 221 (C) | 61.115 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 84/ 4819/ 201 (C) | 29.684 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 84/ 4819/ 201 (C) | 29.684 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 84/ 2/7/ 221 (C) | 60.783 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 84/ 2/7/ 230 (C) | 55.734 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 84/ 2/7/ 217 (C) | 53.562 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 84/ 2/7/ 230 (C) | 55.734 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 85/ 4822/ 245 (C) | 57.842>> | -0.000 | 0.007 | 0.0 | 0.005 | 0.000 |
| 85/ 4821/ 202 (C) | 18.544<< | 0.000 | 0.553 | 0.0 | 0.000 | 0.000 |
| 85/ 3/7/ 244 (C) | 53.072 | 0.017>> | -0.410 | 0.0 | 0.584 | 0.024 |



ROBOT v 17.0.1
Autor :
Dirección :
© RoboBAT 1996-2003
Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 85/ 4821/ 244 (C) | 51.540 | -0.105<< | 2.519 | 0.0 | 0.000 | -0.000 |
| 85/ 4821/ 221 (C) | 51.441 | -0.103 | 3.858>> | 0.0 | 0.000 | -0.000 |
| 85/ 4821/ 230 (C) | 44.052 | -0.002 | -1.396<< | 0.0 | 0.000 | -0.000 |
| 85/ 4821/ 201 (C) | 21.453 | 0.000 | -0.097 | 0.0>> | -0.000 | 0.000 |
| 85/ 4821/ 201 (C) | 21.453 | 0.000 | -0.097 | 0.0<< | -0.000 | 0.000 |
| 85/ 2/7/ 221 (C) | 52.207 | 0.014 | -0.525 | 0.0 | 2.713>> | 0.072 |
| 85/ 2/7/ 230 (C) | 44.818 | 0.000 | 0.190 | 0.0 | -0.982<< | 0.001 |
| 85/ 2/7/ 244 (C) | 52.306 | 0.014 | -0.343 | 0.0 | 1.772 | 0.074>> |
| 85/ 2/7/ 255 (C) | 44.857 | -0.001 | -0.006 | 0.0 | 0.032 | -0.007<< |
| 86/ 4823/ 245 (C) | 60.753>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 86/ 4822/ 202 (C) | 23.141<< | 0.000 | 0.001 | 0.0 | 0.001 | -0.000 |
| 86/ 2/7/ 244 (C) | 56.621 | 0.000>> | -0.002 | 0.0 | 0.005 | 0.000 |
| 86/ 4822/ 244 (C) | 56.136 | -0.000<< | 0.006 | 0.0 | 0.004 | 0.000 |
| 86/ 4822/ 221 (C) | 56.037 | -0.000 | 0.010>> | 0.0 | 0.006 | 0.000 |
| 86/ 2/7/ 221 (C) | 56.522 | 0.000 | -0.004<< | 0.0 | 0.008 | 0.000 |
| 86/ 4822/ 201 (C) | 26.049 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 86/ 4822/ 201 (C) | 26.049 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 86/ 2/7/ 221 (C) | 56.522 | 0.000 | -0.004 | 0.0 | 0.008>> | 0.000 |
| 86/ 2/7/ 230 (C) | 49.133 | 0.000 | 0.001 | 0.0 | -0.003<< | 0.000 |
| 86/ 2/7/ 244 (C) | 56.621 | 0.000 | -0.002 | 0.0 | 0.005 | 0.000>> |
| 86/ 2/7/ 255 (C) | 49.172 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 87/ 4824/ 245 (C) | 61.748>> | 0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 202 (C) | 26.052<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 87/ 4/7/ 244 (C) | 59.545 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 244 (C) | 59.047 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 221 (C) | 58.948 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 87/ 4/7/ 221 (C) | 59.446 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 201 (C) | 28.960 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 87/ 4823/ 201 (C) | 28.960 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 87/ 2/7/ 221 (C) | 59.114 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 87/ 2/7/ 230 (C) | 51.725 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 87/ 2/7/ 244 (C) | 59.213 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 87/ 2/7/ 255 (C) | 51.764 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 88/ 4826/ 245 (C) | 58.939>> | -0.001 | 0.007 | 0.0 | 0.005 | 0.001 |
| 88/ 4825/ 202 (C) | 20.188<< | 0.193 | 0.553 | 0.0 | -0.000 | 0.000 |
| 88/ 4825/ 202 (C) | 20.188 | 0.193>> | 0.553 | 0.0 | -0.000 | 0.000 |
| 88/ 4825/ 239 (C) | 46.051 | -0.691<< | 1.596 | 0.0 | -0.000 | -0.000 |
| 88/ 4825/ 222 (C) | 50.499 | -0.016 | 3.905>> | 0.0 | -0.000 | 0.000 |
| 88/ 4825/ 229 (C) | 46.019 | -0.609 | -1.392<< | 0.0 | 0.000 | -0.000 |
| 88/ 4825/ 201 (C) | 22.176 | -0.036 | -0.096 | 0.0>> | 0.000 | -0.000 |
| 88/ 4825/ 201 (C) | 22.176 | -0.036 | -0.096 | 0.0<< | 0.000 | -0.000 |
| 88/ 2/7/ 222 (C) | 51.265 | 0.002 | -0.532 | 0.0 | 2.746>> | 0.011 |
| 88/ 2/7/ 229 (C) | 46.785 | 0.083 | 0.190 | 0.0 | -0.979<< | 0.428 |
| 88/ 2/7/ 239 (C) | 46.817 | 0.094 | -0.217 | 0.0 | 1.122 | 0.486>> |
| 88/ 2/7/ 202 (C) | 20.954 | -0.026 | -0.075 | 0.0 | 0.389 | -0.136<< |
| 89/ 4827/ 245 (C) | 61.850>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 89/ 4826/ 202 (C) | 24.785<< | 0.000 | 0.001 | 0.0 | 0.001 | -0.000 |
| 89/ 2/7/ 239 (C) | 51.132 | 0.001>> | -0.002 | 0.0 | 0.003 | 0.001 |
| 89/ 4826/ 239 (C) | 50.647 | -0.002<< | 0.004 | 0.0 | 0.003 | 0.001 |
| 89/ 4826/ 222 (C) | 55.096 | -0.000 | 0.010>> | 0.0 | 0.006 | 0.000 |
| 89/ 2/7/ 222 (C) | 55.581 | 0.000 | -0.004<< | 0.0 | 0.008 | 0.000 |
| 89/ 4826/ 201 (C) | 26.773 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 89/ 4826/ 201 (C) | 26.773 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 89/ 2/7/ 222 (C) | 55.581 | 0.000 | -0.004 | 0.0 | 0.008>> | 0.000 |
| 89/ 2/7/ 229 (C) | 51.101 | 0.001 | 0.001 | 0.0 | -0.003<< | 0.001 |
| 89/ 2/7/ 239 (C) | 51.132 | 0.001 | -0.002 | 0.0 | 0.003 | 0.001>> |
| 89/ 2/7/ 202 (C) | 25.270 | -0.000 | -0.001 | 0.0 | 0.001 | -0.000<< |
| 90/ 4828/ 245 (C) | 62.846>> | 0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 90/ 4827/ 202 (C) | 27.695<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 90/ 4/7/ 239 (C) | 54.056 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 90/ 4827/ 239 (C) | 53.558 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 90/ 4827/ 222 (C) | 58.007 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 90/ 4/7/ 222 (C) | 58.504 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 90/ 4827/ 201 (C) | 29.684 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 90/ 4827/ 201 (C) | 29.684 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 90/ 2/7/ 222 (C) | 58.173 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 90/ 2/7/ 229 (C) | 53.692 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 90/ 2/7/ 239 (C) | 53.724 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 90/ 2/7/ 202 (C) | 27.861 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 91/ 4830/ 243 (C) | 62.373>> | -0.003 | 0.006 | 0.0 | 0.004 | 0.002 |
| 91/ 4829/ 250 (C) | 24.001<< | -0.068 | -0.141 | 0.0 | -0.000 | -0.000 |
| 91/ 4829/ 202 (C) | 24.968 | 0.375>> | 0.555 | 0.0 | -0.000 | 0.000 |
| 91/ 4829/ 239 (C) | 51.491 | -1.253<< | 1.634 | 0.0 | -0.000 | -0.000 |
| 91/ 4829/ 222 (C) | 52.378 | 0.080 | 3.952>> | 0.0 | -0.000 | -0.000 |
| 91/ 4829/ 229 (C) | 51.469 | -1.170 | -1.386<< | 0.0 | 0.000 | -0.000 |
| 91/ 4829/ 201 (C) | 24.273 | -0.064 | -0.094 | 0.0>> | -0.000 | -0.000 |
| 91/ 4829/ 201 (C) | 24.273 | -0.064 | -0.094 | 0.0<< | -0.000 | -0.000 |
| 91/ 2/7/ 222 (C) | 53.144 | -0.011 | -0.538 | 0.0 | 2.779>> | -0.056 |
| 91/ 2/7/ 229 (C) | 52.235 | 0.159 | 0.189 | 0.0 | -0.975<< | 0.823 |
| 91/ 2/7/ 239 (C) | 52.257 | 0.171 | -0.222 | 0.0 | 1.149 | 0.881>> |
| 91/ 2/7/ 202 (C) | 25.734 | -0.051 | -0.076 | 0.0 | 0.390 | -0.264<< |
| 92/ 4831/ 243 (C) | 65.284>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 92/ 4830/ 250 (C) | 28.597<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 92/ 2/7/ 239 (C) | 56.573 | 0.001>> | -0.002 | 0.0 | 0.003 | 0.002 |
| 92/ 4830/ 239 (C) | 56.087 | -0.003<< | 0.004 | 0.0 | 0.003 | 0.002 |
| 92/ 4830/ 222 (C) | 56.974 | 0.000 | 0.010>> | 0.0 | 0.006 | -0.000 |
| 92/ 2/7/ 222 (C) | 57.459 | -0.000 | -0.004<< | 0.0 | 0.008 | -0.000 |
| 92/ 4830/ 201 (C) | 28.869 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 92/ 4830/ 201 (C) | 28.869 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 92/ 2/7/ 222 (C) | 57.459 | -0.000 | -0.004 | 0.0 | 0.008>> | -0.000 |
| 92/ 2/7/ 229 (C) | 56.550 | 0.001 | 0.001 | 0.0 | -0.003<< | 0.002 |
| 92/ 2/7/ 239 (C) | 56.573 | 0.001 | -0.002 | 0.0 | 0.003 | 0.002>> |
| 92/ 2/7/ 202 (C) | 30.050 | -0.000 | -0.001 | 0.0 | 0.001 | -0.001<< |
| 93/ 4832/ 243 (C) | 66.280>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 93/ 4831/ 250 (C) | 31.508<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 93/ 4/7/ 239 (C) | 59.496 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 93/ 4831/ 239 (C) | 58.998 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 93/ 4831/ 222 (C) | 59.885 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 93/ 4/7/ 222 (C) | 60.383 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 93/ 4831/ 201 (C) | 31.780 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 93/ 4831/ 201 (C) | 31.780 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 93/ 2/7/ 222 (C) | 60.051 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 93/ 2/7/ 229 (C) | 59.142 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 93/ 2/7/ 239 (C) | 59.164 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 93/ 2/7/ 202 (C) | 32.642 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 94/ 4834/ 236 (C) | 61.202>> | 0.001 | -0.003 | 0.0 | -0.002 | -0.001 |
| 94/ 4833/ 202 (C) | 21.316<< | -0.386 | 1.755 | 0.0 | 0.000 | -0.000 |
| 94/ 4833/ 230 (C) | 49.523 | 1.167>> | -2.854 | 0.0 | 0.000 | 0.000 |
| 94/ 4833/ 217 (C) | 45.534 | -0.578<< | 4.759 | 0.0 | -0.000 | -0.000 |
| 94/ 4833/ 222 (C) | 56.419 | -0.437 | 4.877>> | 0.0 | -0.000 | -0.000 |
| 94/ 4833/ 206 (C) | 21.483 | 1.138 | -2.990<< | 0.0 | -0.000 | 0.000 |
| 94/ 4833/ 201 (C) | 21.504 | 0.061 | 0.130 | 0.0>> | -0.000 | 0.000 |
| 94/ 4833/ 201 (C) | 21.504 | 0.061 | 0.130 | 0.0<< | -0.000 | 0.000 |
| 94/ 2/7/ 222 (C) | 57.185 | 0.059 | -0.664 | 0.0 | 3.429>> | 0.307 |
| 94/ 2/7/ 206 (C) | 22.249 | -0.155 | 0.407 | 0.0 | -2.103<< | -0.800 |
| 94/ 2/7/ 217 (C) | 46.300 | 0.079 | -0.648 | 0.0 | 3.346 | 0.406>> |
| 94/ 2/7/ 230 (C) | 50.289 | -0.159 | 0.389 | 0.0 | -2.007 | -0.821<< |
| 95/ 4835/ 236 (C) | 64.113>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 95/ 4834/ 202 (C) | 25.913<< | -0.001 | 0.004 | 0.0 | 0.003 | 0.001 |
| 95/ 4834/ 230 (C) | 54.119 | 0.003>> | -0.007 | 0.0 | -0.005 | -0.002 |
| 95/ 4834/ 217 (C) | 50.131 | -0.001<< | 0.012 | 0.0 | 0.008 | 0.001 |
| 95/ 4834/ 222 (C) | 61.015 | -0.001 | 0.012>> | 0.0 | 0.008 | 0.001 |
| 95/ 4834/ 206 (C) | 26.079 | 0.003 | -0.007<< | 0.0 | -0.005 | -0.002 |
| 95/ 4834/ 201 (C) | 26.101 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 95/ 4834/ 201 (C) | 26.101 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 95/ 2/7/ 222 (C) | 61.501 | 0.000 | -0.005 | 0.0 | 0.010>> | 0.001 |
| 95/ 2/7/ 206 (C) | 26.564 | -0.001 | 0.003 | 0.0 | -0.006<< | -0.002 |
| 95/ 2/7/ 217 (C) | 50.616 | 0.001 | -0.004 | 0.0 | 0.009 | 0.001>> |
| 95/ 2/7/ 230 (C) | 54.604 | -0.001 | 0.003 | 0.0 | -0.006 | -0.002<< |
| 96/ 4836/ 236 (C) | 65.109>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 96/ 4835/ 202 (C) | 28.824<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 96/ 4835/ 230 (C) | 57.030 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 96/ 4835/ 217 (C) | 53.042 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 96/ 4835/ 222 (C) | 63.926 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 96/ 4835/ 206 (C) | 28.990 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 96/ 4835/ 201 (C) | 29.012 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 96/ 4835/ 201 (C) | 29.012 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 96/ 2/7/ 222 (C) | 64.092 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 96/ 2/7/ 206 (C) | 29.156 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 96/ 2/7/ 217 (C) | 53.208 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 96/ 2/7/ 230 (C) | 57.196 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 97/ 4838/ 236 (C) | 55.890>> | 0.001 | -0.003 | 0.0 | -0.002 | -0.000 |
| 97/ 4837/ 202 (C) | 16.944<< | -0.201 | 1.752 | 0.0 | -0.000 | -0.000 |
| 97/ 4837/ 230 (C) | 42.486 | 0.600>> | -2.861 | 0.0 | 0.000 | 0.000 |
| 97/ 4837/ 217 (C) | 40.498 | -0.400<< | 4.790 | 0.0 | -0.000 | -0.000 |
| 97/ 4837/ 222 (C) | 49.631 | -0.357 | 4.911>> | 0.0 | 0.000 | -0.000 |
| 97/ 4837/ 206 (C) | 17.149 | 0.586 | -2.993<< | 0.0 | 0.000 | 0.000 |
| 97/ 4837/ 201 (C) | 19.559 | 0.032 | 0.129 | 0.0>> | -0.000 | 0.000 |
| 97/ 4837/ 201 (C) | 19.559 | 0.032 | 0.129 | 0.0<< | -0.000 | 0.000 |
| 97/ 2/7/ 222 (C) | 50.397 | 0.049 | -0.669 | 0.0 | 3.453>> | 0.251 |
| 97/ 2/7/ 206 (C) | 17.915 | -0.080 | 0.407 | 0.0 | -2.104<< | -0.412 |
| 97/ 2/7/ 217 (C) | 41.264 | 0.054 | -0.652 | 0.0 | 3.368 | 0.281>> |
| 97/ 2/7/ 230 (C) | 43.252 | -0.082 | 0.390 | 0.0 | -2.012 | -0.422<< |
| 98/ 4839/ 236 (C) | 58.801>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 98/ 4838/ 202 (C) | 21.540<< | -0.000 | 0.004 | 0.0 | 0.003 | 0.000 |
| 98/ 4838/ 230 (C) | 47.082 | 0.001>> | -0.007 | 0.0 | -0.005 | -0.001 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 98/ 4838/ 217 (C) | 45.094 | -0.001<< | 0.012 | 0.0 | 0.008 | 0.001 |
| 98/ 4838/ 222 (C) | 54.227 | -0.001 | 0.012>> | 0.0 | 0.008 | 0.001 |
| 98/ 4838/ 206 (C) | 21.745 | 0.001 | -0.007<< | 0.0 | -0.005 | -0.001 |
| 98/ 4838/ 201 (C) | 24.155 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 98/ 4838/ 201 (C) | 24.155 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 98/ 2/7/ 222 (C) | 54.713 | 0.000 | -0.005 | 0.0 | 0.010>> | 0.001 |
| 98/ 2/7/ 206 (C) | 22.230 | -0.001 | 0.003 | 0.0 | -0.006<< | -0.001 |
| 98/ 2/7/ 217 (C) | 45.579 | 0.000 | -0.005 | 0.0 | 0.009 | 0.001>> |
| 98/ 2/7/ 230 (C) | 47.567 | -0.001 | 0.003 | 0.0 | -0.006 | -0.001<< |
| 99/ 4840/ 236 (C) | 59.797>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 99/ 4839/ 202 (C) | 24.451<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 99/ 4839/ 230 (C) | 49.993 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 99/ 4839/ 217 (C) | 48.005 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 99/ 4839/ 222 (C) | 57.138 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 99/ 4839/ 206 (C) | 24.656 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 99/ 4839/ 201 (C) | 27.066 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 99/ 4839/ 201 (C) | 27.066 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 99/ 2/7/ 222 (C) | 57.304 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 99/ 2/7/ 206 (C) | 24.822 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 99/ 2/7/ 217 (C) | 48.171 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 99/ 2/7/ 230 (C) | 50.159 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 100/ 4842/ 235 (C) | 52.688>> | -0.000 | -0.003 | 0.0 | -0.002 | 0.000 |
| 100/ 4841/ 202 (C) | 15.464<< | 0.000 | 1.750 | 0.0 | -0.000 | 0.000 |
| 100/ 3/7/ 244 (C) | 47.572 | 0.045>> | -0.245 | 0.0 | 0.350 | 0.064 |
| 100/ 4841/ 244 (C) | 46.040 | -0.274<< | 1.509 | 0.0 | -0.000 | 0.000 |
| 100/ 4841/ 222 (C) | 45.880 | -0.274 | 4.948>> | 0.0 | -0.000 | -0.000 |
| 100/ 4841/ 206 (C) | 15.684 | -0.000 | -2.995<< | 0.0 | 0.000 | 0.000 |
| 100/ 4841/ 201 (C) | 18.905 | -0.000 | 0.129 | 0.0>> | -0.000 | -0.000 |
| 100/ 4841/ 201 (C) | 18.905 | -0.000 | 0.129 | 0.0<< | -0.000 | -0.000 |
| 100/ 2/7/ 222 (C) | 46.647 | 0.037 | -0.674 | 0.0 | 3.479>> | 0.193 |
| 100/ 2/7/ 206 (C) | 16.450 | 0.000 | 0.408 | 0.0 | -2.106<< | 0.000 |
| 100/ 2/7/ 244 (C) | 46.806 | 0.037 | -0.205 | 0.0 | 1.061 | 0.193>> |
| 100/ 5/7/ 244 (C) | 49.104 | -0.002 | 0.010 | 0.0 | -0.045 | -0.008<< |
| 101/ 4843/ 235 (C) | 55.599>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 101/ 4842/ 202 (C) | 20.069<< | 0.000 | 0.004 | 0.0 | 0.003 | -0.000 |
| 101/ 2/7/ 244 (C) | 51.121 | 0.000>> | -0.001 | 0.0 | 0.003 | 0.001 |
| 101/ 4842/ 244 (C) | 50.636 | -0.001<< | 0.004 | 0.0 | 0.002 | 0.000 |
| 101/ 4842/ 222 (C) | 50.477 | -0.001 | 0.012>> | 0.0 | 0.008 | 0.000 |
| 101/ 4842/ 206 (C) | 20.280 | -0.000 | -0.007<< | 0.0 | -0.005 | 0.000 |
| 101/ 4842/ 201 (C) | 23.501 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 101/ 4842/ 201 (C) | 23.501 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 101/ 2/7/ 222 (C) | 50.962 | 0.000 | -0.005 | 0.0 | 0.010>> | 0.001 |
| 101/ 2/7/ 206 (C) | 20.765 | 0.000 | 0.003 | 0.0 | -0.006<< | 0.000 |
| 101/ 2/7/ 244 (C) | 51.121 | 0.000 | -0.001 | 0.0 | 0.003 | 0.001>> |
| 101/ 5/7/ 244 (C) | 52.577 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 102/ 4844/ 235 (C) | 56.595>> | -0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 102/ 4843/ 202 (C) | 22.971<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 102/ 4/7/ 244 (C) | 54.045 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 102/ 4843/ 244 (C) | 53.547 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 102/ 4843/ 222 (C) | 53.388 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 102/ 4843/ 206 (C) | 23.191 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 102/ 4843/ 201 (C) | 26.412 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |



ROBOT v 17.0.1
Autor :
Dirección :
© RoboBAT 1996-2003
Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 102/ 4843/ 201 (C) | 26.412 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 102/ 2/7/ 222 (C) | 53.554 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 102/ 2/7/ 206 (C) | 23.357 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 102/ 2/7/ 244 (C) | 53.713 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 102/ 2/7/ 257 (C) | 24.573 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 103/ 4846/ 235 (C) | 53.692>> | -0.001 | -0.003 | 0.0 | -0.002 | 0.000 |
| 103/ 4845/ 202 (C) | 16.944<< | 0.201 | 1.752 | 0.0 | -0.000 | -0.000 |
| 103/ 4845/ 202 (C) | 16.944 | 0.201>> | 1.752 | 0.0 | -0.000 | -0.000 |
| 103/ 4845/ 240 (C) | 38.886 | -0.814<< | 0.109 | 0.0 | -0.000 | -0.000 |
| 103/ 4845/ 221 (C) | 47.406 | -0.175 | 4.990>> | 0.0 | -0.000 | -0.000 |
| 103/ 4845/ 206 (C) | 17.149 | -0.586 | -2.993<< | 0.0 | 0.000 | -0.000 |
| 103/ 4845/ 201 (C) | 19.559 | -0.032 | 0.129 | 0.0>> | 0.000 | -0.000 |
| 103/ 4845/ 201 (C) | 19.559 | -0.032 | 0.129 | 0.0<< | 0.000 | -0.000 |
| 103/ 2/7/ 221 (C) | 48.172 | 0.024 | -0.679 | 0.0 | 3.509>> | 0.123 |
| 103/ 2/7/ 206 (C) | 17.915 | 0.080 | 0.407 | 0.0 | -2.104<< | 0.412 |
| 103/ 2/7/ 240 (C) | 39.652 | 0.111 | -0.015 | 0.0 | 0.077 | 0.572>> |
| 103/ 2/7/ 202 (C) | 17.710 | -0.027 | -0.238 | 0.0 | 1.232 | -0.141<< |
| 104/ 4847/ 235 (C) | 56.603>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 104/ 4846/ 202 (C) | 21.540<< | 0.000 | 0.004 | 0.0 | 0.003 | -0.000 |
| 104/ 2/7/ 240 (C) | 43.968 | 0.001>> | -0.000 | 0.0 | 0.000 | 0.002 |
| 104/ 4846/ 240 (C) | 43.483 | -0.002<< | 0.000 | 0.0 | 0.000 | 0.001 |
| 104/ 4846/ 221 (C) | 52.002 | -0.000 | 0.012>> | 0.0 | 0.008 | 0.000 |
| 104/ 4846/ 206 (C) | 21.745 | -0.001 | -0.007<< | 0.0 | -0.005 | 0.001 |
| 104/ 4846/ 201 (C) | 24.155 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 104/ 4846/ 201 (C) | 24.155 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 104/ 2/7/ 221 (C) | 52.487 | 0.000 | -0.005 | 0.0 | 0.010>> | 0.000 |
| 104/ 2/7/ 206 (C) | 22.230 | 0.001 | 0.003 | 0.0 | -0.006<< | 0.001 |
| 104/ 2/7/ 240 (C) | 43.968 | 0.001 | -0.000 | 0.0 | 0.000 | 0.002>> |
| 104/ 2/7/ 202 (C) | 22.025 | -0.000 | -0.002 | 0.0 | 0.003 | -0.000<< |
| 105/ 4848/ 235 (C) | 57.599>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 105/ 4847/ 202 (C) | 24.451<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 105/ 4/7/ 240 (C) | 46.891 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 105/ 4847/ 240 (C) | 46.393 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 105/ 4847/ 221 (C) | 54.913 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 105/ 4847/ 206 (C) | 24.656 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 105/ 4847/ 201 (C) | 27.066 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 105/ 4847/ 201 (C) | 27.066 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 105/ 2/7/ 221 (C) | 55.079 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 105/ 2/7/ 206 (C) | 24.822 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 105/ 2/7/ 240 (C) | 46.559 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 105/ 2/7/ 202 (C) | 24.617 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 106/ 4850/ 235 (C) | 56.447>> | -0.001 | -0.003 | 0.0 | -0.002 | 0.001 |
| 106/ 4849/ 202 (C) | 21.316<< | 0.386 | 1.755 | 0.0 | -0.000 | 0.000 |
| 106/ 4849/ 202 (C) | 21.316 | 0.386>> | 1.755 | 0.0 | -0.000 | 0.000 |
| 106/ 4849/ 239 (C) | 45.656 | -1.371<< | 0.151 | 0.0 | -0.000 | -0.000 |
| 106/ 4849/ 221 (C) | 51.608 | -0.084 | 5.032>> | 0.0 | 0.000 | -0.000 |
| 106/ 4849/ 206 (C) | 21.483 | -1.138 | -2.990<< | 0.0 | -0.000 | -0.000 |
| 106/ 4849/ 201 (C) | 21.504 | -0.061 | 0.130 | 0.0>> | -0.000 | 0.000 |
| 106/ 4849/ 201 (C) | 21.504 | -0.061 | 0.130 | 0.0<< | -0.000 | 0.000 |
| 106/ 2/7/ 221 (C) | 52.374 | 0.011 | -0.685 | 0.0 | 3.538>> | 0.059 |
| 106/ 2/7/ 206 (C) | 22.249 | 0.155 | 0.407 | 0.0 | -2.103<< | 0.800 |
| 106/ 2/7/ 239 (C) | 46.422 | 0.187 | -0.021 | 0.0 | 0.106 | 0.964>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 106/ 2/7/ 202 (C) | 22.082 | -0.052 | -0.239 | 0.0 | 1.234 | -0.271<< |
| 107/ 4851/ 235 (C) | 59.358>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 107/ 4850/ 202 (C) | 25.913<< | 0.001 | 0.004 | 0.0 | 0.003 | -0.001 |
| 107/ 2/7/ 239 (C) | 50.738 | 0.001>> | -0.000 | 0.0 | 0.000 | 0.003 |
| 107/ 4850/ 239 (C) | 50.252 | -0.003<< | 0.000 | 0.0 | 0.000 | 0.002 |
| 107/ 4850/ 221 (C) | 56.204 | -0.000 | 0.012>> | 0.0 | 0.008 | 0.000 |
| 107/ 4850/ 206 (C) | 26.079 | -0.003 | -0.007<< | 0.0 | -0.005 | 0.002 |
| 107/ 4850/ 201 (C) | 26.101 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 107/ 4850/ 201 (C) | 26.101 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 107/ 2/7/ 221 (C) | 56.689 | 0.000 | -0.005 | 0.0 | 0.010>> | 0.000 |
| 107/ 2/7/ 206 (C) | 26.564 | 0.001 | 0.003 | 0.0 | -0.006<< | 0.002 |
| 107/ 2/7/ 239 (C) | 50.738 | 0.001 | -0.000 | 0.0 | 0.000 | 0.003>> |
| 107/ 2/7/ 202 (C) | 26.398 | -0.000 | -0.002 | 0.0 | 0.003 | -0.001<< |
| 108/ 4852/ 235 (C) | 60.354>> | 0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 108/ 4851/ 202 (C) | 28.824<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 108/ 4/7/ 239 (C) | 53.661 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 108/ 4851/ 239 (C) | 53.163 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 108/ 4851/ 221 (C) | 59.115 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 108/ 4851/ 206 (C) | 28.990 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 108/ 4851/ 201 (C) | 29.012 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 108/ 4851/ 201 (C) | 29.012 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 108/ 2/7/ 221 (C) | 59.281 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 108/ 2/7/ 206 (C) | 29.156 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 108/ 2/7/ 239 (C) | 53.329 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 108/ 2/7/ 202 (C) | 28.990 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 109/ 4854/ 222 (C) | 34.556>> | -0.001 | 0.013 | 0.0 | 0.008 | 0.001 |
| 109/ 4853/ 204 (C) | 9.190<< | 0.529 | -1.663 | 0.0 | 0.000 | 0.000 |
| 109/ 4853/ 230 (C) | 26.376 | 1.140>> | -3.567 | 0.0 | 0.000 | 0.000 |
| 109/ 4853/ 217 (C) | 23.993 | -0.647<< | 5.242 | 0.0 | -0.000 | -0.000 |
| 109/ 4853/ 218 (C) | 26.658 | -0.647 | 5.262>> | 0.0 | -0.000 | -0.000 |
| 109/ 4853/ 206 (C) | 10.689 | 1.123 | -3.753<< | 0.0 | 0.000 | 0.000 |
| 109/ 4853/ 201 (C) | 9.244 | 0.055 | 0.191 | 0.0>> | 0.000 | 0.000 |
| 109/ 4853/ 201 (C) | 9.244 | 0.055 | 0.191 | 0.0<< | 0.000 | 0.000 |
| 109/ 2/7/ 218 (C) | 27.424 | 0.088 | -0.716 | 0.0 | 3.700>> | 0.455 |
| 109/ 2/7/ 206 (C) | 11.455 | -0.153 | 0.511 | 0.0 | -2.639<< | -0.790 |
| 109/ 2/7/ 217 (C) | 24.759 | 0.088 | -0.714 | 0.0 | 3.686 | 0.455>> |
| 109/ 2/7/ 230 (C) | 27.142 | -0.155 | 0.486 | 0.0 | -2.508 | -0.802<< |
| 110/ 4855/ 222 (C) | 37.467>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 110/ 4854/ 204 (C) | 13.786<< | 0.001 | -0.004 | 0.0 | -0.003 | -0.001 |
| 110/ 4854/ 230 (C) | 30.972 | 0.003>> | -0.009 | 0.0 | -0.006 | -0.002 |
| 110/ 4854/ 217 (C) | 28.589 | -0.002<< | 0.013 | 0.0 | 0.008 | 0.001 |
| 110/ 4854/ 218 (C) | 31.255 | -0.002 | 0.013>> | 0.0 | 0.008 | 0.001 |
| 110/ 4854/ 206 (C) | 15.285 | 0.003 | -0.009<< | 0.0 | -0.006 | -0.002 |
| 110/ 4854/ 201 (C) | 13.841 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 110/ 4854/ 201 (C) | 13.841 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 110/ 2/7/ 218 (C) | 31.740 | 0.001 | -0.005 | 0.0 | 0.010>> | 0.001 |
| 110/ 2/7/ 206 (C) | 15.770 | -0.001 | 0.004 | 0.0 | -0.007<< | -0.002 |
| 110/ 2/7/ 217 (C) | 29.074 | 0.001 | -0.005 | 0.0 | 0.010 | 0.001>> |
| 110/ 2/7/ 230 (C) | 31.458 | -0.001 | 0.003 | 0.0 | -0.007 | -0.002<< |
| 111/ 4856/ 222 (C) | 38.463>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 111/ 4855/ 204 (C) | 16.697<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 111/ 4855/ 230 (C) | 33.883 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 111/ 4855/ 217 (C) | 31.500 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 111/ 4855/ 218 (C) | 34.166 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 111/ 4855/ 206 (C) | 18.196 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 111/ 4855/ 201 (C) | 16.752 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 111/ 4855/ 201 (C) | 16.752 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 111/ 2/7/ 218 (C) | 34.332 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 111/ 2/7/ 206 (C) | 18.362 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 111/ 2/7/ 217 (C) | 31.666 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 111/ 2/7/ 230 (C) | 34.049 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 112/ 4858/ 226 (C) | 29.132>> | -0.001 | 0.010 | 0.0 | 0.006 | 0.000 |
| 112/ 4857/ 206 (C) | 6.823<< | 0.575 | -3.762 | 0.0 | 0.000 | -0.000 |
| 112/ 4857/ 229 (C) | 19.266 | 0.588>> | -3.599 | 0.0 | 0.000 | 0.000 |
| 112/ 4857/ 218 (C) | 20.610 | -0.476<< | 5.274 | 0.0 | -0.000 | -0.000 |
| 112/ 4857/ 218 (C) | 20.610 | -0.476 | 5.274>> | 0.0 | -0.000 | -0.000 |
| 112/ 4857/ 206 (C) | 6.823 | 0.575 | -3.762<< | 0.0 | 0.000 | -0.000 |
| 112/ 4857/ 201 (C) | 7.483 | 0.029 | 0.187 | 0.0>> | -0.000 | 0.000 |
| 112/ 4857/ 201 (C) | 7.483 | 0.029 | 0.187 | 0.0<< | -0.000 | 0.000 |
| 112/ 2/7/ 218 (C) | 21.376 | 0.065 | -0.718 | 0.0 | 3.708>> | 0.335 |
| 112/ 2/7/ 206 (C) | 7.589 | -0.078 | 0.512 | 0.0 | -2.645<< | -0.405 |
| 112/ 2/7/ 218 (C) | 21.376 | 0.065 | -0.718 | 0.0 | 3.708 | 0.335>> |
| 112/ 2/7/ 229 (C) | 20.032 | -0.080 | 0.490 | 0.0 | -2.531 | -0.414<< |
| 113/ 4859/ 226 (C) | 32.043>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 113/ 4858/ 206 (C) | 11.420<< | 0.001 | -0.009 | 0.0 | -0.006 | -0.001 |
| 113/ 4858/ 229 (C) | 23.862 | 0.001>> | -0.009 | 0.0 | -0.006 | -0.001 |
| 113/ 4858/ 218 (C) | 25.207 | -0.001<< | 0.013 | 0.0 | 0.008 | 0.001 |
| 113/ 4858/ 218 (C) | 25.207 | -0.001 | 0.013>> | 0.0 | 0.008 | 0.001 |
| 113/ 4858/ 206 (C) | 11.420 | 0.001 | -0.009<< | 0.0 | -0.006 | -0.001 |
| 113/ 4858/ 201 (C) | 12.079 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 113/ 4858/ 201 (C) | 12.079 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 113/ 2/7/ 218 (C) | 25.692 | 0.000 | -0.005 | 0.0 | 0.010>> | 0.001 |
| 113/ 2/7/ 206 (C) | 11.905 | -0.001 | 0.004 | 0.0 | -0.007<< | -0.001 |
| 113/ 2/7/ 218 (C) | 25.692 | 0.000 | -0.005 | 0.0 | 0.010 | 0.001>> |
| 113/ 2/7/ 229 (C) | 24.347 | -0.001 | 0.003 | 0.0 | -0.007 | -0.001<< |
| 114/ 4860/ 226 (C) | 33.039>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 114/ 4859/ 206 (C) | 14.331<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 114/ 4859/ 229 (C) | 26.773 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 114/ 4859/ 218 (C) | 28.118 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 114/ 4859/ 218 (C) | 28.118 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 114/ 4859/ 206 (C) | 14.331 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 114/ 4859/ 201 (C) | 14.990 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 114/ 4859/ 201 (C) | 14.990 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 114/ 2/7/ 218 (C) | 28.284 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 114/ 2/7/ 206 (C) | 14.497 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 114/ 2/7/ 218 (C) | 28.284 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 114/ 2/7/ 229 (C) | 26.939 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 115/ 4862/ 225 (C) | 26.770>> | -0.001 | 0.010 | 0.0 | 0.007 | 0.001 |
| 115/ 4861/ 206 (C) | 5.561<< | -0.000 | -3.772 | 0.0 | 0.000 | -0.000 |
| 115/ 3/7/ 244 (C) | 22.846 | 0.059>> | -0.156 | 0.0 | 0.222 | 0.084 |
| 115/ 4861/ 244 (C) | 21.314 | -0.362<< | 0.958 | 0.0 | -0.000 | -0.000 |
| 115/ 4861/ 218 (C) | 17.885 | -0.289 | 5.298>> | 0.0 | -0.000 | -0.000 |
| 115/ 4861/ 206 (C) | 5.561 | -0.000 | -3.772<< | 0.0 | 0.000 | -0.000 |
| 115/ 4861/ 201 (C) | 6.887 | -0.000 | 0.185 | 0.0>> | -0.000 | -0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 115/ 4861/ 201 (C) | 6.887 | -0.000 | 0.185 | 0.0<< | -0.000 | -0.000 |
| 115/ 2/7/ 218 (C) | 18.652 | 0.039 | -0.721 | 0.0 | 3.726>> | 0.203 |
| 115/ 2/7/ 206 (C) | 6.327 | 0.000 | 0.513 | 0.0 | -2.652<< | 0.000 |
| 115/ 2/7/ 244 (C) | 22.080 | 0.049 | -0.130 | 0.0 | 0.674 | 0.254>> |
| 115/ 5/7/ 244 (C) | 24.378 | -0.002 | 0.006 | 0.0 | -0.028 | -0.011<< |
| 116/ 4863/ 225 (C) | 29.681>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 116/ 4862/ 206 (C) | 10.157<< | -0.000 | -0.009 | 0.0 | -0.006 | 0.000 |
| 116/ 2/7/ 244 (C) | 26.396 | 0.000>> | -0.001 | 0.0 | 0.002 | 0.001 |
| 116/ 4862/ 244 (C) | 25.910 | -0.001<< | 0.002 | 0.0 | 0.002 | 0.001 |
| 116/ 4862/ 218 (C) | 22.482 | -0.001 | 0.013>> | 0.0 | 0.009 | 0.000 |
| 116/ 4862/ 206 (C) | 10.157 | -0.000 | -0.009<< | 0.0 | -0.006 | 0.000 |
| 116/ 4862/ 201 (C) | 11.483 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 116/ 4862/ 201 (C) | 11.483 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 116/ 2/7/ 218 (C) | 22.967 | 0.000 | -0.005 | 0.0 | 0.010>> | 0.001 |
| 116/ 2/7/ 206 (C) | 10.643 | 0.000 | 0.004 | 0.0 | -0.007<< | 0.000 |
| 116/ 2/7/ 244 (C) | 26.396 | 0.000 | -0.001 | 0.0 | 0.002 | 0.001>> |
| 116/ 5/7/ 244 (C) | 27.851 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 117/ 4864/ 225 (C) | 30.677>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 206 (C) | 13.068<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 117/ 4/7/ 244 (C) | 29.319 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 244 (C) | 28.821 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 218 (C) | 25.393 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 206 (C) | 13.068 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 117/ 4863/ 201 (C) | 14.394 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 117/ 4863/ 201 (C) | 14.394 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 117/ 2/7/ 218 (C) | 25.559 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 117/ 2/7/ 206 (C) | 13.234 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 117/ 2/7/ 244 (C) | 28.987 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 117/ 2/7/ 257 (C) | 13.871 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 118/ 4866/ 225 (C) | 27.750>> | -0.001 | 0.010 | 0.0 | 0.007 | 0.001 |
| 118/ 4865/ 206 (C) | 6.823<< | -0.575 | -3.762 | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 202 (C) | 6.968 | 0.209>> | 2.188 | 0.0 | -0.000 | 0.000 |
| 118/ 4865/ 240 (C) | 18.204 | -0.869<< | -0.627 | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 217 (C) | 19.505 | -0.071 | 5.334>> | 0.0 | -0.000 | 0.000 |
| 118/ 4865/ 206 (C) | 6.823 | -0.575 | -3.762<< | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 201 (C) | 7.483 | -0.029 | 0.187 | 0.0>> | -0.000 | -0.000 |
| 118/ 4865/ 201 (C) | 7.483 | -0.029 | 0.187 | 0.0<< | -0.000 | -0.000 |
| 118/ 2/7/ 217 (C) | 20.271 | 0.010 | -0.726 | 0.0 | 3.751>> | 0.050 |
| 118/ 2/7/ 206 (C) | 7.589 | 0.078 | 0.512 | 0.0 | -2.645<< | 0.405 |
| 118/ 2/7/ 240 (C) | 18.970 | 0.118 | 0.085 | 0.0 | -0.441 | 0.611>> |
| 118/ 2/7/ 202 (C) | 7.734 | -0.028 | -0.298 | 0.0 | 1.539 | -0.147<< |
| 119/ 4867/ 225 (C) | 30.661>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 119/ 4866/ 206 (C) | 11.420<< | -0.001 | -0.009 | 0.0 | -0.006 | 0.001 |
| 119/ 2/7/ 240 (C) | 23.285 | 0.001>> | 0.001 | 0.0 | -0.001 | 0.002 |
| 119/ 4866/ 240 (C) | 22.800 | -0.002<< | -0.002 | 0.0 | -0.001 | 0.001 |
| 119/ 4866/ 217 (C) | 24.101 | -0.000 | 0.013>> | 0.0 | 0.009 | 0.000 |
| 119/ 4866/ 206 (C) | 11.420 | -0.001 | -0.009<< | 0.0 | -0.006 | 0.001 |
| 119/ 4866/ 201 (C) | 12.079 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 119/ 4866/ 201 (C) | 12.079 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 119/ 2/7/ 217 (C) | 24.587 | 0.000 | -0.005 | 0.0 | 0.010>> | 0.000 |
| 119/ 2/7/ 206 (C) | 11.905 | 0.001 | 0.004 | 0.0 | -0.007<< | 0.001 |
| 119/ 2/7/ 240 (C) | 23.285 | 0.001 | 0.001 | 0.0 | -0.001 | 0.002>> |



ROBOT v 17.0.1
Autor :
Dirección :

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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 119/ 2/7/ 202 (C) | 12.050 | -0.000 | -0.002 | 0.0 | 0.004 | -0.000<< |
| 120/ 4868/ 225 (C) | 31.657>> | -0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 120/ 4867/ 206 (C) | 14.331<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 120/ 4/7/ 240 (C) | 26.209 | 0.000>> | 0.000 | 0.0 | -0.000 | 0.000 |
| 120/ 4867/ 240 (C) | 25.711 | -0.000<< | -0.000 | 0.0 | -0.000 | 0.000 |
| 120/ 4867/ 217 (C) | 27.012 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 120/ 4867/ 206 (C) | 14.331 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 120/ 4867/ 201 (C) | 14.990 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 120/ 4867/ 201 (C) | 14.990 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 120/ 2/7/ 217 (C) | 27.178 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 120/ 2/7/ 206 (C) | 14.497 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 120/ 2/7/ 240 (C) | 25.877 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 120/ 2/7/ 202 (C) | 14.641 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 121/ 4870/ 221 (C) | 31.175>> | -0.000 | 0.013 | 0.0 | 0.009 | 0.000 |
| 121/ 4869/ 204 (C) | 9.190<< | -0.529 | -1.663 | 0.0 | 0.000 | -0.000 |
| 121/ 4869/ 202 (C) | 10.863 | 0.396>> | 2.199 | 0.0 | -0.000 | 0.000 |
| 121/ 4869/ 240 (C) | 21.168 | -1.411<< | -0.591 | 0.0 | 0.000 | -0.000 |
| 121/ 4869/ 217 (C) | 23.953 | 0.112 | 5.380>> | 0.0 | -0.000 | 0.000 |
| 121/ 4869/ 206 (C) | 10.689 | -1.123 | -3.753<< | 0.0 | 0.000 | -0.000 |
| 121/ 4869/ 201 (C) | 9.244 | -0.055 | 0.191 | 0.0>> | -0.000 | -0.000 |
| 121/ 4869/ 201 (C) | 9.244 | -0.055 | 0.191 | 0.0<< | -0.000 | -0.000 |
| 121/ 2/7/ 217 (C) | 24.719 | -0.015 | -0.732 | 0.0 | 3.783>> | -0.079 |
| 121/ 2/7/ 206 (C) | 11.455 | 0.153 | 0.511 | 0.0 | -2.639<< | 0.790 |
| 121/ 2/7/ 240 (C) | 21.934 | 0.192 | 0.080 | 0.0 | -0.416 | 0.992>> |
| 121/ 2/7/ 202 (C) | 11.629 | -0.054 | -0.299 | 0.0 | 1.546 | -0.278<< |
| 122/ 4871/ 221 (C) | 34.086>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 122/ 4870/ 204 (C) | 13.786<< | -0.001 | -0.004 | 0.0 | -0.003 | 0.001 |
| 122/ 2/7/ 240 (C) | 26.250 | 0.001>> | 0.001 | 0.0 | -0.001 | 0.003 |
| 122/ 4870/ 240 (C) | 25.764 | -0.003<< | -0.001 | 0.0 | -0.001 | 0.002 |
| 122/ 4870/ 217 (C) | 28.549 | 0.000 | 0.013>> | 0.0 | 0.009 | -0.000 |
| 122/ 4870/ 206 (C) | 15.285 | -0.003 | -0.009<< | 0.0 | -0.006 | 0.002 |
| 122/ 4870/ 201 (C) | 13.841 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 122/ 4870/ 201 (C) | 13.841 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 122/ 2/7/ 217 (C) | 29.035 | -0.000 | -0.005 | 0.0 | 0.011>> | -0.000 |
| 122/ 2/7/ 206 (C) | 15.770 | 0.001 | 0.004 | 0.0 | -0.007<< | 0.002 |
| 122/ 2/7/ 240 (C) | 26.250 | 0.001 | 0.001 | 0.0 | -0.001 | 0.003>> |
| 122/ 2/7/ 202 (C) | 15.944 | -0.000 | -0.002 | 0.0 | 0.004 | -0.001<< |
| 123/ 4872/ 221 (C) | 35.081>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 123/ 4871/ 204 (C) | 16.697<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 123/ 4/7/ 240 (C) | 29.173 | 0.000>> | 0.000 | 0.0 | -0.000 | 0.000 |
| 123/ 4871/ 240 (C) | 28.675 | -0.000<< | -0.000 | 0.0 | -0.000 | 0.000 |
| 123/ 4871/ 217 (C) | 31.460 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 123/ 4871/ 206 (C) | 18.196 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 123/ 4871/ 201 (C) | 16.752 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 123/ 4871/ 201 (C) | 16.752 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 123/ 2/7/ 217 (C) | 31.626 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 123/ 2/7/ 206 (C) | 18.362 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 123/ 2/7/ 240 (C) | 28.841 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 123/ 2/7/ 202 (C) | 18.536 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |

**Esfuerzos Máximos y Mínimos en Pilotes para Combinación Característica - Casos: 201A270**

**- Casos: 201A270**

| Filtrar | Barra | Caso |
|---|---|---|
| Lista completa | 1 3A123 140A14 1A14 101A170 2 | |
| Selección | 4A123 | 201A270 |
| | | |
| Número total | 120 | 208 |
| Número seleccionado | 120 | 70 |

**- Casos: 201A270**

| | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| MAX | 71.744 | 1.420 | 6.748 | 0.0 | 4.745 | 0.992 |
| Barra | 81 | 4 | 16 | 4 | 16 | 121 |
| Punto | 4816 | 4713 | 4729 | 4713 | 2/7 | 2/7 |
| Caso | 244 (C) | 240 (C) | 240 (C) | 201 (C) | 240 (C) | 240 (C) |
| MIN | 5.561 | -1.411 | -3.772 | 0.0 | -2.652 | -0.999 |
| Barra | 115 | 121 | 115 | 4 | 115 | 4 |
| Punto | 4861 | 4869 | 4861 | 4713 | 2/7 | 2/7 |
| Caso | 206 (C) | 240 (C) | 206 (C) | 201 (C) | 206 (C) | 240 (C) |

**Envolvente de Esfuerzos en Pilotes para Combinación Frecuente - Casos: 301A354**

**- Casos: 301A354**

| Filtrar | Barra | Caso |
|---|---|---|
| Lista completa | 1 3A123 140A14 1A14 101A170 2 | |
| Selección | 4A123 | 301A354 |
| | | |
| Número total | 120 | 208 |
| Número seleccionado | 120 | 54 |

**- Casos: 301A354**

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 4/ 4714/ 341 (C) | 38.525>> | -0.000 | -0.003 | 0.0 | -0.002 | 0.000 |
| 4/ 4713/ 304 (C) | 12.980<< | 0.534 | 1.735 | 0.0 | -0.000 | 0.000 |
| 4/ 4713/ 328 (C) | 29.017 | 1.048>> | 4.846 | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 302 (C) | 13.774 | -0.207<< | -1.362 | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 327 (C) | 26.586 | 1.046 | 4.856>> | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 302 (C) | 13.774 | -0.207 | -1.362<< | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 301 (C) | 13.037 | 0.060 | -0.139 | 0.0>> | 0.000 | 0.000 |
| 4/ 4713/ 301 (C) | 13.037 | 0.060 | -0.139 | 0.0<< | 0.000 | 0.000 |
| 4/ 2/7/ 327 (C) | 27.352 | -0.142 | -0.661 | 0.0 | 3.414>> | -0.736 |
| 4/ 2/7/ 302 (C) | 14.540 | 0.028 | 0.185 | 0.0 | -0.958<< | 0.145 |
| 4/ 2/7/ 302 (C) | 14.540 | 0.028 | 0.185 | 0.0 | -0.958 | 0.145>> |
| 4/ 2/7/ 328 (C) | 29.783 | -0.143 | -0.660 | 0.0 | 3.408 | -0.737<< |
| 5/ 4715/ 341 (C) | 41.436>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 5/ 4714/ 304 (C) | 17.576<< | 0.001 | 0.004 | 0.0 | 0.003 | -0.001 |
| 5/ 4714/ 328 (C) | 33.613 | 0.003>> | 0.012 | 0.0 | 0.008 | -0.002 |
| 5/ 2/7/ 328 (C) | 34.099 | -0.001<< | -0.005 | 0.0 | 0.009 | -0.002 |
| 5/ 4714/ 327 (C) | 31.182 | 0.003 | 0.012>> | 0.0 | 0.008 | -0.002 |
| 5/ 2/7/ 327 (C) | 31.668 | -0.001 | -0.005<< | 0.0 | 0.009 | -0.002 |
| 5/ 4714/ 301 (C) | 17.633 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 5/ 4714/ 301 (C) | 17.633 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 5/ 2/7/ 327 (C) | 31.668 | -0.001 | -0.005 | 0.0 | 0.009>> | -0.002 |
| 5/ 2/7/ 302 (C) | 18.856 | 0.000 | 0.001 | 0.0 | -0.003<< | 0.000 |
| 5/ 2/7/ 302 (C) | 18.856 | 0.000 | 0.001 | 0.0 | -0.003 | 0.000>> |
| 5/ 2/7/ 328 (C) | 34.099 | -0.001 | -0.005 | 0.0 | 0.009 | -0.002<< |
| 6/ 4716/ 341 (C) | 42.432>> | -0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 6/ 4715/ 304 (C) | 20.487<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 6/ 4715/ 328 (C) | 36.524 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 6/ 4/7/ 328 (C) | 37.022 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 6/ 4715/ 327 (C) | 34.093 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 6/ 4/7/ 327 (C) | 34.591 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 6/ 4715/ 301 (C) | 20.544 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 6/ 4715/ 301 (C) | 20.544 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 6/ 2/7/ 327 (C) | 34.259 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 6/ 2/7/ 302 (C) | 21.448 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 6/ 2/7/ 302 (C) | 21.448 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 6/ 2/7/ 328 (C) | 36.690 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 7/ 4718/ 334 (C) | 34.839>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 7/ 4717/ 306 (C) | 10.311<< | 0.462 | 3.003 | 0.0 | 0.000 | 0.000 |
| 7/ 4717/ 327 (C) | 23.268 | 0.641>> | 4.892 | 0.0 | -0.000 | 0.000 |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 7/ 4717/ 302 (C) | 10.411 | -0.108<< | -1.354 | 0.0 | -0.000 | -0.000 |
| 7/ 4717/ 327 (C) | 23.268 | 0.641 | 4.892>> | 0.0 | -0.000 | 0.000 |
| 7/ 4717/ 302 (C) | 10.411 | -0.108 | -1.354<< | 0.0 | -0.000 | -0.000 |
| 7/ 4717/ 301 (C) | 11.132 | 0.032 | -0.133 | 0.0>> | 0.000 | 0.000 |
| 7/ 4717/ 301 (C) | 11.132 | 0.032 | -0.133 | 0.0<< | 0.000 | 0.000 |
| 7/ 2/7/ 327 (C) | 24.034 | -0.087 | -0.666 | 0.0 | 3.440>> | -0.451 |
| 7/ 2/7/ 302 (C) | 11.177 | 0.015 | 0.184 | 0.0 | -0.952<< | 0.076 |
| 7/ 2/7/ 302 (C) | 11.177 | 0.015 | 0.184 | 0.0 | -0.952 | 0.076>> |
| 7/ 2/7/ 327 (C) | 24.034 | -0.087 | -0.666 | 0.0 | 3.440 | -0.451<< |
| 8/ 4719/ 334 (C) | 37.749>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 8/ 4718/ 306 (C) | 14.907<< | 0.001 | 0.007 | 0.0 | 0.005 | -0.001 |
| 8/ 4718/ 327 (C) | 27.864 | 0.002>> | 0.012 | 0.0 | 0.008 | -0.001 |
| 8/ 2/7/ 327 (C) | 28.349 | -0.001<< | -0.005 | 0.0 | 0.010 | -0.001 |
| 8/ 4718/ 327 (C) | 27.864 | 0.002 | 0.012>> | 0.0 | 0.008 | -0.001 |
| 8/ 2/7/ 327 (C) | 28.349 | -0.001 | -0.005<< | 0.0 | 0.010 | -0.001 |
| 8/ 4718/ 301 (C) | 15.728 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 8/ 4718/ 301 (C) | 15.728 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 8/ 2/7/ 327 (C) | 28.349 | -0.001 | -0.005 | 0.0 | 0.010>> | -0.001 |
| 8/ 2/7/ 302 (C) | 15.493 | 0.000 | 0.001 | 0.0 | -0.003<< | 0.000 |
| 8/ 2/7/ 302 (C) | 15.493 | 0.000 | 0.001 | 0.0 | -0.003 | 0.000>> |
| 8/ 2/7/ 327 (C) | 28.349 | -0.001 | -0.005 | 0.0 | 0.010 | -0.001<< |
| 9/ 4720/ 334 (C) | 38.745>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 9/ 4719/ 306 (C) | 17.818<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 9/ 4719/ 327 (C) | 30.775 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 9/ 4/7/ 327 (C) | 31.273 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 9/ 4719/ 327 (C) | 30.775 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 9/ 4/7/ 327 (C) | 31.273 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 9/ 4719/ 301 (C) | 18.639 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 9/ 4719/ 301 (C) | 18.639 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 9/ 2/7/ 327 (C) | 30.941 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 9/ 2/7/ 302 (C) | 18.084 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 9/ 2/7/ 302 (C) | 18.084 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 9/ 2/7/ 327 (C) | 30.941 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 10/ 4722/ 332 (C) | 33.091>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 10/ 4721/ 306 (C) | 9.194<< | 0.000 | 3.009 | 0.0 | -0.000 | 0.000 |
| 10/ 4721/ 327 (C) | 22.065 | 0.204>> | 4.927 | 0.0 | -0.000 | 0.000 |
| 10/ 3/7/ 327 (C) | 23.597 | -0.033<< | -0.801 | 0.0 | 1.142 | -0.047 |
| 10/ 4721/ 327 (C) | 22.065 | 0.204 | 4.927>> | 0.0 | -0.000 | 0.000 |
| 10/ 4721/ 302 (C) | 9.282 | -0.000 | -1.352<< | 0.0 | 0.000 | -0.000 |
| 10/ 4721/ 301 (C) | 10.482 | -0.000 | -0.131 | 0.0>> | 0.000 | -0.000 |
| 10/ 4721/ 301 (C) | 10.482 | -0.000 | -0.131 | 0.0<< | 0.000 | -0.000 |
| 10/ 2/7/ 327 (C) | 22.831 | -0.028 | -0.671 | 0.0 | 3.465>> | -0.143 |
| 10/ 2/7/ 302 (C) | 10.048 | 0.000 | 0.184 | 0.0 | -0.951<< | 0.000 |
| 10/ 2/7/ 308 (C) | 22.953 | 0.002 | 0.168 | 0.0 | -0.868 | 0.011>> |
| 10/ 2/7/ 327 (C) | 22.831 | -0.028 | -0.671 | 0.0 | 3.465 | -0.143<< |
| 11/ 4723/ 332 (C) | 36.002>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 11/ 4722/ 306 (C) | 13.790<< | 0.000 | 0.007 | 0.0 | 0.005 | -0.000 |
| 11/ 4722/ 327 (C) | 26.661 | 0.001>> | 0.012 | 0.0 | 0.008 | -0.000 |
| 11/ 2/7/ 327 (C) | 27.146 | -0.000<< | -0.005 | 0.0 | 0.010 | -0.000 |
| 11/ 4722/ 327 (C) | 26.661 | 0.001 | 0.012>> | 0.0 | 0.008 | -0.000 |
| 11/ 2/7/ 327 (C) | 27.146 | -0.000 | -0.005<< | 0.0 | 0.010 | -0.000 |
| 11/ 4722/ 301 (C) | 15.078 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 11/ 4722/ 301 (C) | 15.078 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 11/ 2/7/ 327 (C) | 27.146 | -0.000 | -0.005 | 0.0 | 0.010>> | -0.000 |
| 11/ 2/7/ 302 (C) | 14.363 | 0.000 | 0.001 | 0.0 | -0.003<< | 0.000 |
| 11/ 2/7/ 308 (C) | 27.269 | 0.000 | 0.001 | 0.0 | -0.002 | 0.000>> |
| 11/ 2/7/ 327 (C) | 27.146 | -0.000 | -0.005 | 0.0 | 0.010 | -0.000<< |
| 12/ 4724/ 332 (C) | 36.998>> | 0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 12/ 4723/ 306 (C) | 16.701<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 12/ 4723/ 327 (C) | 29.572 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 12/ 4/7/ 327 (C) | 30.070 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 12/ 4723/ 327 (C) | 29.572 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 12/ 4/7/ 327 (C) | 30.070 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 12/ 4723/ 301 (C) | 17.989 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 12/ 4723/ 301 (C) | 17.989 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 12/ 2/7/ 327 (C) | 29.738 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 12/ 2/7/ 302 (C) | 16.955 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 12/ 2/7/ 308 (C) | 29.861 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 12/ 2/7/ 327 (C) | 29.738 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 13/ 4726/ 332 (C) | 33.796>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 13/ 4725/ 306 (C) | 10.311<< | -0.462 | 3.003 | 0.0 | 0.000 | -0.000 |
| 13/ 4725/ 313 (C) | 23.373 | 0.281>> | 1.003 | 0.0 | 0.000 | 0.000 |
| 13/ 4725/ 306 (C) | 10.311 | -0.462<< | 3.003 | 0.0 | 0.000 | -0.000 |
| 13/ 4725/ 328 (C) | 22.192 | -0.244 | 4.951>> | 0.0 | -0.000 | 0.000 |
| 13/ 4725/ 302 (C) | 10.411 | 0.108 | -1.354<< | 0.0 | -0.000 | -0.000 |
| 13/ 4725/ 301 (C) | 11.132 | -0.032 | -0.133 | 0.0>> | 0.000 | -0.000 |
| 13/ 4725/ 301 (C) | 11.132 | -0.032 | -0.133 | 0.0<< | 0.000 | -0.000 |
| 13/ 2/7/ 328 (C) | 22.958 | 0.033 | -0.674 | 0.0 | 3.481>> | 0.171 |
| 13/ 2/7/ 302 (C) | 11.177 | -0.015 | 0.184 | 0.0 | -0.952<< | -0.076 |
| 13/ 2/7/ 306 (C) | 11.077 | 0.063 | -0.409 | 0.0 | 2.112 | 0.325>> |
| 13/ 2/7/ 313 (C) | 24.139 | -0.038 | -0.137 | 0.0 | 0.705 | -0.198<< |
| 14/ 4727/ 332 (C) | 36.707>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 14/ 4726/ 306 (C) | 14.907<< | -0.001 | 0.007 | 0.0 | 0.005 | 0.001 |
| 14/ 4726/ 313 (C) | 27.970 | 0.001>> | 0.002 | 0.0 | 0.002 | -0.000 |
| 14/ 4726/ 306 (C) | 14.907 | -0.001<< | 0.007 | 0.0 | 0.005 | 0.001 |
| 14/ 4726/ 328 (C) | 26.788 | -0.001 | 0.012>> | 0.0 | 0.008 | 0.000 |
| 14/ 2/7/ 328 (C) | 27.273 | 0.000 | -0.005<< | 0.0 | 0.010 | 0.000 |
| 14/ 4726/ 301 (C) | 15.728 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 14/ 4726/ 301 (C) | 15.728 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 14/ 2/7/ 328 (C) | 27.273 | 0.000 | -0.005 | 0.0 | 0.010>> | 0.000 |
| 14/ 2/7/ 302 (C) | 15.493 | -0.000 | 0.001 | 0.0 | -0.003<< | -0.000 |
| 14/ 2/7/ 306 (C) | 15.393 | 0.000 | -0.003 | 0.0 | 0.006 | 0.001>> |
| 14/ 2/7/ 313 (C) | 28.455 | -0.000 | -0.001 | 0.0 | 0.002 | -0.001<< |
| 15/ 4728/ 332 (C) | 37.703>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 15/ 4727/ 306 (C) | 17.818<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 313 (C) | 30.880 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 15/ 4727/ 306 (C) | 17.818 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 328 (C) | 29.699 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 15/ 4/7/ 328 (C) | 30.197 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 301 (C) | 18.639 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 15/ 4727/ 301 (C) | 18.639 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 15/ 2/7/ 328 (C) | 29.865 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 15/ 2/7/ 302 (C) | 18.084 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 15/ 2/7/ 306 (C) | 17.984 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |



ROBOT v 17.0.1
Autor :
Dirección :
© RoboBAT 1996-2003
Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 15/ 2/7/ 313 (C) | 31.046 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 16/ 4730/ 337 (C) | 36.007>> | 0.000 | -0.003 | 0.0 | -0.002 | -0.000 |
| 16/ 4729/ 304 (C) | 12.980<< | -0.534 | 1.735 | 0.0 | 0.000 | -0.000 |
| 16/ 4729/ 313 (C) | 26.739 | 0.359>> | 1.017 | 0.0 | 0.000 | 0.000 |
| 16/ 4729/ 306 (C) | 13.642 | -0.896<< | 2.995 | 0.0 | -0.000 | -0.000 |
| 16/ 4729/ 328 (C) | 24.257 | -0.642 | 4.969>> | 0.0 | -0.000 | -0.000 |
| 16/ 4729/ 302 (C) | 13.774 | 0.207 | -1.362<< | 0.0 | 0.000 | 0.000 |
| 16/ 4729/ 301 (C) | 13.037 | -0.060 | -0.139 | 0.0>> | 0.000 | -0.000 |
| 16/ 4729/ 301 (C) | 13.037 | -0.060 | -0.139 | 0.0<< | 0.000 | -0.000 |
| 16/ 2/7/ 328 (C) | 25.023 | 0.087 | -0.677 | 0.0 | 3.494>> | 0.452 |
| 16/ 2/7/ 302 (C) | 14.540 | -0.028 | 0.185 | 0.0 | -0.958<< | -0.145 |
| 16/ 2/7/ 306 (C) | 14.408 | 0.122 | -0.408 | 0.0 | 2.106 | 0.630>> |
| 16/ 2/7/ 313 (C) | 27.506 | -0.049 | -0.139 | 0.0 | 0.715 | -0.252<< |
| 17/ 4731/ 337 (C) | 38.918>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 17/ 4730/ 304 (C) | 17.576<< | -0.001 | 0.004 | 0.0 | 0.003 | 0.001 |
| 17/ 4730/ 313 (C) | 31.336 | 0.001>> | 0.003 | 0.0 | 0.002 | -0.001 |
| 17/ 4730/ 306 (C) | 18.238 | -0.002<< | 0.007 | 0.0 | 0.005 | 0.001 |
| 17/ 4730/ 328 (C) | 28.853 | -0.002 | 0.012>> | 0.0 | 0.008 | 0.001 |
| 17/ 2/7/ 328 (C) | 29.338 | 0.001 | -0.005<< | 0.0 | 0.010 | 0.001 |
| 17/ 4730/ 301 (C) | 17.633 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 17/ 4730/ 301 (C) | 17.633 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 17/ 2/7/ 328 (C) | 29.338 | 0.001 | -0.005 | 0.0 | 0.010>> | 0.001 |
| 17/ 2/7/ 302 (C) | 18.856 | -0.000 | 0.001 | 0.0 | -0.003<< | -0.000 |
| 17/ 2/7/ 306 (C) | 18.723 | 0.001 | -0.003 | 0.0 | 0.006 | 0.002>> |
| 17/ 2/7/ 313 (C) | 31.821 | -0.000 | -0.001 | 0.0 | 0.002 | -0.001<< |
| 18/ 4732/ 337 (C) | 39.914>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 18/ 4731/ 304 (C) | 20.487<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 18/ 4/7/ 306 (C) | 21.647 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 18/ 4731/ 306 (C) | 21.149 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 18/ 4731/ 328 (C) | 31.764 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 18/ 4/7/ 328 (C) | 32.262 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 18/ 4731/ 301 (C) | 20.544 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 18/ 4731/ 301 (C) | 20.544 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 18/ 2/7/ 328 (C) | 31.930 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 18/ 2/7/ 302 (C) | 21.448 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 18/ 2/7/ 306 (C) | 21.315 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 18/ 2/7/ 313 (C) | 34.413 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 19/ 4734/ 322 (C) | 47.169>> | 0.002 | 0.005 | 0.0 | 0.003 | -0.001 |
| 19/ 4733/ 331 (C) | 20.381<< | 0.073 | -0.033 | 0.0 | 0.000 | 0.000 |
| 19/ 4733/ 328 (C) | 42.560 | 1.022>> | 4.121 | 0.0 | -0.000 | 0.000 |
| 19/ 4733/ 302 (C) | 21.275 | -0.186<< | -0.909 | 0.0 | 0.000 | 0.000 |
| 19/ 4733/ 327 (C) | 39.444 | 1.012 | 4.124>> | 0.0 | -0.000 | 0.000 |
| 19/ 4733/ 302 (C) | 21.275 | -0.186 | -0.909<< | 0.0 | 0.000 | 0.000 |
| 19/ 4733/ 301 (C) | 20.846 | 0.075 | -0.037 | 0.0>> | 0.000 | 0.000 |
| 19/ 4733/ 301 (C) | 20.846 | 0.075 | -0.037 | 0.0<< | 0.000 | 0.000 |
| 19/ 2/7/ 327 (C) | 40.210 | -0.138 | -0.561 | 0.0 | 2.900>> | -0.712 |
| 19/ 2/7/ 302 (C) | 22.041 | 0.025 | 0.124 | 0.0 | -0.639<< | 0.131 |
| 19/ 2/7/ 302 (C) | 22.041 | 0.025 | 0.124 | 0.0 | -0.639 | 0.131>> |
| 19/ 2/7/ 328 (C) | 43.326 | -0.139 | -0.561 | 0.0 | 2.898 | -0.719<< |
| 20/ 4735/ 322 (C) | 50.080>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 20/ 4734/ 331 (C) | 24.977<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 20/ 4734/ 328 (C) | 47.157 | 0.003>> | 0.010 | 0.0 | 0.007 | -0.002 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 20/ 2/7/ 328 (C) | 47.642 | -0.001<< | -0.004 | 0.0 | 0.008 | -0.002 |
| 20/ 4734/ 327 (C) | 44.040 | 0.003 | 0.010>> | 0.0 | 0.007 | -0.002 |
| 20/ 2/7/ 327 (C) | 44.526 | -0.001 | -0.004<< | 0.0 | 0.008 | -0.002 |
| 20/ 4734/ 301 (C) | 25.442 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 20/ 4734/ 301 (C) | 25.442 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 20/ 2/7/ 327 (C) | 44.526 | -0.001 | -0.004 | 0.0 | 0.008>> | -0.002 |
| 20/ 2/7/ 302 (C) | 26.357 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.000 |
| 20/ 2/7/ 302 (C) | 26.357 | 0.000 | 0.001 | 0.0 | -0.002 | 0.000>> |
| 20/ 2/7/ 328 (C) | 47.642 | -0.001 | -0.004 | 0.0 | 0.008 | -0.002<< |
| 21/ 4736/ 322 (C) | 51.076>> | -0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 21/ 4735/ 331 (C) | 27.888<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 21/ 4735/ 328 (C) | 50.067 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 21/ 4/7/ 328 (C) | 50.565 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 21/ 4735/ 327 (C) | 46.951 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 21/ 4/7/ 327 (C) | 47.449 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 21/ 4735/ 301 (C) | 28.353 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 21/ 4735/ 301 (C) | 28.353 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 21/ 2/7/ 327 (C) | 47.117 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 21/ 2/7/ 302 (C) | 28.948 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 21/ 2/7/ 302 (C) | 28.948 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 21/ 2/7/ 328 (C) | 50.233 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 22/ 4738/ 324 (C) | 42.220>> | 0.001 | 0.003 | 0.0 | 0.002 | -0.000 |
| 22/ 4737/ 335 (C) | 17.038<< | -0.075 | -0.757 | 0.0 | -0.000 | -0.000 |
| 22/ 4737/ 328 (C) | 36.646 | 0.595>> | 4.153 | 0.0 | -0.000 | 0.000 |
| 22/ 4737/ 302 (C) | 17.243 | -0.097<< | -0.905 | 0.0 | 0.000 | -0.000 |
| 22/ 4737/ 327 (C) | 35.257 | 0.594 | 4.155>> | 0.0 | -0.000 | 0.000 |
| 22/ 4737/ 302 (C) | 17.243 | -0.097 | -0.905<< | 0.0 | 0.000 | -0.000 |
| 22/ 4737/ 301 (C) | 18.469 | 0.040 | -0.035 | 0.0>> | 0.000 | 0.000 |
| 22/ 4737/ 301 (C) | 18.469 | 0.040 | -0.035 | 0.0<< | 0.000 | 0.000 |
| 22/ 2/7/ 327 (C) | 36.023 | -0.081 | -0.566 | 0.0 | 2.921>> | -0.418 |
| 22/ 2/7/ 302 (C) | 18.009 | 0.013 | 0.123 | 0.0 | -0.636<< | 0.068 |
| 22/ 2/7/ 302 (C) | 18.009 | 0.013 | 0.123 | 0.0 | -0.636 | 0.068>> |
| 22/ 2/7/ 328 (C) | 37.413 | -0.081 | -0.565 | 0.0 | 2.920 | -0.418<< |
| 23/ 4739/ 324 (C) | 45.131>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 23/ 4738/ 335 (C) | 21.634<< | -0.000 | -0.002 | 0.0 | -0.001 | 0.000 |
| 23/ 4738/ 328 (C) | 41.243 | 0.001>> | 0.010 | 0.0 | 0.007 | -0.001 |
| 23/ 2/7/ 328 (C) | 41.728 | -0.001<< | -0.004 | 0.0 | 0.008 | -0.001 |
| 23/ 4738/ 327 (C) | 39.854 | 0.001 | 0.010>> | 0.0 | 0.007 | -0.001 |
| 23/ 2/7/ 327 (C) | 40.339 | -0.001 | -0.004<< | 0.0 | 0.008 | -0.001 |
| 23/ 4738/ 301 (C) | 23.066 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 23/ 4738/ 301 (C) | 23.066 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 23/ 2/7/ 327 (C) | 40.339 | -0.001 | -0.004 | 0.0 | 0.008>> | -0.001 |
| 23/ 2/7/ 302 (C) | 22.325 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.000 |
| 23/ 2/7/ 302 (C) | 22.325 | 0.000 | 0.001 | 0.0 | -0.002 | 0.000>> |
| 23/ 2/7/ 328 (C) | 41.728 | -0.001 | -0.004 | 0.0 | 0.008 | -0.001<< |
| 24/ 4740/ 324 (C) | 46.127>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 24/ 4739/ 335 (C) | 24.545<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 24/ 4739/ 328 (C) | 44.154 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 24/ 4/7/ 328 (C) | 44.652 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 24/ 4739/ 327 (C) | 42.765 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 24/ 4/7/ 327 (C) | 43.262 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 24/ 4739/ 301 (C) | 25.977 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 24/ 4739/ 301 (C) | 25.977 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 24/ 2/7/ 327 (C) | 42.931 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 24/ 2/7/ 302 (C) | 24.917 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 24/ 2/7/ 302 (C) | 24.917 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 24/ 2/7/ 328 (C) | 44.320 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 25/ 4742/ 329 (C) | 39.797>> | 0.000 | 0.009 | 0.0 | 0.006 | -0.000 |
| 25/ 4741/ 339 (C) | 15.792<< | -0.003 | -0.756 | 0.0 | 0.000 | -0.000 |
| 25/ 4741/ 327 (C) | 33.775 | 0.141>> | 4.187 | 0.0 | -0.000 | 0.000 |
| 25/ 3/7/ 327 (C) | 35.307 | -0.023<< | -0.681 | 0.0 | 0.970 | -0.033 |
| 25/ 4741/ 328 (C) | 33.744 | 0.134 | 4.187>> | 0.0 | -0.000 | 0.000 |
| 25/ 4741/ 302 (C) | 15.887 | -0.000 | -0.904<< | 0.0 | 0.000 | -0.000 |
| 25/ 4741/ 301 (C) | 17.668 | 0.000 | -0.034 | 0.0>> | 0.000 | 0.000 |
| 25/ 4741/ 301 (C) | 17.668 | 0.000 | -0.034 | 0.0<< | 0.000 | 0.000 |
| 25/ 2/7/ 328 (C) | 34.510 | -0.018 | -0.570 | 0.0 | 2.944>> | -0.094 |
| 25/ 2/7/ 302 (C) | 16.653 | 0.000 | 0.123 | 0.0 | -0.636<< | 0.000 |
| 25/ 2/7/ 308 (C) | 34.397 | 0.001 | 0.107 | 0.0 | -0.551 | 0.005>> |
| 25/ 2/7/ 327 (C) | 34.541 | -0.019 | -0.570 | 0.0 | 2.944 | -0.099<< |
| 26/ 4743/ 329 (C) | 42.708>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 26/ 4742/ 339 (C) | 20.388<< | -0.000 | -0.002 | 0.0 | -0.001 | 0.000 |
| 26/ 4742/ 327 (C) | 38.372 | 0.000>> | 0.010 | 0.0 | 0.007 | -0.000 |
| 26/ 2/7/ 327 (C) | 38.857 | -0.000<< | -0.004 | 0.0 | 0.008 | -0.000 |
| 26/ 4742/ 328 (C) | 38.340 | 0.000 | 0.010>> | 0.0 | 0.007 | -0.000 |
| 26/ 2/7/ 328 (C) | 38.825 | -0.000 | -0.004<< | 0.0 | 0.008 | -0.000 |
| 26/ 4742/ 301 (C) | 22.264 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 26/ 4742/ 301 (C) | 22.264 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 26/ 2/7/ 328 (C) | 38.825 | -0.000 | -0.004 | 0.0 | 0.008>> | -0.000 |
| 26/ 2/7/ 302 (C) | 20.968 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.000 |
| 26/ 2/7/ 308 (C) | 38.712 | 0.000 | 0.001 | 0.0 | -0.002 | 0.000>> |
| 26/ 2/7/ 327 (C) | 38.857 | -0.000 | -0.004 | 0.0 | 0.008 | -0.000<< |
| 27/ 4744/ 329 (C) | 43.704>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 27/ 4743/ 339 (C) | 23.299<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 27/ 4743/ 327 (C) | 41.283 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 27/ 4/7/ 327 (C) | 41.780 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 27/ 4743/ 328 (C) | 41.251 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 27/ 4/7/ 328 (C) | 41.749 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 27/ 4743/ 301 (C) | 25.175 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 27/ 4743/ 301 (C) | 25.175 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 27/ 2/7/ 328 (C) | 41.417 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 27/ 2/7/ 302 (C) | 23.560 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 27/ 2/7/ 308 (C) | 41.304 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 27/ 2/7/ 327 (C) | 41.448 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 28/ 4746/ 329 (C) | 40.841>> | -0.000 | 0.009 | 0.0 | 0.006 | 0.000 |
| 28/ 4745/ 339 (C) | 17.017<< | 0.073 | -0.755 | 0.0 | -0.000 | 0.000 |
| 28/ 4745/ 313 (C) | 35.177 | 0.204>> | 1.456 | 0.0 | 0.000 | 0.000 |
| 28/ 4745/ 306 (C) | 17.350 | -0.473<< | 2.137 | 0.0 | -0.000 | -0.000 |
| 28/ 4745/ 328 (C) | 33.843 | -0.313 | 4.210>> | 0.0 | 0.000 | 0.000 |
| 28/ 4745/ 302 (C) | 17.243 | 0.097 | -0.905<< | 0.0 | 0.000 | 0.000 |
| 28/ 4745/ 301 (C) | 18.469 | -0.040 | -0.035 | 0.0>> | 0.000 | -0.000 |
| 28/ 4745/ 301 (C) | 18.469 | -0.040 | -0.035 | 0.0<< | 0.000 | -0.000 |
| 28/ 2/7/ 328 (C) | 34.609 | 0.043 | -0.573 | 0.0 | 2.961>> | 0.220 |
| 28/ 2/7/ 302 (C) | 18.009 | -0.013 | 0.123 | 0.0 | -0.636<< | -0.068 |
| 28/ 2/7/ 306 (C) | 18.117 | 0.064 | -0.291 | 0.0 | 1.503 | 0.333>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 28/ 2/7/ 313 (C) | 35.943 | -0.028 | -0.198 | 0.0 | 1.024 | -0.143<< |
| 29/ 4747/ 329 (C) | 43.752>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 29/ 4746/ 339 (C) | 21.613<< | 0.000 | -0.002 | 0.0 | -0.001 | -0.000 |
| 29/ 4746/ 313 (C) | 39.773 | 0.001>> | 0.004 | 0.0 | 0.002 | -0.000 |
| 29/ 4746/ 306 (C) | 21.947 | -0.001<< | 0.005 | 0.0 | 0.003 | 0.001 |
| 29/ 4746/ 328 (C) | 38.439 | -0.001 | 0.010>> | 0.0 | 0.007 | 0.001 |
| 29/ 2/7/ 328 (C) | 38.925 | 0.000 | -0.004<< | 0.0 | 0.008 | 0.001 |
| 29/ 4746/ 301 (C) | 23.066 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 29/ 4746/ 301 (C) | 23.066 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 29/ 2/7/ 328 (C) | 38.925 | 0.000 | -0.004 | 0.0 | 0.008>> | 0.001 |
| 29/ 2/7/ 302 (C) | 22.325 | -0.000 | 0.001 | 0.0 | -0.002<< | -0.000 |
| 29/ 2/7/ 306 (C) | 22.432 | 0.000 | -0.002 | 0.0 | 0.004 | 0.001>> |
| 29/ 2/7/ 313 (C) | 40.258 | -0.000 | -0.001 | 0.0 | 0.003 | -0.000<< |
| 30/ 4748/ 329 (C) | 44.747>> | -0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 30/ 4747/ 339 (C) | 24.524<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 30/ 4747/ 313 (C) | 42.684 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 30/ 4747/ 306 (C) | 24.858 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 30/ 4747/ 328 (C) | 41.350 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 30/ 4/7/ 328 (C) | 41.848 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 30/ 4747/ 301 (C) | 25.977 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 30/ 4747/ 301 (C) | 25.977 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 30/ 2/7/ 328 (C) | 41.516 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 30/ 2/7/ 302 (C) | 24.917 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 30/ 2/7/ 306 (C) | 25.024 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 30/ 2/7/ 313 (C) | 42.850 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 31/ 4750/ 327 (C) | 44.075>> | -0.002 | 0.010 | 0.0 | 0.007 | 0.001 |
| 31/ 4749/ 333 (C) | 20.334<< | -0.075 | -0.030 | 0.0 | 0.000 | -0.000 |
| 31/ 4749/ 314 (C) | 36.404 | 0.273>> | 1.479 | 0.0 | -0.000 | -0.000 |
| 31/ 4749/ 306 (C) | 21.339 | -0.918<< | 2.133 | 0.0 | -0.000 | -0.000 |
| 31/ 4749/ 328 (C) | 36.461 | -0.725 | 4.232>> | 0.0 | -0.000 | -0.000 |
| 31/ 4749/ 302 (C) | 21.275 | 0.186 | -0.909<< | 0.0 | 0.000 | -0.000 |
| 31/ 4749/ 301 (C) | 20.846 | -0.075 | -0.037 | 0.0>> | 0.000 | -0.000 |
| 31/ 4749/ 301 (C) | 20.846 | -0.075 | -0.037 | 0.0<< | 0.000 | -0.000 |
| 31/ 2/7/ 328 (C) | 37.227 | 0.099 | -0.576 | 0.0 | 2.976>> | 0.510 |
| 31/ 2/7/ 302 (C) | 22.041 | -0.025 | 0.124 | 0.0 | -0.639<< | -0.131 |
| 31/ 2/7/ 306 (C) | 22.105 | 0.125 | -0.290 | 0.0 | 1.500 | 0.645>> |
| 31/ 2/7/ 314 (C) | 37.170 | -0.037 | -0.201 | 0.0 | 1.040 | -0.192<< |
| 32/ 4751/ 327 (C) | 46.986>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 32/ 4750/ 333 (C) | 24.931<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 32/ 2/7/ 306 (C) | 26.420 | 0.001>> | -0.002 | 0.0 | 0.004 | 0.002 |
| 32/ 4750/ 306 (C) | 25.935 | -0.002<< | 0.005 | 0.0 | 0.003 | 0.001 |
| 32/ 4750/ 328 (C) | 41.058 | -0.002 | 0.010>> | 0.0 | 0.007 | 0.001 |
| 32/ 2/7/ 328 (C) | 41.543 | 0.001 | -0.004<< | 0.0 | 0.008 | 0.001 |
| 32/ 4750/ 301 (C) | 25.442 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 32/ 4750/ 301 (C) | 25.442 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 32/ 2/7/ 328 (C) | 41.543 | 0.001 | -0.004 | 0.0 | 0.008>> | 0.001 |
| 32/ 2/7/ 302 (C) | 26.357 | -0.000 | 0.001 | 0.0 | -0.002<< | -0.000 |
| 32/ 2/7/ 306 (C) | 26.420 | 0.001 | -0.002 | 0.0 | 0.004 | 0.002>> |
| 32/ 2/7/ 314 (C) | 41.485 | -0.000 | -0.001 | 0.0 | 0.003 | -0.001<< |
| 33/ 4752/ 327 (C) | 47.982>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 33/ 4751/ 333 (C) | 27.842<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 33/ 4/7/ 306 (C) | 29.344 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 33/ 4751/ 306 (C) | 28.846 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 33/ 4751/ 328 (C) | 43.969 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 33/ 4/7/ 328 (C) | 44.466 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 33/ 4751/ 301 (C) | 28.353 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 33/ 4751/ 301 (C) | 28.353 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 33/ 2/7/ 328 (C) | 44.134 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 33/ 2/7/ 302 (C) | 28.948 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 33/ 2/7/ 306 (C) | 29.012 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 33/ 2/7/ 314 (C) | 44.077 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 34/ 4754/ 322 (C) | 47.030>> | 0.002 | 0.003 | 0.0 | 0.002 | -0.001 |
| 34/ 4753/ 331 (C) | 19.160<< | 0.072 | 0.016 | 0.0 | -0.000 | 0.000 |
| 34/ 4753/ 328 (C) | 42.420 | 0.966>> | 3.339 | 0.0 | -0.000 | 0.000 |
| 34/ 4753/ 302 (C) | 21.534 | -0.183<< | -0.483 | 0.0 | 0.000 | -0.000 |
| 34/ 4753/ 328 (C) | 42.420 | 0.966 | 3.339>> | 0.0 | -0.000 | 0.000 |
| 34/ 3/7/ 328 (C) | 43.952 | -0.157 | -0.543<< | 0.0 | 0.774 | -0.224 |
| 34/ 4753/ 301 (C) | 20.446 | 0.075 | 0.014 | 0.0>> | 0.000 | -0.000 |
| 34/ 4753/ 301 (C) | 20.446 | 0.075 | 0.014 | 0.0<< | 0.000 | -0.000 |
| 34/ 2/7/ 328 (C) | 43.186 | -0.131 | -0.455 | 0.0 | 2.348>> | -0.679 |
| 34/ 2/7/ 302 (C) | 22.300 | 0.025 | 0.066 | 0.0 | -0.340<< | 0.129 |
| 34/ 2/7/ 302 (C) | 22.300 | 0.025 | 0.066 | 0.0 | -0.340 | 0.129>> |
| 34/ 2/7/ 328 (C) | 43.186 | -0.131 | -0.455 | 0.0 | 2.348 | -0.679<< |
| 35/ 4755/ 322 (C) | 49.941>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 35/ 4754/ 331 (C) | 23.756<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 35/ 4754/ 328 (C) | 47.016 | 0.002>> | 0.008 | 0.0 | 0.005 | -0.002 |
| 35/ 2/7/ 328 (C) | 47.502 | -0.001<< | -0.003 | 0.0 | 0.007 | -0.002 |
| 35/ 4754/ 328 (C) | 47.016 | 0.002 | 0.008>> | 0.0 | 0.005 | -0.002 |
| 35/ 2/7/ 328 (C) | 47.502 | -0.001 | -0.003<< | 0.0 | 0.007 | -0.002 |
| 35/ 4754/ 301 (C) | 25.042 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 35/ 4754/ 301 (C) | 25.042 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 35/ 2/7/ 328 (C) | 47.502 | -0.001 | -0.003 | 0.0 | 0.007>> | -0.002 |
| 35/ 2/7/ 302 (C) | 26.615 | 0.000 | 0.000 | 0.0 | -0.001<< | 0.000 |
| 35/ 2/7/ 302 (C) | 26.615 | 0.000 | 0.000 | 0.0 | -0.001 | 0.000>> |
| 35/ 2/7/ 328 (C) | 47.502 | -0.001 | -0.003 | 0.0 | 0.007 | -0.002<< |
| 36/ 4756/ 322 (C) | 50.937>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 331 (C) | 26.667<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 328 (C) | 49.927 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4/7/ 328 (C) | 50.425 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 328 (C) | 49.927 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 36/ 4/7/ 328 (C) | 50.425 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 301 (C) | 27.953 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 36/ 4755/ 301 (C) | 27.953 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 36/ 2/7/ 328 (C) | 50.093 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 36/ 2/7/ 302 (C) | 29.207 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 36/ 2/7/ 302 (C) | 29.207 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 36/ 2/7/ 328 (C) | 50.093 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 37/ 4758/ 324 (C) | 41.405>> | 0.001 | 0.002 | 0.0 | 0.001 | -0.000 |
| 37/ 4757/ 335 (C) | 16.277<< | -0.073 | -0.399 | 0.0 | 0.000 | 0.000 |
| 37/ 4757/ 328 (C) | 36.306 | 0.539>> | 3.363 | 0.0 | -0.000 | 0.000 |
| 37/ 4757/ 302 (C) | 17.376 | -0.095<< | -0.484 | 0.0 | 0.000 | -0.000 |
| 37/ 4757/ 328 (C) | 36.306 | 0.539 | 3.363>> | 0.0 | -0.000 | 0.000 |
| 37/ 3/7/ 328 (C) | 37.838 | -0.088 | -0.547<< | 0.0 | 0.779 | -0.125 |
| 37/ 4757/ 301 (C) | 18.037 | 0.041 | 0.013 | 0.0>> | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 37/ 4757/ 301 (C) | 18.037 | 0.041 | 0.013 | 0.0<< | -0.000 | 0.000 |
| 37/ 2/7/ 328 (C) | 37.072 | -0.073 | -0.458 | 0.0 | 2.365>> | -0.379 |
| 37/ 2/7/ 302 (C) | 18.142 | 0.013 | 0.066 | 0.0 | -0.340<< | 0.066 |
| 37/ 2/7/ 302 (C) | 18.142 | 0.013 | 0.066 | 0.0 | -0.340 | 0.066>> |
| 37/ 2/7/ 328 (C) | 37.072 | -0.073 | -0.458 | 0.0 | 2.365 | -0.379<< |
| 38/ 4759/ 324 (C) | 44.316>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 38/ 4758/ 335 (C) | 20.873<< | -0.000 | -0.001 | 0.0 | -0.001 | 0.000 |
| 38/ 4758/ 328 (C) | 40.902 | 0.001>> | 0.008 | 0.0 | 0.005 | -0.001 |
| 38/ 2/7/ 328 (C) | 41.387 | -0.001<< | -0.003 | 0.0 | 0.007 | -0.001 |
| 38/ 4758/ 328 (C) | 40.902 | 0.001 | 0.008>> | 0.0 | 0.005 | -0.001 |
| 38/ 2/7/ 328 (C) | 41.387 | -0.001 | -0.003<< | 0.0 | 0.007 | -0.001 |
| 38/ 4758/ 301 (C) | 22.633 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 38/ 4758/ 301 (C) | 22.633 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 38/ 2/7/ 328 (C) | 41.387 | -0.001 | -0.003 | 0.0 | 0.007>> | -0.001 |
| 38/ 2/7/ 302 (C) | 22.457 | 0.000 | 0.000 | 0.0 | -0.001<< | 0.000 |
| 38/ 2/7/ 302 (C) | 22.457 | 0.000 | 0.000 | 0.0 | -0.001 | 0.000>> |
| 38/ 2/7/ 328 (C) | 41.387 | -0.001 | -0.003 | 0.0 | 0.007 | -0.001<< |
| 39/ 4760/ 324 (C) | 45.312>> | -0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 39/ 4759/ 335 (C) | 23.784<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 39/ 4759/ 328 (C) | 43.813 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 39/ 4/7/ 328 (C) | 44.311 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 39/ 4759/ 328 (C) | 43.813 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 39/ 4/7/ 328 (C) | 44.311 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 39/ 4759/ 301 (C) | 25.544 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 39/ 4759/ 301 (C) | 25.544 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 39/ 2/7/ 328 (C) | 43.979 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 39/ 2/7/ 302 (C) | 25.049 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 39/ 2/7/ 302 (C) | 25.049 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 39/ 2/7/ 328 (C) | 43.979 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 40/ 4762/ 323 (C) | 38.880>> | 0.000 | 0.002 | 0.0 | 0.001 | -0.000 |
| 40/ 4761/ 339 (C) | 14.978<< | -0.004 | -0.399 | 0.0 | 0.000 | -0.000 |
| 40/ 4761/ 327 (C) | 33.306 | 0.080>> | 3.392 | 0.0 | 0.000 | 0.000 |
| 40/ 3/7/ 327 (C) | 34.839 | -0.013<< | -0.551 | 0.0 | 0.786 | -0.018 |
| 40/ 4761/ 328 (C) | 33.272 | 0.075 | 3.392>> | 0.0 | -0.000 | 0.000 |
| 40/ 3/7/ 328 (C) | 34.804 | -0.012 | -0.551<< | 0.0 | 0.786 | -0.017 |
| 40/ 4761/ 301 (C) | 17.210 | 0.000 | 0.013 | 0.0>> | -0.000 | 0.000 |
| 40/ 4761/ 301 (C) | 17.210 | 0.000 | 0.013 | 0.0<< | -0.000 | 0.000 |
| 40/ 2/7/ 328 (C) | 34.038 | -0.010 | -0.462 | 0.0 | 2.385>> | -0.053 |
| 40/ 2/7/ 302 (C) | 16.730 | 0.000 | 0.066 | 0.0 | -0.341<< | 0.000 |
| 40/ 2/7/ 341 (C) | 17.618 | 0.001 | 0.053 | 0.0 | -0.274 | 0.004>> |
| 40/ 2/7/ 327 (C) | 34.073 | -0.011 | -0.462 | 0.0 | 2.385 | -0.056<< |
| 41/ 4763/ 323 (C) | 41.791>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 41/ 4762/ 339 (C) | 19.574<< | -0.000 | -0.001 | 0.0 | -0.001 | 0.000 |
| 41/ 4762/ 327 (C) | 37.903 | 0.000>> | 0.008 | 0.0 | 0.005 | -0.000 |
| 41/ 2/7/ 327 (C) | 38.388 | -0.000<< | -0.003 | 0.0 | 0.007 | -0.000 |
| 41/ 4762/ 328 (C) | 37.868 | 0.000 | 0.008>> | 0.0 | 0.005 | -0.000 |
| 41/ 2/7/ 328 (C) | 38.354 | -0.000 | -0.003<< | 0.0 | 0.007 | -0.000 |
| 41/ 4762/ 301 (C) | 21.806 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 41/ 4762/ 301 (C) | 21.806 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 41/ 2/7/ 328 (C) | 38.354 | -0.000 | -0.003 | 0.0 | 0.007>> | -0.000 |
| 41/ 2/7/ 302 (C) | 21.045 | 0.000 | 0.000 | 0.0 | -0.001<< | 0.000 |
| 41/ 2/7/ 341 (C) | 21.934 | 0.000 | 0.000 | 0.0 | -0.001 | 0.000>> |



ROBOT v 17.0.1
Autor :
Dirección :

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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 41/ 2/7/ 327 (C) | 38.388 | -0.000 | -0.003 | 0.0 | 0.007 | -0.000<< |
| 42/ 4764/ 323 (C) | 42.787>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 42/ 4763/ 339 (C) | 22.485<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 42/ 4763/ 327 (C) | 40.814 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 42/ 4/7/ 327 (C) | 41.312 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 42/ 4763/ 328 (C) | 40.779 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 42/ 4/7/ 328 (C) | 41.277 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 42/ 4763/ 301 (C) | 24.717 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 42/ 4763/ 301 (C) | 24.717 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 42/ 2/7/ 328 (C) | 40.945 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 42/ 2/7/ 302 (C) | 23.637 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 42/ 2/7/ 341 (C) | 24.526 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 42/ 2/7/ 327 (C) | 40.980 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 43/ 4766/ 329 (C) | 39.957>> | -0.001 | 0.007 | 0.0 | 0.005 | 0.000 |
| 43/ 4765/ 339 (C) | 16.200<< | 0.069 | -0.397 | 0.0 | 0.000 | -0.000 |
| 43/ 4765/ 314 (C) | 33.262 | 0.141>> | 1.851 | 0.0 | -0.000 | 0.000 |
| 43/ 4765/ 306 (C) | 17.497 | -0.476<< | 1.245 | 0.0 | -0.000 | -0.000 |
| 43/ 4765/ 327 (C) | 34.868 | -0.377 | 3.416>> | 0.0 | -0.000 | -0.000 |
| 43/ 3/7/ 327 (C) | 36.400 | 0.061 | -0.555<< | 0.0 | 0.792 | 0.087 |
| 43/ 4765/ 301 (C) | 18.037 | -0.041 | 0.013 | 0.0>> | -0.000 | 0.000 |
| 43/ 4765/ 301 (C) | 18.037 | -0.041 | 0.013 | 0.0<< | -0.000 | 0.000 |
| 43/ 2/7/ 327 (C) | 35.634 | 0.051 | -0.465 | 0.0 | 2.402>> | 0.265 |
| 43/ 2/7/ 302 (C) | 18.142 | -0.013 | 0.066 | 0.0 | -0.340<< | -0.066 |
| 43/ 2/7/ 306 (C) | 18.263 | 0.065 | -0.170 | 0.0 | 0.876 | 0.335>> |
| 43/ 2/7/ 314 (C) | 34.028 | -0.019 | -0.252 | 0.0 | 1.301 | -0.099<< |
| 44/ 4767/ 329 (C) | 42.868>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 44/ 4766/ 339 (C) | 20.797<< | 0.000 | -0.001 | 0.0 | -0.001 | -0.000 |
| 44/ 2/7/ 306 (C) | 22.578 | 0.000>> | -0.001 | 0.0 | 0.002 | 0.001 |
| 44/ 4766/ 306 (C) | 22.093 | -0.001<< | 0.003 | 0.0 | 0.002 | 0.001 |
| 44/ 4766/ 327 (C) | 39.464 | -0.001 | 0.008>> | 0.0 | 0.005 | 0.001 |
| 44/ 2/7/ 327 (C) | 39.949 | 0.000 | -0.003<< | 0.0 | 0.007 | 0.001 |
| 44/ 4766/ 301 (C) | 22.633 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 44/ 4766/ 301 (C) | 22.633 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 44/ 2/7/ 327 (C) | 39.949 | 0.000 | -0.003 | 0.0 | 0.007>> | 0.001 |
| 44/ 2/7/ 302 (C) | 22.457 | -0.000 | 0.000 | 0.0 | -0.001<< | -0.000 |
| 44/ 2/7/ 306 (C) | 22.578 | 0.000 | -0.001 | 0.0 | 0.002 | 0.001>> |
| 44/ 2/7/ 314 (C) | 38.343 | -0.000 | -0.002 | 0.0 | 0.004 | -0.000<< |
| 45/ 4768/ 329 (C) | 43.864>> | 0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 45/ 4767/ 339 (C) | 23.708<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 45/ 4/7/ 306 (C) | 25.502 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 45/ 4767/ 306 (C) | 25.004 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 45/ 4767/ 327 (C) | 42.375 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 45/ 4/7/ 327 (C) | 42.873 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 45/ 4767/ 301 (C) | 25.544 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 45/ 4767/ 301 (C) | 25.544 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 45/ 2/7/ 327 (C) | 42.541 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 45/ 2/7/ 302 (C) | 25.049 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 45/ 2/7/ 306 (C) | 25.170 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 45/ 2/7/ 314 (C) | 40.935 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 46/ 4770/ 327 (C) | 43.794>> | -0.002 | 0.009 | 0.0 | 0.006 | 0.001 |
| 46/ 4769/ 333 (C) | 18.995<< | -0.076 | 0.020 | 0.0 | -0.000 | -0.000 |
| 46/ 4769/ 314 (C) | 35.978 | 0.212>> | 1.876 | 0.0 | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 46/ 4769/ 306 (C) | 21.607 | -0.921<< | 1.246 | 0.0 | -0.000 | 0.000 |
| 46/ 4769/ 327 (C) | 39.198 | -0.794 | 3.441>> | 0.0 | -0.000 | -0.000 |
| 46/ 3/7/ 327 (C) | 40.730 | 0.129 | -0.559<< | 0.0 | 0.797 | 0.184 |
| 46/ 4769/ 301 (C) | 20.446 | -0.075 | 0.014 | 0.0>> | -0.000 | -0.000 |
| 46/ 4769/ 301 (C) | 20.446 | -0.075 | 0.014 | 0.0<< | -0.000 | -0.000 |
| 46/ 2/7/ 327 (C) | 39.964 | 0.108 | -0.469 | 0.0 | 2.420>> | 0.559 |
| 46/ 2/7/ 302 (C) | 22.300 | -0.025 | 0.066 | 0.0 | -0.340<< | -0.129 |
| 46/ 2/7/ 306 (C) | 22.373 | 0.125 | -0.170 | 0.0 | 0.876 | 0.648>> |
| 46/ 2/7/ 314 (C) | 36.744 | -0.029 | -0.255 | 0.0 | 1.319 | -0.149<< |
| 47/ 4771/ 327 (C) | 46.705>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 47/ 4770/ 333 (C) | 23.591<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 47/ 2/7/ 306 (C) | 26.688 | 0.001>> | -0.001 | 0.0 | 0.002 | 0.002 |
| 47/ 4770/ 306 (C) | 26.203 | -0.002<< | 0.003 | 0.0 | 0.002 | 0.001 |
| 47/ 4770/ 327 (C) | 43.794 | -0.002 | 0.009>> | 0.0 | 0.006 | 0.001 |
| 47/ 2/7/ 327 (C) | 44.279 | 0.001 | -0.003<< | 0.0 | 0.007 | 0.002 |
| 47/ 4770/ 301 (C) | 25.042 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 47/ 4770/ 301 (C) | 25.042 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 47/ 2/7/ 327 (C) | 44.279 | 0.001 | -0.003 | 0.0 | 0.007>> | 0.002 |
| 47/ 2/7/ 302 (C) | 26.615 | -0.000 | 0.000 | 0.0 | -0.001<< | -0.000 |
| 47/ 2/7/ 306 (C) | 26.688 | 0.001 | -0.001 | 0.0 | 0.002 | 0.002>> |
| 47/ 2/7/ 314 (C) | 41.060 | -0.000 | -0.002 | 0.0 | 0.004 | -0.000<< |
| 48/ 4772/ 327 (C) | 47.701>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 333 (C) | 26.502<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4/7/ 306 (C) | 29.612 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 306 (C) | 29.114 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 327 (C) | 46.705 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 48/ 4/7/ 327 (C) | 47.203 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 301 (C) | 27.953 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 48/ 4771/ 301 (C) | 27.953 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 48/ 2/7/ 327 (C) | 46.871 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 48/ 2/7/ 302 (C) | 29.207 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 48/ 2/7/ 306 (C) | 29.280 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 48/ 2/7/ 314 (C) | 43.652 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 49/ 4774/ 322 (C) | 41.701>> | 0.002 | 0.001 | 0.0 | 0.000 | -0.001 |
| 49/ 4773/ 332 (C) | 17.006<< | 0.067 | -0.020 | 0.0 | 0.000 | 0.000 |
| 49/ 4773/ 306 (C) | 19.076 | 0.914>> | 0.304 | 0.0 | -0.000 | 0.000 |
| 49/ 4773/ 302 (C) | 19.033 | -0.188<< | -0.112 | 0.0 | 0.000 | -0.000 |
| 49/ 4773/ 328 (C) | 37.083 | 0.896 | 2.457>> | 0.0 | -0.000 | 0.000 |
| 49/ 3/7/ 328 (C) | 38.615 | -0.146 | -0.399<< | 0.0 | 0.569 | -0.208 |
| 49/ 4773/ 301 (C) | 17.677 | 0.070 | 0.004 | 0.0>> | -0.000 | 0.000 |
| 49/ 4773/ 301 (C) | 17.677 | 0.070 | 0.004 | 0.0<< | -0.000 | 0.000 |
| 49/ 2/7/ 328 (C) | 37.849 | -0.122 | -0.334 | 0.0 | 1.727>> | -0.630 |
| 49/ 2/7/ 339 (C) | 20.161 | 0.020 | 0.020 | 0.0 | -0.104<< | 0.101 |
| 49/ 2/7/ 302 (C) | 19.799 | 0.026 | 0.015 | 0.0 | -0.079 | 0.132>> |
| 49/ 2/7/ 306 (C) | 19.842 | -0.124 | -0.041 | 0.0 | 0.214 | -0.643<< |
| 50/ 4775/ 322 (C) | 44.612>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 50/ 4774/ 332 (C) | 21.602<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 50/ 4774/ 306 (C) | 23.672 | 0.002>> | 0.001 | 0.0 | 0.000 | -0.001 |
| 50/ 2/7/ 306 (C) | 24.158 | -0.001<< | -0.000 | 0.0 | 0.001 | -0.002 |
| 50/ 4774/ 328 (C) | 41.679 | 0.002 | 0.006>> | 0.0 | 0.004 | -0.001 |
| 50/ 2/7/ 328 (C) | 42.164 | -0.001 | -0.002<< | 0.0 | 0.005 | -0.002 |
| 50/ 4774/ 301 (C) | 22.273 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 50/ 4774/ 301 (C) | 22.273 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 50/ 2/7/ 328 (C) | 42.164 | -0.001 | -0.002 | 0.0 | 0.005>> | -0.002 |
| 50/ 2/7/ 339 (C) | 24.476 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 50/ 2/7/ 302 (C) | 24.114 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 50/ 2/7/ 306 (C) | 24.158 | -0.001 | -0.000 | 0.0 | 0.001 | -0.002<< |
| 51/ 4776/ 322 (C) | 45.608>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 51/ 4775/ 332 (C) | 24.513<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 51/ 4775/ 306 (C) | 26.583 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 51/ 4/7/ 306 (C) | 27.081 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 51/ 4775/ 328 (C) | 44.590 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 51/ 4/7/ 328 (C) | 45.088 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 51/ 4775/ 301 (C) | 25.184 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 51/ 4775/ 301 (C) | 25.184 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 51/ 2/7/ 328 (C) | 44.756 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 51/ 2/7/ 339 (C) | 27.068 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 51/ 2/7/ 302 (C) | 26.706 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 51/ 2/7/ 306 (C) | 26.749 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 52/ 4778/ 324 (C) | 36.061>> | 0.001 | 0.000 | 0.0 | 0.000 | -0.000 |
| 52/ 4777/ 337 (C) | 14.491<< | -0.075 | -0.118 | 0.0 | 0.000 | 0.000 |
| 52/ 4777/ 328 (C) | 31.188 | 0.474>> | 2.481 | 0.0 | -0.000 | 0.000 |
| 52/ 4777/ 302 (C) | 15.029 | -0.097<< | -0.114 | 0.0 | 0.000 | 0.000 |
| 52/ 4777/ 328 (C) | 31.188 | 0.474 | 2.481>> | 0.0 | -0.000 | 0.000 |
| 52/ 3/7/ 328 (C) | 32.720 | -0.077 | -0.403<< | 0.0 | 0.575 | -0.110 |
| 52/ 4777/ 301 (C) | 15.387 | 0.039 | 0.004 | 0.0>> | -0.000 | 0.000 |
| 52/ 4777/ 301 (C) | 15.387 | 0.039 | 0.004 | 0.0<< | -0.000 | 0.000 |
| 52/ 2/7/ 328 (C) | 31.954 | -0.064 | -0.338 | 0.0 | 1.744>> | -0.333 |
| 52/ 2/7/ 339 (C) | 16.032 | 0.010 | 0.019 | 0.0 | -0.100<< | 0.052 |
| 52/ 2/7/ 302 (C) | 15.795 | 0.013 | 0.016 | 0.0 | -0.080 | 0.068>> |
| 52/ 2/7/ 328 (C) | 31.954 | -0.064 | -0.338 | 0.0 | 1.744 | -0.333<< |
| 53/ 4779/ 324 (C) | 38.972>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 53/ 4778/ 337 (C) | 19.088<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 53/ 4778/ 328 (C) | 35.784 | 0.001>> | 0.006 | 0.0 | 0.004 | -0.001 |
| 53/ 2/7/ 328 (C) | 36.270 | -0.000<< | -0.002 | 0.0 | 0.005 | -0.001 |
| 53/ 4778/ 328 (C) | 35.784 | 0.001 | 0.006>> | 0.0 | 0.004 | -0.001 |
| 53/ 2/7/ 328 (C) | 36.270 | -0.000 | -0.002<< | 0.0 | 0.005 | -0.001 |
| 53/ 4778/ 301 (C) | 19.983 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 53/ 4778/ 301 (C) | 19.983 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 53/ 2/7/ 328 (C) | 36.270 | -0.000 | -0.002 | 0.0 | 0.005>> | -0.001 |
| 53/ 2/7/ 339 (C) | 20.348 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 53/ 2/7/ 302 (C) | 20.110 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 53/ 2/7/ 328 (C) | 36.270 | -0.000 | -0.002 | 0.0 | 0.005 | -0.001<< |
| 54/ 4780/ 324 (C) | 39.967>> | 0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 54/ 4779/ 337 (C) | 21.999<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 54/ 4779/ 328 (C) | 38.695 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 54/ 4/7/ 328 (C) | 39.193 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 54/ 4779/ 328 (C) | 38.695 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 54/ 4/7/ 328 (C) | 39.193 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 54/ 4779/ 301 (C) | 22.894 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 54/ 4779/ 301 (C) | 22.894 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 54/ 2/7/ 328 (C) | 38.861 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 54/ 2/7/ 339 (C) | 22.939 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 54/ 2/7/ 302 (C) | 22.702 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 54/ 2/7/ 328 (C) | 38.861 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 55/ 4782/ 323 (C) | 33.636>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 341 (C) | 13.235<< | -0.007 | -0.119 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 315 (C) | 28.250 | 0.019>> | 2.329 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 353 (C) | 13.283 | -0.007<< | 0.060 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 327 (C) | 28.299 | 0.019 | 2.508>> | 0.0 | -0.000 | -0.000 |
| 55/ 3/7/ 327 (C) | 29.831 | -0.003 | -0.408<< | 0.0 | 0.581 | -0.004 |
| 55/ 4781/ 301 (C) | 14.587 | 0.000 | 0.003 | 0.0>> | -0.000 | 0.000 |
| 55/ 4781/ 301 (C) | 14.587 | 0.000 | 0.003 | 0.0<< | -0.000 | 0.000 |
| 55/ 2/7/ 327 (C) | 29.065 | -0.003 | -0.341 | 0.0 | 1.764>> | -0.013 |
| 55/ 2/7/ 335 (C) | 14.460 | -0.000 | 0.019 | 0.0 | -0.097<< | -0.000 |
| 55/ 2/7/ 353 (C) | 14.049 | 0.001 | -0.008 | 0.0 | 0.042 | 0.005>> |
| 55/ 2/7/ 315 (C) | 29.017 | -0.003 | -0.317 | 0.0 | 1.638 | -0.013<< |
| 56/ 4783/ 323 (C) | 36.547>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 56/ 4782/ 341 (C) | 17.831<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 56/ 4782/ 315 (C) | 32.847 | 0.000>> | 0.006 | 0.0 | 0.004 | -0.000 |
| 56/ 2/7/ 315 (C) | 33.332 | -0.000<< | -0.002 | 0.0 | 0.005 | -0.000 |
| 56/ 4782/ 327 (C) | 32.895 | 0.000 | 0.006>> | 0.0 | 0.004 | -0.000 |
| 56/ 2/7/ 327 (C) | 33.380 | -0.000 | -0.002<< | 0.0 | 0.005 | -0.000 |
| 56/ 4782/ 301 (C) | 19.183 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 56/ 4782/ 301 (C) | 19.183 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 56/ 2/7/ 327 (C) | 33.380 | -0.000 | -0.002 | 0.0 | 0.005>> | -0.000 |
| 56/ 2/7/ 335 (C) | 18.776 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 56/ 2/7/ 353 (C) | 18.365 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 56/ 2/7/ 315 (C) | 33.332 | -0.000 | -0.002 | 0.0 | 0.005 | -0.000<< |
| 57/ 4784/ 323 (C) | 37.543>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 57/ 4783/ 341 (C) | 20.742<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 57/ 4783/ 315 (C) | 35.758 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 57/ 4/7/ 315 (C) | 36.256 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 57/ 4783/ 327 (C) | 35.806 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 57/ 4/7/ 327 (C) | 36.304 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 57/ 4783/ 301 (C) | 22.094 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 57/ 4783/ 301 (C) | 22.094 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 57/ 2/7/ 327 (C) | 35.972 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 57/ 2/7/ 335 (C) | 21.367 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 57/ 2/7/ 353 (C) | 20.956 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 57/ 2/7/ 315 (C) | 35.924 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 58/ 4786/ 323 (C) | 34.705>> | -0.001 | 0.000 | 0.0 | 0.000 | 0.000 |
| 58/ 4785/ 341 (C) | 14.411<< | 0.069 | -0.121 | 0.0 | -0.000 | 0.000 |
| 58/ 4785/ 302 (C) | 15.029 | 0.097>> | -0.114 | 0.0 | 0.000 | -0.000 |
| 58/ 4785/ 306 (C) | 15.122 | -0.473<< | 0.303 | 0.0 | -0.000 | -0.000 |
| 58/ 4785/ 327 (C) | 29.835 | -0.435 | 2.533>> | 0.0 | -0.000 | -0.000 |
| 58/ 3/7/ 327 (C) | 31.367 | 0.071 | -0.412<< | 0.0 | 0.587 | 0.101 |
| 58/ 4785/ 301 (C) | 15.387 | -0.039 | 0.004 | 0.0>> | 0.000 | -0.000 |
| 58/ 4785/ 301 (C) | 15.387 | -0.039 | 0.004 | 0.0<< | 0.000 | -0.000 |
| 58/ 2/7/ 327 (C) | 30.601 | 0.059 | -0.345 | 0.0 | 1.781>> | 0.306 |
| 58/ 2/7/ 335 (C) | 15.792 | -0.010 | 0.019 | 0.0 | -0.097<< | -0.050 |
| 58/ 2/7/ 306 (C) | 15.888 | 0.064 | -0.041 | 0.0 | 0.213 | 0.333>> |
| 58/ 2/7/ 302 (C) | 15.795 | -0.013 | 0.016 | 0.0 | -0.080 | -0.068<< |
| 59/ 4787/ 323 (C) | 37.616>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 59/ 4786/ 341 (C) | 19.007<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 59/ 2/7/ 306 (C) | 20.204 | 0.000>> | -0.000 | 0.0 | 0.001 | 0.001 |



ROBOT v 17.0.1
Autor :
Dirección :
© RoboBAT 1996-2003
Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 59/ 4786/ 306 (C) | 19.719 | -0.001<< | 0.001 | 0.0 | 0.000 | 0.001 |
| 59/ 4786/ 327 (C) | 34.431 | -0.001 | 0.006>> | 0.0 | 0.004 | 0.001 |
| 59/ 2/7/ 327 (C) | 34.916 | 0.000 | -0.002<< | 0.0 | 0.005 | 0.001 |
| 59/ 4786/ 301 (C) | 19.983 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 59/ 4786/ 301 (C) | 19.983 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 59/ 2/7/ 327 (C) | 34.916 | 0.000 | -0.002 | 0.0 | 0.005>> | 0.001 |
| 59/ 2/7/ 335 (C) | 20.108 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 59/ 2/7/ 306 (C) | 20.204 | 0.000 | -0.000 | 0.0 | 0.001 | 0.001>> |
| 59/ 2/7/ 302 (C) | 20.110 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 60/ 4788/ 323 (C) | 38.612>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 341 (C) | 21.918<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 60/ 4/7/ 306 (C) | 23.127 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 306 (C) | 22.630 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 327 (C) | 37.342 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 60/ 4/7/ 327 (C) | 37.840 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 301 (C) | 22.894 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 60/ 4787/ 301 (C) | 22.894 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 60/ 2/7/ 327 (C) | 37.508 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 60/ 2/7/ 335 (C) | 22.700 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 60/ 2/7/ 306 (C) | 22.796 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 60/ 2/7/ 302 (C) | 22.702 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 61/ 4790/ 321 (C) | 38.635>> | -0.002 | 0.001 | 0.0 | 0.000 | 0.001 |
| 61/ 4789/ 334 (C) | 16.834<< | -0.073 | -0.026 | 0.0 | 0.000 | -0.000 |
| 61/ 4789/ 302 (C) | 19.033 | 0.188>> | -0.112 | 0.0 | 0.000 | 0.000 |
| 61/ 4789/ 306 (C) | 19.076 | -0.914<< | 0.304 | 0.0 | 0.000 | -0.000 |
| 61/ 4789/ 327 (C) | 34.021 | -0.848 | 2.557>> | 0.0 | -0.000 | -0.000 |
| 61/ 3/7/ 327 (C) | 35.553 | 0.138 | -0.416<< | 0.0 | 0.592 | 0.196 |
| 61/ 4789/ 301 (C) | 17.677 | -0.070 | 0.004 | 0.0>> | -0.000 | -0.000 |
| 61/ 4789/ 301 (C) | 17.677 | -0.070 | 0.004 | 0.0<< | -0.000 | -0.000 |
| 61/ 2/7/ 327 (C) | 34.787 | 0.115 | -0.348 | 0.0 | 1.798>> | 0.596 |
| 61/ 2/7/ 335 (C) | 19.629 | -0.019 | 0.019 | 0.0 | -0.099<< | -0.101 |
| 61/ 2/7/ 306 (C) | 19.842 | 0.124 | -0.041 | 0.0 | 0.214 | 0.643>> |
| 61/ 2/7/ 302 (C) | 19.799 | -0.026 | 0.015 | 0.0 | -0.079 | -0.132<< |
| 62/ 4791/ 321 (C) | 41.546>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 62/ 4790/ 334 (C) | 21.430<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 62/ 2/7/ 306 (C) | 24.158 | 0.001>> | -0.000 | 0.0 | 0.001 | 0.002 |
| 62/ 4790/ 306 (C) | 23.672 | -0.002<< | 0.001 | 0.0 | 0.000 | 0.001 |
| 62/ 4790/ 327 (C) | 38.617 | -0.002 | 0.006>> | 0.0 | 0.004 | 0.001 |
| 62/ 2/7/ 327 (C) | 39.102 | 0.001 | -0.002<< | 0.0 | 0.005 | 0.002 |
| 62/ 4790/ 301 (C) | 22.273 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 62/ 4790/ 301 (C) | 22.273 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 62/ 2/7/ 327 (C) | 39.102 | 0.001 | -0.002 | 0.0 | 0.005>> | 0.002 |
| 62/ 2/7/ 335 (C) | 23.945 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 62/ 2/7/ 306 (C) | 24.158 | 0.001 | -0.000 | 0.0 | 0.001 | 0.002>> |
| 62/ 2/7/ 302 (C) | 24.114 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 63/ 4792/ 321 (C) | 42.542>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 334 (C) | 24.341<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 63/ 4/7/ 306 (C) | 27.081 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 306 (C) | 26.583 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 327 (C) | 41.528 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 63/ 4/7/ 327 (C) | 42.026 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 301 (C) | 25.184 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 63/ 4791/ 301 (C) | 25.184 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 63/ 2/7/ 327 (C) | 41.694 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 63/ 2/7/ 335 (C) | 26.536 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 63/ 2/7/ 306 (C) | 26.749 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 63/ 2/7/ 302 (C) | 26.706 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 64/ 4794/ 328 (C) | 43.385>> | 0.002 | 0.004 | 0.0 | 0.003 | -0.001 |
| 64/ 4793/ 332 (C) | 18.620<< | 0.065 | -0.095 | 0.0 | 0.000 | 0.000 |
| 64/ 4793/ 306 (C) | 20.085 | 0.908>> | -0.385 | 0.0 | -0.000 | 0.000 |
| 64/ 4793/ 302 (C) | 20.034 | -0.194<< | 0.073 | 0.0 | -0.000 | 0.000 |
| 64/ 4793/ 313 (C) | 35.687 | -0.156 | 2.162>> | 0.0 | -0.000 | 0.000 |
| 64/ 4793/ 352 (C) | 26.583 | 0.863 | -0.498<< | 0.0 | 0.000 | 0.000 |
| 64/ 4793/ 301 (C) | 19.014 | 0.067 | -0.068 | 0.0>> | 0.000 | 0.000 |
| 64/ 4793/ 301 (C) | 19.014 | 0.067 | -0.068 | 0.0<< | 0.000 | 0.000 |
| 64/ 2/7/ 313 (C) | 36.453 | 0.021 | -0.294 | 0.0 | 1.520>> | 0.110 |
| 64/ 2/7/ 352 (C) | 27.349 | -0.118 | 0.068 | 0.0 | -0.350<< | -0.607 |
| 64/ 2/7/ 302 (C) | 20.800 | 0.026 | -0.010 | 0.0 | 0.052 | 0.137>> |
| 64/ 2/7/ 306 (C) | 20.851 | -0.124 | 0.052 | 0.0 | -0.271 | -0.639<< |
| 65/ 4795/ 328 (C) | 46.296>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 65/ 4794/ 332 (C) | 23.216<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 65/ 4794/ 306 (C) | 24.681 | 0.002>> | -0.001 | 0.0 | -0.001 | -0.001 |
| 65/ 2/7/ 306 (C) | 25.166 | -0.001<< | 0.000 | 0.0 | -0.001 | -0.002 |
| 65/ 4794/ 313 (C) | 40.284 | -0.000 | 0.005>> | 0.0 | 0.003 | 0.000 |
| 65/ 2/7/ 313 (C) | 40.769 | 0.000 | -0.002<< | 0.0 | 0.004 | 0.000 |
| 65/ 4794/ 301 (C) | 23.611 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 65/ 4794/ 301 (C) | 23.611 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 65/ 2/7/ 313 (C) | 40.769 | 0.000 | -0.002 | 0.0 | 0.004>> | 0.000 |
| 65/ 2/7/ 352 (C) | 31.664 | -0.001 | 0.000 | 0.0 | -0.001<< | -0.002 |
| 65/ 2/7/ 302 (C) | 25.115 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 65/ 2/7/ 306 (C) | 25.166 | -0.001 | 0.000 | 0.0 | -0.001 | -0.002<< |
| 66/ 4796/ 328 (C) | 47.291>> | -0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 66/ 4795/ 332 (C) | 26.127<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 66/ 4795/ 306 (C) | 27.592 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 66/ 4/7/ 306 (C) | 28.090 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 66/ 4795/ 313 (C) | 43.195 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 66/ 4/7/ 313 (C) | 43.692 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 66/ 4795/ 301 (C) | 26.522 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 66/ 4795/ 301 (C) | 26.522 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 66/ 2/7/ 313 (C) | 43.360 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 66/ 2/7/ 352 (C) | 34.256 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 66/ 2/7/ 302 (C) | 27.707 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 66/ 2/7/ 306 (C) | 27.758 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 67/ 4798/ 330 (C) | 38.059>> | 0.001 | 0.005 | 0.0 | 0.003 | -0.000 |
| 67/ 4797/ 337 (C) | 15.926<< | -0.077 | 0.021 | 0.0 | 0.000 | -0.000 |
| 67/ 4797/ 306 (C) | 16.261 | 0.470>> | -0.387 | 0.0 | 0.000 | 0.000 |
| 67/ 4797/ 302 (C) | 16.166 | -0.099<< | 0.071 | 0.0 | 0.000 | -0.000 |
| 67/ 4797/ 313 (C) | 31.516 | -0.085 | 2.185>> | 0.0 | -0.000 | -0.000 |
| 67/ 4797/ 352 (C) | 22.067 | 0.448 | -0.491<< | 0.0 | 0.000 | 0.000 |
| 67/ 4797/ 301 (C) | 16.794 | 0.038 | -0.070 | 0.0>> | 0.000 | 0.000 |
| 67/ 4797/ 301 (C) | 16.794 | 0.038 | -0.070 | 0.0<< | 0.000 | 0.000 |
| 67/ 2/7/ 313 (C) | 32.282 | 0.012 | -0.297 | 0.0 | 1.537>> | 0.060 |
| 67/ 2/7/ 352 (C) | 22.833 | -0.061 | 0.067 | 0.0 | -0.346<< | -0.315 |
| 67/ 2/7/ 302 (C) | 16.932 | 0.013 | -0.010 | 0.0 | 0.050 | 0.070>> |



ROBOT v 17.0.1
Autor :
Dirección :
© RoboBAT 1996-2003
Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 67/ 2/7/ 306 (C) | 17.027 | -0.064 | 0.053 | 0.0 | -0.272 | -0.331<< |
| 68/ 4799/ 330 (C) | 40.970>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 68/ 4798/ 337 (C) | 20.522<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 68/ 4798/ 306 (C) | 20.858 | 0.001>> | -0.001 | 0.0 | -0.001 | -0.001 |
| 68/ 2/7/ 306 (C) | 21.343 | -0.000<< | 0.000 | 0.0 | -0.001 | -0.001 |
| 68/ 4798/ 313 (C) | 36.112 | -0.000 | 0.005>> | 0.0 | 0.004 | 0.000 |
| 68/ 2/7/ 313 (C) | 36.598 | 0.000 | -0.002<< | 0.0 | 0.004 | 0.000 |
| 68/ 4798/ 301 (C) | 21.391 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 68/ 4798/ 301 (C) | 21.391 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 68/ 2/7/ 313 (C) | 36.598 | 0.000 | -0.002 | 0.0 | 0.004>> | 0.000 |
| 68/ 2/7/ 352 (C) | 27.149 | -0.000 | 0.000 | 0.0 | -0.001<< | -0.001 |
| 68/ 2/7/ 302 (C) | 21.247 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 68/ 2/7/ 306 (C) | 21.343 | -0.000 | 0.000 | 0.0 | -0.001 | -0.001<< |
| 69/ 4800/ 330 (C) | 41.965>> | 0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 69/ 4799/ 337 (C) | 23.433<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 69/ 4799/ 306 (C) | 23.769 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 69/ 4/7/ 306 (C) | 24.266 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 69/ 4799/ 313 (C) | 39.023 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 69/ 4/7/ 313 (C) | 39.521 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 69/ 4799/ 301 (C) | 24.302 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 69/ 4799/ 301 (C) | 24.302 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 69/ 2/7/ 313 (C) | 39.189 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 69/ 2/7/ 352 (C) | 29.741 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 69/ 2/7/ 302 (C) | 23.839 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 69/ 2/7/ 306 (C) | 23.934 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 70/ 4802/ 329 (C) | 35.625>> | -0.000 | 0.005 | 0.0 | 0.003 | 0.000 |
| 70/ 4801/ 341 (C) | 14.700<< | -0.005 | 0.021 | 0.0 | -0.000 | -0.000 |
| 70/ 3/7/ 328 (C) | 31.601 | 0.004>> | -0.292 | 0.0 | 0.416 | 0.006 |
| 70/ 4801/ 328 (C) | 30.069 | -0.026<< | 1.796 | 0.0 | -0.000 | -0.000 |
| 70/ 4801/ 313 (C) | 29.996 | -0.021 | 2.213>> | 0.0 | -0.000 | -0.000 |
| 70/ 4801/ 348 (C) | 20.207 | -0.000 | -0.486<< | 0.0 | 0.000 | 0.000 |
| 70/ 4801/ 301 (C) | 16.015 | -0.000 | -0.070 | 0.0>> | 0.000 | -0.000 |
| 70/ 4801/ 301 (C) | 16.015 | -0.000 | -0.070 | 0.0<< | 0.000 | -0.000 |
| 70/ 2/7/ 313 (C) | 30.762 | 0.003 | -0.301 | 0.0 | 1.556>> | 0.015 |
| 70/ 2/7/ 348 (C) | 20.973 | 0.000 | 0.066 | 0.0 | -0.342<< | 0.000 |
| 70/ 2/7/ 328 (C) | 30.835 | 0.004 | -0.244 | 0.0 | 1.263 | 0.019>> |
| 70/ 5/7/ 328 (C) | 33.133 | -0.000 | 0.012 | 0.0 | -0.053 | -0.001<< |
| 71/ 4803/ 329 (C) | 38.536>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 71/ 4802/ 341 (C) | 19.297<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 71/ 2/7/ 328 (C) | 35.151 | 0.000>> | -0.002 | 0.0 | 0.004 | 0.000 |
| 71/ 4802/ 328 (C) | 34.665 | -0.000<< | 0.004 | 0.0 | 0.003 | 0.000 |
| 71/ 4802/ 313 (C) | 34.592 | -0.000 | 0.005>> | 0.0 | 0.004 | 0.000 |
| 71/ 2/7/ 313 (C) | 35.077 | 0.000 | -0.002<< | 0.0 | 0.004 | 0.000 |
| 71/ 4802/ 301 (C) | 20.611 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 71/ 4802/ 301 (C) | 20.611 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 71/ 2/7/ 313 (C) | 35.077 | 0.000 | -0.002 | 0.0 | 0.004>> | 0.000 |
| 71/ 2/7/ 348 (C) | 25.289 | 0.000 | 0.000 | 0.0 | -0.001<< | 0.000 |
| 71/ 2/7/ 328 (C) | 35.151 | 0.000 | -0.002 | 0.0 | 0.004 | 0.000>> |
| 71/ 5/7/ 328 (C) | 36.606 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 72/ 4804/ 329 (C) | 39.532>> | -0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 72/ 4803/ 341 (C) | 22.208<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 72/ 4/7/ 328 (C) | 38.074 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 72/ 4803/ 328 (C) | 37.576 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 72/ 4803/ 313 (C) | 37.503 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 72/ 4/7/ 313 (C) | 38.001 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 72/ 4803/ 301 (C) | 23.522 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 72/ 4803/ 301 (C) | 23.522 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 72/ 2/7/ 313 (C) | 37.669 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 72/ 2/7/ 348 (C) | 27.880 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 72/ 2/7/ 328 (C) | 37.742 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 72/ 2/7/ 339 (C) | 27.769 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 73/ 4806/ 329 (C) | 36.674>> | -0.001 | 0.005 | 0.0 | 0.003 | 0.001 |
| 73/ 4805/ 341 (C) | 15.894<< | 0.072 | 0.019 | 0.0 | -0.000 | 0.000 |
| 73/ 4805/ 302 (C) | 16.166 | 0.099>> | 0.071 | 0.0 | -0.000 | 0.000 |
| 73/ 4805/ 328 (C) | 30.179 | -0.473<< | 1.825 | 0.0 | 0.000 | -0.000 |
| 73/ 4805/ 314 (C) | 30.092 | 0.043 | 2.240>> | 0.0 | -0.000 | 0.000 |
| 73/ 4805/ 348 (C) | 21.570 | -0.446 | -0.485<< | 0.0 | 0.000 | -0.000 |
| 73/ 4805/ 301 (C) | 16.794 | -0.038 | -0.070 | 0.0>> | -0.000 | -0.000 |
| 73/ 4805/ 301 (C) | 16.794 | -0.038 | -0.070 | 0.0<< | -0.000 | -0.000 |
| 73/ 2/7/ 314 (C) | 30.858 | -0.006 | -0.305 | 0.0 | 1.575>> | -0.030 |
| 73/ 2/7/ 348 (C) | 22.336 | 0.061 | 0.066 | 0.0 | -0.341<< | 0.314 |
| 73/ 2/7/ 328 (C) | 30.945 | 0.064 | -0.248 | 0.0 | 1.283 | 0.333>> |
| 73/ 2/7/ 302 (C) | 16.932 | -0.013 | -0.010 | 0.0 | 0.050 | -0.070<< |
| 74/ 4807/ 329 (C) | 39.585>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 74/ 4806/ 341 (C) | 20.490<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 74/ 2/7/ 328 (C) | 35.260 | 0.000>> | -0.002 | 0.0 | 0.004 | 0.001 |
| 74/ 4806/ 328 (C) | 34.775 | -0.001<< | 0.005 | 0.0 | 0.003 | 0.001 |
| 74/ 4806/ 314 (C) | 34.689 | 0.000 | 0.006>> | 0.0 | 0.004 | -0.000 |
| 74/ 2/7/ 314 (C) | 35.174 | -0.000 | -0.002<< | 0.0 | 0.004 | -0.000 |
| 74/ 4806/ 301 (C) | 21.391 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 74/ 4806/ 301 (C) | 21.391 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 74/ 2/7/ 314 (C) | 35.174 | -0.000 | -0.002 | 0.0 | 0.004>> | -0.000 |
| 74/ 2/7/ 348 (C) | 26.651 | 0.000 | 0.000 | 0.0 | -0.001<< | 0.001 |
| 74/ 2/7/ 328 (C) | 35.260 | 0.000 | -0.002 | 0.0 | 0.004 | 0.001>> |
| 74/ 2/7/ 302 (C) | 21.247 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 75/ 4808/ 329 (C) | 40.580>> | -0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 75/ 4807/ 341 (C) | 23.401<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 75/ 4/7/ 328 (C) | 38.184 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 75/ 4807/ 328 (C) | 37.686 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 75/ 4807/ 314 (C) | 37.600 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 75/ 4/7/ 314 (C) | 38.098 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 75/ 4807/ 301 (C) | 24.302 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 75/ 4807/ 301 (C) | 24.302 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 75/ 2/7/ 314 (C) | 37.766 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 75/ 2/7/ 348 (C) | 29.243 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 75/ 2/7/ 328 (C) | 37.852 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 75/ 2/7/ 302 (C) | 23.839 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 76/ 4810/ 321 (C) | 40.322>> | -0.002 | -0.001 | 0.0 | -0.001 | 0.001 |
| 76/ 4809/ 334 (C) | 18.553<< | -0.071 | -0.099 | 0.0 | 0.000 | -0.000 |
| 76/ 4809/ 302 (C) | 20.034 | 0.194>> | 0.073 | 0.0 | -0.000 | 0.000 |
| 76/ 4809/ 306 (C) | 20.085 | -0.908<< | -0.385 | 0.0 | -0.000 | -0.000 |
| 76/ 4809/ 314 (C) | 32.697 | 0.119 | 2.266>> | 0.0 | -0.000 | 0.000 |
| 76/ 4809/ 348 (C) | 25.518 | -0.859 | -0.486<< | 0.0 | 0.000 | -0.000 |
| 76/ 4809/ 301 (C) | 19.014 | -0.067 | -0.068 | 0.0>> | 0.000 | -0.000 |



ROBOT v 17.0.1
Autor :
Dirección :
© RoboBAT 1996-2003
Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 76/ 4809/ 301 (C) | 19.014 | -0.067 | -0.068 | 0.0<< | 0.000 | -0.000 |
| 76/ 2/7/ 314 (C) | 33.463 | -0.016 | -0.309 | 0.0 | 1.594>> | -0.084 |
| 76/ 2/7/ 348 (C) | 26.284 | 0.117 | 0.066 | 0.0 | -0.342<< | 0.604 |
| 76/ 2/7/ 306 (C) | 20.851 | 0.124 | 0.052 | 0.0 | -0.271 | 0.639>> |
| 76/ 2/7/ 302 (C) | 20.800 | -0.026 | -0.010 | 0.0 | 0.052 | -0.137<< |
| 77/ 4811/ 321 (C) | 43.233>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 77/ 4810/ 334 (C) | 23.149<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 77/ 2/7/ 306 (C) | 25.166 | 0.001>> | 0.000 | 0.0 | -0.001 | 0.002 |
| 77/ 4810/ 306 (C) | 24.681 | -0.002<< | -0.001 | 0.0 | -0.001 | 0.001 |
| 77/ 4810/ 314 (C) | 37.293 | 0.000 | 0.006>> | 0.0 | 0.004 | -0.000 |
| 77/ 2/7/ 314 (C) | 37.778 | -0.000 | -0.002<< | 0.0 | 0.004 | -0.000 |
| 77/ 4810/ 301 (C) | 23.611 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 77/ 4810/ 301 (C) | 23.611 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 77/ 2/7/ 314 (C) | 37.778 | -0.000 | -0.002 | 0.0 | 0.004>> | -0.000 |
| 77/ 2/7/ 348 (C) | 30.599 | 0.001 | 0.000 | 0.0 | -0.001<< | 0.002 |
| 77/ 2/7/ 306 (C) | 25.166 | 0.001 | 0.000 | 0.0 | -0.001 | 0.002>> |
| 77/ 2/7/ 302 (C) | 25.115 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 78/ 4812/ 321 (C) | 44.229>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 78/ 4811/ 334 (C) | 26.060<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 78/ 4/7/ 306 (C) | 28.090 | 0.000>> | 0.000 | 0.0 | -0.000 | 0.000 |
| 78/ 4811/ 306 (C) | 27.592 | -0.000<< | -0.000 | 0.0 | -0.000 | 0.000 |
| 78/ 4811/ 314 (C) | 40.204 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 78/ 4/7/ 314 (C) | 40.702 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 78/ 4811/ 301 (C) | 26.522 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 78/ 4811/ 301 (C) | 26.522 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 78/ 2/7/ 314 (C) | 40.370 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 78/ 2/7/ 348 (C) | 33.191 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 78/ 2/7/ 306 (C) | 27.758 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 78/ 2/7/ 302 (C) | 27.707 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 79/ 4814/ 328 (C) | 52.375>> | 0.002 | 0.003 | 0.0 | 0.002 | -0.001 |
| 79/ 4813/ 332 (C) | 24.139<< | 0.063 | -0.119 | 0.0 | 0.000 | 0.000 |
| 79/ 4813/ 306 (C) | 24.782 | 0.905>> | -1.040 | 0.0 | 0.000 | 0.000 |
| 79/ 4813/ 313 (C) | 44.435 | -0.201<< | 2.319 | 0.0 | -0.000 | -0.000 |
| 79/ 4813/ 313 (C) | 44.435 | -0.201 | 2.319>> | 0.0 | -0.000 | -0.000 |
| 79/ 4813/ 352 (C) | 41.810 | 0.871 | -1.138<< | 0.0 | 0.000 | 0.000 |
| 79/ 4813/ 301 (C) | 24.273 | 0.064 | -0.094 | 0.0>> | 0.000 | 0.000 |
| 79/ 4813/ 301 (C) | 24.273 | 0.064 | -0.094 | 0.0<< | 0.000 | 0.000 |
| 79/ 2/7/ 313 (C) | 45.201 | 0.027 | -0.316 | 0.0 | 1.631>> | 0.141 |
| 79/ 2/7/ 352 (C) | 42.576 | -0.119 | 0.155 | 0.0 | -0.800<< | -0.613 |
| 79/ 2/7/ 313 (C) | 45.201 | 0.027 | -0.316 | 0.0 | 1.631 | 0.141>> |
| 79/ 2/7/ 306 (C) | 25.548 | -0.123 | 0.142 | 0.0 | -0.731 | -0.636<< |
| 80/ 4815/ 328 (C) | 55.286>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 80/ 4814/ 332 (C) | 28.736<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 80/ 4814/ 306 (C) | 29.378 | 0.002>> | -0.003 | 0.0 | -0.002 | -0.001 |
| 80/ 2/7/ 306 (C) | 29.863 | -0.001<< | 0.001 | 0.0 | -0.002 | -0.002 |
| 80/ 4814/ 313 (C) | 49.031 | -0.000 | 0.006>> | 0.0 | 0.004 | 0.000 |
| 80/ 4814/ 352 (C) | 46.406 | 0.002 | -0.003<< | 0.0 | -0.002 | -0.001 |
| 80/ 4814/ 301 (C) | 28.869 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 80/ 4814/ 301 (C) | 28.869 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 80/ 2/7/ 313 (C) | 49.516 | 0.000 | -0.002 | 0.0 | 0.005>> | 0.000 |
| 80/ 2/7/ 352 (C) | 46.891 | -0.001 | 0.001 | 0.0 | -0.002<< | -0.002 |
| 80/ 2/7/ 313 (C) | 49.516 | 0.000 | -0.002 | 0.0 | 0.005 | 0.000>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 80/ 2/7/ 306 (C) | 29.863 | -0.001 | 0.001 | 0.0 | -0.002 | -0.002<< |
| 81/ 4816/ 328 (C) | 56.282>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 81/ 4815/ 332 (C) | 31.647<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 81/ 4815/ 306 (C) | 32.289 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 81/ 4/7/ 306 (C) | 32.787 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 81/ 4815/ 313 (C) | 51.942 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 81/ 4815/ 352 (C) | 49.317 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 81/ 4815/ 301 (C) | 31.780 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 81/ 4815/ 301 (C) | 31.780 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 81/ 2/7/ 313 (C) | 52.108 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 81/ 2/7/ 352 (C) | 49.483 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 81/ 2/7/ 313 (C) | 52.108 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 81/ 2/7/ 306 (C) | 32.455 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 82/ 4818/ 330 (C) | 47.633>> | 0.001 | 0.004 | 0.0 | 0.002 | -0.000 |
| 82/ 4817/ 302 (C) | 20.984<< | -0.102 | 0.293 | 0.0 | -0.000 | -0.000 |
| 82/ 4817/ 306 (C) | 21.108 | 0.469>> | -1.043 | 0.0 | 0.000 | 0.000 |
| 82/ 4817/ 313 (C) | 40.458 | -0.130<< | 2.340 | 0.0 | -0.000 | -0.000 |
| 82/ 4817/ 313 (C) | 40.458 | -0.130 | 2.340>> | 0.0 | -0.000 | -0.000 |
| 82/ 4817/ 352 (C) | 36.961 | 0.455 | -1.136<< | 0.0 | 0.000 | 0.000 |
| 82/ 4817/ 301 (C) | 22.176 | 0.036 | -0.096 | 0.0>> | 0.000 | 0.000 |
| 82/ 4817/ 301 (C) | 22.176 | 0.036 | -0.096 | 0.0<< | 0.000 | 0.000 |
| 82/ 2/7/ 313 (C) | 41.224 | 0.018 | -0.319 | 0.0 | 1.645>> | 0.091 |
| 82/ 2/7/ 352 (C) | 37.727 | -0.062 | 0.155 | 0.0 | -0.799<< | -0.320 |
| 82/ 2/7/ 313 (C) | 41.224 | 0.018 | -0.319 | 0.0 | 1.645 | 0.091>> |
| 82/ 2/7/ 306 (C) | 21.875 | -0.064 | 0.142 | 0.0 | -0.733 | -0.330<< |
| 83/ 4819/ 330 (C) | 50.544>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 83/ 4818/ 302 (C) | 25.580<< | -0.000 | 0.001 | 0.0 | 0.000 | 0.000 |
| 83/ 4818/ 306 (C) | 25.705 | 0.001>> | -0.003 | 0.0 | -0.002 | -0.001 |
| 83/ 2/7/ 306 (C) | 26.190 | -0.000<< | 0.001 | 0.0 | -0.002 | -0.001 |
| 83/ 4818/ 313 (C) | 45.054 | -0.000 | 0.006>> | 0.0 | 0.004 | 0.000 |
| 83/ 4818/ 352 (C) | 41.558 | 0.001 | -0.003<< | 0.0 | -0.002 | -0.001 |
| 83/ 4818/ 301 (C) | 26.773 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 83/ 4818/ 301 (C) | 26.773 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 83/ 2/7/ 313 (C) | 45.539 | 0.000 | -0,002 | 0.0 | 0.005>> | 0.000 |
| 83/ 2/7/ 352 (C) | 42.043 | -0.000 | 0.001 | 0.0 | -0.002<< | -0.001 |
| 83/ 2/7/ 313 (C) | 45.539 | 0.000 | -0.002 | 0.0 | 0.005 | 0.000>> |
| 83/ 2/7/ 306 (C) | 26.190 | -0.000 | 0.001 | 0.0 | -0.002 | -0.001<< |
| 84/ 4820/ 330 (C) | 51.540>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 84/ 4819/ 302 (C) | 28.491<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 84/ 4819/ 306 (C) | 28.616 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 84/ 4/7/ 306 (C) | 29.114 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 84/ 4819/ 313 (C) | 47.965 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 84/ 4819/ 352 (C) | 44.469 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 84/ 4819/ 301 (C) | 29.684 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 84/ 4819/ 301 (C) | 29.684 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 84/ 2/7/ 313 (C) | 48.131 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 84/ 2/7/ 352 (C) | 44.635 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 84/ 2/7/ 313 (C) | 48.131 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 84/ 2/7/ 306 (C) | 28.782 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 85/ 4822/ 329 (C) | 45.148>> | -0.000 | 0.004 | 0.0 | 0.002 | 0.000 |
| 85/ 4821/ 302 (C) | 19.708<< | 0.000 | 0.293 | 0.0 | 0.000 | 0.000 |
| 85/ 3/7/ 328 (C) | 40.672 | 0.010>> | -0.188 | 0.0 | 0.268 | 0.015 |



ROBOT v 17.0.1
Autor :
Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 85/ 4821/ 328 (C) | 39.140 | -0.063<< | 1.156 | 0.0 | 0.000 | -0.000 |
| 85/ 4821/ 313 (C) | 39.039 | -0.062 | 2.367>> | 0.0 | 0.000 | -0.000 |
| 85/ 4821/ 352 (C) | 34.753 | 0.006 | -1.131<< | 0.0 | 0.000 | 0.000 |
| 85/ 4821/ 301 (C) | 21.453 | 0.000 | -0.097 | 0.0>> | -0.000 | 0.000 |
| 85/ 4821/ 301 (C) | 21.453 | 0.000 | -0.097 | 0.0<< | -0.000 | 0.000 |
| 85/ 2/7/ 313 (C) | 39.805 | 0.008 | -0.322 | 0.0 | 1.664>> | 0.043 |
| 85/ 2/7/ 352 (C) | 35.519 | -0.001 | 0.154 | 0.0 | -0.795<< | -0.004 |
| 85/ 2/7/ 328 (C) | 39.906 | 0.009 | -0.157 | 0.0 | 0.813 | 0.044>> |
| 85/ 2/7/ 339 (C) | 35.394 | -0.001 | -0.011 | 0.0 | 0.056 | -0.004<< |
| 86/ 4823/ 329 (C) | 48.059>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 86/ 4822/ 302 (C) | 24.304<< | 0.000 | 0.001 | 0.0 | 0.000 | -0.000 |
| 86/ 2/7/ 328 (C) | 44.221 | 0.000>> | -0.001 | 0.0 | 0.002 | 0.000 |
| 86/ 4822/ 328 (C) | 43.736 | -0.000<< | 0.003 | 0.0 | 0.002 | 0.000 |
| 86/ 4822/ 313 (C) | 43.635 | -0.000 | 0.006>> | 0.0 | 0.004 | 0.000 |
| 86/ 4822/ 352 (C) | 39.350 | 0.000 | -0.003<< | 0.0 | -0.002 | -0.000 |
| 86/ 4822/ 301 (C) | 26.049 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 86/ 4822/ 301 (C) | 26.049 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 86/ 2/7/ 313 (C) | 44.120 | 0.000 | -0.002 | 0.0 | 0.005>> | 0.000 |
| 86/ 2/7/ 352 (C) | 39.835 | -0.000 | 0.001 | 0.0 | -0.002<< | -0.000 |
| 86/ 2/7/ 328 (C) | 44.221 | 0.000 | -0.001 | 0.0 | 0.002 | 0.000>> |
| 86/ 2/7/ 339 (C) | 39.710 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 87/ 4824/ 329 (C) | 49.055>> | -0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 302 (C) | 27.215<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 87/ 4/7/ 328 (C) | 47.145 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 328 (C) | 46.647 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 313 (C) | 46.546 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 352 (C) | 42.260 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 87/ 4823/ 301 (C) | 28.960 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 87/ 4823/ 301 (C) | 28.960 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 87/ 2/7/ 313 (C) | 46.712 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 87/ 2/7/ 352 (C) | 42.426 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 87/ 2/7/ 328 (C) | 46.813 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 87/ 2/7/ 339 (C) | 42.301 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 88/ 4826/ 329 (C) | 46.094>> | -0.001 | 0.004 | 0.0 | 0.002 | 0.001 |
| 88/ 4825/ 302 (C) | 20.984<< | 0.102 | 0.293 | 0.0 | -0.000 | 0.000 |
| 88/ 4825/ 302 (C) | 20.984 | 0.102>> | 0.293 | 0.0 | -0.000 | 0.000 |
| 88/ 4825/ 327 (C) | 40.563 | -0.510<< | 1.184 | 0.0 | -0.000 | -0.000 |
| 88/ 4825/ 314 (C) | 38.892 | 0.008 | 2.395>> | 0.0 | -0.000 | 0.000 |
| 88/ 4825/ 348 (C) | 36.104 | -0.446 | -1.129<< | 0.0 | 0.000 | -0.000 |
| 88/ 4825/ 301 (C) | 22.176 | -0.036 | -0.096 | 0.0>> | 0.000 | -0.000 |
| 88/ 4825/ 301 (C) | 22.176 | -0.036 | -0.096 | 0.0<< | 0.000 | -0.000 |
| 88/ 2/7/ 314 (C) | 39.658 | -0.001 | -0.326 | 0.0 | 1.684>> | -0.006 |
| 88/ 2/7/ 348 (C) | 36.870 | 0.061 | 0.154 | 0.0 | -0.794<< | 0.314 |
| 88/ 2/7/ 327 (C) | 41.329 | 0.069 | -0.161 | 0.0 | 0.833 | 0.359>> |
| 88/ 2/7/ 302 (C) | 21.750 | -0.014 | -0.040 | 0.0 | 0.206 | -0.072<< |
| 89/ 4827/ 329 (C) | 49.005>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 89/ 4826/ 302 (C) | 25.580<< | 0.000 | 0.001 | 0.0 | 0.000 | -0.000 |
| 89/ 2/7/ 327 (C) | 45.644 | 0.000>> | -0.001 | 0.0 | 0.002 | 0.001 |
| 89/ 4826/ 327 (C) | 45.159 | -0.001<< | 0.003 | 0.0 | 0.002 | 0.001 |
| 89/ 4826/ 314 (C) | 43.488 | 0.000 | 0.006>> | 0.0 | 0.004 | -0.000 |
| 89/ 4826/ 348 (C) | 40.700 | -0.001 | -0.003<< | 0.0 | -0.002 | 0.001 |
| 89/ 4826/ 301 (C) | 26.773 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 89/ 4826/ 301 (C) | 26.773 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 89/ 2/7/ 314 (C) | 43.973 | -0.000 | -0.002 | 0.0 | 0.005>> | -0.000 |
| 89/ 2/7/ 348 (C) | 41.186 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.001 |
| 89/ 2/7/ 327 (C) | 45.644 | 0.000 | -0.001 | 0.0 | 0.002 | 0.001>> |
| 89/ 2/7/ 302 (C) | 26.065 | -0.000 | -0.000 | 0.0 | 0.001 | -0.000<< |
| 90/ 4828/ 329 (C) | 50.001>> | 0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 90/ 4827/ 302 (C) | 28.491<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 90/ 4/7/ 327 (C) | 48.568 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 90/ 4827/ 327 (C) | 48.070 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 90/ 4827/ 314 (C) | 46.399 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 90/ 4827/ 348 (C) | 43.611 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 90/ 4827/ 301 (C) | 29.684 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 90/ 4827/ 301 (C) | 29.684 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 90/ 2/7/ 314 (C) | 46.565 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 90/ 2/7/ 348 (C) | 43.777 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 90/ 2/7/ 327 (C) | 48.236 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 90/ 2/7/ 302 (C) | 28.657 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 91/ 4830/ 327 (C) | 49.097>> | -0.002 | 0.003 | 0.0 | 0.002 | 0.001 |
| 91/ 4829/ 334 (C) | 24.109<< | -0.067 | -0.122 | 0.0 | -0.000 | -0.000 |
| 91/ 4829/ 302 (C) | 24.690 | 0.199>> | 0.296 | 0.0 | -0.000 | 0.000 |
| 91/ 4829/ 327 (C) | 44.501 | -0.922<< | 1.213 | 0.0 | -0.000 | -0.000 |
| 91/ 4829/ 314 (C) | 41.233 | 0.084 | 2.425>> | 0.0 | -0.000 | -0.000 |
| 91/ 4829/ 348 (C) | 40.016 | -0.860 | -1.125<< | 0.0 | 0.000 | -0.000 |
| 91/ 4829/ 301 (C) | 24.273 | -0.064 | -0.094 | 0.0>> | -0.000 | -0.000 |
| 91/ 4829/ 301 (C) | 24.273 | -0.064 | -0.094 | 0.0<< | -0.000 | -0.000 |
| 91/ 2/7/ 314 (C) | 41.999 | -0.011 | -0.330 | 0.0 | 1.705>> | -0.059 |
| 91/ 2/7/ 348 (C) | 40.782 | 0.117 | 0.153 | 0.0 | -0.791<< | 0.605 |
| 91/ 2/7/ 327 (C) | 45.267 | 0.125 | -0.165 | 0.0 | 0.853 | 0.648>> |
| 91/ 2/7/ 302 (C) | 25.456 | -0.027 | -0.040 | 0.0 | 0.208 | -0.140<< |
| 92/ 4831/ 327 (C) | 52.008>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 92/ 4830/ 334 (C) | 28.706<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 92/ 2/7/ 327 (C) | 49.582 | 0.001>> | -0.001 | 0.0 | 0.002 | 0.002 |
| 92/ 4830/ 327 (C) | 49.097 | -0.002<< | 0.003 | 0.0 | 0.002 | 0.001 |
| 92/ 4830/ 314 (C) | 45.829 | 0.000 | 0.006>> | 0.0 | 0.004 | -0.000 |
| 92/ 4830/ 348 (C) | 44.612 | -0.002 | -0.003<< | 0.0 | -0.002 | 0.001 |
| 92/ 4830/ 301 (C) | 28.869 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 92/ 4830/ 301 (C) | 28.869 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 92/ 2/7/ 314 (C) | 46.314 | -0.000 | -0.002 | 0.0 | 0.005>> | -0.000 |
| 92/ 2/7/ 348 (C) | 45.098 | 0.001 | 0.001 | 0.0 | -0.002<< | 0.002 |
| 92/ 2/7/ 327 (C) | 49.582 | 0.001 | -0.001 | 0.0 | 0.002 | 0.002>> |
| 92/ 2/7/ 302 (C) | 29.772 | -0.000 | -0.000 | 0.0 | 0.001 | -0.000<< |
| 93/ 4832/ 327 (C) | 53.004>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 93/ 4831/ 334 (C) | 31.617<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 93/ 4/7/ 327 (C) | 52.506 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 93/ 4831/ 327 (C) | 52.008 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 93/ 4831/ 314 (C) | 48.740 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 93/ 4831/ 348 (C) | 47.523 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 93/ 4831/ 301 (C) | 31.780 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 93/ 4831/ 301 (C) | 31.780 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 93/ 2/7/ 314 (C) | 48.906 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 93/ 2/7/ 348 (C) | 47.689 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 93/ 2/7/ 327 (C) | 52.174 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |



ROBOT v 17.0.1
Autor :
Dirección :
© RoboBAT 1996-2003
Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 93/ 2/7/ 302 (C) | 32.363 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 94/ 4834/ 324 (C) | 47.182>> | 0.001 | -0.003 | 0.0 | -0.002 | -0.001 |
| 94/ 4833/ 302 (C) | 21.392<< | -0.207 | 1.105 | 0.0 | 0.000 | -0.000 |
| 94/ 4833/ 306 (C) | 21.512 | 0.897>> | -2.334 | 0.0 | 0.000 | 0.000 |
| 94/ 4833/ 313 (C) | 39.574 | -0.307<< | 3.195 | 0.0 | -0.000 | -0.000 |
| 94/ 4833/ 314 (C) | 42.427 | -0.300 | 3.205>> | 0.0 | 0.000 | -0.000 |
| 94/ 4833/ 306 (C) | 21.512 | 0.897 | -2.334<< | 0.0 | 0.000 | 0.000 |
| 94/ 4833/ 301 (C) | 21.504 | 0.061 | 0.130 | 0.0>> | -0.000 | 0.000 |
| 94/ 4833/ 301 (C) | 21.504 | 0.061 | 0.130 | 0.0<< | -0.000 | 0.000 |
| 94/ 2/7/ 314 (C) | 43.193 | 0.041 | -0.436 | 0.0 | 2.254>> | 0.211 |
| 94/ 2/7/ 306 (C) | 22.278 | -0.122 | 0.318 | 0.0 | -1.641<< | -0.631 |
| 94/ 2/7/ 313 (C) | 40.340 | 0.042 | -0.435 | 0.0 | 2.247 | 0.216>> |
| 94/ 2/7/ 306 (C) | 22.278 | -0.122 | 0.318 | 0.0 | -1.641 | -0.631<< |
| 95/ 4835/ 324 (C) | 50.093>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 95/ 4834/ 302 (C) | 25.988<< | -0.001 | 0.003 | 0.0 | 0.002 | 0.000 |
| 95/ 4834/ 306 (C) | 26.109 | 0.002>> | -0.006 | 0.0 | -0.004 | -0.001 |
| 95/ 2/7/ 306 (C) | 26.594 | -0.001<< | 0.002 | 0.0 | -0.005 | -0.002 |
| 95/ 4834/ 314 (C) | 47.023 | -0.001 | 0.008>> | 0.0 | 0.005 | 0.000 |
| 95/ 4834/ 306 (C) | 26.109 | 0.002 | -0.006<< | 0.0 | -0.004 | -0.001 |
| 95/ 4834/ 301 (C) | 26.101 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 95/ 4834/ 301 (C) | 26.101 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 95/ 2/7/ 314 (C) | 47.508 | 0.000 | -0.003 | 0.0 | 0.006>> | 0.001 |
| 95/ 2/7/ 306 (C) | 26.594 | -0.001 | 0.002 | 0.0 | -0.005<< | -0.002 |
| 95/ 2/7/ 313 (C) | 44.655 | 0.000 | -0.003 | 0.0 | 0.006 | 0.001>> |
| 95/ 2/7/ 306 (C) | 26.594 | -0.001 | 0.002 | 0.0 | -0.005 | -0.002<< |
| 96/ 4836/ 324 (C) | 51.089>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 96/ 4835/ 302 (C) | 28.899<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 96/ 4835/ 306 (C) | 29.020 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 96/ 4/7/ 306 (C) | 29.517 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 96/ 4835/ 314 (C) | 49.934 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 96/ 4835/ 306 (C) | 29.020 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 96/ 4835/ 301 (C) | 29.012 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 96/ 4835/ 301 (C) | 29.012 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 96/ 2/7/ 314 (C) | 50.100 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 96/ 2/7/ 306 (C) | 29.186 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 96/ 2/7/ 313 (C) | 47.247 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 96/ 2/7/ 306 (C) | 29.186 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 97/ 4838/ 324 (C) | 43.222>> | 0.001 | -0.003 | 0.0 | -0.002 | -0.000 |
| 97/ 4837/ 302 (C) | 17.990<< | -0.107 | 1.103 | 0.0 | -0.000 | -0.000 |
| 97/ 4837/ 306 (C) | 18.138 | 0.463>> | -2.335 | 0.0 | 0.000 | 0.000 |
| 97/ 4837/ 313 (C) | 35.917 | -0.234<< | 3.219 | 0.0 | 0.000 | -0.000 |
| 97/ 4837/ 314 (C) | 37.236 | -0.234 | 3.225>> | 0.0 | -0.000 | -0.000 |
| 97/ 4837/ 306 (C) | 18.138 | 0.463 | -2.335<< | 0.0 | 0.000 | 0.000 |
| 97/ 4837/ 301 (C) | 19.559 | 0.032 | 0.129 | 0.0>> | -0.000 | 0.000 |
| 97/ 4837/ 301 (C) | 19.559 | 0.032 | 0.129 | 0.0<< | -0.000 | 0.000 |
| 97/ 2/7/ 314 (C) | 38.002 | 0.032 | -0.439 | 0.0 | 2.268>> | 0.164 |
| 97/ 2/7/ 306 (C) | 18.904 | -0.063 | 0.318 | 0.0 | -1.642<< | -0.326 |
| 97/ 2/7/ 313 (C) | 36.683 | 0.032 | -0.438 | 0.0 | 2.264 | 0.164>> |
| 97/ 2/7/ 306 (C) | 18.904 | -0.063 | 0.318 | 0.0 | -1.642 | -0.326<< |
| 98/ 4839/ 324 (C) | 46.133>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 98/ 4838/ 302 (C) | 22.586<< | -0.000 | 0.003 | 0.0 | 0.002 | 0.000 |
| 98/ 4838/ 306 (C) | 22.735 | 0.001>> | -0.006 | 0.0 | -0.004 | -0.001 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 98/ 4838/ 313 (C) | 40.513 | -0.001<< | 0.008 | 0.0 | 0.005 | 0.000 |
| 98/ 4838/ 314 (C) | 41.833 | -0.001 | 0.008>> | 0.0 | 0.005 | 0.000 |
| 98/ 4838/ 306 (C) | 22.735 | 0.001 | -0.006<< | 0.0 | -0.004 | -0.001 |
| 98/ 4838/ 301 (C) | 24.155 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 98/ 4838/ 301 (C) | 24.155 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 98/ 2/7/ 314 (C) | 42.318 | 0.000 | -0.003 | 0.0 | 0.006>> | 0.000 |
| 98/ 2/7/ 306 (C) | 23.220 | -0.000 | 0.002 | 0.0 | -0.005<< | -0.001 |
| 98/ 2/7/ 313 (C) | 40.999 | 0.000 | -0.003 | 0.0 | 0.006 | 0.000>> |
| 98/ 2/7/ 306 (C) | 23.220 | -0.000 | 0.002 | 0.0 | -0.005 | -0.001<< |
| 99/ 4840/ 324 (C) | 47.129>> | -0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 99/ 4839/ 302 (C) | 25.497<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 99/ 4839/ 306 (C) | 25.646 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 99/ 4839/ 313 (C) | 43.424 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 99/ 4839/ 314 (C) | 44.743 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 99/ 4839/ 306 (C) | 25.646 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 99/ 4839/ 301 (C) | 27.066 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 99/ 4839/ 301 (C) | 27.066 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 99/ 2/7/ 314 (C) | 44.909 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 99/ 2/7/ 306 (C) | 25.812 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 99/ 2/7/ 313 (C) | 43.590 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 99/ 2/7/ 306 (C) | 25.812 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 100/ 4842/ 323 (C) | 41.041>> | -0.000 | -0.003 | 0.0 | -0.002 | 0.000 |
| 100/ 4841/ 302 (C) | 16.840<< | 0.000 | 1.102 | 0.0 | -0.000 | 0.000 |
| 100/ 3/7/ 328 (C) | 36.285 | 0.027>> | -0.022 | 0.0 | 0.031 | 0.038 |
| 100/ 4841/ 328 (C) | 34.753 | -0.165<< | 0.135 | 0.0 | -0.000 | 0.000 |
| 100/ 4841/ 314 (C) | 34.608 | -0.165 | 3.247>> | 0.0 | -0.000 | 0.000 |
| 100/ 4841/ 306 (C) | 17.000 | -0.000 | -2.337<< | 0.0 | 0.000 | -0.000 |
| 100/ 4841/ 301 (C) | 18.905 | -0.000 | 0.129 | 0.0>> | -0.000 | -0.000 |
| 100/ 4841/ 301 (C) | 18.905 | -0.000 | 0.129 | 0.0<< | -0.000 | -0.000 |
| 100/ 2/7/ 314 (C) | 35.375 | 0.022 | -0.442 | 0.0 | 2.283>> | 0.116 |
| 100/ 2/7/ 306 (C) | 17.766 | 0.000 | 0.318 | 0.0 | -1.643<< | 0.000 |
| 100/ 2/7/ 328 (C) | 35.519 | 0.022 | -0.018 | 0.0 | 0.095 | 0.116>> |
| 100/ 5/7/ 328 (C) | 37.817 | -0.001 | 0.001 | 0.0 | -0.004 | -0.005<< |
| 101/ 4843/ 323 (C) | 43.952>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 101/ 4842/ 302 (C) | 21.436<< | 0.000 | 0.003 | 0.0 | 0.002 | -0.000 |
| 101/ 2/7/ 328 (C) | 39.834 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 101/ 4842/ 328 (C) | 39.349 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 101/ 4842/ 314 (C) | 39.205 | -0.000 | 0.008>> | 0.0 | 0.005 | 0.000 |
| 101/ 4842/ 306 (C) | 21.596 | -0.000 | -0.006<< | 0.0 | -0.004 | 0.000 |
| 101/ 4842/ 301 (C) | 23.501 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 101/ 4842/ 301 (C) | 23.501 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 101/ 2/7/ 314 (C) | 39.690 | 0.000 | -0.003 | 0.0 | 0.006>> | 0.000 |
| 101/ 2/7/ 306 (C) | 22.081 | 0.000 | 0.002 | 0.0 | -0.005<< | 0.000 |
| 101/ 2/7/ 328 (C) | 39.834 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 101/ 5/7/ 328 (C) | 41.290 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 102/ 4844/ 323 (C) | 44.947>> | -0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 102/ 4843/ 302 (C) | 24.347<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 102/ 4/7/ 328 (C) | 42.758 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 102/ 4843/ 328 (C) | 42.260 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 102/ 4843/ 314 (C) | 42.116 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 102/ 4843/ 306 (C) | 24.507 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 102/ 4843/ 301 (C) | 26.412 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 102/ 4843/ 301 (C) | 26.412 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 102/ 2/7/ 314 (C) | 42.282 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 102/ 2/7/ 306 (C) | 24.673 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 102/ 2/7/ 328 (C) | 42.426 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 102/ 2/7/ 341 (C) | 24.894 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 103/ 4846/ 323 (C) | 41.903>> | -0.001 | -0.003 | 0.0 | -0.002 | 0.000 |
| 103/ 4845/ 302 (C) | 17.990<< | 0.107 | 1.103 | 0.0 | -0.000 | -0.000 |
| 103/ 4845/ 302 (C) | 17.990 | 0.107>> | 1.103 | 0.0 | -0.000 | -0.000 |
| 103/ 4845/ 328 (C) | 34.689 | -0.603<< | 0.156 | 0.0 | -0.000 | -0.000 |
| 103/ 4845/ 313 (C) | 35.901 | -0.085 | 3.273>> | 0.0 | -0.000 | -0.000 |
| 103/ 4845/ 306 (C) | 18.138 | -0.463 | -2.335<< | 0.0 | 0.000 | -0.000 |
| 103/ 4845/ 301 (C) | 19.559 | -0.032 | 0.129 | 0.0>> | 0.000 | -0.000 |
| 103/ 4845/ 301 (C) | 19.559 | -0.032 | 0.129 | 0.0<< | 0.000 | -0.000 |
| 103/ 2/7/ 313 (C) | 36.667 | 0.012 | -0.446 | 0.0 | 2.301>> | 0.060 |
| 103/ 2/7/ 306 (C) | 18.904 | 0.063 | 0.318 | 0.0 | -1.642<< | 0.326 |
| 103/ 2/7/ 328 (C) | 35.455 | 0.082 | -0.021 | 0.0 | 0.110 | 0.424>> |
| 103/ 2/7/ 302 (C) | 18.756 | -0.015 | -0.150 | 0.0 | 0.775 | -0.076<< |
| 104/ 4847/ 323 (C) | 44.814>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 104/ 4846/ 302 (C) | 22.586<< | 0.000 | 0.003 | 0.0 | 0.002 | -0.000 |
| 104/ 2/7/ 328 (C) | 39.770 | 0.001>> | -0.000 | 0.0 | 0.000 | 0.001 |
| 104/ 4846/ 328 (C) | 39.285 | -0.001<< | 0.000 | 0.0 | 0.000 | 0.001 |
| 104/ 4846/ 313 (C) | 40.497 | -0.000 | 0.008>> | 0.0 | 0.005 | 0.000 |
| 104/ 4846/ 306 (C) | 22.735 | -0.001 | -0.006<< | 0.0 | -0.004 | 0.001 |
| 104/ 4846/ 301 (C) | 24.155 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 104/ 4846/ 301 (C) | 24.155 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 104/ 2/7/ 313 (C) | 40.982 | 0.000 | -0.003 | 0.0 | 0.006>> | 0.000 |
| 104/ 2/7/ 306 (C) | 23.220 | 0.000 | 0.002 | 0.0 | -0.005<< | 0.001 |
| 104/ 2/7/ 328 (C) | 39.770 | 0.001 | -0.000 | 0.0 | 0.000 | 0.001>> |
| 104/ 2/7/ 302 (C) | 23.071 | -0.000 | -0.001 | 0.0 | 0.002 | -0.000<< |
| 105/ 4848/ 323 (C) | 45.810>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 105/ 4847/ 302 (C) | 25.497<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 105/ 4/7/ 328 (C) | 42.694 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 105/ 4847/ 328 (C) | 42.196 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 105/ 4847/ 313 (C) | 43.408 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 105/ 4847/ 306 (C) | 25.646 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 105/ 4847/ 301 (C) | 27.066 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 105/ 4847/ 301 (C) | 27.066 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 105/ 2/7/ 313 (C) | 43.574 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 105/ 2/7/ 306 (C) | 25.812 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 105/ 2/7/ 328 (C) | 42.362 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 105/ 2/7/ 302 (C) | 25.663 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 106/ 4850/ 323 (C) | 44.330>> | -0.001 | -0.003 | 0.0 | -0.002 | 0.001 |
| 106/ 4849/ 302 (C) | 21.392<< | 0.207 | 1.105 | 0.0 | -0.000 | 0.000 |
| 106/ 4849/ 302 (C) | 21.392 | 0.207>> | 1.105 | 0.0 | -0.000 | 0.000 |
| 106/ 4849/ 327 (C) | 39.650 | -1.011<< | 0.187 | 0.0 | -0.000 | -0.000 |
| 106/ 4849/ 313 (C) | 39.540 | -0.012 | 3.298>> | 0.0 | 0.000 | -0.000 |
| 106/ 4849/ 306 (C) | 21.512 | -0.897 | -2.334<< | 0.0 | -0.000 | -0.000 |
| 106/ 4849/ 301 (C) | 21.504 | -0.061 | 0.130 | 0.0>> | -0.000 | 0.000 |
| 106/ 4849/ 301 (C) | 21.504 | -0.061 | 0.130 | 0.0<< | -0.000 | 0.000 |
| 106/ 2/7/ 313 (C) | 40.306 | 0.002 | -0.449 | 0.0 | 2.319>> | 0.009 |
| 106/ 2/7/ 306 (C) | 22.278 | 0.122 | 0.318 | 0.0 | -1.641<< | 0.631 |
| 106/ 2/7/ 327 (C) | 40.416 | 0.138 | -0.025 | 0.0 | 0.131 | 0.711>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 106/ 2/7/ 302 (C) | 22.158 | -0.028 | -0.150 | 0.0 | 0.777 | -0.146<< |
| 107/ 4851/ 323 (C) | 47.240>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 107/ 4850/ 302 (C) | 25.988<< | 0.001 | 0.003 | 0.0 | 0.002 | -0.000 |
| 107/ 2/7/ 327 (C) | 44.731 | 0.001>> | -0.000 | 0.0 | 0.000 | 0.002 |
| 107/ 4850/ 327 (C) | 44.246 | -0.002<< | 0.000 | 0.0 | 0.000 | 0.002 |
| 107/ 4850/ 313 (C) | 44.137 | -0.000 | 0.008>> | 0.0 | 0.005 | 0.000 |
| 107/ 4850/ 306 (C) | 26.109 | -0.002 | -0.006<< | 0.0 | -0.004 | 0.001 |
| 107/ 4850/ 301 (C) | 26.101 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 107/ 4850/ 301 (C) | 26.101 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 107/ 2/7/ 313 (C) | 44.622 | 0.000 | -0.003 | 0.0 | 0.006>> | 0.000 |
| 107/ 2/7/ 306 (C) | 26.594 | 0.001 | 0.002 | 0.0 | -0.005<< | 0.002 |
| 107/ 2/7/ 327 (C) | 44.731 | 0.001 | -0.000 | 0.0 | 0.000 | 0.002>> |
| 107/ 2/7/ 302 (C) | 26.473 | -0.000 | -0.001 | 0.0 | 0.002 | -0.000<< |
| 108/ 4852/ 323 (C) | 48.236>> | 0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 108/ 4851/ 302 (C) | 28.899<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 108/ 4/7/ 327 (C) | 47.655 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 108/ 4851/ 327 (C) | 47.157 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 108/ 4851/ 313 (C) | 47.047 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 108/ 4851/ 306 (C) | 29.020 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 108/ 4851/ 301 (C) | 29.012 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 108/ 4851/ 301 (C) | 29.012 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 108/ 2/7/ 313 (C) | 47.213 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 108/ 2/7/ 306 (C) | 29.186 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 108/ 2/7/ 327 (C) | 47.323 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 108/ 2/7/ 302 (C) | 29.065 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 109/ 4854/ 314 (C) | 26.497>> | -0.001 | 0.009 | 0.0 | 0.006 | 0.001 |
| 109/ 4853/ 304 (C) | 9.190<< | 0.529 | -1.663 | 0.0 | 0.000 | 0.000 |
| 109/ 4853/ 306 (C) | 10.089 | 0.885>> | -2.917 | 0.0 | 0.000 | 0.000 |
| 109/ 4853/ 313 (C) | 19.901 | -0.359<< | 3.477 | 0.0 | -0.000 | -0.000 |
| 109/ 4853/ 314 (C) | 21.900 | -0.359 | 3.492>> | 0.0 | -0.000 | -0.000 |
| 109/ 4853/ 306 (C) | 10.089 | 0.885 | -2.917<< | 0.0 | 0.000 | 0.000 |
| 109/ 4853/ 301 (C) | 9.244 | 0.055 | 0.191 | 0.0>> | 0.000 | 0.000 |
| 109/ 4853/ 301 (C) | 9.244 | 0.055 | 0.191 | 0.0<< | 0.000 | 0.000 |
| 109/ 2/7/ 314 (C) | 22.666 | 0.049 | -0.475 | 0.0 | 2.456>> | 0.252 |
| 109/ 2/7/ 306 (C) | 10.855 | -0.121 | 0.397 | 0.0 | -2.051<< | -0.623 |
| 109/ 2/7/ 313 (C) | 20.667 | 0.049 | -0.473 | 0.0 | 2.445 | 0.252>> |
| 109/ 2/7/ 306 (C) | 10.855 | -0.121 | 0.397 | 0.0 | -2.051 | -0.623<< |
| 110/ 4855/ 314 (C) | 29.408>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 110/ 4854/ 304 (C) | 13.786<< | 0.001 | -0.004 | 0.0 | -0.003 | -0.001 |
| 110/ 4854/ 306 (C) | 14.686 | 0.002>> | -0.007 | 0.0 | -0.005 | -0.001 |
| 110/ 4854/ 313 (C) | 24.497 | -0.001<< | 0.009 | 0.0 | 0.006 | 0.001 |
| 110/ 4854/ 314 (C) | 26.497 | -0.001 | 0.009>> | 0.0 | 0.006 | 0.001 |
| 110/ 4854/ 306 (C) | 14.686 | 0.002 | -0.007<< | 0.0 | -0.005 | -0.001 |
| 110/ 4854/ 301 (C) | 13.841 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 110/ 4854/ 301 (C) | 13.841 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 110/ 2/7/ 314 (C) | 26.982 | 0.000 | -0.003 | 0.0 | 0.007>> | 0.001 |
| 110/ 2/7/ 306 (C) | 15.171 | -0.001 | 0.003 | 0.0 | -0.006<< | -0.002 |
| 110/ 2/7/ 313 (C) | 24.982 | 0.000 | -0.003 | 0.0 | 0.007 | 0.001>> |
| 110/ 2/7/ 306 (C) | 15.171 | -0.001 | 0.003 | 0.0 | -0.006 | -0.002<< |
| 111/ 4856/ 314 (C) | 30.403>> | 0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 111/ 4855/ 304 (C) | 16.697<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 111/ 4855/ 306 (C) | 17.597 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |



ROBOT v 17.0.1
Autor :
Dirección :
© RoboBAT 1996-2003
Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 111/ 4/7/ 306 (C) | 18.095 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 111/ 4855/ 314 (C) | 29.408 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 111/ 4855/ 306 (C) | 17.597 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 111/ 4855/ 301 (C) | 16.752 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 111/ 4855/ 301 (C) | 16.752 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 111/ 2/7/ 314 (C) | 29.574 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 111/ 2/7/ 306 (C) | 17.763 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 111/ 2/7/ 313 (C) | 27.574 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 111/ 2/7/ 306 (C) | 17.763 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 112/ 4858/ 318 (C) | 22.311>> | -0.000 | 0.006 | 0.0 | 0.004 | 0.000 |
| 112/ 4857/ 306 (C) | 7.069<< | 0.455 | -2.924 | 0.0 | 0.000 | -0.000 |
| 112/ 4857/ 306 (C) | 7.069 | 0.455>> | -2.924 | 0.0 | 0.000 | -0.000 |
| 112/ 4857/ 314 (C) | 17.457 | -0.290<< | 3.502 | 0.0 | -0.000 | -0.000 |
| 112/ 4857/ 314 (C) | 17.457 | -0.290 | 3.502>> | 0.0 | -0.000 | -0.000 |
| 112/ 4857/ 306 (C) | 7.069 | 0.455 | -2.924<< | 0.0 | 0.000 | -0.000 |
| 112/ 4857/ 301 (C) | 7.483 | 0.029 | 0.187 | 0.0>> | -0.000 | 0.000 |
| 112/ 4857/ 301 (C) | 7.483 | 0.029 | 0.187 | 0.0<< | -0.000 | 0.000 |
| 112/ 2/7/ 314 (C) | 18.223 | 0.040 | -0.477 | 0.0 | 2.462>> | 0.204 |
| 112/ 2/7/ 306 (C) | 7.835 | -0.062 | 0.398 | 0.0 | -2.056<< | -0.320 |
| 112/ 2/7/ 314 (C) | 18.223 | 0.040 | -0.477 | 0.0 | 2.462 | 0.204>> |
| 112/ 2/7/ 306 (C) | 7.835 | -0.062 | 0.398 | 0.0 | -2.056 | -0.320<< |
| 113/ 4859/ 318 (C) | 25.222>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 113/ 4858/ 306 (C) | 11.665<< | 0.001 | -0.007 | 0.0 | -0.005 | -0.001 |
| 113/ 4858/ 306 (C) | 11.665 | 0.001>> | -0.007 | 0.0 | -0.005 | -0.001 |
| 113/ 4858/ 314 (C) | 22.053 | -0.001<< | 0.009 | 0.0 | 0.006 | 0.000 |
| 113/ 4858/ 314 (C) | 22.053 | -0.001 | 0.009>> | 0.0 | 0.006 | 0.000 |
| 113/ 4858/ 306 (C) | 11.665 | 0.001 | -0.007<< | 0.0 | -0.005 | -0.001 |
| 113/ 4858/ 301 (C) | 12.079 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 113/ 4858/ 301 (C) | 12.079 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 113/ 2/7/ 314 (C) | 22.539 | 0.000 | -0.003 | 0.0 | 0.007>> | 0.001 |
| 113/ 2/7/ 306 (C) | 12.150 | -0.000 | 0.003 | 0.0 | -0.006<< | -0.001 |
| 113/ 2/7/ 314 (C) | 22.539 | 0.000 | -0.003 | 0.0 | 0.007 | 0.001>> |
| 113/ 2/7/ 306 (C) | 12.150 | -0.000 | 0.003 | 0.0 | -0.006 | -0.001<< |
| 114/ 4860/ 318 (C) | 26.217>> | -0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 114/ 4859/ 306 (C) | 14.576<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 114/ 4859/ 306 (C) | 14.576 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 114/ 4859/ 314 (C) | 24.964 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 114/ 4859/ 314 (C) | 24.964 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 114/ 4859/ 306 (C) | 14.576 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 114/ 4859/ 301 (C) | 14.990 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 114/ 4859/ 301 (C) | 14.990 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 114/ 2/7/ 314 (C) | 25.130 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 114/ 2/7/ 306 (C) | 14.742 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 114/ 2/7/ 314 (C) | 25.130 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 114/ 2/7/ 306 (C) | 14.742 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 115/ 4862/ 317 (C) | 20.655>> | -0.000 | 0.006 | 0.0 | 0.004 | 0.000 |
| 115/ 4861/ 306 (C) | 6.075<< | -0.000 | -2.932 | 0.0 | 0.000 | -0.000 |
| 115/ 3/7/ 328 (C) | 16.879 | 0.035>> | 0.063 | 0.0 | -0.090 | 0.050 |
| 115/ 4861/ 328 (C) | 15.347 | -0.217<< | -0.388 | 0.0 | 0.000 | -0.000 |
| 115/ 4861/ 314 (C) | 15.434 | -0.217 | 3.520>> | 0.0 | -0.000 | -0.000 |
| 115/ 4861/ 306 (C) | 6.075 | -0.000 | -2.932<< | 0.0 | 0.000 | -0.000 |
| 115/ 4861/ 301 (C) | 6.887 | -0.000 | 0.185 | 0.0>> | -0.000 | -0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 115/ 4861/ 301 (C) | 6.887 | -0.000 | 0.185 | 0.0<< | -0.000 | -0.000 |
| 115/ 2/7/ 314 (C) | 16.200 | 0.030 | -0.479 | 0.0 | 2.475>> | 0.153 |
| 115/ 2/7/ 306 (C) | 6.841 | 0.000 | 0.399 | 0.0 | -2.061<< | 0.000 |
| 115/ 2/7/ 328 (C) | 16.113 | 0.030 | 0.053 | 0.0 | -0.273 | 0.153>> |
| 115/ 5/7/ 328 (C) | 18.411 | -0.001 | -0.003 | 0.0 | 0.011 | -0.006<< |
| 116/ 4863/ 317 (C) | 23.566>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 116/ 4862/ 306 (C) | 10.671<< | -0.000 | -0.007 | 0.0 | -0.005 | 0.000 |
| 116/ 2/7/ 328 (C) | 20.428 | 0.000>> | 0.000 | 0.0 | -0.001 | 0.000 |
| 116/ 4862/ 328 (C) | 19.943 | -0.001<< | -0.001 | 0.0 | -0.001 | 0.000 |
| 116/ 4862/ 314 (C) | 20.030 | -0.001 | 0.009>> | 0.0 | 0.006 | 0.000 |
| 116/ 4862/ 306 (C) | 10.671 | -0.000 | -0.007<< | 0.0 | -0.005 | 0.000 |
| 116/ 4862/ 301 (C) | 11.483 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 116/ 4862/ 301 (C) | 11.483 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 116/ 2/7/ 314 (C) | 20.516 | 0.000 | -0.003 | 0.0 | 0.007>> | 0.000 |
| 116/ 2/7/ 306 (C) | 11.156 | 0.000 | 0.003 | 0.0 | -0.006<< | 0.000 |
| 116/ 2/7/ 328 (C) | 20.428 | 0.000 | 0.000 | 0.0 | -0.001 | 0.000>> |
| 116/ 5/7/ 328 (C) | 21.884 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 117/ 4864/ 317 (C) | 24.562>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 306 (C) | 13.582<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 117/ 4/7/ 328 (C) | 23.352 | 0.000>> | 0.000 | 0.0 | -0.000 | 0.000 |
| 117/ 4863/ 328 (C) | 22.854 | -0.000<< | -0.000 | 0.0 | -0.000 | 0.000 |
| 117/ 4863/ 314 (C) | 22.941 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 306 (C) | 13.582 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 117/ 4863/ 301 (C) | 14.394 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 117/ 4863/ 301 (C) | 14.394 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 117/ 2/7/ 314 (C) | 23.107 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 117/ 2/7/ 306 (C) | 13.748 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 117/ 2/7/ 328 (C) | 23.020 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 117/ 2/7/ 341 (C) | 13.980 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 118/ 4866/ 317 (C) | 21.482>> | -0.001 | 0.006 | 0.0 | 0.004 | 0.000 |
| 118/ 4865/ 306 (C) | 7.069<< | -0.455 | -2.924 | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 302 (C) | 7.174 | 0.114>> | 1.388 | 0.0 | -0.000 | 0.000 |
| 118/ 4865/ 328 (C) | 15.666 | -0.645<< | -0.363 | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 313 (C) | 16.628 | -0.120 | 3.547>> | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 306 (C) | 7.069 | -0.455 | -2.924<< | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 301 (C) | 7.483 | -0.029 | 0.187 | 0.0>> | -0.000 | -0.000 |
| 118/ 4865/ 301 (C) | 7.483 | -0.029 | 0.187 | 0.0<< | -0.000 | -0.000 |
| 118/ 2/7/ 313 (C) | 17.394 | 0.016 | -0.483 | 0.0 | 2.494>> | 0.085 |
| 118/ 2/7/ 306 (C) | 7.835 | 0.062 | 0.398 | 0.0 | -2.056<< | 0.320 |
| 118/ 2/7/ 328 (C) | 16.432 | 0.088 | 0.049 | 0.0 | -0.256 | 0.453>> |
| 118/ 2/7/ 302 (C) | 7.940 | -0.016 | -0.189 | 0.0 | 0.976 | -0.080<< |
| 119/ 4867/ 317 (C) | 24.393>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 119/ 4866/ 306 (C) | 11.665<< | -0.001 | -0.007 | 0.0 | -0.005 | 0.001 |
| 119/ 2/7/ 328 (C) | 20.747 | 0.001>> | 0.000 | 0.0 | -0.001 | 0.001 |
| 119/ 4866/ 328 (C) | 20.262 | -0.002<< | -0.001 | 0.0 | -0.001 | 0.001 |
| 119/ 4866/ 313 (C) | 21.224 | -0.000 | 0.009>> | 0.0 | 0.006 | 0.000 |
| 119/ 4866/ 306 (C) | 11.665 | -0.001 | -0.007<< | 0.0 | -0.005 | 0.001 |
| 119/ 4866/ 301 (C) | 12.079 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 119/ 4866/ 301 (C) | 12.079 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 119/ 2/7/ 313 (C) | 21.710 | 0.000 | -0.003 | 0.0 | 0.007>> | 0.000 |
| 119/ 2/7/ 306 (C) | 12.150 | 0.000 | 0.003 | 0.0 | -0.006<< | 0.001 |
| 119/ 2/7/ 328 (C) | 20.747 | 0.001 | 0.000 | 0.0 | -0.001 | 0.001>> |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 119/ 2/7/ 302 (C) | 12.255 | -0.000 | -0.001 | 0.0 | 0.003 | -0.000<< |
| 120/ 4868/ 317 (C) | 25.389>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 120/ 4867/ 306 (C) | 14.576<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 120/ 4/7/ 328 (C) | 23.671 | 0.000>> | 0.000 | 0.0 | -0.000 | 0.000 |
| 120/ 4867/ 328 (C) | 23.173 | -0.000<< | -0.000 | 0.0 | -0.000 | 0.000 |
| 120/ 4867/ 313 (C) | 24.135 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 120/ 4867/ 306 (C) | 14.576 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 120/ 4867/ 301 (C) | 14.990 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 120/ 4867/ 301 (C) | 14.990 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 120/ 2/7/ 313 (C) | 24.301 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 120/ 2/7/ 306 (C) | 14.742 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 120/ 2/7/ 328 (C) | 23.339 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 120/ 2/7/ 302 (C) | 14.847 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 121/ 4870/ 313 (C) | 24.468>> | -0.000 | 0.009 | 0.0 | 0.006 | 0.000 |
| 121/ 4869/ 304 (C) | 9.190<< | -0.529 | -1.663 | 0.0 | 0.000 | -0.000 |
| 121/ 4869/ 302 (C) | 10.215 | 0.215>> | 1.396 | 0.0 | -0.000 | 0.000 |
| 121/ 4869/ 328 (C) | 17.799 | -1.042<< | -0.336 | 0.0 | 0.000 | 0.000 |
| 121/ 4869/ 313 (C) | 19.871 | -0.043 | 3.581>> | 0.0 | -0.000 | 0.000 |
| 121/ 4869/ 306 (C) | 10.089 | -0.885 | -2.917<< | 0.0 | 0.000 | 0.000 |
| 121/ 4869/ 301 (C) | 9.244 | -0.055 | 0.191 | 0.0>> | -0.000 | -0.000 |
| 121/ 4869/ 301 (C) | 9.244 | -0.055 | 0.191 | 0.0<< | -0.000 | -0.000 |
| 121/ 2/7/ 313 (C) | 20.637 | 0.006 | -0.487 | 0.0 | 2.518>> | 0.030 |
| 121/ 2/7/ 306 (C) | 10.855 | 0.121 | 0.397 | 0.0 | -2.051<< | 0.623 |
| 121/ 2/7/ 328 (C) | 18.565 | 0.142 | 0.046 | 0.0 | -0.237 | 0.733>> |
| 121/ 2/7/ 302 (C) | 10.982 | -0.029 | -0.190 | 0.0 | 0.982 | -0.151<< |
| 122/ 4871/ 313 (C) | 27.379>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 122/ 4870/ 304 (C) | 13.786<< | -0.001 | -0.004 | 0.0 | -0.003 | 0.001 |
| 122/ 2/7/ 328 (C) | 22.880 | 0.001>> | 0.000 | 0.0 | -0.001 | 0.002 |
| 122/ 4870/ 328 (C) | 22.395 | -0.003<< | -0.001 | 0.0 | -0.001 | 0.002 |
| 122/ 4870/ 313 (C) | 24.468 | -0.000 | 0.009>> | 0.0 | 0.006 | 0.000 |
| 122/ 4870/ 306 (C) | 14.686 | -0.002 | -0.007<< | 0.0 | -0.005 | 0.001 |
| 122/ 4870/ 301 (C) | 13.841 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 122/ 4870/ 301 (C) | 13.841 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 122/ 2/7/ 313 (C) | 24.953 | 0.000 | -0.003 | 0.0 | 0.007>> | 0.000 |
| 122/ 2/7/ 306 (C) | 15.171 | 0.001 | 0.003 | 0.0 | -0.006<< | 0.002 |
| 122/ 2/7/ 328 (C) | 22.880 | 0.001 | 0.000 | 0.0 | -0.001 | 0.002>> |
| 122/ 2/7/ 302 (C) | 15.297 | -0.000 | -0.001 | 0.0 | 0.003 | -0.000<< |
| 123/ 4872/ 313 (C) | 28.374>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 123/ 4871/ 304 (C) | 16.697<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 123/ 4/7/ 328 (C) | 25.804 | 0.000>> | 0.000 | 0.0 | -0.000 | 0.000 |
| 123/ 4871/ 328 (C) | 25.306 | -0.000<< | -0.000 | 0.0 | -0.000 | 0.000 |
| 123/ 4871/ 313 (C) | 27.379 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 123/ 4871/ 306 (C) | 17.597 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 123/ 4871/ 301 (C) | 16.752 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 123/ 4871/ 301 (C) | 16.752 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 123/ 2/7/ 313 (C) | 27.545 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 123/ 2/7/ 306 (C) | 17.763 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 123/ 2/7/ 328 (C) | 25.472 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 123/ 2/7/ 302 (C) | 17.889 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |

**Esfuerzos Máximos y Mínimos en Pilotes para Combinación Frecuente - Casos: 301A354**

**- Casos: 301A354**

| Filtrar | Barra | Caso |
|---|---|---|
| Lista completa | 1 3A123 140A14 1A14 101A170 2 | |
| Selección | 4A123 | 301A354 |
| | | |
| Número total | 120 | 208 |
| Número seleccionado | 120 | 54 |

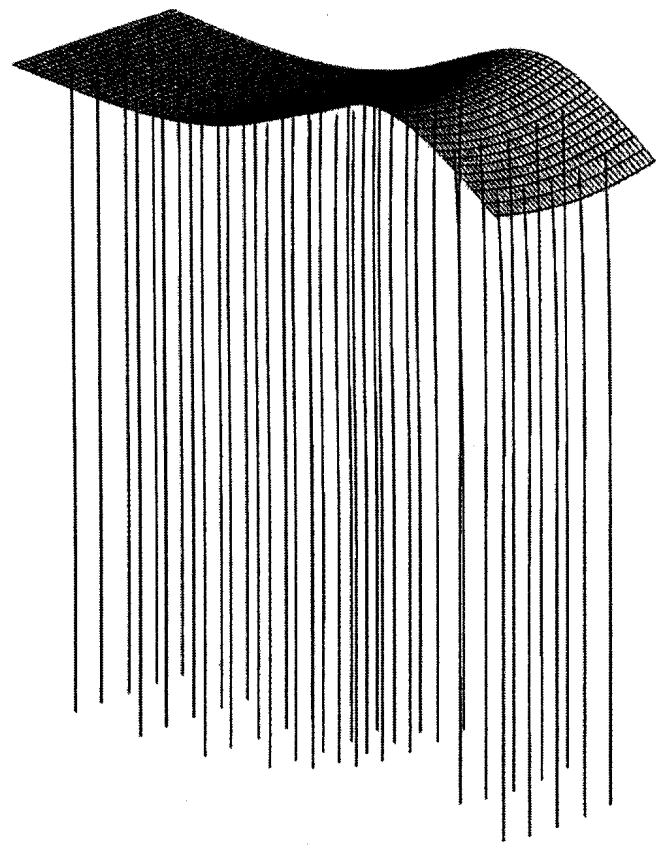
**- Casos: 301A354**

| | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| | | | | | | |
| MAX | 56.282 | 1.048 | 4.969 | 0.0 | 3.494 | 0.733 |
| Barra | 81 | 4 | 16 | 4 | 16 | 121 |
| Punto | 4816 | 4713 | 4729 | 4713 | 2/7 | 2/7 |
| Caso | 328 (C) | 328 (C) | 328 (C) | 301 (C) | 328 (C) | 328 (C) |
| | | | | | | |
| MIN | 6.075 | -1.042 | -2.932 | 0.0 | -2.061 | -0.737 |
| Barra | 115 | 121 | 115 | 4 | 115 | 4 |
| Punto | 4861 | 4869 | 4861 | 4713 | 2/7 | 2/7 |
| Caso | 306 (C) | 328 (C) | 306 (C) | 301 (C) | 306 (C) | 328 (C) |
| | | | | | | |

# 2. CÁLCULO DINÁMICO

## .2.1. ANÁLISIS MODAL

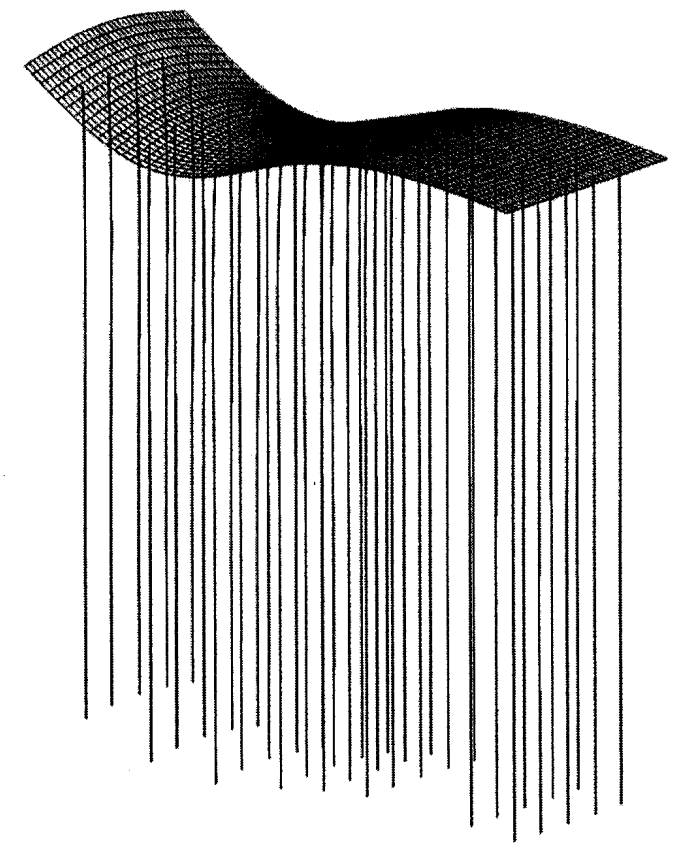
## Análisis Modal. Deformación en Modo 5








## Análisis Modal: Deformación en Modo 6



**Resultados: dinámica - Caso: 355 (Modal ) Modos activos: 1..10; CQC**

**- Caso: 355 (Modal ) Modos activos: 1..10; CQ**

| Filtrar | Caso | Modo |
|---|---|---|
| Lista completa | 1A14 101A170 2 | 1A10 |
| Selección | 355 | 1A10 CQC |
| | | |
| Número total | 209 | |
| Número seleccion | 1 | |

**- Caso: 355 (Modal ) Modos activos: 1..10; CQC**

| Caso/Modo | Valor propio | Frecuencia (Hz) | Período (sec) | Precisión | Pulsación (1/sec) |
|---|---|---|---|---|---|
| 355/ 1 | 370.68 | 3.06 | 0.33 | 0.00 | 19.25 |
| 355/ 2 | 393.08 | 3.16 | 0.32 | 0.00 | 19.83 |
| 355/ 3 | 398.45 | 3.18 | 0.31 | 0.00 | 19.96 |
| 355/ 4 | 1666.58 | 6.50 | 0.15 | 0.00 | 40.82 |
| 355/ 5 | 1882.80 | 6.91 | 0.14 | 0.00 | 43.39 |
| 355/ 6 | 2141.51 | 7.37 | 0.14 | 0.00 | 46.28 |
| 355/ 7 | 2141.76 | 7.37 | 0.14 | 0.00 | 46.28 |
| 355/ 8 | 2902.37 | 8.57 | 0.12 | 0.02 | 53.87 |
| 355/ 9 | 2902.51 | 8.57 | 0.12 | 0.01 | 53.87 |
| 355/ 10 | 2902.53 | 8.57 | 0.12 | 0.00 | 53.88 |
| 355/ CQC | No existe | No existe | No existe | No existe | No existe |

# 4. VERIFICACIÓN DE LOS ESTADOS LÍMITES DE SERVICIO

## 4.1 ESTADO LÍMITE DE FISURACIÓN

De acuerdo con la EHE (artículo 49) y el Model Code del CEB de 1990 se ha verificado el EL de Fisuración:

La normativa EHE exige que se verifique el ELS de fisuración, de modo que el máximo ancho de fisura $w_{max}$ verifique:

$$w_{max} < w_k = 0{,}3 \text{ mm}$$

Los valores representativos de las acciones se han obtenido de acuerdo con las especificaciones de las normativas vigentes, tomándose los siguientes valores de los coeficientes $\psi$:

| Acción | $\psi_o$ | $\psi_1$ | $\psi_2$ |
|---|---|---|---|
| Sobrecargas de uso | 0.8 | 0.8 (a) 0.6 (b) 0.4 (c) | 0 |
| Viento | 0.6 | 0.5 | 0.0 |
| Temperatura | 0.6 | 0.5 | 0.5 |

(a) Una vía cargada (b) dos vías cargadas (c) 0.4 tres o más vías cargadas

## CÁLCULO DE FISURACIÓN

**Proyecto: Losa Pilotada en Cornellà. Módulo 10**
**Referencia: Flexión Longitudinal en zona entre pilotes. ELS FREC610**

**DATOS INICIALES**
**FUSTE**

| | | | |
|---|---|---|---|
| Ancho | b | cm | 100.00 |
| Canto | h | cm | 60.00 |
| Arm. Tracción | As1 | cm2 | 53.36 |
| Canto útil | d | cm | 55.00 |
| Arm. Compresión | As2 | cm2 | 20.94 |
| Dist. d' | d' | cm | 5.00 |
| Módulo hormigón | Ec | p/cm | 272,640 |
| Módulo acero | Es | p/cm | 2,000,000 |

**DATOS PARA EL CÁLCULO DEL MOMENTO DE FISURACIÓN**

| | | | |
|---|---|---|---|
| Resistencia caract. Horm. | fck | kp/cm2 | 300 |
| Resistencia media a tracción | fctm | kp/cm2 | -28.96 |
| Resistencia caract. Acero | fyk | kp/cm2 | 5100 |
| Dist. De As2 a la fib. Sup. | d2 | cm | 5.00 |
| Area hormigón | Ac | cm2 | 6000 |
| Area sec. Homog. | Ah | cm2 | 6545.04 |
| C.d.g. De la sec. Homog. | Xg | cm2 | 30.91 |
| Inercia sec. Homog. | Ih | cm4 | 2135249.67 |

**CÁLCULO DE PARÁMETROS ADIMENSIONALES**

| | | |
|---|---|---|
| Coef. homog. | n | 7.34 |
| Cuantía mecánica 1 | ρ1 | 0.0097 |
| Cuantía mecánica 2 | ρ2 | 0.0038 |

**CÁLCULO DEL MOMENTO DE FISURACIÓN**

| | | | |
|---|---|---|---|
| Momento de fisuración | Mfis | mT | 21.259 |

**CARACTERÍSTICAS DE LA SECCIÓN FISURADA**

| | | | |
|---|---|---|---|
| Prof. fibra neutra | x | cm | 4.77 |
| Inercia fisurada | If | cm4 | 1,050,214 |

**DATOS PARA EL CÁLCULO DE LA ABERTURA DE FISURA**

| | | | |
|---|---|---|---|
| Momento solicitante | Mk | mT | 38.20 |
| Diámetro | ϕ | mm | 32 |
| Separación | s | cm | 15 |
| Parámetro k2 | k2 | | 0.5 |
| Parámetro β | β | | 1.7 |
| Coeficiente k1 | k1 | | 0.125 |

**CÁLCULO DE LA ABERTURA DE FISURA**

| | | | |
|---|---|---|---|
| Tensión de fisuración | Tsr | kp/cm2 | 746 |
| Tensión de servicio | Ts | kp/cm2 | 1,340 |
| Area eficaz | Ac,ef | cm2 | 1500 |
| Alargamiento medio armaduras | εsm | | 0.0006 |
| Separación media de fisuras | Sm | mm | 142.98 |
| Abertura característica | Wk | mm | 0.14 |

## CÁLCULO DE FISURACIÓN

**Proyecto: Losa Pilotada en Cornellà. Módulo 10**
**Referencia: Flexión Longitudinal en sección sobre pilotes. ELS FREC40**

**DATOS INICIALES**
**FUSTE**

| | | | |
|---|---|---|---|
| Ancho | b | cm | 100.00 |
| Canto | h | cm | 50.00 |
| Arm. Tracción | As1 | cm2 | 20.90 |
| Canto útil | d | cm | 45.00 |
| Arm. Compresión | As2 | cm2 | 0.00 |
| Dist. d' | d' | cm | 5.00 |
| Módulo hormigón | Ec | p/cm | 272,640 |
| Módulo acero | Es | p/cm | 2,000,000 |

**DATOS PARA EL CÁLCULO DEL MOMENTO DE FISURACIÓN**

| | | | |
|---|---|---|---|
| Resistencia caract. Horm. | fck | kp/cm2 | 300 |
| Resistencia media a tracción | fctm | kp/cm2 | -28.96 |
| Resistencia caract. Acero | fyk | kp/cm2 | 5100 |
| Dist. De As2 a la fib. Sup. | d2 | cm | 5.00 |
| Area hormigón | Ac | cm2 | 5000 |
| Area sec. Homog. | Ah | cm2 | 5153.32 |
| C.d.g. De la sec. Homog. | Xg | cm2 | 25.60 |
| Inercia sec. Homog. | Ih | cm4 | 1101168.45 |

**CÁLCULO DE PARÁMETROS ADIMENSIONALES**

| | | |
|---|---|---|
| Coef. homog. | n | 7.34 |
| Cuantía mecánica 1 | ρ1 | 0.0046 |
| Cuantía mecánica 2 | ρ2 | 0.0000 |

**CÁLCULO DEL MOMENTO DE FISURACIÓN**

| | | | |
|---|---|---|---|
| Momento de fisuración | Mfis | mT | 13.069 |

**CARACTERÍSTICAS DE LA SECCIÓN FISURADA**

| | | | |
|---|---|---|---|
| Prof. fibra neutra | x | cm | 10.31 |
| Inercia fisurada | If | cm4 | 221,030 |

**DATOS PARA EL CÁLCULO DE LA ABERTURA DE FISURA**

| | | | |
|---|---|---|---|
| Momento solicitante | Mk | mT | 20.80 |
| Diámetro | ϕ | mm | 20 |
| Separación | s | cm | 15 |
| Parámetro k2 | k2 | | 0.5 |
| Parámetro β | β | | 1.7 |
| Coeficiente k1 | k1 | | 0.125 |

**CÁLCULO DE LA ABERTURA DE FISURA**

| | | | |
|---|---|---|---|
| Tensión de fisuración | Tsr | kp/cm2 | 1,505 |
| Tensión de servicio | Ts | kp/cm2 | 2,395 |
| Area eficaz | Ac,ef | cm2 | 1250 |
| Alargamiento medio armaduras | εsm | | 0.0010 |
| Separación media de fisuras | Sm | mm | 169.81 |
| **Abertura característica** | **Wk** | **mm** | **0.28** |

## CÁLCULO DE FISURACIÓN

**Proyecto: Losa Pilotada en Cornellà. Módulo 10**
**Referencia: Flexión Transversal en zona entre pilotes. ELS FREC610**

**DATOS INICIALES**
**FUSTE**

| | | | |
|---|---|---|---|
| Ancho | b | cm | 100.00 |
| Canto | h | cm | 60.00 |
| Arm. Tracción | As1 | cm2 | 13.40 |
| Canto útil | d | cm | 55.00 |
| Arm. Compresión | As2 | cm2 | 13.40 |
| Dist. d' | d' | cm | 5.00 |
| Módulo hormigón | Ec | t/cm2 | 272,640 |
| Módulo acero | Es | t/cm2 | 2,000,000 |

**DATOS PARA EL CÁLCULO DEL MOMENTO DE FISURACIÓN**

| | | | |
|---|---|---|---|
| Resistencia caract. Horm. | fck | kp/cm2 | 300 |
| Resistencia media a tracción | fctm | kp/cm2 | -28.96 |
| Resistencia caract. Acero | fyk | kp/cm2 | 5100 |
| Dist. De As2 a la fib. Sup. | d2 | cm | 5.00 |
| Area hormigón | Ac | cm2 | 6000 |
| Area sec. Homog. | Ah | cm2 | 6196.60 |
| C.d.g. De la sec. Homog. | Xg | cm2 | 30.00 |
| Inercia sec. Homog. | Ih | cm4 | 1922872.65 |

**CÁLCULO DE PARÁMETROS ADIMENSIONALES**

| | | |
|---|---|---|
| Coef. homog. | n | 7.34 |
| Cuantía mecánica 1 | ρ1 | 0.0024 |
| Cuantía mecánica 2 | ρ2 | 0.0024 |

**CÁLCULO DEL MOMENTO DE FISURACIÓN**

| | | | |
|---|---|---|---|
| Momento de fisuración | Mfis | mT | 18.565 |

**CARACTERÍSTICAS DE LA SECCIÓN FISURADA**

| | | | |
|---|---|---|---|
| Prof. fibra neutra | x | cm | 2.66 |
| Inercia fisurada | If | cm4 | 279,335 |

**DATOS PARA EL CÁLCULO DE LA ABERTURA DE FISURA**

| | | | |
|---|---|---|---|
| Momento solicitante | Mk | mT | 2.90 |
| Diámetro | ϕ | mm | 16 |
| Separación | s | cm | 15 |
| Parámetro k2 | k2 | | 0.5 |
| Parámetro β | β | | 1.7 |
| Coeficiente k1 | k1 | | 0.125 |

**CÁLCULO DE LA ABERTURA DE FISURA**

| | | | |
|---|---|---|---|
| Tensión de fisuración | Tsr | kp/cm2 | 2,552 |
| Tensión de servicio | Ts | kp/cm2 | 399 |
| Area eficaz | Ac,ef | cm2 | 1500 |
| Alargamiento medio armaduras | εsm | | 0.0001 |
| Separación media de fisuras | Sm | mm | 203.55 |
| **Abertura característica** | **Wk** | **mm** | **0.00** |

## CÁLCULO DE FISURACIÓN

**Proyecto: Losa Pilotada en Cornellà. Módulo 10**
**Referencia: Flexión Transversal en sección sobre pilotes. ELS FREC20**

**DATOS INICIALES**
**FUSTE**

| | | | |
|---|---|---|---|
| Ancho | b | cm | 100.00 |
| Canto | h | cm | 50.00 |
| Arm. Tracción | As1 | cm2 | 20.90 |
| Canto útil | d | cm | 45.00 |
| Arm. Compresión | As2 | cm2 | 0.00 |
| Dist. d' | d' | cm | 5.00 |
| Módulo hormigón | Ec | kp/cm2 | 272,640 |
| Módulo acero | Es | kp/cm2 | 2,000,000 |

**DATOS PARA EL CÁLCULO DEL MOMENTO DE FISURACIÓN**

| | | | |
|---|---|---|---|
| Resistencia caract. Horm. | fck | kp/cm2 | 300 |
| Resistencia media a tracción | fctm | kp/cm2 | -28.96 |
| Resistencia caract. Acero | fyk | kp/cm2 | 5100 |
| Dist. De As2 a la fib. Sup. | d2 | cm | 5.00 |
| Area hormigón | Ac | cm2 | 5000 |
| Area sec. Homog. | Ah | cm2 | 5153.32 |
| C.d.g. De la sec. Homog. | Xg | cm2 | 25.60 |
| Inercia sec. Homog. | Ih | cm4 | 1101168.45 |

**CÁLCULO DE PARÁMETROS ADIMENSIONALES**

| | | |
|---|---|---|
| Coef. homog. | n | 7.34 |
| Cuantía mecánica 1 | ρ1 | 0.0046 |
| Cuantía mecánica 2 | ρ2 | 0.0000 |

**CÁLCULO DEL MOMENTO DE FISURACIÓN**

| | | | |
|---|---|---|---|
| Momento de fisuración | Mfis | mT | 13.069 |

**CARACTERÍSTICAS DE LA SECCIÓN FISURADA**

| | | | |
|---|---|---|---|
| Prof. fibra neutra | x | cm | 10.31 |
| Inercia fisurada | If | cm4 | 221,030 |

**DATOS PARA EL CÁLCULO DE LA ABERTURA DE FISURA**

| | | | |
|---|---|---|---|
| Momento solicitante | Mk | mT | 17.10 |
| Diámetro | ϕ | mm | 20 |
| Separación | s | cm | 15 |
| Parámetro k2 | k2 | | 0.5 |
| Parámetro β | β | | 1.7 |
| Coeficiente k1 | k1 | | 0.125 |

**CÁLCULO DE LA ABERTURA DE FISURA**

| | | | |
|---|---|---|---|
| Tensión de fisuración | Tsr | kp/cm2 | 1,505 |
| Tensión de servicio | Ts | kp/cm2 | 1,969 |
| Area eficaz | Ac,ef | cm2 | 1250 |
| Alargamiento medio armaduras | εsm | | 0.0007 |
| Separación media de fisuras | Sm | mm | 169.81 |
| **Abertura característica** | **Wk** | **mm** | **0.20** |

## 4.2. ESTADO LÍMITE DE DEFORMACIONES

En el presente Apartado se realizan las comprobaciones de los ELS de deformaciones en el Viaducto. Estas son las recogidas en el Anejo 2 del Eurocódigo 0, que remite para algunas de ellas relacionadas con comprobaciones en el carril a la ficha 774-1 de la UIC.

Las comprobaciones realizadas se refieren a:

-Flecha máxima vertical en el tablero.

-Máximo alabeo en el tablero.

**Flecha máxima**

En el presente apartado se calcula el valor de la flecha máxima, comprobándose que la relación flecha/luz se encuentra por debajo del valor 1/1500 para un tren tipo LM-71 definido en el EC-1.

En las hojas siguientes se muestra la deformada para la posición del tren LM-71 más desfavorable.

De acuerdo con el EC-1 (apartado 4.2.1.2, condiciones de comodidad para los usuarios), la aceleración vertical bv se puede estimar como muy buena (bv< $1 m/s^2$).

Los valores límite de deformación para un nivel de comodidad muy bueno (bv< $1 m/s^2$) el tren LM-71 en el eje de vía se pueden obtener a partir del gráfico 4.3. En el caso de puentes contínuos con 3 o más vanos, los valores L/δ se pueden multiplicar por un coeficiente igual a 0,90. Se puede comprobar que el valor de la relación Luz/flecha límite para una velocidad de 350 km/h y una luz de 10,10 m (distancia máxima entre pilotes) es:

$$L/\delta = 0{,}9 \cdot 1500 = 1350$$

La flecha máxima obtenida para el caso de carga de 2 trenes IPF-B es igual a 0,907-0,086 = 0,821 cm. Si se divide por 2 (la verificación ha de efectuarse para un solo tren) se obtiene δ = 0,41 cm y por tanto se comprueba que L/δ=1500.

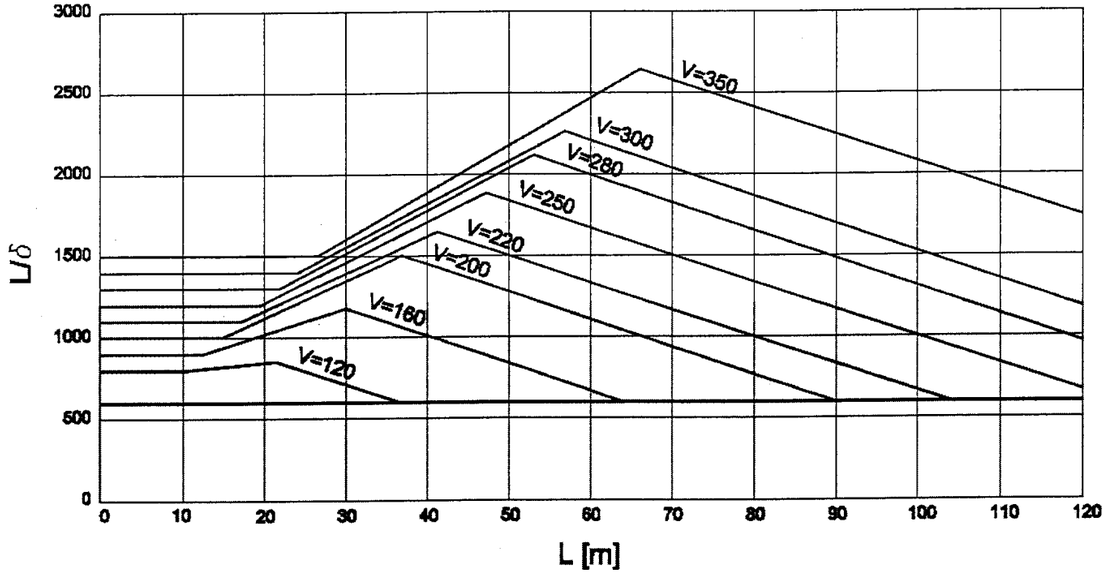



Figura 4.3: *Valores límite para la deformación vertical máxima δ por condiciones de comodidad de los viajeros, en función de la velocidad máxima de proyecto V y la luz del vano L. Estructura de n tramos sucesivos, simplemente apoyados, con* $n \geq 3; b_v = 1{,}0\, m/s^2$.

**Desplazamiento angular en apoyos**

El valor del giro en apoyos se calcula bajo las acciones térmicas y los valores característicos del tren de cargas, multiplicado por el coeficiente dinámico.

En este caso se comprueba que el giro máximo en estribo es inferior $1{,}4 \cdot 10^{-3}$ radianes, valor muy inferior al límite de $3{,}5 \cdot 10^{-3}$ rad exigido por el EC-1 (véase apartado 3.1).

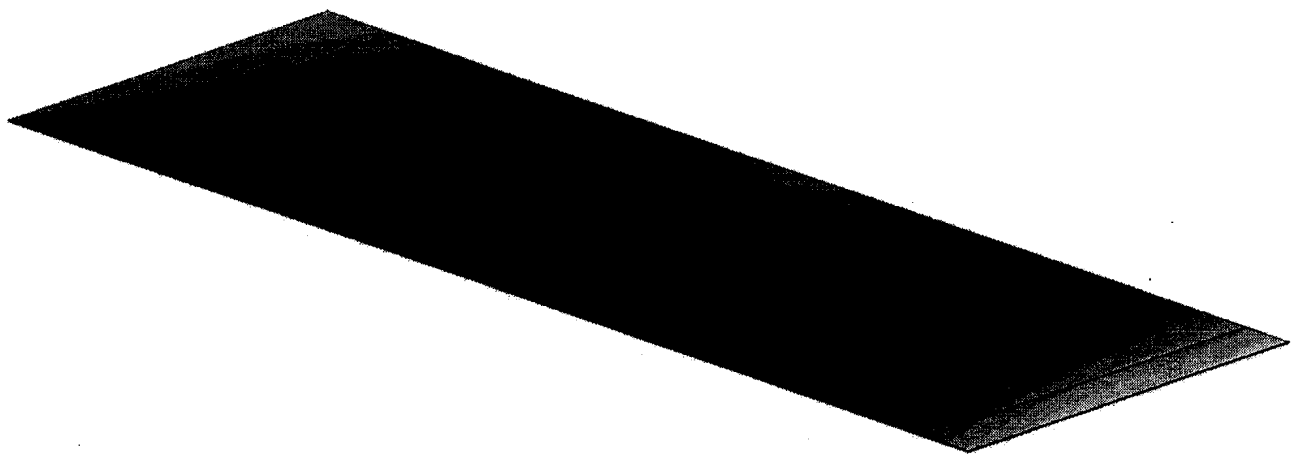
**Máximo alabeo debido a los trenes LM-71**

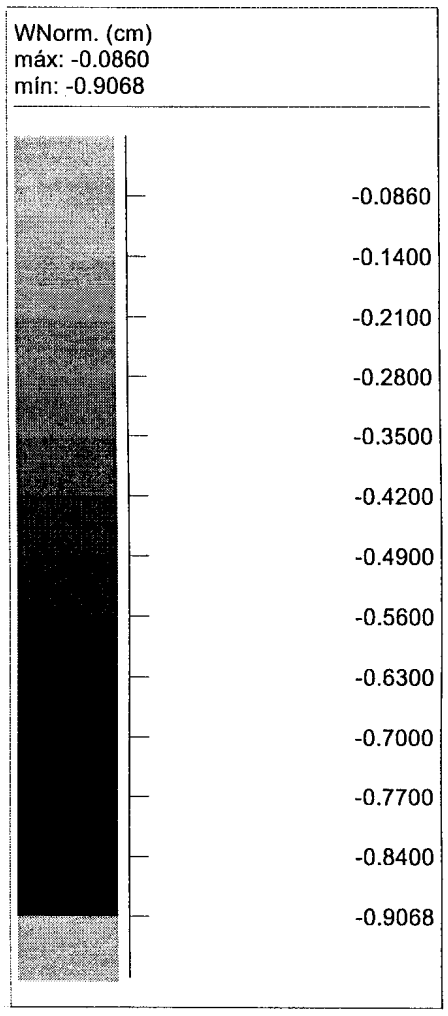
Esta comprobación se realiza para los movimientos verticales obtenidos bajo los carriles debidos a la combinación de trenes LM-71 y SW-2. Los valores obtenidos y la verificación realizada se resumen a continuación.

Hay que señalar que el máximo alabeo admisible se ha calculado según la tabla A2.7 de Anejo 2 del Eurocódigo 0 para velocidad de proyecto mayor que 200 km/h.

A continuación se presentan los resultados del modelo de cálculo de las deformaciones utilizadas para la comprobación a alabeo.

## Mapas para paneles - WNorm. (cm) casos: 8 (IPF-B EXCÉNTRICO)

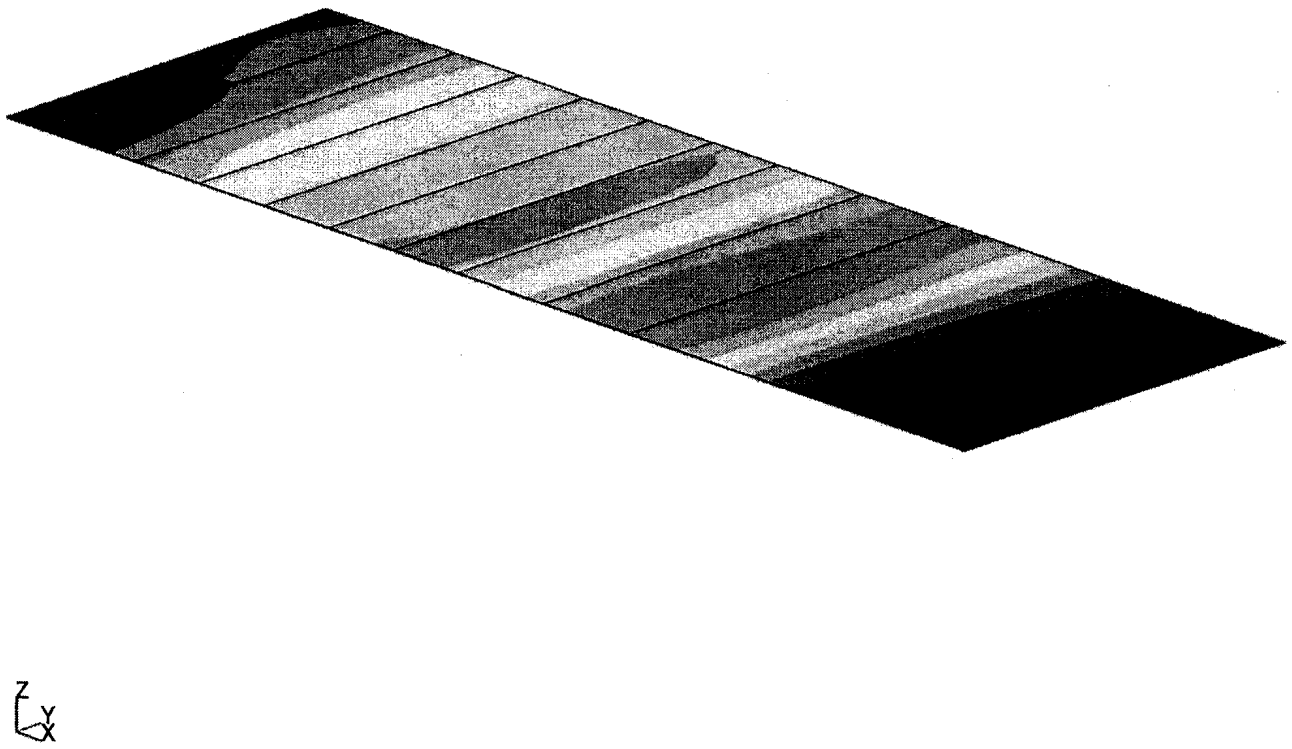


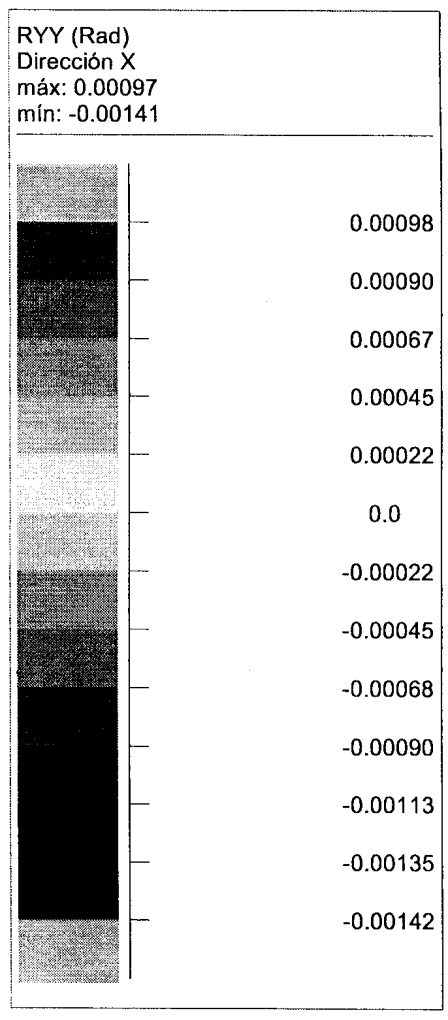





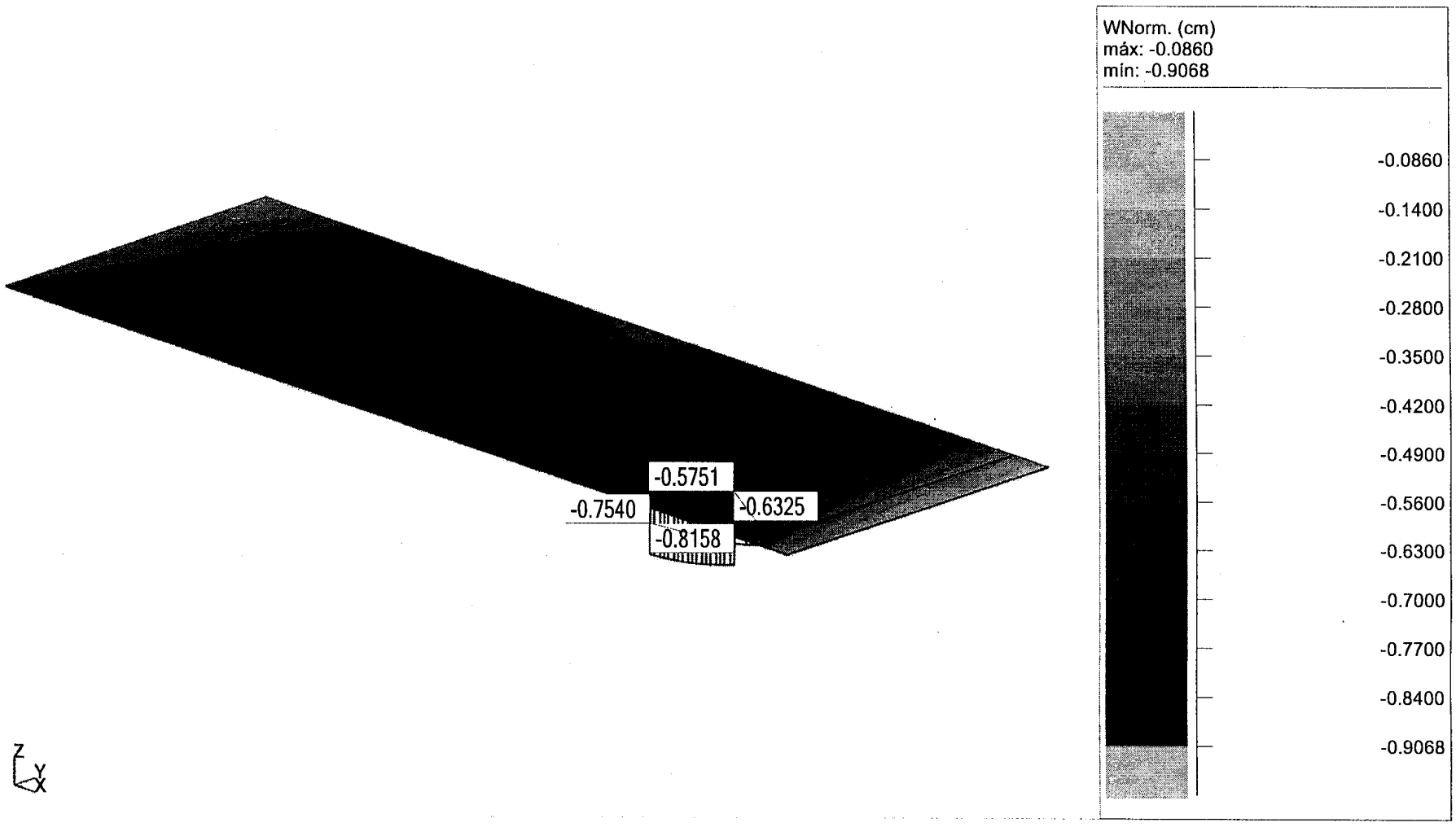



## Mapas para paneles - RYY (Rad) Dirección X casos: 8 (IPF-B EXCÉNTRICO)



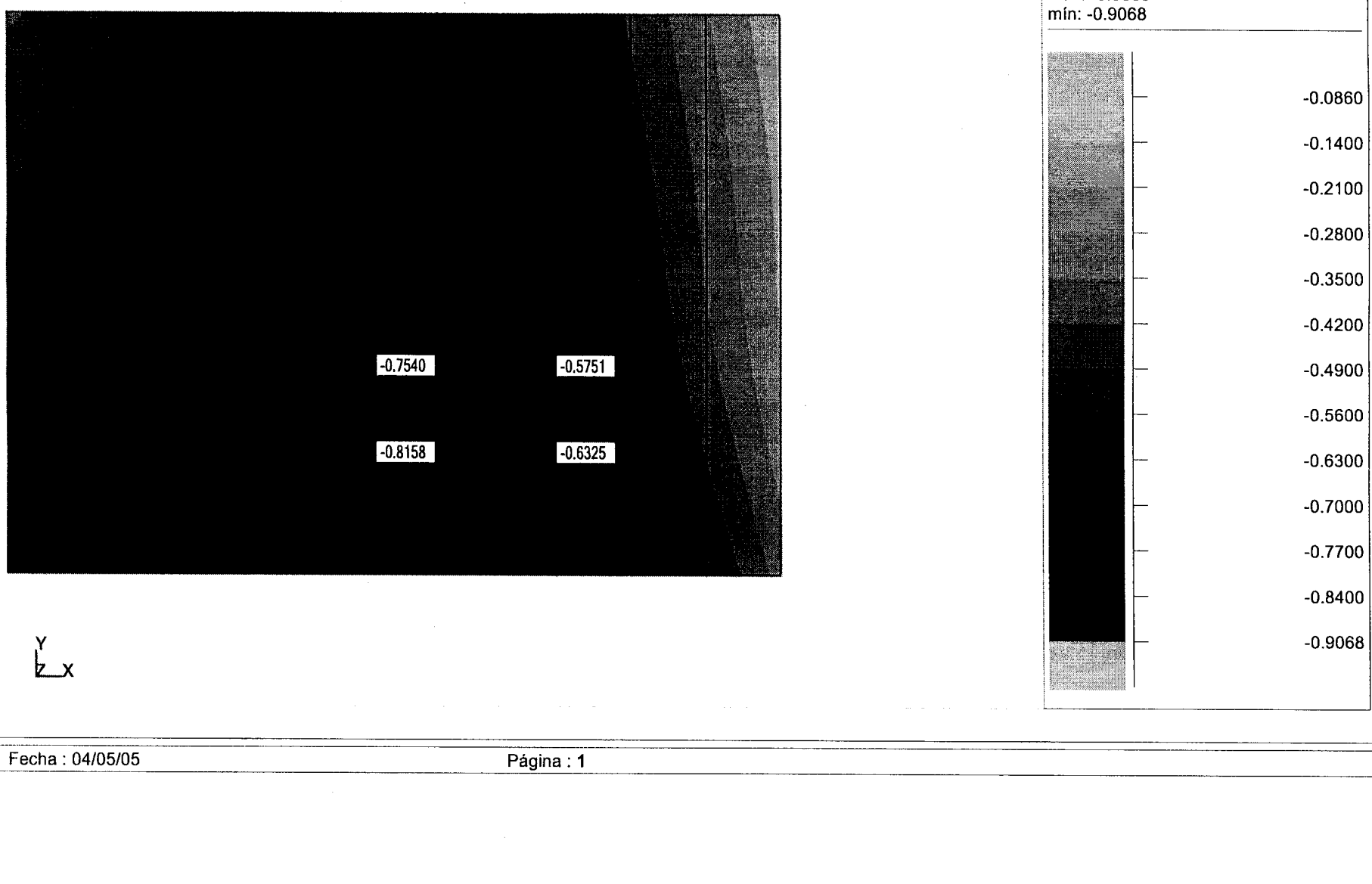
## Mapas para paneles - WNorm. (cm) A - A3 A - A4 casos: 8 (IPF-B EXCÉNTRICO)





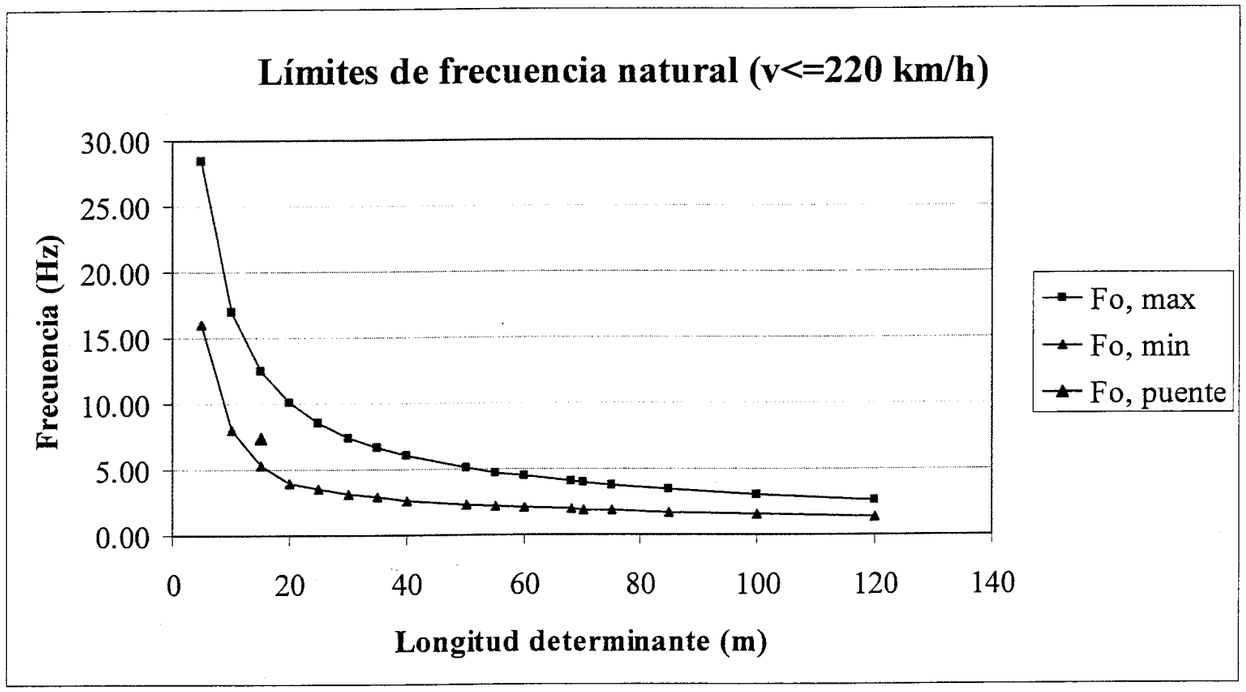



## Mapas para paneles - WNorm. (cm) A - A3 A - A4 casos: 8 (IPF-B EXCÉNTRICO). VISTA DE DETALLE EN PLANTA



## 4.3. ESTADO LÍMITE DE VIBRACIONES

En este apartado se comprueba que la primera frecuencia de vibración (7,37 Hz) en el modo de flexión (ver apartado 3.2) se encuentra dentro del rango de valores admitidos por el EC-1 (de 5,33 a 12,15 Hz para una luz o longitud determinante de 15 m).



# 5. VERIFICACIÓN DEL E.L.U DE ROTURA POR TENSIONES NORMALES

## 5.1. DIMENSIONAMIENTO DE LA ARMADURA POR FLEXIÓN

En este apartado se calculan las armaduras necesarias por flexión tanto longitudinal como transversal de acuerdo con los criterios de la Normativa española vigente (EHE).

**Proyecto: Losa Pilotada en Cornellà. Módulo 10**
**Referencia: Flexión longitudinal en centro de luz**

**CALCULO DE ARMADURA LONGITUDINAL EN ELU 610**

| | |
|---|---|
| M(Kpxcm) | 7,753,300 |
| N(Kp)(COMPRESION POSITIVA) | -6,453 |
| B(cm) | 100 |
| D(cm) | 55 |
| Fcd(kp/cm2) | 200.0 |
| H(cm) | 60 |
| Fyd(kp/cm2) | 4347.83 |

| | |
|---|---|
| **POSICION FIBRA NEUTRA(cm)** | **8.83** |
| **ARMADURA NECESARIA(cm2)** | **36.00** |

**Proyecto: Losa Pilotada en Cornellà. Módulo 10**
**Referencia: Flexión longitudinal sobre pilotes**

**CALCULO DE ARMADURA LONGITUDINAL EN ELU 40**

| | |
|---|---|
| M(Kpxcm) | 3,962,100 |
| N(Kp)(COMPRESION POSITIVA) | -2,617 |
| B(cm) | 100 |
| D(cm) | 45 |
| Fcd(kp/cm2) | 200.0 |
| H(cm) | 50 |
| Fyd(kp/cm2) | 4347.83 |

| | |
|---|---|
| **POSICION FIBRA NEUTRA(cm)** | **5.44** |
| **ARMADURA NECESARIA(cm2)** | **21.87** |

**Proyecto: Losa Pilotada en Cornellà. Módulo 10**
**Referencia: Flexión transversal en zona entre pilotes**

**CALCULO DE ARMADURA TRANSVERSAL EN ELU 610**

| | |
|---|---|
| M(Kpxcm) | 892,000 |
| N(Kp)(COMPRESION POSITIVA) | -1,536 |
| B(cm) | 100 |
| D(cm) | 55 |
| Fcd(kp/cm2) | 200.0 |
| H(cm) | 60 |
| Fyd(kp/cm2) | 4347.83 |

| | |
|---|---|
| **POSICION FIBRA NEUTRA(cm)** | **0.92** |
| **ARMADURA NECESARIA(cm2)** | **3.95** |

**Proyecto: Losa Pilotada en Cornellà. Módulo 10**
**Referencia: Flexión transversal en sección sobre pilotes**

**CALCULO DE ARMADURA TRANSVERSAL EN ELU 20**

| | |
|---|---|
| M(Kpxcm) | 3,130,300 |
| N(Kp)(COMPRESION POSITIVA) | 0 |
| B(cm) | 100 |
| D(cm) | 45 |
| Fcd(kp/cm2) | 200.0 |
| H(cm) | 50 |
| Fyd(kp/cm2) | 4347.83 |

| | |
|---|---|
| **POSICION FIBRA NEUTRA(cm)** | **4.30** |
| **ARMADURA NECESARIA(cm2)** | **16.80** |

## 5.2. VERIFICACIÓN DEL ELU DE ROTURA POR TENSIONES NORMALES

Una vez calculada la armadura necesaria en este apartado se comprueba el Estado Límite Último de rotura por flexión longitudinal de acuerdo con los criterios de la Normativa española vigente (EHE)

Los cálculos realizados han sido los siguientes:

Cálculo del momento último respuesta para cada una de las secciones críticas del tablero. El momento último respuesta se ha calculado considerando las distintas capas de armado y la posible tensión previa de las mismas. El cálculo se realiza con un programa de cálculo automático que permite obtener el momento último respuesta y los diagramas momento curvatura considerando las curvas tensión-deformación no lineales de los materiales (acero y hormigón).

Los momentos últimos de respuesta de cada sección se han calculado para un momento positivo ($\mathbf{M_{u,pos}}$) y para un momento negativo ($\mathbf{M_{u,neg}}$). De un modo análogo se calculan los momentos de descompresión y de fisuración de la sección (momentos totales sobre la sección).

Las unidades de trabajo para los momentos son (mT).

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PROGRAMA DE CALCULO DE LA RESPUESTA A FLEXION
DE SECCIONES DE HORMIGON ARMADO O PRETENSADO

---

Referencia de la seccion:

SECCION PILOTES. FLEXION TRANSVERSAL NEGATIVA

---

CARACTERISTICAS DE LA SECCION

| | | | |
|---|---|---|---|
| AREA | (m2) | = | 0.56500 |
| INERCIA | (m4) | = | 0.01565 |
| CANTO | (m) | = | 0.600 |
| V_SUP | (m) | = | 0.315 |
| V_INF | (m) | = | 0.285 |
| fc | (T/m2) | = | 3000.000 |

MOMENTO RESPUESTA FRENTE A FISURACION-DESCOMPRESION

| | | | | | |
|---|---|---|---|---|---|
| Mcrac,pos | (mT) | = | 12.86 | Curvatura (m-1)= | 0.000237 |
| Mcrac,neg | (mT) | = | -11.41 | Curvatura (m-1)= | -0.000210 |
| Mdescomp,pos | (mT) | = | 0.00 | Mdescomp,neg (mT)= | 0.00 |
| Mdescomp,EC_2 | (mT) | = | 0.00 | | |

CARACTERISTICAS DE LOS ACEROS

| TIPO | COTA (m) | AREA (cm2) | PRESOL. | TENS_FINAL |
|---|---|---|---|---|
| 1 | 0.05 | 8.04 | 0.00 | -2425.47 |
| 1 | 0.53 | 21.98 | 0.00 | 4434.78 |

RESPUESTA ULTIMA A FLEXION

| | | | |
|---|---|---|---|
| AXIL CONCOMITANTE | (T) | = | 0.01 |
| MOMENTO ULTIMO | (mT) | = | 47.72 |
| PROF. FIBRA NEUTRA | (m) | = | 0.10 |
| CURVATURA ULTIMA | (m-1) | = | 0.023240 |
| DEFORM. HORMIGON | | = | 0.002317 |
| DEF. ACERO INF. | | = | 0.010000 |
| TENS.ACERO INF. | (Kp/cm2) | = | 4434.78 |

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PROGRAMA DE CALCULO DE LA RESPUESTA A FLEXION
DE SECCIONES DE HORMIGON ARMADO O PRETENSADO

---

Referencia de la seccion:

SECCION PILOTES. FLEXION TRANSVERSAL NEGATIVA

---

DIAGRAMA MOMENTO - CURVATURA

| C m-1 | M mT | Eps_csup | Eps_sinf | X m | S_a-inf Kp/cm2 | S_h-sup |
|---|---|---|---|---|---|---|
| 0.000211 | 8.13 | 0.00008 | 0.00003 | 0.365 | 73.26 | 12.85 |
| 0.000423 | 5.93 | 0.00011 | 0.00012 | 0.255 | 244.13 | 17.81 |
| 0.000634 | 6.11 | 0.00013 | 0.00020 | 0.208 | 427.93 | 21.72 |
| 0.001268 | 10.33 | 0.00022 | 0.00045 | 0.174 | 947.22 | 35.46 |
| 0.002746 | 21.83 | 0.00046 | 0.00100 | 0.167 | 2091.86 | 69.14 |
| 0.004225 | 33.21 | 0.00071 | 0.00153 | 0.168 | 3211.17 | 99.31 |
| 0.005704 | 44.32 | 0.00097 | 0.00205 | 0.170 | 4312.26 | 124.89 |
| 0.007183 | 46.01 | 0.00112 | 0.00268 | 0.156 | 4434.78 | 137.29 |
| 0.008662 | 46.40 | 0.00125 | 0.00334 | 0.145 | 4434.78 | 146.27 |
| 0.010141 | 46.70 | 0.00138 | 0.00400 | 0.136 | 4434.78 | 153.44 |
| 0.011620 | 46.94 | 0.00149 | 0.00466 | 0.129 | 4434.78 | 159.15 |
| 0.013099 | 47.13 | 0.00161 | 0.00533 | 0.123 | 4434.78 | 163.45 |
| 0.014578 | 47.30 | 0.00172 | 0.00601 | 0.118 | 4434.78 | 166.69 |
| 0.016056 | 47.39 | 0.00182 | 0.00669 | 0.114 | 4434.78 | 168.67 |
| 0.017535 | 47.49 | 0.00193 | 0.00737 | 0.110 | 4434.78 | 169.78 |
| 0.019014 | 47.57 | 0.00203 | 0.00805 | 0.107 | 4434.78 | 169.96 |
| 0.020493 | 47.63 | 0.00213 | 0.00873 | 0.104 | 4434.78 | 169.27 |
| 0.021972 | 47.67 | 0.00223 | 0.00942 | 0.101 | 4434.78 | 167.80 |

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PROGRAMA DE CALCULO DE LA RESPUESTA A FLEXION
DE SECCIONES DE HORMIGON ARMADO O PRETENSADO

---

Referencia de la seccion:

SECCION PILOTES. FLEXION LONGITUDINAL NEGATIVA

---

CARACTERISTICAS DE LA SECCION

| | | | |
|---|---|---|---|
| AREA | (m2) | = | 0.56500 |
| INERCIA | (m4) | = | 0.01565 |
| CANTO | (m) | = | 0.600 |
| V_SUP | (m) | = | 0.315 |
| V_INF | (m) | = | 0.285 |
| fc | (T/m2) | = | 3000.000 |

MOMENTO RESPUESTA FRENTE A FISURACION-DESCOMPRESION

| | | | | | |
|---|---|---|---|---|---|
| Mcrac,pos | (mT) | = | 12.90 | Curvatura (m-1)= | 0.000230 |
| Mcrac,neg | (mT) | = | -11.64 | Curvatura (m-1)= | -0.000207 |
| Mdescomp,pos | (mT) | = | -0.28 | Mdescomp,neg (mT)= | 0.25 |
| Mdescomp,EC_2 | (mT) | = | 0.00 | | |

CARACTERISTICAS DE LOS ACEROS

| TIPO | COTA (m) | AREA (cm2) | PRESOL. | TENS_FINAL |
|---|---|---|---|---|
| 1 | 0.05 | 19.60 | 0.00 | -1681.68 |
| 1 | 0.55 | 21.98 | 0.00 | 4434.78 |

RESPUESTA ULTIMA A FLEXION

| | | | |
|---|---|---|---|
| AXIL CONCOMITANTE | (T) | = | 2.60 |
| MOMENTO ULTIMO | (mT) | = | 49.15 |
| PROF. FIBRA NEUTRA | (m) | = | 0.09 |
| CURVATURA ULTIMA | (m-1) | = | 0.021602 |
| DEFORM. HORMIGON | | = | 0.001881 |
| DEF. ACERO INF. | | = | 0.010000 |
| TENS.ACERO INF. | (Kp/cm2) | = | 4434.78 |

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PROGRAMA DE CALCULO DE LA RESPUESTA A FLEXION
DE SECCIONES DE HORMIGON ARMADO O PRETENSADO

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Referencia de la seccion:

SECCION PILOTES. FLEXION LONGITUDINAL NEGATIVA

---

DIAGRAMA MOMENTO - CURVATURA

| C m-1 | M mT | Eps_csup | Eps_sinf | X m | S_a-inf Kp/cm2 | S_h-sup |
|---|---|---|---|---|---|---|
| 0.000196 | 8.21 | 0.00007 | 0.00004 | 0.351 | 82.14 | 11.51 |
| 0.000393 | 5.85 | 0.00009 | 0.00012 | 0.242 | 254.40 | 15.75 |
| 0.000589 | 5.98 | 0.00011 | 0.00021 | 0.195 | 439.66 | 18.93 |
| 0.001178 | 10.40 | 0.00019 | 0.00046 | 0.163 | 958.72 | 31.00 |
| 0.002553 | 22.48 | 0.00040 | 0.00100 | 0.157 | 2108.04 | 61.24 |
| 0.003928 | 34.53 | 0.00062 | 0.00154 | 0.158 | 3232.20 | 89.18 |
| 0.005302 | 46.40 | 0.00085 | 0.00207 | 0.160 | 4343.05 | 113.61 |
| 0.006677 | 47.80 | 0.00097 | 0.00270 | 0.145 | 4434.78 | 125.01 |
| 0.008052 | 48.13 | 0.00108 | 0.00335 | 0.134 | 4434.78 | 133.67 |
| 0.009426 | 48.38 | 0.00117 | 0.00401 | 0.124 | 4434.78 | 140.91 |
| 0.010801 | 48.57 | 0.00127 | 0.00467 | 0.117 | 4434.78 | 147.10 |
| 0.012175 | 48.72 | 0.00135 | 0.00534 | 0.111 | 4434.78 | 152.23 |
| 0.013550 | 48.82 | 0.00144 | 0.00602 | 0.106 | 4434.78 | 156.45 |
| 0.014925 | 48.93 | 0.00152 | 0.00669 | 0.102 | 4434.78 | 160.11 |
| 0.016299 | 48.96 | 0.00159 | 0.00737 | 0.098 | 4434.78 | 162.87 |
| 0.017674 | 49.03 | 0.00167 | 0.00805 | 0.094 | 4434.78 | 165.33 |
| 0.019049 | 49.08 | 0.00174 | 0.00873 | 0.092 | 4434.78 | 167.20 |
| 0.020423 | 49.12 | 0.00182 | 0.00942 | 0.089 | 4434.78 | 168.59 |

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DE SECCIONES DE HORMIGON ARMADO O PRETENSADO

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Referencia de la seccion:

SECCION CENTRO DE VANO. FLEXION LONGITUDINAL POSITIVA

---

CARACTERISTICAS DE LA SECCION

---

| | | | |
|---|---|---|---|
| AREA | (m2) | = | 0.60000 |
| INERCIA | (m4) | = | 0.01800 |
| CANTO | (m) | = | 0.600 |
| V_SUP | (m) | = | 0.300 |
| V_INF | (m) | = | 0.300 |
| fc | (T/m2) | = | 3000.000 |

MOMENTO RESPUESTA FRENTE A FISURACION-DESCOMPRESION

---

| | | | | | |
|---|---|---|---|---|---|
| Mcrac,pos | (mT) | = | 14.54 | Curvatura (m-1)= | 0.000217 |
| Mcrac,neg | (mT) | = | -13.94 | Curvatura (m-1)= | -0.000208 |
| Mdescomp,pos | (mT) | = | -0.69 | Mdescomp,neg (mT)= | 0.66 |
| Mdescomp,EC_2 | (mT) | = | 0.00 | | |

CARACTERISTICAS DE LOS ACEROS

---

| TIPO | COTA (m) | AREA (cm2) | PRESOL. | TENS_FINAL |
|---|---|---|---|---|
| 1 | 0.05 | 20.94 | 0.00 | -3520.30 |
| 1 | 0.54 | 53.36 | 0.00 | 4434.78 |

RESPUESTA ULTIMA A FLEXION

---

| | | | |
|---|---|---|---|
| AXIL CONCOMITANTE | (T) | = | 6.00 |
| MOMENTO ULTIMO | (mT) | = | 114.73 |
| PROF. FIBRA NEUTRA | (m) | = | 0.12 |
| CURVATURA ULTIMA | (m-1) | = | 0.023829 |
| DEFORM. HORMIGON | | = | 0.002868 |
| DEF. ACERO INF. | | = | 0.010000 |
| TENS.ACERO INF. | (Kp/cm2) | = | 4434.78 |

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DE SECCIONES DE HORMIGON ARMADO O PRETENSADO

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Referencia de la seccion:

SECCION CENTRO DE VANO. FLEXION LONGITUDINAL POSITIVA

---

DIAGRAMA MOMENTO - CURVATURA

---

| C m-1 | M mT | Eps_csup | Eps_sinf | X m | S_a-inf Kp/cm2 | S_h-sup |
|---|---|---|---|---|---|---|
| 0.000217 | 10.96 | 0.00007 | 0.00004 | 0.338 | 92.06 | 12.21 |
| 0.000433 | 9.04 | 0.00010 | 0.00013 | 0.230 | 281.88 | 16.53 |
| 0.000650 | 11.95 | 0.00013 | 0.00022 | 0.206 | 455.84 | 22.00 |
| 0.001300 | 23.25 | 0.00025 | 0.00045 | 0.196 | 940.17 | 40.46 |
| 0.002816 | 50.12 | 0.00056 | 0.00096 | 0.198 | 2019.84 | 81.74 |
| 0.004333 | 76.17 | 0.00088 | 0.00146 | 0.203 | 3065.63 | 116.67 |
| 0.005849 | 101.13 | 0.00122 | 0.00194 | 0.208 | 4075.79 | 143.98 |
| 0.007365 | 110.73 | 0.00145 | 0.00253 | 0.197 | 4434.78 | 157.09 |
| 0.008882 | 111.73 | 0.00160 | 0.00319 | 0.181 | 4434.78 | 163.34 |
| 0.010398 | 112.42 | 0.00175 | 0.00387 | 0.168 | 4434.78 | 167.32 |
| 0.011915 | 112.97 | 0.00189 | 0.00455 | 0.159 | 4434.78 | 169.47 |
| 0.013431 | 113.38 | 0.00202 | 0.00523 | 0.151 | 4434.78 | 169.98 |
| 0.014947 | 113.68 | 0.00215 | 0.00592 | 0.144 | 4434.78 | 168.99 |
| 0.016464 | 113.94 | 0.00228 | 0.00661 | 0.139 | 4434.78 | 166.62 |
| 0.017980 | 114.17 | 0.00241 | 0.00730 | 0.134 | 4434.78 | 162.90 |
| 0.019497 | 114.33 | 0.00253 | 0.00800 | 0.130 | 4434.78 | 158.09 |
| 0.021013 | 114.50 | 0.00265 | 0.00869 | 0.126 | 4434.78 | 151.89 |
| 0.022529 | 114.63 | 0.00277 | 0.00940 | 0.123 | 4434.78 | 144.81 |

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Referencia de la seccion:

SECCION CENTRO DE VANO. FLEXION TRANSVERSAL POSITIVA Y NEGATIVA

CARACTERISTICAS DE LA SECCION

| | | | |
|---|---|---|---|
| AREA | (m2) | = | 0.60000 |
| INERCIA | (m4) | = | 0.01800 |
| CANTO | (m) | = | 0.600 |
| V_SUP | (m) | = | 0.300 |
| V_INF | (m) | = | 0.300 |
| fc | (T/m2) | = | 3000.000 |

MOMENTO RESPUESTA FRENTE A FISURACION-DESCOMPRESION

| | | | | | |
|---|---|---|---|---|---|
| Mcrac,pos | (mT) | = | 13.86 | Curvatura (m-1)= | 0.000223 |
| Mcrac,neg | (mT) | = | -13.86 | Curvatura (m-1)= | -0.000223 |
| Mdescomp,pos | (mT) | = | 0.00 | Mdescomp,neg (mT)= | 0.00 |
| Mdescomp,EC_2 | (mT) | = | 0.00 | | |

CARACTERISTICAS DE LOS ACEROS

| TIPO | COTA (m) | AREA (cm2) | PRESOL. | TENS_FINAL |
|---|---|---|---|---|
| 1 | 0.05 | 13.40 | 0.00 | -520.42 |
| 1 | 0.55 | 13.40 | 0.00 | 4434.78 |

RESPUESTA ULTIMA A FLEXION

| | | | |
|---|---|---|---|
| AXIL CONCOMITANTE | (T) | = | 0.01 |
| MOMENTO ULTIMO | (mT) | = | 31.19 |
| PROF. FIBRA NEUTRA | (m) | = | 0.06 |
| CURVATURA ULTIMA | (m-1) | = | 0.020496 |
| DEFORM. HORMIGON | | = | 0.001273 |
| DEF. ACERO INF. | | = | 0.010000 |
| TENS.ACERO INF. | (Kp/cm2) | = | 4434.78 |

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DE SECCIONES DE HORMIGON ARMADO O PRETENSADO

Referencia de la seccion:

SECCION CENTRO DE VANO. FLEXION TRANSVERSAL POSITIVA Y NEGATIVA

DIAGRAMA MOMENTO - CURVATURA

| C m-1 | M mT | Eps_csup | Eps_sinf | X m | S_a-inf Kp/cm2 | S_h-sup |
|---|---|---|---|---|---|---|
| 0.000186 | 8.35 | 0.00006 | 0.00004 | 0.348 | 79.05 | 10.84 |
| 0.000373 | 5.74 | 0.00009 | 0.00012 | 0.234 | 247.34 | 14.50 |
| 0.000559 | 4.87 | 0.00010 | 0.00021 | 0.175 | 439.77 | 16.25 |
| 0.001118 | 7.29 | 0.00015 | 0.00047 | 0.131 | 984.30 | 23.94 |
| 0.002422 | 15.20 | 0.00029 | 0.00105 | 0.118 | 2198.91 | 45.01 |
| 0.003726 | 23.24 | 0.00043 | 0.00162 | 0.117 | 3392.24 | 65.80 |
| 0.005031 | 30.34 | 0.00058 | 0.00219 | 0.115 | 4434.78 | 84.36 |
| 0.006335 | 30.50 | 0.00065 | 0.00283 | 0.103 | 4434.78 | 92.76 |
| 0.007639 | 30.63 | 0.00072 | 0.00348 | 0.094 | 4434.78 | 100.30 |
| 0.008944 | 30.73 | 0.00078 | 0.00414 | 0.087 | 4434.78 | 106.98 |
| 0.010248 | 30.82 | 0.00084 | 0.00479 | 0.082 | 4434.78 | 113.11 |
| 0.011552 | 30.88 | 0.00090 | 0.00545 | 0.078 | 4434.78 | 118.80 |
| 0.012856 | 30.95 | 0.00096 | 0.00611 | 0.075 | 4434.78 | 123.96 |
| 0.014161 | 30.99 | 0.00101 | 0.00677 | 0.072 | 4434.78 | 128.64 |
| 0.015465 | 31.04 | 0.00107 | 0.00744 | 0.069 | 4434.78 | 132.95 |
| 0.016769 | 31.08 | 0.00112 | 0.00810 | 0.067 | 4434.78 | 137.12 |
| 0.018073 | 31.13 | 0.00117 | 0.00877 | 0.065 | 4434.78 | 140.97 |
| 0.019378 | 31.16 | 0.00123 | 0.00943 | 0.063 | 4434.78 | 144.51 |

## 6. VERIFICACIÓN DEL E.L.U DE ROTURA POR TENSIONES TANGENCIALES

### 6.1. EVALUACIÓN DEL E.L.U. DE CORTANTE

En este apartado se comprueba el Estado Límite Último de rotura por cortante de acuerdo con los criterios de la Normativa española vigente (EHE, artículo 44)

Los cálculos realizados han sido los siguientes:

- Cálculo de la envolvente de esfuerzos cortantes para las distintas acciones consideradas en el proyecto del tablero. Los esfuerzos de cálculo se han combinado de acuerdo con los criterios del apartado 2 de este Anejo.

  La envolvente de esfuerzos flectores positivos se muestra en los listados adjuntos con la notación $\mathbf{V_{rd}}$ , conjuntamente con el esfuerzo flector y torsor concomitantes.

  Donde

  $$\mathbf{V_{rd} = V_d + V_{pd} + V_{cd}}$$

  donde,

  $V_{rd}$ = Valor del esfuerzo cortante efectivo calculado como:
  $V_d$ = Valor de cálculo del esfuerzo cortante producido por las acciones exteriores
  $V_{pd}$ = Valor de cálculo del esfuerzo cortante producido por el pretensado.
  $V_{cd}$ = Valor de cálculo del la componente paralela a la sección de las tensiones normales en piezas de sección variable

- Comprobación del agotamiento por compresión oblicua en el alma.

  $$\mathbf{V_{rd} \leq V_{u1}}$$

  $V_{u1}$ = Esfuerzo cortante de agotamiento por compresión oblicua del alma.

- Comprobación del agotamiento por tracción en el alma.

  $$\mathbf{V_{rd} \leq V_{u2}}$$

  $V_{u2}$ = Esfuerzo cortante de agotamiento por tracción en el alma.

## CÁLCULO DE LA ARMADURA DE CORTANTE

**Proyecto: Losa Pilotada en Cornellà. Módulo 10**
**Referencia: Cortante Longitudinal en sección pilotes. ELU 38**

| | |
|---|---|
| D(mm) | 450 |
| fck(N/mm2) | 30 |
| Sigma_s(N/mm2) | 400 |
| Bo(mm) | 1000 |
| As(cm2) | 20.94 |
| Vrd(Tn) | 57.30 |
| N(Tn) | 7.6 |

| Limitación de tensión en armadura de cortante (art. 40.2 EHE) |
|---|
| |
| *N<0 para compresión. |

**VERIFICACIÓN DE LA NECESIDAD DE ARMADURA DE CORTANTE**

| | |
|---|---|
| PSI | 1.667 |
| Roele | 0.0047 |
| Sigmaprima (N/mm2) | 0.17 |
| Vu2 (N) | 205306.0 |

**Necesita armadura de cortante**

**OBTENCIÓN DE LA ARMADURA DE CORTANTE NECESARIA**

| | |
|---|---|
| Theta | |
| Vu2 | 164795.94 |
| Vsu,p | 162000.00 |

**As,c = 25.2 cm2/m**

**VERIFICACIÓN DE LA COMPRESIÓN OBLICUA DEL ALMA**

| | |
|---|---|
| Ac (cm2) | 5000 |
| Sigmacd (N/mm2) | 0.152 |
| K | 1 |
| f1cd (N/mm2) | 12 |
| Vu1 (N) | 2700000 |

**Verificada la resistencia del alma a la compresión**

**CÁLCULO DE LA ARMADURA MÍNIMA DE CORTANTE**

| | | | |
|---|---|---|---|
| α (en grados) = | 90 | As, c mín. (cm2/m) = | 10.00 |

## 6.2 EVALUACIÓN DEL E.L. DE PUNZONAMIENTO

En este apartado se comprueba el Estado Límite Último de punzonamiento producido por la introducción de la reacción del pilote en la losa. Si se considera que el pilote es pretensado y que se colocará con una penetración de 10 cm en la losa para poder desarrollar resistencia suficiente frente a sus esfuerzos solicitantes, el espesor de la losa que debe resistir la introducción de la reacción del pilote se reduce a 50 cm.

Por otro lado resulta que dada la separación transversal entre pilotes, el perímetro crítico de un pilote aislado intersecta con el contiguo. Por esta razón, se ha verficado el EL de punzonamiento para pilote aislado reduciendo el perímetro crítico de forma que éste no intersecte al siguiente.

Así mismo, se ha comprobado el ELU de punzonamiento para una fila de pilotes, ya que al intersectarse los perímetros críticos de los pilotes aislados, se considera posible la rotura del conjunto.

Cualquiera de las dos comprobaciones se ha hecho de acuerdo con los criterios de la Normativa española vigente (EHE artículo 46)

**AXILES EN CORONACIÓN DE FILA 1 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | FX (T) | ΣFX (T) |
|---|---|---|
| Nombre del caso | ELU01 | |
| 101 (C)/4/usuario x= 0.0 | 17.6 | |
| 101 (C)/7/usuario x= 0.0 | 15.028 | |
| 101 (C)/10/usuario x= 0.0 | 14.15 | |
| 101 (C)/13/usuario x= 0.0 | 15.028 | |
| 101 (C)/16/usuario x= 0.0 | 17.6 | |
| | | **79.406** |
| Nombre del caso | ELU02 | |
| 102 (C)/4/usuario x= 0.0 | 19.443 | |
| 102 (C)/7/usuario x= 0.0 | 13.226 | |
| 102 (C)/10/usuario x= 0.0 | 11.15 | |
| 102 (C)/13/usuario x= 0.0 | 13.226 | |
| 102 (C)/16/usuario x= 0.0 | 19.443 | |
| | | **76.488** |
| Nombre del caso | ELU03 | |
| 103 (C)/4/usuario x= 0.0 | 19.254 | |
| 103 (C)/7/usuario x= 0.0 | 13.084 | |
| 103 (C)/10/usuario x= 0.0 | 11.025 | |
| 103 (C)/13/usuario x= 0.0 | 13.084 | |
| 103 (C)/16/usuario x= 0.0 | 19.254 | |
| | | **75.701** |
| Nombre del caso | ELU04 | |
| 104 (C)/4/usuario x= 0.0 | 17.523 | |
| 104 (C)/7/usuario x= 0.0 | 14.97 | |
| 104 (C)/10/usuario x= 0.0 | 14.099 | |
| 104 (C)/13/usuario x= 0.0 | 14.97 | |
| 104 (C)/16/usuario x= 0.0 | 17.523 | |
| | | **79.085** |
| Nombre del caso | ELU05 | |
| 105 (C)/4/usuario x= 0.0 | 19.366 | |
| 105 (C)/7/usuario x= 0.0 | 13.168 | |
| 105 (C)/10/usuario x= 0.0 | 11.099 | |
| 105 (C)/13/usuario x= 0.0 | 13.168 | |
| 105 (C)/16/usuario x= 0.0 | 19.366 | |
| | | **76.167** |
| Nombre del caso | ELU06 | |
| 106 (C)/4/usuario x= 0.0 | 19.177 | |
| 106 (C)/7/usuario x= 0.0 | 13.026 | |
| 106 (C)/10/usuario x= 0.0 | 10.974 | |
| 106 (C)/13/usuario x= 0.0 | 13.026 | |
| 106 (C)/16/usuario x= 0.0 | 19.177 | |
| | | **75.38** |
| Nombre del caso | ELU11 | |
| 107 (C)/4/usuario x= 0.0 | 45.73 | |
| 107 (C)/7/usuario x= 0.0 | 39.054 | |
| 107 (C)/10/usuario x= 0.0 | 36.641 | |
| 107 (C)/13/usuario x= 0.0 | 39.054 | |
| 107 (C)/16/usuario x= 0.0 | 45.73 | |
| | | **206.209** |
| Nombre del caso | ELU12 | |
| 108 (C)/4/usuario x= 0.0 | 50.593 | |
| 108 (C)/7/usuario x= 0.0 | 41.113 | |
| 108 (C)/10/usuario x= 0.0 | 36.561 | |
| 108 (C)/13/usuario x= 0.0 | 36.873 | |
| 108 (C)/16/usuario x= 0.0 | 41.005 | |
| | | **206.145** |
| Nombre del caso | ELU13 | |
| 109 (C)/4/usuario x= 0.0 | 45.542 | |
| 109 (C)/7/usuario x= 0.0 | 38.912 | |
| 109 (C)/10/usuario x= 0.0 | 36.515 | |
| 109 (C)/13/usuario x= 0.0 | 38.912 | |
| 109 (C)/16/usuario x= 0.0 | 45.542 | |
| | | **205.423** |
| Nombre del caso | ELU14 | |
| 110 (C)/4/usuario x= 0.0 | 50.404 | |
| 110 (C)/7/usuario x= 0.0 | 40.97 | |
| 110 (C)/10/usuario x= 0.0 | 36.436 | |
| 110 (C)/13/usuario x= 0.0 | 36.73 | |
| 110 (C)/16/usuario x= 0.0 | 40.816 | |
| | | **205.356** |
| Nombre del caso | ELU15 | |
| 111 (C)/4/usuario x= 0.0 | 51.565 | |
| 111 (C)/7/usuario x= 0.0 | 46.232 | |
| 111 (C)/10/usuario x= 0.0 | 44.214 | |
| 111 (C)/13/usuario x= 0.0 | 46.232 | |
| 111 (C)/16/usuario x= 0.0 | 51.565 | |
| | | **239.808** |

**AXILES EN CORONACIÓN DE FILA 1 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | FX (T) | ΣFX (T) |
|---|---|---|
| Nombre del caso | ELU16 | |
| 112 (C)/4/usuario x= 0.0 | 57.642 | |
| 112 (C)/7/usuario x= 0.0 | 48.805 | |
| 112 (C)/10/usuario x= 0.0 | 44.114 | |
| 112 (C)/13/usuario x= 0.0 | 43.505 | |
| 112 (C)/16/usuario x= 0.0 | 45.658 | |
| | | **239.724** |
| Nombre del caso | ELU17 | |
| 113 (C)/4/usuario x= 0.0 | 51.451 | |
| 113 (C)/7/usuario x= 0.0 | 46.147 | |
| 113 (C)/10/usuario x= 0.0 | 44.138 | |
| 113 (C)/13/usuario x= 0.0 | 46.147 | |
| 113 (C)/16/usuario x= 0.0 | 51.451 | |
| | | **239.334** |
| Nombre del caso | ELU18 | |
| 114 (C)/4/usuario x= 0.0 | 57.529 | |
| 114 (C)/7/usuario x= 0.0 | 48.72 | |
| 114 (C)/10/usuario x= 0.0 | 44.039 | |
| 114 (C)/13/usuario x= 0.0 | 43.419 | |
| 114 (C)/16/usuario x= 0.0 | 45.544 | |
| | | **239.251** |
| Nombre del caso | ELU19 | |
| 115 (C)/4/usuario x= 0.0 | 50.459 | |
| 115 (C)/7/usuario x= 0.0 | 47.313 | |
| 115 (C)/10/usuario x= 0.0 | 46.014 | |
| 115 (C)/13/usuario x= 0.0 | 47.313 | |
| 115 (C)/16/usuario x= 0.0 | 50.459 | |
| | | **241.558** |
| Nombre del caso | ELU20 | |
| 116 (C)/4/usuario x= 0.0 | 56.536 | |
| 116 (C)/7/usuario x= 0.0 | 49.887 | |
| 116 (C)/10/usuario x= 0.0 | 45.915 | |
| 116 (C)/13/usuario x= 0.0 | 44.586 | |
| 116 (C)/16/usuario x= 0.0 | 44.551 | |
| | | **241.475** |
| Nombre del caso | ELU21 | |
| 117 (C)/4/usuario x= 0.0 | 45.553 | |
| 117 (C)/7/usuario x= 0.0 | 38.88 | |
| 117 (C)/10/usuario x= 0.0 | 36.476 | |
| 117 (C)/13/usuario x= 0.0 | 38.91 | |
| 117 (C)/16/usuario x= 0.0 | 45.62 | |
| | | **205.439** |
| Nombre del caso | ELU22 | |
| 118 (C)/4/usuario x= 0.0 | 50.415 | |
| 118 (C)/7/usuario x= 0.0 | 40.939 | |
| 118 (C)/10/usuario x= 0.0 | 36.396 | |
| 118 (C)/13/usuario x= 0.0 | 36.728 | |
| 118 (C)/16/usuario x= 0.0 | 40.894 | |
| | | **205.372** |
| Nombre del caso | ELU23 | |
| 119 (C)/4/usuario x= 0.0 | 45.364 | |
| 119 (C)/7/usuario x= 0.0 | 38.738 | |
| 119 (C)/10/usuario x= 0.0 | 36.35 | |
| 119 (C)/13/usuario x= 0.0 | 38.767 | |
| 119 (C)/16/usuario x= 0.0 | 45.431 | |
| | | **204.65** |
| Nombre del caso | ELU24 | |
| 120 (C)/4/usuario x= 0.0 | 50.226 | |
| 120 (C)/7/usuario x= 0.0 | 40.796 | |
| 120 (C)/10/usuario x= 0.0 | 36.271 | |
| 120 (C)/13/usuario x= 0.0 | 36.586 | |
| 120 (C)/16/usuario x= 0.0 | 40.705 | |
| | | **204.584** |
| Nombre del caso | ELU25 | |
| 121 (C)/4/usuario x= 0.0 | 51.343 | |
| 121 (C)/7/usuario x= 0.0 | 46.015 | |
| 121 (C)/10/usuario x= 0.0 | 44.007 | |
| 121 (C)/13/usuario x= 0.0 | 46.052 | |
| 121 (C)/16/usuario x= 0.0 | 51.426 | |
| | | **238.843** |
| Nombre del caso | ELU26 | |
| 122 (C)/4/usuario x= 0.0 | 57.42 | |
| 122 (C)/7/usuario x= 0.0 | 48.588 | |
| 122 (C)/10/usuario x= 0.0 | 43.908 | |
| 122 (C)/13/usuario x= 0.0 | 43.325 | |
| 122 (C)/16/usuario x= 0.0 | 45.519 | |
| | | **238.76** |

**AXILES EN CORONACIÓN DE FILA 1 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | FX (T) | ΣFX (T) |
|---|---|---|
| Nombre del caso | ELU27 | |
| 123 (C)/4/usuario x= 0.0 | 51.229 | |
| 123 (C)/7/usuario x= 0.0 | 45.929 | |
| 123 (C)/10/usuario x= 0.0 | 43.932 | |
| 123 (C)/13/usuario x= 0.0 | 45.966 | |
| 123 (C)/16/usuario x= 0.0 | 51.313 | |
| | | **238.369** |
| Nombre del caso | ELU28 | |
| 124 (C)/4/usuario x= 0.0 | 57.307 | |
| 124 (C)/7/usuario x= 0.0 | 48.502 | |
| 124 (C)/10/usuario x= 0.0 | 43.833 | |
| 124 (C)/13/usuario x= 0.0 | 43.239 | |
| 124 (C)/16/usuario x= 0.0 | 45.406 | |
| | | **238.287** |
| Nombre del caso | ELU29 | |
| 125 (C)/4/usuario x= 0.0 | 50.237 | |
| 125 (C)/7/usuario x= 0.0 | 47.096 | |
| 125 (C)/10/usuario x= 0.0 | 45.807 | |
| 125 (C)/13/usuario x= 0.0 | 47.133 | |
| 125 (C)/16/usuario x= 0.0 | 50.32 | |
| | | **240.593** |
| Nombre del caso | ELU30 | |
| 126 (C)/4/usuario x= 0.0 | 56.314 | |
| 126 (C)/7/usuario x= 0.0 | 49.669 | |
| 126 (C)/10/usuario x= 0.0 | 45.708 | |
| 126 (C)/13/usuario x= 0.0 | 44.406 | |
| 126 (C)/16/usuario x= 0.0 | 44.413 | |
| | | **240.51** |
| Nombre del caso | ELU31 | |
| 127 (C)/4/usuario x= 0.0 | 45.654 | |
| 127 (C)/7/usuario x= 0.0 | 38.996 | |
| 127 (C)/10/usuario x= 0.0 | 36.59 | |
| 127 (C)/13/usuario x= 0.0 | 38.996 | |
| 127 (C)/16/usuario x= 0.0 | 45.654 | |
| | | **205.89** |
| Nombre del caso | ELU32 | |
| 128 (C)/4/usuario x= 0.0 | 50.516 | |
| 128 (C)/7/usuario x= 0.0 | 41.055 | |
| 128 (C)/10/usuario x= 0.0 | 36.51 | |
| 128 (C)/13/usuario x= 0.0 | 36.814 | |
| 128 (C)/16/usuario x= 0.0 | 40.928 | |
| | | **205.823** |
| Nombre del caso | ELU33 | |
| 129 (C)/4/usuario x= 0.0 | 45.465 | |
| 129 (C)/7/usuario x= 0.0 | 38.854 | |
| 129 (C)/10/usuario x= 0.0 | 36.464 | |
| 129 (C)/13/usuario x= 0.0 | 38.854 | |
| 129 (C)/16/usuario x= 0.0 | 45.465 | |
| | | **205.102** |
| Nombre del caso | ELU34 | |
| 130 (C)/4/usuario x= 0.0 | 50.327 | |
| 130 (C)/7/usuario x= 0.0 | 40.912 | |
| 130 (C)/10/usuario x= 0.0 | 36.385 | |
| 130 (C)/13/usuario x= 0.0 | 36.672 | |
| 130 (C)/16/usuario x= 0.0 | 40.739 | |
| | | **205.035** |
| Nombre del caso | ELU35 | |
| 131 (C)/4/usuario x= 0.0 | 51.488 | |
| 131 (C)/7/usuario x= 0.0 | 46.174 | |
| 131 (C)/10/usuario x= 0.0 | 44.162 | |
| 131 (C)/13/usuario x= 0.0 | 46.174 | |
| 131 (C)/16/usuario x= 0.0 | 51.488 | |
| | | **239.486** |
| Nombre del caso | ELU36 | |
| 132 (C)/4/usuario x= 0.0 | 57.566 | |
| 132 (C)/7/usuario x= 0.0 | 48.747 | |
| 132 (C)/10/usuario x= 0.0 | 44.063 | |
| 132 (C)/13/usuario x= 0.0 | 43.447 | |
| 132 (C)/16/usuario x= 0.0 | 45.581 | |
| | | **239.404** |
| Nombre del caso | ELU37 | |
| 133 (C)/4/usuario x= 0.0 | 51.374 | |
| 133 (C)/7/usuario x= 0.0 | 46.088 | |
| 133 (C)/10/usuario x= 0.0 | 44.087 | |
| 133 (C)/13/usuario x= 0.0 | 46.088 | |
| 133 (C)/16/usuario x= 0.0 | 51.374 | |
| | | **239.011** |

**AXILES EN CORONACIÓN DE FILA 1 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | FX (T) | ΣFX (T) |
|---|---|---|
| Nombre del caso | ELU38 | |
| 134 (C)/4/usuario x= 0.0 | 57.452 | |
| 134 (C)/7/usuario x= 0.0 | 48.662 | |
| 134 (C)/10/usuario x= 0.0 | 43.988 | |
| 134 (C)/13/usuario x= 0.0 | 43.361 | |
| 134 (C)/16/usuario x= 0.0 | 45.467 | |
| | | **238.93** |
| Nombre del caso | ELU39 | |
| 135 (C)/4/usuario x= 0.0 | 50.382 | |
| 135 (C)/7/usuario x= 0.0 | 47.255 | |
| 135 (C)/10/usuario x= 0.0 | 45.963 | |
| 135 (C)/13/usuario x= 0.0 | 47.255 | |
| 135 (C)/16/usuario x= 0.0 | 50.382 | |
| | | **241.237** |
| Nombre del caso | ELU40 | |
| 136 (C)/4/usuario x= 0.0 | 56.459 | |
| 136 (C)/7/usuario x= 0.0 | 49.829 | |
| 136 (C)/10/usuario x= 0.0 | 45.864 | |
| 136 (C)/13/usuario x= 0.0 | 44.528 | |
| 136 (C)/16/usuario x= 0.0 | 44.474 | |
| | | **241.154** |
| Nombre del caso | ELU41 | |
| 137 (C)/4/usuario x= 0.0 | 45.476 | |
| 137 (C)/7/usuario x= 0.0 | 38.822 | |
| 137 (C)/10/usuario x= 0.0 | 36.425 | |
| 137 (C)/13/usuario x= 0.0 | 38.852 | |
| 137 (C)/16/usuario x= 0.0 | 45.543 | |
| | | **205.118** |
| Nombre del caso | ELU42 | |
| 138 (C)/4/usuario x= 0.0 | 50.338 | |
| 138 (C)/7/usuario x= 0.0 | 40.881 | |
| 138 (C)/10/usuario x= 0.0 | 36.345 | |
| 138 (C)/13/usuario x= 0.0 | 36.67 | |
| 138 (C)/16/usuario x= 0.0 | 40.817 | |
| | | **205.051** |
| Nombre del caso | ELU43 | |
| 139 (C)/4/usuario x= 0.0 | 45.287 | |
| 139 (C)/7/usuario x= 0.0 | 38.68 | |
| 139 (C)/10/usuario x= 0.0 | 36.299 | |
| 139 (C)/13/usuario x= 0.0 | 38.709 | |
| 139 (C)/16/usuario x= 0.0 | 45.354 | |
| | | **204.329** |
| Nombre del caso | ELU44 | |
| 140 (C)/4/usuario x= 0.0 | 50.149 | |
| 140 (C)/7/usuario x= 0.0 | 40.738 | |
| 140 (C)/10/usuario x= 0.0 | 36.22 | |
| 140 (C)/13/usuario x= 0.0 | 36.528 | |
| 140 (C)/16/usuario x= 0.0 | 40.628 | |
| | | **204.263** |
| Nombre del caso | ELU45 | |
| 141 (C)/4/usuario x= 0.0 | 51.266 | |
| 141 (C)/7/usuario x= 0.0 | 45.956 | |
| 141 (C)/10/usuario x= 0.0 | 43.956 | |
| 141 (C)/13/usuario x= 0.0 | 45.994 | |
| 141 (C)/16/usuario x= 0.0 | 51.349 | |
| | | **238.521** |
| Nombre del caso | ELU46 | |
| 142 (C)/4/usuario x= 0.0 | 57.344 | |
| 142 (C)/7/usuario x= 0.0 | 48.53 | |
| 142 (C)/10/usuario x= 0.0 | 43.857 | |
| 142 (C)/13/usuario x= 0.0 | 43.266 | |
| 142 (C)/16/usuario x= 0.0 | 45.442 | |
| | | **238.439** |
| Nombre del caso | ELU47 | |
| 143 (C)/4/usuario x= 0.0 | 51.152 | |
| 143 (C)/7/usuario x= 0.0 | 45.871 | |
| 143 (C)/10/usuario x= 0.0 | 43.881 | |
| 143 (C)/13/usuario x= 0.0 | 45.908 | |
| 143 (C)/16/usuario x= 0.0 | 51.236 | |
| | | **238.048** |
| Nombre del caso | ELU48 | |
| 144 (C)/4/usuario x= 0.0 | 57.23 | |
| 144 (C)/7/usuario x= 0.0 | 48.444 | |
| 144 (C)/10/usuario x= 0.0 | 43.782 | |
| 144 (C)/13/usuario x= 0.0 | 43.181 | |
| 144 (C)/16/usuario x= 0.0 | 45.329 | |
| | | **237.966** |

**AXILES EN CORONACIÓN DE FILA 1 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | FX (T) | ΣFX (T) |
|---|---|---|
| Nombre del caso | ELU49 | |
| 145 (C)/4/usuario x= 0.0 | 50.16 | |
| 145 (C)/7/usuario x= 0.0 | 47.038 | |
| 145 (C)/10/usuario x= 0.0 | 45.756 | |
| 145 (C)/13/usuario x= 0.0 | 47.075 | |
| 145 (C)/16/usuario x= 0.0 | 50.243 | |
| | | **240.272** |
| Nombre del caso | ELU50 | |
| 146 (C)/4/usuario x= 0.0 | 56.237 | |
| 146 (C)/7/usuario x= 0.0 | 49.611 | |
| 146 (C)/10/usuario x= 0.0 | 45.657 | |
| 146 (C)/13/usuario x= 0.0 | 44.348 | |
| 146 (C)/16/usuario x= 0.0 | 44.336 | |
| | | **240.189** |
| Nombre del caso | ELU51 | |
| 147 (C)/4/usuario x= 0.0 | 17.635 | |
| 147 (C)/7/usuario x= 0.0 | 15.112 | |
| 147 (C)/10/usuario x= 0.0 | 14.253 | |
| 147 (C)/13/usuario x= 0.0 | 15.112 | |
| 147 (C)/16/usuario x= 0.0 | 17.635 | |
| | | **79.747** |
| Nombre del caso | ELU52 | |
| 148 (C)/4/usuario x= 0.0 | 61.997 | |
| 148 (C)/7/usuario x= 0.0 | 60.198 | |
| 148 (C)/10/usuario x= 0.0 | 59.182 | |
| 148 (C)/13/usuario x= 0.0 | 60.198 | |
| 148 (C)/16/usuario x= 0.0 | 61.997 | |
| | | **303.572** |
| Nombre del caso | ELU53 | |
| 149 (C)/4/usuario x= 0.0 | 17.664 | |
| 149 (C)/7/usuario x= 0.0 | 15.122 | |
| 149 (C)/10/usuario x= 0.0 | 14.253 | |
| 149 (C)/13/usuario x= 0.0 | 15.1 | |
| 149 (C)/16/usuario x= 0.0 | 17.607 | |
| | | **79.746** |
| Nombre del caso | ELU54 | |
| 150 (C)/4/usuario x= 0.0 | 68.294 | |
| 150 (C)/7/usuario x= 0.0 | 62.804 | |
| 150 (C)/10/usuario x= 0.0 | 59.093 | |
| 150 (C)/13/usuario x= 0.0 | 57.411 | |
| 150 (C)/16/usuario x= 0.0 | 55.874 | |
| | | **303.476** |
| Nombre del caso | ELU55 | |
| 151 (C)/4/usuario x= 0.0 | 18.741 | |
| 151 (C)/7/usuario x= 0.0 | 14.03 | |
| 151 (C)/10/usuario x= 0.0 | 12.453 | |
| 151 (C)/13/usuario x= 0.0 | 14.03 | |
| 151 (C)/16/usuario x= 0.0 | 18.741 | |
| | | **77.995** |
| Nombre del caso | ELU56 | |
| 152 (C)/4/usuario x= 0.0 | 18.628 | |
| 152 (C)/7/usuario x= 0.0 | 13.945 | |
| 152 (C)/10/usuario x= 0.0 | 12.378 | |
| 152 (C)/13/usuario x= 0.0 | 13.945 | |
| 152 (C)/16/usuario x= 0.0 | 18.628 | |
| | | **77.524** |
| Nombre del caso | ELU57 | |
| 153 (C)/4/usuario x= 0.0 | 63.104 | |
| 153 (C)/7/usuario x= 0.0 | 59.117 | |
| 153 (C)/10/usuario x= 0.0 | 57.382 | |
| 153 (C)/13/usuario x= 0.0 | 59.117 | |
| 153 (C)/16/usuario x= 0.0 | 63.104 | |
| | | **301.824** |
| Nombre del caso | ELU58 | |
| 154 (C)/4/usuario x= 0.0 | 62.99 | |
| 154 (C)/7/usuario x= 0.0 | 59.031 | |
| 154 (C)/10/usuario x= 0.0 | 57.307 | |
| 154 (C)/13/usuario x= 0.0 | 59.031 | |
| 154 (C)/16/usuario x= 0.0 | 62.99 | |
| | | **301.349** |
| Nombre del caso | ELU59 | |
| 155 (C)/4/usuario x= 0.0 | 18.77 | |
| 155 (C)/7/usuario x= 0.0 | 14.041 | |
| 155 (C)/10/usuario x= 0.0 | 12.452 | |
| 155 (C)/13/usuario x= 0.0 | 14.019 | |
| 155 (C)/16/usuario x= 0.0 | 18.713 | |
| | | **77.995** |

**AXILES EN CORONACIÓN DE FILA 1 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | FX (T) | ΣFX (T) |
|---|---|---|
| Nombre del caso | ELU510 | |
| 156 (C)/4/usuario x= 0.0 | 18.656 | |
| 156 (C)/7/usuario x= 0.0 | 13.955 | |
| 156 (C)/10/usuario x= 0.0 | 12.377 | |
| 156 (C)/13/usuario x= 0.0 | 13.933 | |
| 156 (C)/16/usuario x= 0.0 | 18.6 | |
| | | **77.521** |
| Nombre del caso | ELU511 | |
| 157 (C)/4/usuario x= 0.0 | 69.4 | |
| 157 (C)/7/usuario x= 0.0 | 61.722 | |
| 157 (C)/10/usuario x= 0.0 | 57.293 | |
| 157 (C)/13/usuario x= 0.0 | 56.329 | |
| 157 (C)/16/usuario x= 0.0 | 56.98 | |
| | | **301.724** |
| Nombre del caso | ELU512 | |
| 158 (C)/4/usuario x= 0.0 | 69.287 | |
| 158 (C)/7/usuario x= 0.0 | 61.637 | |
| 158 (C)/10/usuario x= 0.0 | 57.217 | |
| 158 (C)/13/usuario x= 0.0 | 56.244 | |
| 158 (C)/16/usuario x= 0.0 | 56.867 | |
| | | **301.252** |
| Nombre del caso | ELU61 | |
| 159 (C)/4/usuario x= 0.0 | 17.558 | |
| 159 (C)/7/usuario x= 0.0 | 15.053 | |
| 159 (C)/10/usuario x= 0.0 | 14.202 | |
| 159 (C)/13/usuario x= 0.0 | 15.053 | |
| 159 (C)/16/usuario x= 0.0 | 17.558 | |
| | | **79.424** |
| Nombre del caso | ELU62 | |
| 160 (C)/4/usuario x= 0.0 | 61.92 | |
| 160 (C)/7/usuario x= 0.0 | 60.14 | |
| 160 (C)/10/usuario x= 0.0 | 59.131 | |
| 160 (C)/13/usuario x= 0.0 | 60.14 | |
| 160 (C)/16/usuario x= 0.0 | 61.92 | |
| | | **303.251** |
| Nombre del caso | ELU63 | |
| 161 (C)/4/usuario x= 0.0 | 17.587 | |
| 161 (C)/7/usuario x= 0.0 | 15.064 | |
| 161 (C)/10/usuario x= 0.0 | 14.202 | |
| 161 (C)/13/usuario x= 0.0 | 15.042 | |
| 161 (C)/16/usuario x= 0.0 | 17.53 | |
| | | **79.425** |
| Nombre del caso | ELU64 | |
| 162 (C)/4/usuario x= 0.0 | 68.217 | |
| 162 (C)/7/usuario x= 0.0 | 62.746 | |
| 162 (C)/10/usuario x= 0.0 | 59.042 | |
| 162 (C)/13/usuario x= 0.0 | 57.353 | |
| 162 (C)/16/usuario x= 0.0 | 55.797 | |
| | | **303.155** |
| Nombre del caso | ELU65 | |
| 163 (C)/4/usuario x= 0.0 | 18.664 | |
| 163 (C)/7/usuario x= 0.0 | 13.972 | |
| 163 (C)/10/usuario x= 0.0 | 12.402 | |
| 163 (C)/13/usuario x= 0.0 | 13.972 | |
| 163 (C)/16/usuario x= 0.0 | 18.664 | |
| | | **77.674** |
| Nombre del caso | ELU66 | |
| 164 (C)/4/usuario x= 0.0 | 18.551 | |
| 164 (C)/7/usuario x= 0.0 | 13.887 | |
| 164 (C)/10/usuario x= 0.0 | 12.327 | |
| 164 (C)/13/usuario x= 0.0 | 13.887 | |
| 164 (C)/16/usuario x= 0.0 | 18.551 | |
| | | **77.203** |
| Nombre del caso | ELU67 | |
| 165 (C)/4/usuario x= 0.0 | 63.027 | |
| 165 (C)/7/usuario x= 0.0 | 59.059 | |
| 165 (C)/10/usuario x= 0.0 | 57.331 | |
| 165 (C)/13/usuario x= 0.0 | 59.059 | |
| 165 (C)/16/usuario x= 0.0 | 63.027 | |
| | | **301.503** |
| Nombre del caso | ELU68 | |
| 166 (C)/4/usuario x= 0.0 | 62.913 | |
| 166 (C)/7/usuario x= 0.0 | 58.973 | |
| 166 (C)/10/usuario x= 0.0 | 57.256 | |
| 166 (C)/13/usuario x= 0.0 | 58.973 | |
| 166 (C)/16/usuario x= 0.0 | 62.913 | |
| | | **301.028** |

**AXILES EN CORONACIÓN DE FILA 1 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU69 | |
| 167 (C)/4/usuario x= | 0.0 | 18.693 | |
| 167 (C)/7/usuario x= | 0.0 | 13.983 | |
| 167 (C)/10/usuario x= | 0.0 | 12.401 | |
| 167 (C)/13/usuario x= | 0.0 | 13.961 | |
| 167 (C)/16/usuario x= | 0.0 | 18.637 | |
| | | | **77.675** |
| Nombre del caso | | ELU610 | |
| 168 (C)/4/usuario x= | 0.0 | 18.579 | |
| 168 (C)/7/usuario x= | 0.0 | 13.897 | |
| 168 (C)/10/usuario x= | 0.0 | 12.326 | |
| 168 (C)/13/usuario x= | 0.0 | 13.875 | |
| 168 (C)/16/usuario x= | 0.0 | 18.523 | |
| | | | **77.2** |
| Nombre del caso | | ELU611 | |
| 169 (C)/4/usuario x= | 0.0 | 69.323 | |
| 169 (C)/7/usuario x= | 0.0 | 61.664 | |
| 169 (C)/10/usuario x= | 0.0 | 57.242 | |
| 169 (C)/13/usuario x= | 0.0 | 56.271 | |
| 169 (C)/16/usuario x= | 0.0 | 56.903 | |
| | | | **301.403** |
| Nombre del caso | | ELU612 | |
| 170 (C)/4/usuario x= | 0.0 | 69.21 | |
| 170 (C)/7/usuario x= | 0.0 | 61.579 | |
| 170 (C)/10/usuario x= | 0.0 | 57.166 | |
| 170 (C)/13/usuario x= | 0.0 | 56.186 | |
| 170 (C)/16/usuario x= | 0.0 | 56.79 . | |
| | | 69.4 | **300.931** |
| **MÁXIMO AXIL ELU EN FILA 1** | | | **303.572** |

**AXILES EN CORONACIÓN DE FILA 2 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU01 | |
| 101 (C)/19/usuario x= | 0.0 | 28.142 | |
| 101 (C)/22/usuario x= | 0.0 | 24.934 | |
| 101 (C)/25/usuario x= | 0.0 | 23.852 | |
| 101 (C)/28/usuario x= | 0.0 | 24.934 | |
| 101 (C)/31/usuario x= | 0.0 | 28.142 | |
| | | | **130.004** |
| Nombre del caso | | ELU02 | |
| 102 (C)/19/usuario x= | 0.0 | 29.215 | |
| 102 (C)/22/usuario x= | 0.0 | 21.869 | |
| 102 (C)/25/usuario x= | 0.0 | 19.398 | |
| 102 (C)/28/usuario x= | 0.0 | 21.869 | |
| 102 (C)/31/usuario x= | 0.0 | 29.215 | |
| | | | **121.566** |
| Nombre del caso | | ELU03 | |
| 103 (C)/19/usuario x= | 0.0 | 29.305 | |
| 103 (C)/22/usuario x= | 0.0 | 22.021 | |
| 103 (C)/25/usuario x= | 0.0 | 19.575 | |
| 103 (C)/28/usuario x= | 0.0 | 22.021 | |
| 103 (C)/31/usuario x= | 0.0 | 29.305 | |
| | | | **122.227** |
| Nombre del caso | | ELU04 | |
| 104 (C)/19/usuario x= | 0.0 | 28.179 | |
| 104 (C)/22/usuario x= | 0.0 | 24.996 | |
| 104 (C)/25/usuario x= | 0.0 | 23.924 | |
| 104 (C)/28/usuario x= | 0.0 | 24.996 | |
| 104 (C)/31/usuario x= | 0.0 | 28.179 | |
| | | | **130.274** |
| Nombre del caso | | ELU05 | |
| 105 (C)/19/usuario x= | 0.0 | 29.252 | |
| 105 (C)/22/usuario x= | 0.0 | 21.931 | |
| 105 (C)/25/usuario x= | 0.0 | 19.471 | |
| 105 (C)/28/usuario x= | 0.0 | 21.931 | |
| 105 (C)/31/usuario x= | 0.0 | 29.252 | |
| | | | **121.837** |
| Nombre del caso | | ELU06 | |
| 106 (C)/19/usuario x= | 0.0 | 29.342 | |
| 106 (C)/22/usuario x= | 0.0 | 22.083 | |
| 106 (C)/25/usuario x= | 0.0 | 19.648 | |
| 106 (C)/28/usuario x= | 0.0 | 22.083 | |
| 106 (C)/31/usuario x= | 0.0 | 29.342 | |
| | | | **122.498** |
| Nombre del caso | | ELU11 | |
| 107 (C)/19/usuario x= | 0.0 | 65.606 | |
| 107 (C)/22/usuario x= | 0.0 | 57.307 | |
| 107 (C)/25/usuario x= | 0.0 | 54.357 | |
| 107 (C)/28/usuario x= | 0.0 | 57.307 | |
| 107 (C)/31/usuario x= | 0.0 | 65.606 | |
| | | | **300.183** |
| Nombre del caso | | ELU12 | |
| 108 (C)/19/usuario x= | 0.0 | 71.838 | |
| 108 (C)/22/usuario x= | 0.0 | 60.086 | |
| 108 (C)/25/usuario x= | 0.0 | 54.293 | |
| 108 (C)/28/usuario x= | 0.0 | 54.446 | |
| 108 (C)/31/usuario x= | 0.0 | 59.571 | |
| | | | **300.234** |
| Nombre del caso | | ELU13 | |
| 109 (C)/19/usuario x= | 0.0 | 65.696 | |
| 109 (C)/22/usuario x= | 0.0 | 57.46 | |
| 109 (C)/25/usuario x= | 0.0 | 54.534 | |
| 109 (C)/28/usuario x= | 0.0 | 57.46 | |
| 109 (C)/31/usuario x= | 0.0 | 65.696 | |
| | | | **300.846** |
| Nombre del caso | | ELU14 | |
| 110 (C)/19/usuario x= | 0.0 | 71.928 | |
| 110 (C)/22/usuario x= | 0.0 | 60.238 | |
| 110 (C)/25/usuario x= | 0.0 | 54.471 | |
| 110 (C)/28/usuario x= | 0.0 | 54.599 | |
| 110 (C)/31/usuario x= | 0.0 | 59.661 | |
| | | | **300.897** |
| Nombre del caso | | ELU15 | |
| 111 (C)/19/usuario x= | 0.0 | 74.274 | |
| 111 (C)/22/usuario x= | 0.0 | 67.393 | |
| 111 (C)/25/usuario x= | 0.0 | 64.877 | |
| 111 (C)/28/usuario x= | 0.0 | 67.393 | |
| 111 (C)/31/usuario x= | 0.0 | 74.274 | |
| | | | **348.211** |

**AXILES EN CORONACIÓN DE FILA 2 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU16 | |
| 112 (C)/19/usuario x= | 0.0 | 82.065 | |
| 112 (C)/22/usuario x= | 0.0 | 70.866 | |
| 112 (C)/25/usuario x= | 0.0 | 64.799 | |
| 112 (C)/28/usuario x= | 0.0 | 63.817 | |
| 112 (C)/31/usuario x= | 0.0 | 66.731 | |
| | | | **348.278** |
| Nombre del caso | | ELU17 | |
| 113 (C)/19/usuario x= | 0.0 | 74.329 | |
| 113 (C)/22/usuario x= | 0.0 | 67.485 | |
| 113 (C)/25/usuario x= | 0.0 | 64.984 | |
| 113 (C)/28/usuario x= | 0.0 | 67.485 | |
| 113 (C)/31/usuario x= | 0.0 | 74.329 | |
| | | | **348.612** |
| Nombre del caso | | ELU18 | |
| 114 (C)/19/usuario x= | 0.0 | 82.119 | |
| 114 (C)/22/usuario x= | 0.0 | 70.958 | |
| 114 (C)/25/usuario x= | 0.0 | 64.905 | |
| 114 (C)/28/usuario x= | 0.0 | 63.908 | |
| 114 (C)/31/usuario x= | 0.0 | 66.785 | |
| | | | **348.675** |
| Nombre del caso | | ELU19 | |
| 115 (C)/19/usuario x= | 0.0 | 73.631 | |
| 115 (C)/22/usuario x= | 0.0 | 69.232 | |
| 115 (C)/25/usuario x= | 0.0 | 67.549 | |
| 115 (C)/28/usuario x= | 0.0 | 69.232 | |
| 115 (C)/31/usuario x= | 0.0 | 73.631. | |
| | | | **353.275** |
| Nombre del caso | | ELU20 | |
| 116 (C)/19/usuario x= | 0.0 | 81.421 | |
| 116 (C)/22/usuario x= | 0.0 | 72.705 | |
| 116 (C)/25/usuario x= | 0.0 | 67.47 | |
| 116 (C)/28/usuario x= | 0.0 | 65.656 | |
| 116 (C)/31/usuario x= | 0.0 | 66.087 | |
| | | | **353.339** |
| Nombre del caso | | ELU21 | |
| 117 (C)/19/usuario x= | 0.0 | 65.581 | |
| 117 (C)/22/usuario x= | 0.0 | 57.294 | |
| 117 (C)/25/usuario x= | 0.0 | 54.357 | |
| 117 (C)/28/usuario x= | 0.0 | 57.326 | |
| 117 (C)/31/usuario x= | 0.0 | 65.65 | |
| | | | **300.208** |
| Nombre del caso | | ELU22 | |
| 118 (C)/19/usuario x= | 0.0 | 71.813 | |
| 118 (C)/22/usuario x= | 0.0 | 60.072 | |
| 118 (C)/25/usuario x= | 0.0 | 54.294 | |
| 118 (C)/28/usuario x= | 0.0 | 54.466 | |
| 118 (C)/31/usuario x= | 0.0 | 59.615 | |
| | | | **300.26** |
| Nombre del caso | | ELU23 | |
| 119 (C)/19/usuario x= | 0.0 | 65.671 | |
| 119 (C)/22/usuario x= | 0.0 | 57.447 | |
| 119 (C)/25/usuario x= | 0.0 | 54.534 | |
| 119 (C)/28/usuario x= | 0.0 | 57.479 | |
| 119 (C)/31/usuario x= | 0.0 | 65.741 | |
| | | | **300.872** |
| Nombre del caso | | ELU24 | |
| 120 (C)/19/usuario x= | 0.0 | 71.904 | |
| 120 (C)/22/usuario x= | 0.0 | 60.225 | |
| 120 (C)/25/usuario x= | 0.0 | 54.471 | |
| 120 (C)/28/usuario x= | 0.0 | 54.618 | |
| 120 (C)/31/usuario x= | 0.0 | 59.706 | |
| | | | **300.924** |
| Nombre del caso | | ELU25 | |
| 121 (C)/19/usuario x= | 0.0 | 74.244 | |
| 121 (C)/22/usuario x= | 0.0 | 67.376 | |
| 121 (C)/25/usuario x= | 0.0 | 64.878 | |
| 121 (C)/28/usuario x= | 0.0 | 67.417 | |
| 121 (C)/31/usuario x= | 0.0 | 74.33 | |
| | | | **348.245** |
| Nombre del caso | | ELU26 | |
| 122 (C)/19/usuario x= | 0.0 | 82.034 | |
| 122 (C)/22/usuario x= | 0.0 | 70.849 | |
| 122 (C)/25/usuario x= | 0.0 | 64.799 | |
| 122 (C)/28/usuario x= | 0.0 | 63.841 | |
| 122 (C)/31/usuario x= | 0.0 | 66.786 | |
| | | | **348.309** |

**AXILES EN CORONACIÓN DE FILA 2 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU27 | |
| 123 (C)/19/usuario x= | 0.0 | 74.298 | |
| 123 (C)/22/usuario x= | 0.0 | 67.468 | |
| 123 (C)/25/usuario x= | 0.0 | 64.984 | |
| 123 (C)/28/usuario x= | 0.0 | 67.509 | |
| 123 (C)/31/usuario x= | 0.0 | 74.384 | |
| | | | **348.643** |
| Nombre del caso | | ELU28 | |
| 124 (C)/19/usuario x= | 0.0 | 82.088 | |
| 124 (C)/22/usuario x= | 0.0 | 70.941 | |
| 124 (C)/25/usuario x= | 0.0 | 64.905 | |
| 124 (C)/28/usuario x= | 0.0 | 63.932 | |
| 124 (C)/31/usuario x= | 0.0 | 66.841 | |
| | | | **348.707** |
| Nombre del caso | | ELU29 | |
| 125 (C)/19/usuario x= | 0.0 | 73.6 | |
| 125 (C)/22/usuario x= | 0.0 | 69.215 | |
| 125 (C)/25/usuario x= | 0.0 | 67.55 | |
| 125 (C)/28/usuario x= | 0.0 | 69.256 | |
| 125 (C)/31/usuario x= | 0.0 | 73.687 | |
| | | | **353.308** |
| Nombre del caso | | ELU30 | |
| 126 (C)/19/usuario x= | 0.0 | 81.39 | |
| 126 (C)/22/usuario x= | 0.0 | 72.688 | |
| 126 (C)/25/usuario x= | 0.0 | 67.471 | |
| 126 (C)/28/usuario x= | 0.0 | 65.68 | |
| 126 (C)/31/usuario x= | 0.0 | 66.143 | |
| | | | **353.372** |
| Nombre del caso | | ELU31 | |
| 127 (C)/19/usuario x= | 0.0 | 65.642 | |
| 127 (C)/22/usuario x= | 0.0 | 57.369 | |
| 127 (C)/25/usuario x= | 0.0 | 54.429 | |
| 127 (C)/28/usuario x= | 0.0 | 57.369 | |
| 127 (C)/31/usuario x= | 0.0 | 65.642 | |
| | | | **300.451** |
| Nombre del caso | | ELU32 | |
| 128 (C)/19/usuario x= | 0.0 | 71.875 | |
| 128 (C)/22/usuario x= | 0.0 | 60.148 | |
| 128 (C)/25/usuario x= | 0.0 | 54.366 | |
| 128 (C)/28/usuario x= | 0.0 | 54.509 | |
| 128 (C)/31/usuario x= | 0.0 | 59.608 | |
| | | | **300.506** |
| Nombre del caso | | ELU33 | |
| 129 (C)/19/usuario x= | 0.0 | 65.733 | |
| 129 (C)/22/usuario x= | 0.0 | 57.522 | |
| 129 (C)/25/usuario x= | 0.0 | 54.606 | |
| 129 (C)/28/usuario x= | 0.0 | 57.522 | |
| 129 (C)/31/usuario x= | 0.0 | 65.733 | |
| | | | **301.116** |
| Nombre del caso | | ELU34 | |
| 130 (C)/19/usuario x= | 0.0 | 71.965 | |
| 130 (C)/22/usuario x= | 0.0 | 60.3 | |
| 130 (C)/25/usuario x= | 0.0 | 54.543 | |
| 130 (C)/28/usuario x= | 0.0 | 54.661 | |
| 130 (C)/31/usuario x= | 0.0 | 59.698 | |
| | | | **301.167** |
| Nombre del caso | | ELU35 | |
| 131 (C)/19/usuario x= | 0.0 | 74.311 | |
| 131 (C)/22/usuario x= | 0.0 | 67.455 | |
| 131 (C)/25/usuario x= | 0.0 | 64.95 | |
| 131 (C)/28/usuario x= | 0.0 | 67.455 | |
| 131 (C)/31/usuario x= | 0.0 | 74.311 | |
| | | | **348.482** |
| Nombre del caso | | ELU36 | |
| 132 (C)/19/usuario x= | 0.0 | 82.101 | |
| 132 (C)/22/usuario x= | 0.0 | 70.928 | |
| 132 (C)/25/usuario x= | 0.0 | 64.871 | |
| 132 (C)/28/usuario x= | 0.0 | 63.879 | |
| 132 (C)/31/usuario x= | 0.0 | 66.767 | |
| | | | **348.546** |
| Nombre del caso | | ELU37 | |
| 133 (C)/19/usuario x= | 0.0 | 74.365 | |
| 133 (C)/22/usuario x= | 0.0 | 67.547 | |
| 133 (C)/25/usuario x= | 0.0 | 65.056 | |
| 133 (C)/28/usuario x= | 0.0 | 67.547 | |
| 133 (C)/31/usuario x= | 0.0 | 74.365 | |
| | | | **348.88** |

**AXILES EN CORONACIÓN DE FILA 2 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU38 | |
| 134 (C)/19/usuario x= | 0.0 | 82.156 | |
| 134 (C)/22/usuario x= | 0.0 | 71.02 | |
| 134 (C)/25/usuario x= | 0.0 | 64.977 | |
| 134 (C)/28/usuario x= | 0.0 | 63.971 | |
| 134 (C)/31/usuario x= | 0.0 | 66.822 | |
| | | | **348.946** |
| Nombre del caso | | ELU39 | |
| 135 (C)/19/usuario x= | 0.0 | 73.668 | |
| 135 (C)/22/usuario x= | 0.0 | 69.294 | |
| 135 (C)/25/usuario x= | 0.0 | 67.622 | |
| 135 (C)/28/usuario x= | 0.0 | 69.294 | |
| 135 (C)/31/usuario x= | 0.0 | 73.668 | |
| | | | **353.546** |
| Nombre del caso | | ELU40 | |
| 136 (C)/19/usuario x= | 0.0 | 81.458 | |
| 136 (C)/22/usuario x= | 0.0 | 72.767 | |
| 136 (C)/25/usuario x= | 0.0 | 67.543 | |
| 136 (C)/28/usuario x= | 0.0 | 65.718 | |
| 136 (C)/31/usuario x= | 0.0 | 66.124 | |
| | | | **353.61** |
| Nombre del caso | | ELU41 | |
| 137 (C)/19/usuario x= | 0.0 | 65.618 | |
| 137 (C)/22/usuario x= | 0.0 | 57.356 | |
| 137 (C)/25/usuario x= | 0.0 | 54.429 | |
| 137 (C)/28/usuario x= | 0.0 | 57.389 | |
| 137 (C)/31/usuario x= | 0.0 | 65.687 | |
| | | | **300.479** |
| Nombre del caso | | ELU42 | |
| 138 (C)/19/usuario x= | 0.0 | 71.85 | |
| 138 (C)/22/usuario x= | 0.0 | 60.134 | |
| 138 (C)/25/usuario x= | 0.0 | 54.366 | |
| 138 (C)/28/usuario x= | 0.0 | 54.528 | |
| 138 (C)/31/usuario x= | 0.0 | 59.652 | |
| | | | **300.53** |
| Nombre del caso | | ELU43 | |
| 139 (C)/19/usuario x= | 0.0 | 65.708 | |
| 139 (C)/22/usuario x= | 0.0 | 57.509 | |
| 139 (C)/25/usuario x= | 0.0 | 54.606 | |
| 139 (C)/28/usuario x= | 0.0 | 57.541 | |
| 139 (C)/31/usuario x= | 0.0 | 65.778 | |
| | | | **301.142** |
| Nombre del caso | | ELU44 | |
| 140 (C)/19/usuario x= | 0.0 | 71.94 | |
| 140 (C)/22/usuario x= | 0.0 | 60.287 | |
| 140 (C)/25/usuario x= | 0.0 | 54.543 | |
| 140 (C)/28/usuario x= | 0.0 | 54.68 | |
| 140 (C)/31/usuario x= | 0.0 | 59.743 | |
| | | | **301.193** |
| Nombre del caso | | ELU45 | |
| 141 (C)/19/usuario x= | 0.0 | 74.28 | |
| 141 (C)/22/usuario x= | 0.0 | 67.439 | |
| 141 (C)/25/usuario x= | 0.0 | 64.95 | |
| 141 (C)/28/usuario x= | 0.0 | 67.479 | |
| 141 (C)/31/usuario x= | 0.0 | 74.367 | |
| | | | **348.515** |
| Nombre del caso | | ELU46 | |
| 142 (C)/19/usuario x= | 0.0 | 82.071 | |
| 142 (C)/22/usuario x= | 0.0 | 70.911 | |
| 142 (C)/25/usuario x= | 0.0 | 64.871 | |
| 142 (C)/28/usuario x= | 0.0 | 63.903 | |
| 142 (C)/31/usuario x= | 0.0 | 66.823 | |
| | | | **348.579** |
| Nombre del caso | | ELU47 | |
| 143 (C)/19/usuario x= | 0.0 | 74.335 | |
| 143 (C)/22/usuario x= | 0.0 | 67.53 | |
| 143 (C)/25/usuario x= | 0.0 | 65.057 | |
| 143 (C)/28/usuario x= | 0.0 | 67.571 | |
| 143 (C)/31/usuario x= | 0.0 | 74.421 | |
| | | | **348.914** |
| Nombre del caso | | ELU48 | |
| 144 (C)/19/usuario x= | 0.0 | 82.125 | |
| 144 (C)/22/usuario x= | 0.0 | 71.003 | |
| 144 (C)/25/usuario x= | 0.0 | 64.978 | |
| 144 (C)/28/usuario x= | 0.0 | 63.995 | |
| 144 (C)/31/usuario x= | 0.0 | 66.878 | |
| | | | **348.979** |

**AXILES EN CORONACIÓN DE FILA 2 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU49 | |
| 145 (C)/19/usuario x= | 0.0 | 73.637 | |
| 145 (C)/22/usuario x= | 0.0 | 69.278 | |
| 145 (C)/25/usuario x= | 0.0 | 67.622 | |
| 145 (C)/28/usuario x= | 0.0 | 69.318 | |
| 145 (C)/31/usuario x= | 0.0 | 73.723 | |
| | | | **353.578** |
| Nombre del caso | | ELU50 | |
| 146 (C)/19/usuario x= | 0.0 | 81.427 | |
| 146 (C)/22/usuario x= | 0.0 | 72.75 | |
| 146 (C)/25/usuario x= | 0.0 | 67.543 | |
| 146 (C)/28/usuario x= | 0.0 | 65.742 | |
| 146 (C)/31/usuario x= | 0.0 | 66.18 | |
| | | | **353.642** |
| Nombre del caso | | ELU51 | |
| 147 (C)/19/usuario x= | 0.0 | 26.979 | |
| 147 (C)/22/usuario x= | 0.0 | 23.909 | |
| 147 (C)/25/usuario x= | 0.0 | 22.875 | |
| 147 (C)/28/usuario x= | 0.0 | 23.909 | |
| 147 (C)/31/usuario x= | 0.0 | 26.979 | |
| | | | **124.651** |
| Nombre del caso | | ELU52 | |
| 148 (C)/19/usuario x= | 0.0 | 48.369 | |
| 148 (C)/22/usuario x= | 0.0 | 45.068 | |
| 148 (C)/25/usuario x= | 0.0 | 43.965 | |
| 148 (C)/28/usuario x= | 0.0 | 45.068 | |
| 148 (C)/31/usuario x= | 0.0 | 48.369 | |
| | | | **230.839** |
| Nombre del caso | | ELU53 | |
| 149 (C)/19/usuario x= | 0.0 | 27.096 | |
| 149 (C)/22/usuario x= | 0.0 | 23.958 | |
| 149 (C)/25/usuario x= | 0.0 | 22.873 | |
| 149 (C)/28/usuario x= | 0.0 | 23.856 | |
| 149 (C)/31/usuario x= | 0.0 | 26.863 | |
| | | | **124.646** |
| Nombre del caso | | ELU54 | |
| 150 (C)/19/usuario x= | 0.0 | 52.298 | |
| 150 (C)/22/usuario x= | 0.0 | 46.85 | |
| 150 (C)/25/usuario x= | 0.0 | 43.917 | |
| 150 (C)/28/usuario x= | 0.0 | 43.248 | |
| 150 (C)/31/usuario x= | 0.0 | 44.603 | |
| | | | **230.916** |
| Nombre del caso | | ELU55 | |
| 151 (C)/19/usuario x= | 0.0 | 27.623 | |
| 151 (C)/22/usuario x= | 0.0 | 22.07 | |
| 151 (C)/25/usuario x= | 0.0 | 20.203 | |
| 151 (C)/28/usuario x= | 0.0 | 22.07 | |
| 151 (C)/31/usuario x= | 0.0 | 27.623 | |
| | | | **119.589** |
| Nombre del caso | | ELU56 | |
| 152 (C)/19/usuario x= | 0.0 | 27.677 | |
| 152 (C)/22/usuario x= | 0.0 | 22.161 | |
| 152 (C)/25/usuario x= | 0.0 | 20.309 | |
| 152 (C)/28/usuario x= | 0.0 | 22.161 | |
| 152 (C)/31/usuario x= | 0.0 | 27.677 | |
| | | | **119.985** |
| Nombre del caso | | ELU57 | |
| 153 (C)/19/usuario x= | 0.0 | 49.013 | |
| 153 (C)/22/usuario x= | 0.0 | 43.229 | |
| 153 (C)/25/usuario x= | 0.0 | 41.293 | |
| 153 (C)/28/usuario x= | 0.0 | 43.229 | |
| 153 (C)/31/usuario x= | 0.0 | 49.013 | |
| | | | **225.777** |
| Nombre del caso | | ELU58 | |
| 154 (C)/19/usuario x= | 0.0 | 49.067 | |
| 154 (C)/22/usuario x= | 0.0 | 43.32 | |
| 154 (C)/25/usuario x= | 0.0 | 41.4 | |
| 154 (C)/28/usuario x= | 0.0 | 43.32 | |
| 154 (C)/31/usuario x= | 0.0 | 49.067 | |
| | | | **226.174** |
| Nombre del caso | | ELU59 | |
| 155 (C)/19/usuario x= | 0.0 | 27.74 | |
| 155 (C)/22/usuario x= | 0.0 | 22.119 | |
| 155 (C)/25/usuario x= | 0.0 | 20.201 | |
| 155 (C)/28/usuario x= | 0.0 | 22.017 | |
| 155 (C)/31/usuario x= | 0.0 | 27.506 | |
| | | | **119.583** |

**AXILES EN CORONACIÓN DE FILA 2 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU510 | |
| 156 (C)/19/usuario x= | 0.0 | 27.794 | |
| 156 (C)/22/usuario x= | 0.0 | 22.211 | |
| 156 (C)/25/usuario x= | 0.0 | 20.307 | |
| 156 (C)/28/usuario x= | 0.0 | 22.109 | |
| 156 (C)/31/usuario x= | 0.0 | 27.561 | |
| | | | **119.982** |
| Nombre del caso | | ELU511 | |
| 157 (C)/19/usuario x= | 0.0 | 52.942 | |
| 157 (C)/22/usuario x= | 0.0 | 45.011 | |
| 157 (C)/25/usuario x= | 0.0 | 41.245 | |
| 157 (C)/28/usuario x= | 0.0 | 41.409 | |
| 157 (C)/31/usuario x= | 0.0 | 45.247 | |
| | | | **225.854** |
| Nombre del caso | | ELU512 | |
| 158 (C)/19/usuario x= | 0.0 | 52.996 | |
| 158 (C)/22/usuario x= | 0.0 | 45.103 | |
| 158 (C)/25/usuario x= | 0.0 | 41.351 | |
| 158 (C)/28/usuario x= | 0.0 | 41.5 | |
| 158 (C)/31/usuario x= | 0.0 | 45.301 | |
| | | | **226.251** |
| Nombre del caso | | ELU61 | |
| 159 (C)/19/usuario x= | 0.0 | 27.016 | |
| 159 (C)/22/usuario x= | 0.0 | 23.971 | |
| 159 (C)/25/usuario x= | 0.0 | 22.947 | |
| 159 (C)/28/usuario x= | 0.0 | 23.971 | |
| 159 (C)/31/usuario x= | 0.0 | 27.016. | |
| | | | **124.921** |
| Nombre del caso | | ELU62 | |
| 160 (C)/19/usuario x= | 0.0 | 48.406 | |
| 160 (C)/22/usuario x= | 0.0 | 45.13 | |
| 160 (C)/25/usuario x= | 0.0 | 44.037 | |
| 160 (C)/28/usuario x= | 0.0 | 45.13 | |
| 160 (C)/31/usuario x= | 0.0 | 48.406 | |
| | | | **231.109** |
| Nombre del caso | | ELU63 | |
| 161 (C)/19/usuario x= | 0.0 | 27.133 | |
| 161 (C)/22/usuario x= | 0.0 | 24.021 | |
| 161 (C)/25/usuario x= | 0.0 | 22.945 | |
| 161 (C)/28/usuario x= | 0.0 | 23.918 | |
| 161 (C)/31/usuario x= | 0.0 | 26.9 | |
| | | | **124.917** |
| Nombre del caso | | ELU64 | |
| 162 (C)/19/usuario x= | 0.0 | 52.335 | |
| 162 (C)/22/usuario x= | 0.0 | 46.912 | |
| 162 (C)/25/usuario x= | 0.0 | 43.989 | |
| 162 (C)/28/usuario x= | 0.0 | 43.31 | |
| 162 (C)/31/usuario x= | 0.0 | 44.64 | |
| | | | **231.186** |
| Nombre del caso | | ELU65 | |
| 163 (C)/19/usuario x= | 0.0 | 27.66 | |
| 163 (C)/22/usuario x= | 0.0 | 22.132 | |
| 163 (C)/25/usuario x= | 0.0 | 20.275 | |
| 163 (C)/28/usuario x= | 0.0 | 22.132 | |
| 163 (C)/31/usuario x= | 0.0 | 27.66 | |
| | | | **119.859** |
| Nombre del caso | | ELU66 | |
| 164 (C)/19/usuario x= | 0.0 | 27.714 | |
| 164 (C)/22/usuario x= | 0.0 | 22.224 | |
| 164 (C)/25/usuario x= | 0.0 | 20.382 | |
| 164 (C)/28/usuario x= | 0.0 | 22.224 | |
| 164 (C)/31/usuario x= | 0.0 | 27.714 | |
| | | | **120.258** |
| Nombre del caso | | ELU67 | |
| 165 (C)/19/usuario x= | 0.0 | 49.05 | |
| 165 (C)/22/usuario x= | 0.0 | 43.291 | |
| 165 (C)/25/usuario x= | 0.0 | 41.366 | |
| 165 (C)/28/usuario x= | 0.0 | 43.291 | |
| 165 (C)/31/usuario x= | 0.0 | 49.05 | |
| | | | **226.048** |
| Nombre del caso | | ELU68 | |
| 166 (C)/19/usuario x= | 0.0 | 49.104 | |
| 166 (C)/22/usuario x= | 0.0 | 43.382 | |
| 166 (C)/25/usuario x= | 0.0 | 41.472 | |
| 166 (C)/28/usuario x= | 0.0 | 43.382 | |
| 166 (C)/31/usuario x= | 0.0 | 49.104 | |
| | | | **226.444** |

**AXILES EN CORONACIÓN DE FILA 2 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU69 | |
| 167 (C)/19/usuario x= | 0.0 | 27.777 | |
| 167 (C)/22/usuario x= | 0.0 | 22.182 | |
| 167 (C)/25/usuario x= | 0.0 | 20.273 | |
| 167 (C)/28/usuario x= | 0.0 | 22.079 | |
| 167 (C)/31/usuario x= | 0.0 | 27.543 | |
| | | | **119.854** |
| Nombre del caso | | ELU610 | |
| 168 (C)/19/usuario x= | 0.0 | 27.831 | |
| 168 (C)/22/usuario x= | 0.0 | 22.273 | |
| 168 (C)/25/usuario x= | 0.0 | 20.379 | |
| 168 (C)/28/usuario x= | 0.0 | 22.171 | |
| 168 (C)/31/usuario x= | 0.0 | 27.597 | |
| | | | **120.251** |
| Nombre del caso | | ELU611 | |
| 169 (C)/19/usuario x= | 0.0 | 52.978 | |
| 169 (C)/22/usuario x= | 0.0 | 45.073 | |
| 169 (C)/25/usuario x= | 0.0 | 41.317 | |
| 169 (C)/28/usuario x= | 0.0 | 41.471 | |
| 169 (C)/31/usuario x= | 0.0 | 45.284 | |
| | | | **226.123** |
| Nombre del caso | | ELU612 | |
| 170 (C)/19/usuario x= | 0.0 | 53.033 | |
| 170 (C)/22/usuario x= | 0.0 | 45.165 | |
| 170 (C)/25/usuario x= | 0.0 | 41.423 | |
| 170 (C)/28/usuario x= | 0.0 | 41.562 | |
| 170 (C)/31/usuario x= | 0.0 | 45.338 | |
| | | 82.156 | **226.521** |
| **MÁXIMO AXIL ELU EN FILA 2** | | | **353.642** |

**AXILES EN CORONACIÓN DE FILA 3 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU01 | |
| 101 (C)/34/usuario x= | 0.0 | 27.602 | |
| 101 (C)/37/usuario x= | 0.0 | 24.35 | |
| 101 (C)/40/usuario x= | 0.0 | 23.233 | |
| 101 (C)/43/usuario x= | 0.0 | 24.35 | |
| 101 (C)/46/usuario x= | 0.0 | 27.602 | |
| | | | **127.137** |
| Nombre del caso | | ELU02 | |
| 102 (C)/34/usuario x= | 0.0 | 30.321 | |
| 102 (C)/37/usuario x= | 0.0 | 22.697 | |
| 102 (C)/40/usuario x= | 0.0 | 20.118 | |
| 102 (C)/43/usuario x= | 0.0 | 22.697 | |
| 102 (C)/46/usuario x= | 0.0 | 30.321 | |
| | | | **126.154** |
| Nombre del caso | | ELU03 | |
| 103 (C)/34/usuario x= | 0.0 | 30.425 | |
| 103 (C)/37/usuario x= | 0.0 | 22.87 | |
| 103 (C)/40/usuario x= | 0.0 | 20.317 | |
| 103 (C)/43/usuario x= | 0.0 | 22.87 | |
| 103 (C)/46/usuario x= | 0.0 | 30.425 | |
| | | | **126.907** |
| Nombre del caso | | ELU04 | |
| 104 (C)/34/usuario x= | 0.0 | 27.645 | |
| 104 (C)/37/usuario x= | 0.0 | 24.42 | |
| 104 (C)/40/usuario x= | 0.0 | 23.314 | |
| 104 (C)/43/usuario x= | 0.0 | 24.42 | |
| 104 (C)/46/usuario x= | 0.0 | 27.645 | |
| | | | **127.444** |
| Nombre del caso | | ELU05 | |
| 105 (C)/34/usuario x= | 0.0 | 30.363 | |
| 105 (C)/37/usuario x= | 0.0 | 22.768 | |
| 105 (C)/40/usuario x= | 0.0 | 20.199 | |
| 105 (C)/43/usuario x= | 0.0 | 22.768 | |
| 105 (C)/46/usuario x= | 0.0 | 30.363 | |
| | | | **126.461** |
| Nombre del caso | | ELU06 | |
| 106 (C)/34/usuario x= | 0.0 | 30.468 | |
| 106 (C)/37/usuario x= | 0.0 | 22.94 | |
| 106 (C)/40/usuario x= | 0.0 | 20.398 | |
| 106 (C)/43/usuario x= | 0.0 | 22.94 | |
| 106 (C)/46/usuario x= | 0.0 | 30.468 | |
| | | | **127.214** |
| Nombre del caso | | ELU11 | |
| 107 (C)/34/usuario x= | 0.0 | 65.863 | |
| 107 (C)/37/usuario x= | 0.0 | 57.24 | |
| 107 (C)/40/usuario x= | 0.0 | 54.145 | |
| 107 (C)/43/usuario x= | 0.0 | 57.24 | |
| 107 (C)/46/usuario x= | 0.0 | 65.863 | |
| | | | **300.351** |
| Nombre del caso | | ELU12 | |
| 108 (C)/34/usuario x= | 0.0 | 72.351 | |
| 108 (C)/37/usuario x= | 0.0 | 60.137 | |
| 108 (C)/40/usuario x= | 0.0 | 54.076 | |
| 108 (C)/43/usuario x= | 0.0 | 54.247 | |
| 108 (C)/46/usuario x= | 0.0 | 59.556 | |
| | | | **300.367** |
| Nombre del caso | | ELU13 | |
| 109 (C)/34/usuario x= | 0.0 | 65.968 | |
| 109 (C)/37/usuario x= | 0.0 | 57.412 | |
| 109 (C)/40/usuario x= | 0.0 | 54.344 | |
| 109 (C)/43/usuario x= | 0.0 | 57.412 | |
| 109 (C)/46/usuario x= | 0.0 | 65.968 | |
| | | | **301.104** |
| Nombre del caso | | ELU14 | |
| 110 (C)/34/usuario x= | 0.0 | 72.455 | |
| 110 (C)/37/usuario x= | 0.0 | 60.31 | |
| 110 (C)/40/usuario x= | 0.0 | 54.275 | |
| 110 (C)/43/usuario x= | 0.0 | 54.42 | |
| 110 (C)/46/usuario x= | 0.0 | 59.661 | |
| | | | **301.121** |
| Nombre del caso | | ELU15 | |
| 111 (C)/34/usuario x= | 0.0 | 73.661 | |
| 111 (C)/37/usuario x= | 0.0 | 66.536 | |
| 111 (C)/40/usuario x= | 0.0 | 63.898 | |
| 111 (C)/43/usuario x= | 0.0 | 66.536 | |
| 111 (C)/46/usuario x= | 0.0 | 73.661 | |
| | | | **344.292** |

**AXILES EN CORONACIÓN DE FILA 3 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU16 | |
| 112 (C)/34/usuario x= | 0.0 | 81.771 | |
| 112 (C)/37/usuario x= | 0.0 | 70.158 | |
| 112 (C)/40/usuario x= | 0.0 | 63.812 | |
| 112 (C)/43/usuario x= | 0.0 | 62.796 | |
| 112 (C)/46/usuario x= | 0.0 | 65.778 | |
| | | | **344.315** |
| Nombre del caso | | ELU17 | |
| 113 (C)/34/usuario x= | 0.0 | 73.724 | |
| 113 (C)/37/usuario x= | 0.0 | 66.64 | |
| 113 (C)/40/usuario x= | 0.0 | 64.017 | |
| 113 (C)/43/usuario x= | 0.0 | 66.64 | |
| 113 (C)/46/usuario x= | 0.0 | 73.724 | |
| | | | **344.745** |
| Nombre del caso | | ELU18 | |
| 114 (C)/34/usuario x= | 0.0 | 81.834 | |
| 114 (C)/37/usuario x= | 0.0 | 70.261 | |
| 114 (C)/40/usuario x= | 0.0 | 63.932 | |
| 114 (C)/43/usuario x= | 0.0 | 62.899 | |
| 114 (C)/46/usuario x= | 0.0 | 65.84 | |
| | | | **344.766** |
| Nombre del caso | | ELU19 | |
| 115 (C)/34/usuario x= | 0.0 | 72.03 | |
| 115 (C)/37/usuario x= | 0.0 | 67.528 | |
| 115 (C)/40/usuario x= | 0.0 | 65.767 | |
| 115 (C)/43/usuario x= | 0.0 | 67.528 | |
| 115 (C)/46/usuario x= | 0.0 | 72.03 | |
| | | | **344.883** |
| Nombre del caso | | ELU20 | |
| 116 (C)/34/usuario x= | 0.0 | 80.14 | |
| 116 (C)/37/usuario x= | 0.0 | 71.149 | |
| 116 (C)/40/usuario x= | 0.0 | 65.682 | |
| 116 (C)/43/usuario x= | 0.0 | 63.787 | |
| 116 (C)/46/usuario x= | 0.0 | 64.146 | |
| | | | **344.904** |
| Nombre del caso | | ELU21 | |
| 117 (C)/34/usuario x= | 0.0 | 65.837 | |
| 117 (C)/37/usuario x= | 0.0 | 57.221 | |
| 117 (C)/40/usuario x= | 0.0 | 54.135 | |
| 117 (C)/43/usuario x= | 0.0 | 57.241 | |
| 117 (C)/46/usuario x= | 0.0 | 65.88 | |
| | | | **300.314** |
| Nombre del caso | | ELU22 | |
| 118 (C)/34/usuario x= | 0.0 | 72.324 | |
| 118 (C)/37/usuario x= | 0.0 | 60.118 | |
| 118 (C)/40/usuario x= | 0.0 | 54.066 | |
| 118 (C)/43/usuario x= | 0.0 | 54.249 | |
| 118 (C)/46/usuario x= | 0.0 | 59.573 | |
| | | | **300.33** |
| Nombre del caso | | ELU23 | |
| 119 (C)/34/usuario x= | 0.0 | 65.941 | |
| 119 (C)/37/usuario x= | 0.0 | 57.393 | |
| 119 (C)/40/usuario x= | 0.0 | 54.334 | |
| 119 (C)/43/usuario x= | 0.0 | 57.414 | |
| 119 (C)/46/usuario x= | 0.0 | 65.984 | |
| | | | **301.066** |
| Nombre del caso | | ELU24 | |
| 120 (C)/34/usuario x= | 0.0 | 72.429 | |
| 120 (C)/37/usuario x= | 0.0 | 60.291 | |
| 120 (C)/40/usuario x= | 0.0 | 54.266 | |
| 120 (C)/43/usuario x= | 0.0 | 54.422 | |
| 120 (C)/46/usuario x= | 0.0 | 59.677 | |
| | | | **301.085** |
| Nombre del caso | | ELU25 | |
| 121 (C)/34/usuario x= | 0.0 | 73.628 | |
| 121 (C)/37/usuario x= | 0.0 | 66.513 | |
| 121 (C)/40/usuario x= | 0.0 | 63.886 | |
| 121 (C)/43/usuario x= | 0.0 | 66.538 | |
| 121 (C)/46/usuario x= | 0.0 | 73.682 | |
| | | | **344.247** |
| Nombre del caso | | ELU26 | |
| 122 (C)/34/usuario x= | 0.0 | 81.738 | |
| 122 (C)/37/usuario x= | 0.0 | 70.134 | |
| 122 (C)/40/usuario x= | 0.0 | 63.8 | |
| 122 (C)/43/usuario x= | 0.0 | 62.798 | |
| 122 (C)/46/usuario x= | 0.0 | 65.799 | |
| | | | **344.269** |

**AXILES EN CORONACIÓN DE FILA 3 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU27 | |
| 123 (C)/34/usuario x= | 0.0 | 73.69 | |
| 123 (C)/37/usuario x= | 0.0 | 66.616 | |
| 123 (C)/40/usuario x= | 0.0 | 64.005 | |
| 123 (C)/43/usuario x= | 0.0 | 66.642 | |
| 123 (C)/46/usuario x= | 0.0 | 73.745 | |
| | | | **344.698** |
| Nombre del caso | | ELU28 | |
| 124 (C)/34/usuario x= | 0.0 | 81.8 | |
| 124 (C)/37/usuario x= | 0.0 | 70.238 | |
| 124 (C)/40/usuario x= | 0.0 | 63.919 | |
| 124 (C)/43/usuario x= | 0.0 | 62.902 | |
| 124 (C)/46/usuario x= | 0.0 | 65.861 | |
| | | | **344.72** |
| Nombre del caso | | ELU29 | |
| 125 (C)/34/usuario x= | 0.0 | 71.997 | |
| 125 (C)/37/usuario x= | 0.0 | 67.504 | |
| 125 (C)/40/usuario x= | 0.0 | 65.755 | |
| 125 (C)/43/usuario x= | 0.0 | 67.53 | |
| 125 (C)/46/usuario x= | 0.0 | 72.051 | |
| | | | **344.837** |
| Nombre del caso | | ELU30 | |
| 126 (C)/34/usuario x= | 0.0 | 80.106 | |
| 126 (C)/37/usuario x= | 0.0 | 71.126 | |
| 126 (C)/40/usuario x= | 0.0 | 65.669 | |
| 126 (C)/43/usuario x= | 0.0 | 63.79 | |
| 126 (C)/46/usuario x= | 0.0 | 64.167 | |
| | | | **344.858** |
| Nombre del caso | | ELU31 | |
| 127 (C)/34/usuario x= | 0.0 | 65.906 | |
| 127 (C)/37/usuario x= | 0.0 | 57.31 | |
| 127 (C)/40/usuario x= | 0.0 | 54.226 | |
| 127 (C)/43/usuario x= | 0.0 | 57.31 | |
| 127 (C)/46/usuario x= | 0.0 | 65.906 | |
| | | | **300.658** |
| Nombre del caso | | ELU32 | |
| 128 (C)/34/usuario x= | 0.0 | 72.394 | |
| 128 (C)/37/usuario x= | 0.0 | 60.207 | |
| 128 (C)/40/usuario x= | 0.0 | 54.157 | |
| 128 (C)/43/usuario x= | 0.0 | 54.318 | |
| 128 (C)/46/usuario x= | 0.0 | 59.599 | |
| | | | **300.675** |
| Nombre del caso | | ELU33 | |
| 129 (C)/34/usuario x= | 0.0 | 66.01 | |
| 129 (C)/37/usuario x= | 0.0 | 57.482 | |
| 129 (C)/40/usuario x= | 0.0 | 54.425 | |
| 129 (C)/43/usuario x= | 0.0 | 57.482 | |
| 129 (C)/46/usuario x= | 0.0 | 66.01 | |
| | | | **301.409** |
| Nombre del caso | | ELU34 | |
| 130 (C)/34/usuario x= | 0.0 | 72.498 | |
| 130 (C)/37/usuario x= | 0.0 | 60.38 | |
| 130 (C)/40/usuario x= | 0.0 | 54.356 | |
| 130 (C)/43/usuario x= | 0.0 | 54.49 | |
| 130 (C)/46/usuario x= | 0.0 | 59.703 | |
| | | | **301.427** |
| Nombre del caso | | ELU35 | |
| 131 (C)/34/usuario x= | 0.0 | 73.704 | |
| 131 (C)/37/usuario x= | 0.0 | 66.606 | |
| 131 (C)/40/usuario x= | 0.0 | 63.979 | |
| 131 (C)/43/usuario x= | 0.0 | 66.606 | |
| 131 (C)/46/usuario x= | 0.0 | 73.704 | |
| | | | **344.599** |
| Nombre del caso | | ELU36 | |
| 132 (C)/34/usuario x= | 0.0 | 81.814 | |
| 132 (C)/37/usuario x= | 0.0 | 70.228 | |
| 132 (C)/40/usuario x= | 0.0 | 63.893 | |
| 132 (C)/43/usuario x= | 0.0 | 62.866 | |
| 132 (C)/46/usuario x= | 0.0 | 65.82 | |
| | | | **344.621** |
| Nombre del caso | | ELU37 | |
| 133 (C)/34/usuario x= | 0.0 | 73.766 | |
| 133 (C)/37/usuario x= | 0.0 | 66.71 | |
| 133 (C)/40/usuario x= | 0.0 | 64.098 | |
| 133 (C)/43/usuario x= | 0.0 | 66.71 | |
| 133 (C)/46/usuario x= | 0.0 | 73.766 | |
| | | | **345.05** |

**AXILES EN CORONACIÓN DE FILA 3 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU38 | |
| 134 (C)/34/usuario x= | 0.0 | 81.876 | |
| 134 (C)/37/usuario x= | 0.0 | 70.332 | |
| 134 (C)/40/usuario x= | 0.0 | 64.013 | |
| 134 (C)/43/usuario x= | 0.0 | 62.97 | |
| 134 (C)/46/usuario x= | 0.0 | 65.883 | |
| | | | **345.074** |
| Nombre del caso | | ELU39 | |
| 135 (C)/34/usuario x= | 0.0 | 72.073 | |
| 135 (C)/37/usuario x= | 0.0 | 67.598 | |
| 135 (C)/40/usuario x= | 0.0 | 65.848 | |
| 135 (C)/43/usuario x= | 0.0 | 67.598 | |
| 135 (C)/46/usuario x= | 0.0 | 72.073 | |
| | | | **345.19** |
| Nombre del caso | | ELU40 | |
| 136 (C)/34/usuario x= | 0.0 | 80.182 | |
| 136 (C)/37/usuario x= | 0.0 | 71.22 | |
| 136 (C)/40/usuario x= | 0.0 | 65.763 | |
| 136 (C)/43/usuario x= | 0.0 | 63.858 | |
| 136 (C)/46/usuario x= | 0.0 | 64.189 | |
| | | | **345.212** |
| Nombre del caso | | ELU41 | |
| 137 (C)/34/usuario x= | 0.0 | 65.879 | |
| 137 (C)/37/usuario x= | 0.0 | 57.291 | |
| 137 (C)/40/usuario x= | 0.0 | 54.216 | |
| 137 (C)/43/usuario x= | 0.0 | 57.312 | |
| 137 (C)/46/usuario x= | 0.0 | 65.923 | |
| | | | **300.621** |
| Nombre del caso | | ELU42 | |
| 138 (C)/34/usuario x= | 0.0 | 72.367 | |
| 138 (C)/37/usuario x= | 0.0 | 60.189 | |
| 138 (C)/40/usuario x= | 0.0 | 54.148 | |
| 138 (C)/43/usuario x= | 0.0 | 54.32 | |
| 138 (C)/46/usuario x= | 0.0 | 59.616 | |
| | | | **300.64** |
| Nombre del caso | | ELU43 | |
| 139 (C)/34/usuario x= | 0.0 | 65.983 | |
| 139 (C)/37/usuario x= | 0.0 | 57.464 | |
| 139 (C)/40/usuario x= | 0.0 | 54.415 | |
| 139 (C)/43/usuario x= | 0.0 | 57.484 | |
| 139 (C)/46/usuario x= | 0.0 | 66.027 | |
| | | | **301.373** |
| Nombre del caso | | ELU44 | |
| 140 (C)/34/usuario x= | 0.0 | 72.471 | |
| 140 (C)/37/usuario x= | 0.0 | 60.361 | |
| 140 (C)/40/usuario x= | 0.0 | 54.347 | |
| 140 (C)/43/usuario x= | 0.0 | 54.492 | |
| 140 (C)/46/usuario x= | 0.0 | 59.72 | |
| | | | **301.391** |
| Nombre del caso | | ELU45 | |
| 141 (C)/34/usuario x= | 0.0 | 73.67 | |
| 141 (C)/37/usuario x= | 0.0 | 66.583 | |
| 141 (C)/40/usuario x= | 0.0 | 63.967 | |
| 141 (C)/43/usuario x= | 0.0 | 66.609 | |
| 141 (C)/46/usuario x= | 0.0 | 73.725 | |
| | | | **344.554** |
| Nombre del caso | | ELU46 | |
| 142 (C)/34/usuario x= | 0.0 | 81.78 | |
| 142 (C)/37/usuario x= | 0.0 | 70.205 | |
| 142 (C)/40/usuario x= | 0.0 | 63.881 | |
| 142 (C)/43/usuario x= | 0.0 | 62.868 | |
| 142 (C)/46/usuario x= | 0.0 | 65.841 | |
| | | | **344.575** |
| Nombre del caso | | ELU47 | |
| 143 (C)/34/usuario x= | 0.0 | 73.733 | |
| 143 (C)/37/usuario x= | 0.0 | 66.687 | |
| 143 (C)/40/usuario x= | 0.0 | 64.086 | |
| 143 (C)/43/usuario x= | 0.0 | 66.712 | |
| 143 (C)/46/usuario x= | 0.0 | 73.787 | |
| | | | **345.005** |
| Nombre del caso | | ELU48 | |
| 144 (C)/34/usuario x= | 0.0 | 81.843 | |
| 144 (C)/37/usuario x= | 0.0 | 70.308 | |
| 144 (C)/40/usuario x= | 0.0 | 64.001 | |
| 144 (C)/43/usuario x= | 0.0 | 62.972 | |
| 144 (C)/46/usuario x= | 0.0 | 65.904 | |
| | | | **345.028** |

**AXILES EN CORONACIÓN DE FILA 3 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU49 | |
| 145 (C)/34/usuario x= | 0.0 | 72.039 | |
| 145 (C)/37/usuario x= | 0.0 | 67.574 | |
| 145 (C)/40/usuario x= | 0.0 | 65.836 | |
| 145 (C)/43/usuario x= | 0.0 | 67.6 | |
| 145 (C)/46/usuario x= | 0.0 | 72.094 | |
| | | | **345.143** |
| Nombre del caso | | ELU50 | |
| 146 (C)/34/usuario x= | 0.0 | 80.149 | |
| 146 (C)/37/usuario x= | 0.0 | 71.196 | |
| 146 (C)/40/usuario x= | 0.0 | 65.75 | |
| 146 (C)/43/usuario x= | 0.0 | 63.86 | |
| 146 (C)/46/usuario x= | 0.0 | 64.21 | |
| | | | **345.165** |
| Nombre del caso | | ELU51 | |
| 147 (C)/34/usuario x= | 0.0 | 24.387 | |
| 147 (C)/37/usuario x= | 0.0 | 21.327 | |
| 147 (C)/40/usuario x= | 0.0 | 20.257 | |
| 147 (C)/43/usuario x= | 0.0 | 21.327 | |
| 147 (C)/46/usuario x= | 0.0 | 24.387 | |
| | | | **111.685** |
| Nombre del caso | | ELU52 | |
| 148 (C)/34/usuario x= | 0.0 | 29.258 | |
| 148 (C)/37/usuario x= | 0.0 | 26.069 | |
| 148 (C)/40/usuario x= | 0.0 | 24.957 | |
| 148 (C)/43/usuario x= | 0.0 | 26.069 | |
| 148 (C)/46/usuario x= | 0.0 | 29.258 | |
| | | | **135.611** |
| Nombre del caso | | ELU53 | |
| 149 (C)/34/usuario x= | 0.0 | 24.802 | |
| 149 (C)/37/usuario x= | 0.0 | 21.509 | |
| 149 (C)/40/usuario x= | 0.0 | 20.25 | |
| 149 (C)/43/usuario x= | 0.0 | 21.136 | |
| 149 (C)/46/usuario x= | 0.0 | 23.974 | |
| | | | **111.671** |
| Nombre del caso | | ELU54 | |
| 150 (C)/34/usuario x= | 0.0 | 30.771 | |
| 150 (C)/37/usuario x= | 0.0 | 26.757 | |
| 150 (C)/40/usuario x= | 0.0 | 24.936 | |
| 150 (C)/43/usuario x= | 0.0 | 25.364 | |
| 150 (C)/46/usuario x= | 0.0 | 27.8 | |
| | | | **135.628** |
| Nombre del caso | | ELU55 | |
| 151 (C)/34/usuario x= | 0.0 | 26.018 | |
| 151 (C)/37/usuario x= | 0.0 | 20.335 | |
| 151 (C)/40/usuario x= | 0.0 | 18.388 | |
| 151 (C)/43/usuario x= | 0.0 | 20.335 | |
| 151 (C)/46/usuario x= | 0.0 | 26.018 | |
| | | | **111.094** |
| Nombre del caso | | ELU56 | |
| 152 (C)/34/usuario x= | 0.0 | 26.081 | |
| 152 (C)/37/usuario x= | 0.0 | 20.439 | |
| 152 (C)/40/usuario x= | 0.0 | 18.507 | |
| 152 (C)/43/usuario x= | 0.0 | 20.439 | |
| 152 (C)/46/usuario x= | 0.0 | 26.081 | |
| | | | **111.547** |
| Nombre del caso | | ELU57 | |
| 153 (C)/34/usuario x= | 0.0 | 30.889 | |
| 153 (C)/37/usuario x= | 0.0 | 25.077 | |
| 153 (C)/40/usuario x= | 0.0 | 23.088 | |
| 153 (C)/43/usuario x= | 0.0 | 25.077 | |
| 153 (C)/46/usuario x= | 0.0 | 30.889 | |
| | | | **135.02** |
| Nombre del caso | | ELU58 | |
| 154 (C)/34/usuario x= | 0.0 | 30.952 | |
| 154 (C)/37/usuario x= | 0.0 | 25.181 | |
| 154 (C)/40/usuario x= | 0.0 | 23.207 | |
| 154 (C)/43/usuario x= | 0.0 | 25.181 | |
| 154 (C)/46/usuario x= | 0.0 | 30.952 | |
| | | | **135.473** |
| Nombre del caso | | ELU59 | |
| 155 (C)/34/usuario x= | 0.0 | 26.434 | |
| 155 (C)/37/usuario x= | 0.0 | 20.517 | |
| 155 (C)/40/usuario x= | 0.0 | 18.381 | |
| 155 (C)/43/usuario x= | 0.0 | 20.144 | |
| 155 (C)/46/usuario x= | 0.0 | 25.606 | |
| | | | **111.082** |

**AXILES EN CORONACIÓN DE FILA 3 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU510 | |
| 156 (C)/34/usuario x= | 0.0 | 26.496 | |
| 156 (C)/37/usuario x= | 0.0 | 20.621 | |
| 156 (C)/40/usuario x= | 0.0 | 18.501 | |
| 156 (C)/43/usuario x= | 0.0 | 20.248 | |
| 156 (C)/46/usuario x= | 0.0 | 25.668 | |
| | | | **111.534** |
| Nombre del caso | | ELU511 | |
| 157 (C)/34/usuario x= | 0.0 | 32.403 | |
| 157 (C)/37/usuario x= | 0.0 | 25.766 | |
| 157 (C)/40/usuario x= | 0.0 | 23.067 | |
| 157 (C)/43/usuario x= | 0.0 | 24.373 | |
| 157 (C)/46/usuario x= | 0.0 | 29.432 | |
| | | | **135.041** |
| Nombre del caso | | ELU512 | |
| 158 (C)/34/usuario x= | 0.0 | 32.465 | |
| 158 (C)/37/usuario x= | 0.0 | 25.869 | |
| 158 (C)/40/usuario x= | 0.0 | 23.186 | |
| 158 (C)/43/usuario x= | 0.0 | 24.477 | |
| 158 (C)/46/usuario x= | 0.0 | 29.494 | |
| | | | **135.491** |
| Nombre del caso | | ELU61 | |
| 159 (C)/34/usuario x= | 0.0 | 24.43 | |
| 159 (C)/37/usuario x= | 0.0 | 21.397 | |
| 159 (C)/40/usuario x= | 0.0 | 20.338 | |
| 159 (C)/43/usuario x= | 0.0 | 21.397 | |
| 159 (C)/46/usuario x= | 0.0 | 24.43 | |
| | | | **111.992** |
| Nombre del caso | | ELU62 | |
| 160 (C)/34/usuario x= | 0.0 | 29.301 | |
| 160 (C)/37/usuario x= | 0.0 | 26.139 | |
| 160 (C)/40/usuario x= | 0.0 | 25.038 | |
| 160 (C)/43/usuario x= | 0.0 | 26.139 | |
| 160 (C)/46/usuario x= | 0.0 | 29.301 | |
| | | | **135.918** |
| Nombre del caso | | ELU63 | |
| 161 (C)/34/usuario x= | 0.0 | 24.845 | |
| 161 (C)/37/usuario x= | 0.0 | 21.579 | |
| 161 (C)/40/usuario x= | 0.0 | 20.332 | |
| 161 (C)/43/usuario x= | 0.0 | 21.206 | |
| 161 (C)/46/usuario x= | 0.0 | 24.017 | |
| | | | **111.979** |
| Nombre del caso | | ELU64 | |
| 162 (C)/34/usuario x= | 0.0 | 30.814 | |
| 162 (C)/37/usuario x= | 0.0 | 26.828 | |
| 162 (C)/40/usuario x= | 0.0 | 25.017 | |
| 162 (C)/43/usuario x= | 0.0 | 25.435 | |
| 162 (C)/46/usuario x= | 0.0 | 27.843 | |
| | | | **135.937** |
| Nombre del caso | | ELU65 | |
| 163 (C)/34/usuario x= | 0.0 | 26.061 | |
| 163 (C)/37/usuario x= | 0.0 | 20.406 | |
| 163 (C)/40/usuario x= | 0.0 | 18.469 | |
| 163 (C)/43/usuario x= | 0.0 | 20.406 | |
| 163 (C)/46/usuario x= | 0.0 | 26.061 | |
| | | | **111.403** |
| Nombre del caso | | ELU66 | |
| 164 (C)/34/usuario x= | 0.0 | 26.123 | |
| 164 (C)/37/usuario x= | 0.0 | 20.509 | |
| 164 (C)/40/usuario x= | 0.0 | 18.588 | |
| 164 (C)/43/usuario x= | 0.0 | 20.509 | |
| 164 (C)/46/usuario x= | 0.0 | 26.123 | |
| | | | **111.852** |
| Nombre del caso | | ELU67 | |
| 165 (C)/34/usuario x= | 0.0 | 30.932 | |
| 165 (C)/37/usuario x= | 0.0 | 25.147 | |
| 165 (C)/40/usuario x= | 0.0 | 23.169 | |
| 165 (C)/43/usuario x= | 0.0 | 25.147 | |
| 165 (C)/46/usuario x= | 0.0 | 30.932 | |
| | | | **135.327** |
| Nombre del caso | | ELU68 | |
| 166 (C)/34/usuario x= | 0.0 | 30.994 | |
| 166 (C)/37/usuario x= | 0.0 | 25.251 | |
| 166 (C)/40/usuario x= | 0.0 | 23.288 | |
| 166 (C)/43/usuario x= | 0.0 | 25.251 | |
| 166 (C)/46/usuario x= | 0.0 | 30.994 | |
| | | | **135.778** |

**AXILES EN CORONACIÓN DE FILA 3 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU69 | |
| 167 (C)/34/usuario x= | 0.0 | 26.476 | |
| 167 (C)/37/usuario x= | 0.0 | 20.588 | |
| 167 (C)/40/usuario x= | 0.0 | 18.462 | |
| 167 (C)/43/usuario x= | 0.0 | 20.215 | |
| 167 (C)/46/usuario x= | 0.0 | 25.648 | |
| | | | **111.389** |
| Nombre del caso | | ELU610 | |
| 168 (C)/34/usuario x= | 0.0 | 26.539 | |
| 168 (C)/37/usuario x= | 0.0 | 20.691 | |
| 168 (C)/40/usuario x= | 0.0 | 18.582 | |
| 168 (C)/43/usuario x= | 0.0 | 20.318 | |
| 168 (C)/46/usuario x= | 0.0 | 25.71 | |
| | | | **111.84** |
| Nombre del caso | | ELU611 | |
| 169 (C)/34/usuario x= | 0.0 | 32.445 | |
| 169 (C)/37/usuario x= | 0.0 | 25.836 | |
| 169 (C)/40/usuario x= | 0.0 | 23.148 | |
| 169 (C)/43/usuario x= | 0.0 | 24.443 | |
| 169 (C)/46/usuario x= | 0.0 | 29.474 | |
| | | | **135.346** |
| Nombre del caso | | ELU612 | |
| 170 (C)/34/usuario x= | 0.0 | 32.507 | |
| 170 (C)/37/usuario x= | 0.0 | 25.94 | |
| 170 (C)/40/usuario x= | 0.0 | 23.267 | |
| 170 (C)/43/usuario x= | 0.0 | 24.547 | |
| 170 (C)/46/usuario x= | 0.0 | 29.536 | |
| | | 81.876 | **135.797** |
| **MÁXIMO AXIL ELU EN FILA 3** | | | **345.212** |

**AXILES EN CORONACIÓN DE FILA 4 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU01 | |
| 101 (C)/49/usuario x= | 0.0 | 23.863 | |
| 101 (C)/52/usuario x= | 0.0 | 20.772 | |
| 101 (C)/55/usuario x= | 0.0 | 19.692 | |
| 101 (C)/58/usuario x= | 0.0 | 20.772 | |
| 101 (C)/61/usuario x= | 0.0 | 23.863 | |
| | | | **108.962** |
| Nombre del caso | | ELU02 | |
| 102 (C)/49/usuario x= | 0.0 | 27.254 | |
| 102 (C)/52/usuario x= | 0.0 | 19.878 | |
| 102 (C)/55/usuario x= | 0.0 | 17.376 | |
| 102 (C)/58/usuario x= | 0.0 | 19.878 | |
| 102 (C)/61/usuario x= | 0.0 | 27.254 | |
| | | | **111.64** |
| Nombre del caso | | ELU03 | |
| 103 (C)/49/usuario x= | 0.0 | 27.316 | |
| 103 (C)/52/usuario x= | 0.0 | 20.011 | |
| 103 (C)/55/usuario x= | 0.0 | 17.536 | |
| 103 (C)/58/usuario x= | 0.0 | 20.011 | |
| 103 (C)/61/usuario x= | 0.0 | 27.316 | |
| | | | **112.19** |
| Nombre del caso | | ELU04 | |
| 104 (C)/49/usuario x= | 0.0 | 23.888 | |
| 104 (C)/52/usuario x= | 0.0 | 20.826 | |
| 104 (C)/55/usuario x= | 0.0 | 19.757 | |
| 104 (C)/58/usuario x= | 0.0 | 20.826 | |
| 104 (C)/61/usuario x= | 0.0 | 23.888 | |
| | | | **109.185** |
| Nombre del caso | | ELU05 | |
| 105 (C)/49/usuario x= | 0.0 | 27.279 | |
| 105 (C)/52/usuario x= | 0.0 | 19.932 | |
| 105 (C)/55/usuario x= | 0.0 | 17.441 | |
| 105 (C)/58/usuario x= | 0.0 | 19.932 | |
| 105 (C)/61/usuario x= | 0.0 | 27.279 | |
| | | | **111.863** |
| Nombre del caso | | ELU06 | |
| 106 (C)/49/usuario x= | 0.0 | 27.341 | |
| 106 (C)/52/usuario x= | 0.0 | 20.065 | |
| 106 (C)/55/usuario x= | 0.0 | 17.602 | |
| 106 (C)/58/usuario x= | 0.0 | 20.065 | |
| 106 (C)/61/usuario x= | 0.0 | 27.341 | |
| | | | **112.414** |
| Nombre del caso | | ELU11 | |
| 107 (C)/49/usuario x= | 0.0 | 57.64 | |
| 107 (C)/52/usuario x= | 0.0 | 49.242 | |
| 107 (C)/55/usuario x= | 0.0 | 46.185 | |
| 107 (C)/58/usuario x= | 0.0 | 49.242 | |
| 107 (C)/61/usuario x= | 0.0 | 57.64 | |
| | | | **259.949** |
| Nombre del caso | | ELU12 | |
| 108 (C)/49/usuario x= | 0.0 | 63.772 | |
| 108 (C)/52/usuario x= | 0.0 | 51.953 | |
| 108 (C)/55/usuario x= | 0.0 | 46.119 | |
| 108 (C)/58/usuario x= | 0.0 | 46.432 | |
| 108 (C)/61/usuario x= | 0.0 | 51.658 | |
| | | | **259.934** |
| Nombre del caso | | ELU13 | |
| 109 (C)/49/usuario x= | 0.0 | 57.702 | |
| 109 (C)/52/usuario x= | 0.0 | 49.375 | |
| 109 (C)/55/usuario x= | 0.0 | 46.346 | |
| 109 (C)/58/usuario x= | 0.0 | 49.375 | |
| 109 (C)/61/usuario x= | 0.0 | 57.702 | |
| | | | **260.5** |
| Nombre del caso | | ELU14 | |
| 110 (C)/49/usuario x= | 0.0 | 63.833 | |
| 110 (C)/52/usuario x= | 0.0 | 52.086 | |
| 110 (C)/55/usuario x= | 0.0 | 46.28 | |
| 110 (C)/58/usuario x= | 0.0 | 46.566 | |
| 110 (C)/61/usuario x= | 0.0 | 51.72 | |
| | | | **260.485** |
| Nombre del caso | | ELU15 | |
| 111 (C)/49/usuario x= | 0.0 | 63.88 | |
| 111 (C)/52/usuario x= | 0.0 | 56.941 | |
| 111 (C)/55/usuario x= | 0.0 | 54.314 | |
| 111 (C)/58/usuario x= | 0.0 | 56.941 | |
| 111 (C)/61/usuario x= | 0.0 | 63.88 | |
| | | | **295.956** |

**AXILES EN CORONACIÓN DE FILA 4 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU16 | |
| 112 (C)/49/usuario x= | 0.0 | 71.545 | |
| 112 (C)/52/usuario x= | 0.0 | 60.329 | |
| 112 (C)/55/usuario x= | 0.0 | 54.232 | |
| 112 (C)/58/usuario x= | 0.0 | 53.429 | |
| 112 (C)/61/usuario x= | 0.0 | 56.403 | |
| | | | **295.938** |
| Nombre del caso | | ELU17 | |
| 113 (C)/49/usuario x= | 0.0 | 63.917 | |
| 113 (C)/52/usuario x= | 0.0 | 57.021 | |
| 113 (C)/55/usuario x= | 0.0 | 54.411 | |
| 113 (C)/58/usuario x= | 0.0 | 57.021 | |
| 113 (C)/61/usuario x= | 0.0 | 63.917 | |
| | | | **296.287** |
| Nombre del caso | | ELU18 | |
| 114 (C)/49/usuario x= | 0.0 | 71.582 | |
| 114 (C)/52/usuario x= | 0.0 | 60.409 | |
| 114 (C)/55/usuario x= | 0.0 | 54.328 | |
| 114 (C)/58/usuario x= | 0.0 | 53.509 | |
| 114 (C)/61/usuario x= | 0.0 | 56.44 | |
| | | | **296.268** |
| Nombre del caso | | ELU19 | |
| 115 (C)/49/usuario x= | 0.0 | 61.846 | |
| 115 (C)/52/usuario x= | 0.0 | 57.478 | |
| 115 (C)/55/usuario x= | 0.0 | 55.704 | |
| 115 (C)/58/usuario x= | 0.0 | 57.478 | |
| 115 (C)/61/usuario x= | 0.0 | 61.846 | |
| | | | **294.352** |
| Nombre del caso | | ELU20 | |
| 116 (C)/49/usuario x= | 0.0 | 69.51 | |
| 116 (C)/52/usuario x= | 0.0 | 60.866 | |
| 116 (C)/55/usuario x= | 0.0 | 55.621 | |
| 116 (C)/58/usuario x= | 0.0 | 53.966 | |
| 116 (C)/61/usuario x= | 0.0 | 54.368 | |
| | | | **294.331** |
| Nombre del caso | | ELU21 | |
| 117 (C)/49/usuario x= | 0.0 | 57.597 | |
| 117 (C)/52/usuario x= | 0.0 | 49.197 | |
| 117 (C)/55/usuario x= | 0.0 | 46.141 | |
| 117 (C)/58/usuario x= | 0.0 | 49.201 | |
| 117 (C)/61/usuario x= | 0.0 | 57.604 | |
| | | | **259.74** |
| Nombre del caso | | ELU22 | |
| 118 (C)/49/usuario x= | 0.0 | 63.728 | |
| 118 (C)/52/usuario x= | 0.0 | 51.908 | |
| 118 (C)/55/usuario x= | 0.0 | 46.074 | |
| 118 (C)/58/usuario x= | 0.0 | 46.391 | |
| 118 (C)/61/usuario x= | 0.0 | 51.622 | |
| | | | **259.723** |
| Nombre del caso | | ELU23 | |
| 119 (C)/49/usuario x= | 0.0 | 57.658 | |
| 119 (C)/52/usuario x= | 0.0 | 49.33 | |
| 119 (C)/55/usuario x= | 0.0 | 46.301 | |
| 119 (C)/58/usuario x= | 0.0 | 49.334 | |
| 119 (C)/61/usuario x= | 0.0 | 57.666 | |
| | | | **260.289** |
| Nombre del caso | | ELU24 | |
| 120 (C)/49/usuario x= | 0.0 | 63.79 | |
| 120 (C)/52/usuario x= | 0.0 | 52.041 | |
| 120 (C)/55/usuario x= | 0.0 | 46.235 | |
| 120 (C)/58/usuario x= | 0.0 | 46.524 | |
| 120 (C)/61/usuario x= | 0.0 | 51.683 | |
| | | | **260.273** |
| Nombre del caso | | ELU25 | |
| 121 (C)/49/usuario x= | 0.0 | 63.826 | |
| 121 (C)/52/usuario x= | 0.0 | 56.885 | |
| 121 (C)/55/usuario x= | 0.0 | 54.258 | |
| 121 (C)/58/usuario x= | 0.0 | 56.889 | |
| 121 (C)/61/usuario x= | 0.0 | 63.835 | |
| | | | **295.693** |
| Nombre del caso | | ELU26 | |
| 122 (C)/49/usuario x= | 0.0 | 71.49 | |
| 122 (C)/52/usuario x= | 0.0 | 60.273 | |
| 122 (C)/55/usuario x= | 0.0 | 54.176 | |
| 122 (C)/58/usuario x= | 0.0 | 53.377 | |
| 122 (C)/61/usuario x= | 0.0 | 56.357 | |
| | | | **295.673** |

**AXILES EN CORONACIÓN DE FILA 4 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU27 | |
| 123 (C)/49/usuario x= | 0.0 | 63.863 | |
| 123 (C)/52/usuario x= | 0.0 | 56.965 | |
| 123 (C)/55/usuario x= | 0.0 | 54.355 | |
| 123 (C)/58/usuario x= | 0.0 | 56.969 | |
| 123 (C)/61/usuario x= | 0.0 | 63.872 | |
| | | | **296.024** |
| Nombre del caso | | ELU28 | |
| 124 (C)/49/usuario x= | 0.0 | 71.527 | |
| 124 (C)/52/usuario x= | 0.0 | 60.353 | |
| 124 (C)/55/usuario x= | 0.0 | 54.272 | |
| 124 (C)/58/usuario x= | 0.0 | 53.457 | |
| 124 (C)/61/usuario x= | 0.0 | 56.394 | |
| | | | **296.003** |
| Nombre del caso | | ELU29 | |
| 125 (C)/49/usuario x= | 0.0 | 61.792 | |
| 125 (C)/52/usuario x= | 0.0 | 57.422 | |
| 125 (C)/55/usuario x= | 0.0 | 55.648 | |
| 125 (C)/58/usuario x= | 0.0 | 57.426 | |
| 125 (C)/61/usuario x= | 0.0 | 61.801 | |
| | | | **294.089** |
| Nombre del caso | | ELU30 | |
| 126 (C)/49/usuario x= | 0.0 | 69.456 | |
| 126 (C)/52/usuario x= | 0.0 | 60.81 | |
| 126 (C)/55/usuario x= | 0.0 | 55.565 | |
| 126 (C)/58/usuario x= | 0.0 | 53.913 | |
| 126 (C)/61/usuario x= | 0.0 | 54.323 | |
| | | | **294.067** |
| Nombre del caso | | ELU31 | |
| 127 (C)/49/usuario x= | 0.0 | 57.665 | |
| 127 (C)/52/usuario x= | 0.0 | 49.296 | |
| 127 (C)/55/usuario x= | 0.0 | 46.251 | |
| 127 (C)/58/usuario x= | 0.0 | 49.296 | |
| 127 (C)/61/usuario x= | 0.0 | 57.665 | |
| | | | **260.173** |
| Nombre del caso | | ELU32 | |
| 128 (C)/49/usuario x= | 0.0 | 63.797 | |
| 128 (C)/52/usuario x= | 0.0 | 52.007 | |
| 128 (C)/55/usuario x= | 0.0 | 46.185 | |
| 128 (C)/58/usuario x= | 0.0 | 46.487 | |
| 128 (C)/61/usuario x= | 0.0 | 51.683 | |
| | | | **260.159** |
| Nombre del caso | | ELU33 | |
| 129 (C)/49/usuario x= | 0.0 | 57.727 | |
| 129 (C)/52/usuario x= | 0.0 | 49.43 | |
| 129 (C)/55/usuario x= | 0.0 | 46.411 | |
| 129 (C)/58/usuario x= | 0.0 | 49.43 | |
| 129 (C)/61/usuario x= | 0.0 | 57.727 | |
| | | | **260.725** |
| Nombre del caso | | ELU34 | |
| 130 (C)/49/usuario x= | 0.0 | 63.858 | |
| 130 (C)/52/usuario x= | 0.0 | 52.14 | |
| 130 (C)/55/usuario x= | 0.0 | 46.345 | |
| 130 (C)/58/usuario x= | 0.0 | 46.62 | |
| 130 (C)/61/usuario x= | 0.0 | 51.745 | |
| | | | **260.708** |
| Nombre del caso | | ELU35 | |
| 131 (C)/49/usuario x= | 0.0 | 63.905 | |
| 131 (C)/52/usuario x= | 0.0 | 56.995 | |
| 131 (C)/55/usuario x= | 0.0 | 54.38 | |
| 131 (C)/58/usuario x= | 0.0 | 56.995 | |
| 131 (C)/61/usuario x= | 0.0 | 63.905 | |
| | | | **296.18** |
| Nombre del caso | | ELU36 | |
| 132 (C)/49/usuario x= | 0.0 | 71.57 | |
| 132 (C)/52/usuario x= | 0.0 | 60.384 | |
| 132 (C)/55/usuario x= | 0.0 | 54.297 | |
| 132 (C)/58/usuario x= | 0.0 | 53.483 | |
| 132 (C)/61/usuario x= | 0.0 | 56.428 | |
| | | | **296.162** |
| Nombre del caso | | ELU37 | |
| 133 (C)/49/usuario x= | 0.0 | 63.942 | |
| 133 (C)/52/usuario x= | 0.0 | 57.075 | |
| 133 (C)/55/usuario x= | 0.0 | 54.476 | |
| 133 (C)/58/usuario x= | 0.0 | 57.075 | |
| 133 (C)/61/usuario x= | 0.0 | 63.942 | |
| | | | **296.51** |

**AXILES EN CORONACIÓN DE FILA 4 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU38 | |
| 134 (C)/49/usuario x= | 0.0 | 71.607 | |
| 134 (C)/52/usuario x= | 0.0 | 60.464 | |
| 134 (C)/55/usuario x= | 0.0 | 54.393 | |
| 134 (C)/58/usuario x= | 0.0 | 53.563 | |
| 134 (C)/61/usuario x= | 0.0 | 56.465 | |
| | | | **296.492** |
| Nombre del caso | | ELU39 | |
| 135 (C)/49/usuario x= | 0.0 | 61.871 | |
| 135 (C)/52/usuario x= | 0.0 | 57.532 | |
| 135 (C)/55/usuario x= | 0.0 | 55.769 | |
| 135 (C)/58/usuario x= | 0.0 | 57.532 | |
| 135 (C)/61/usuario x= | 0.0 | 61.871 | |
| | | | **294.575** |
| Nombre del caso | | ELU40 | |
| 136 (C)/49/usuario x= | 0.0 | 69.535 | |
| 136 (C)/52/usuario x= | 0.0 | 60.92 | |
| 136 (C)/55/usuario x= | 0.0 | 55.686 | |
| 136 (C)/58/usuario x= | 0.0 | 54.02 | |
| 136 (C)/61/usuario x= | 0.0 | 54.393 | |
| | | | **294.554** |
| Nombre del caso | | ELU41 | |
| 137 (C)/49/usuario x= | 0.0 | 57.622 | |
| 137 (C)/52/usuario x= | 0.0 | 49.252 | |
| 137 (C)/55/usuario x= | 0.0 | 46.206 | |
| 137 (C)/58/usuario x= | 0.0 | 49.255 | |
| 137 (C)/61/usuario x= | 0.0 | 57.629 | |
| | | | **259.964** |
| Nombre del caso | | ELU42 | |
| 138 (C)/49/usuario x= | 0.0 | 63.753 | |
| 138 (C)/52/usuario x= | 0.0 | 51.962 | |
| 138 (C)/55/usuario x= | 0.0 | 46.14 | |
| 138 (C)/58/usuario x= | 0.0 | 46.445 | |
| 138 (C)/61/usuario x= | 0.0 | 51.647 | |
| | | | **259.947** |
| Nombre del caso | | ELU43 | |
| 139 (C)/49/usuario x= | 0.0 | 57.684 | |
| 139 (C)/52/usuario x= | 0.0 | 49.385 | |
| 139 (C)/55/usuario x= | 0.0 | 46.367 | |
| 139 (C)/58/usuario x= | 0.0 | 49.388 | |
| 139 (C)/61/usuario x= | 0.0 | 57.691 | |
| | | | **260.515** |
| Nombre del caso | | ELU44 | |
| 140 (C)/49/usuario x= | 0.0 | 63.815 | |
| 140 (C)/52/usuario x= | 0.0 | 52.095 | |
| 140 (C)/55/usuario x= | 0.0 | 46.3 | |
| 140 (C)/58/usuario x= | 0.0 | 46.578 | |
| 140 (C)/61/usuario x= | 0.0 | 51.709 | |
| | | | **260.497** |
| Nombre del caso | | ELU45 | |
| 141 (C)/49/usuario x= | 0.0 | 63.851 | |
| 141 (C)/52/usuario x= | 0.0 | 56.939 | |
| 141 (C)/55/usuario x= | 0.0 | 54.324 | |
| 141 (C)/58/usuario x= | 0.0 | 56.943 | |
| 141 (C)/61/usuario x= | 0.0 | 63.86 | |
| | | | **295.917** |
| Nombre del caso | | ELU46 | |
| 142 (C)/49/usuario x= | 0.0 | 71.515 | |
| 142 (C)/52/usuario x= | 0.0 | 60.327 | |
| 142 (C)/55/usuario x= | 0.0 | 54.241 | |
| 142 (C)/58/usuario x= | 0.0 | 53.431 | |
| 142 (C)/61/usuario x= | 0.0 | 56.382 | |
| | | | **295.896** |
| Nombre del caso | | ELU47 | |
| 143 (C)/49/usuario x= | 0.0 | 63.888 | |
| 143 (C)/52/usuario x= | 0.0 | 57.019 | |
| 143 (C)/55/usuario x= | 0.0 | 54.42 | |
| 143 (C)/58/usuario x= | 0.0 | 57.023 | |
| 143 (C)/61/usuario x= | 0.0 | 63.897 | |
| | | | **296.247** |
| Nombre del caso | | ELU48 | |
| 144 (C)/49/usuario x= | 0.0 | 71.552 | |
| 144 (C)/52/usuario x= | 0.0 | 60.407 | |
| 144 (C)/55/usuario x= | 0.0 | 54.337 | |
| 144 (C)/58/usuario x= | 0.0 | 53.511 | |
| 144 (C)/61/usuario x= | 0.0 | 56.419 | |
| | | | **296.226** |

**AXILES EN CORONACIÓN DE FILA 4 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU49 | |
| 145 (C)/49/usuario x= | 0.0 | 61.817 | |
| 145 (C)/52/usuario x= | 0.0 | 57.476 | |
| 145 (C)/55/usuario x= | 0.0 | 55.713 | |
| 145 (C)/58/usuario x= | 0.0 | 57.48 | |
| 145 (C)/61/usuario x= | 0.0 | 61.826 | |
| | | | **294.312** |
| Nombre del caso | | ELU50 | |
| 146 (C)/49/usuario x= | 0.0 | 69.481 | |
| 146 (C)/52/usuario x= | 0.0 | 60.864 | |
| 146 (C)/55/usuario x= | 0.0 | 55.631 | |
| 146 (C)/58/usuario x= | 0.0 | 53.968 | |
| 146 (C)/61/usuario x= | 0.0 | 54.348 | |
| | | | **294.292** |
| Nombre del caso | | ELU51 | |
| 147 (C)/49/usuario x= | 0.0 | 24.004 | |
| 147 (C)/52/usuario x= | 0.0 | 20.617 | |
| 147 (C)/55/usuario x= | 0.0 | 19.391 | |
| 147 (C)/58/usuario x= | 0.0 | 20.617 | |
| 147 (C)/61/usuario x= | 0.0 | 24.004 | |
| | | | **108.633** |
| Nombre del caso | | ELU52 | |
| 148 (C)/49/usuario x= | 0.0 | 22.186 | |
| 148 (C)/52/usuario x= | 0.0 | 19.279 | |
| 148 (C)/55/usuario x= | 0.0 | 18.252 | |
| 148 (C)/58/usuario x= | 0.0 | 19.279 | |
| 148 (C)/61/usuario x= | 0.0 | 22.186 | |
| | | | **101.182** |
| Nombre del caso | | ELU53 | |
| 149 (C)/49/usuario x= | 0.0 | 25.333 | |
| 149 (C)/52/usuario x= | 0.0 | 21.216 | |
| 149 (C)/55/usuario x= | 0.0 | 19.375 | |
| 149 (C)/58/usuario x= | 0.0 | 19.999 | |
| 149 (C)/61/usuario x= | 0.0 | 22.694 | |
| | | | **108.617** |
| Nombre del caso | | ELU54 | |
| 150 (C)/49/usuario x= | 0.0 | 22.624 | |
| 150 (C)/52/usuario x= | 0.0 | 19.469 | |
| 150 (C)/55/usuario x= | 0.0 | 18.242 | |
| 150 (C)/58/usuario x= | 0.0 | 19.077 | |
| 150 (C)/61/usuario x= | 0.0 | 21.757 | |
| | | | **101.169** |
| Nombre del caso | | ELU55 | |
| 151 (C)/49/usuario x= | 0.0 | 26.039 | |
| 151 (C)/52/usuario x= | 0.0 | 20.08 | |
| 151 (C)/55/usuario x= | 0.0 | 18.001 | |
| 151 (C)/58/usuario x= | 0.0 | 20.08 | |
| 151 (C)/61/usuario x= | 0.0 | 26.039 | |
| | | | **110.239** |
| Nombre del caso | | ELU56 | |
| 152 (C)/49/usuario x= | 0.0 | 26.076 | |
| 152 (C)/52/usuario x= | 0.0 | 20.16 | |
| 152 (C)/55/usuario x= | 0.0 | 18.097 | |
| 152 (C)/58/usuario x= | 0.0 | 20.16 | |
| 152 (C)/61/usuario x= | 0.0 | 26.076 | |
| | | | **110.569** |
| Nombre del caso | | ELU57 | |
| 153 (C)/49/usuario x= | 0.0 | 24.22 | |
| 153 (C)/52/usuario x= | 0.0 | 18.742 | |
| 153 (C)/55/usuario x= | 0.0 | 16.862 | |
| 153 (C)/58/usuario x= | 0.0 | 18.742 | |
| 153 (C)/61/usuario x= | 0.0 | 24.22 | |
| | | | **102.786** |
| Nombre del caso | | ELU58 | |
| 154 (C)/49/usuario x= | 0.0 | 24.257 | |
| 154 (C)/52/usuario x= | 0.0 | 18.822 | |
| 154 (C)/55/usuario x= | 0.0 | 16.959 | |
| 154 (C)/58/usuario x= | 0.0 | 18.822 | |
| 154 (C)/61/usuario x= | 0.0 | 24.257 | |
| | | | **103.117** |
| Nombre del caso | | ELU59 | |
| 155 (C)/49/usuario x= | 0.0 | 27.368 | |
| 155 (C)/52/usuario x= | 0.0 | 20.679 | |
| 155 (C)/55/usuario x= | 0.0 | 17.985 | |
| 155 (C)/58/usuario x= | 0.0 | 19.463 | |
| 155 (C)/61/usuario x= | 0.0 | 24.729 | |
| | | | **110.224** |

**AXILES EN CORONACIÓN DE FILA 4 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU510 | |
| 156 (C)/49/usuario x= | 0.0 | 27.405 | |
| 156 (C)/52/usuario x= | 0.0 | 20.759 | |
| 156 (C)/55/usuario x= | 0.0 | 18.081 | |
| 156 (C)/58/usuario x= | 0.0 | 19.543 | |
| 156 (C)/61/usuario x= | 0.0 | 24.766 | |
| | | | **110.554** |
| Nombre del caso | | ELU511 | |
| 157 (C)/49/usuario x= | 0.0 | 24.658 | |
| 157 (C)/52/usuario x= | 0.0 | 18.933 | |
| 157 (C)/55/usuario x= | 0.0 | 16.853 | |
| 157 (C)/58/usuario x= | 0.0 | 18.541 | |
| 157 (C)/61/usuario x= | 0.0 | 23.792 | |
| | | | **102.777** |
| Nombre del caso | | ELU512 | |
| 158 (C)/49/usuario x= | 0.0 | 24.695 | |
| 158 (C)/52/usuario x= | 0.0 | 19.013 | |
| 158 (C)/55/usuario x= | 0.0 | 16.949 | |
| 158 (C)/58/usuario x= | 0.0 | 18.62 | |
| 158 (C)/61/usuario x= | 0.0 | 23.829 | |
| | | | **103.106** |
| Nombre del caso | | ELU61 | |
| 159 (C)/49/usuario x= | 0.0 | 24.029 | |
| 159 (C)/52/usuario x= | 0.0 | 20.671 | |
| 159 (C)/55/usuario x= | 0.0 | 19.456 | |
| 159 (C)/58/usuario x= | 0.0 | 20.671 | |
| 159 (C)/61/usuario x= | 0.0 | 24.029 | |
| | | | **108.856** |
| Nombre del caso | | ELU62 | |
| 160 (C)/49/usuario x= | 0.0 | 22.211 | |
| 160 (C)/52/usuario x= | 0.0 | 19.333 | |
| 160 (C)/55/usuario x= | 0.0 | 18.317 | |
| 160 (C)/58/usuario x= | 0.0 | 19.333 | |
| 160 (C)/61/usuario x= | 0.0 | 22.211 | |
| | | | **101.405** |
| Nombre del caso | | ELU63 | |
| 161 (C)/49/usuario x= | 0.0 | 25.359 | |
| 161 (C)/52/usuario x= | 0.0 | 21.27 | |
| 161 (C)/55/usuario x= | 0.0 | 19.44 | |
| 161 (C)/58/usuario x= | 0.0 | 20.054 | |
| 161 (C)/61/usuario x= | 0.0 | 22.719 | |
| | | | **108.842** |
| Nombre del caso | | ELU64 | |
| 162 (C)/49/usuario x= | 0.0 | 22.649 | |
| 162 (C)/52/usuario x= | 0.0 | 19.523 | |
| 162 (C)/55/usuario x= | 0.0 | 18.308 | |
| 162 (C)/58/usuario x= | 0.0 | 19.131 | |
| 162 (C)/61/usuario x= | 0.0 | 21.782 | |
| | | | **101.393** |
| Nombre del caso | | ELU65 | |
| 163 (C)/49/usuario x= | 0.0 | 26.064 | |
| 163 (C)/52/usuario x= | 0.0 | 20.134 | |
| 163 (C)/55/usuario x= | 0.0 | 18.066 | |
| 163 (C)/58/usuario x= | 0.0 | 20.134 | |
| 163 (C)/61/usuario x= | 0.0 | 26.064 | |
| | | | **110.462** |
| Nombre del caso | | ELU66 | |
| 164 (C)/49/usuario x= | 0.0 | 26.101 | |
| 164 (C)/52/usuario x= | 0.0 | 20.214 | |
| 164 (C)/55/usuario x= | 0.0 | 18.163 | |
| 164 (C)/58/usuario x= | 0.0 | 20.214 | |
| 164 (C)/61/usuario x= | 0.0 | 26.101 | |
| | | | **110.793** |
| Nombre del caso | | ELU67 | |
| 165 (C)/49/usuario x= | 0.0 | 24.245 | |
| 165 (C)/52/usuario x= | 0.0 | 18.797 | |
| 165 (C)/55/usuario x= | 0.0 | 16.928 | |
| 165 (C)/58/usuario x= | 0.0 | 18.797 | |
| 165 (C)/61/usuario x= | 0.0 | 24.245 | |
| | | | **103.012** |
| Nombre del caso | | ELU68 | |
| 166 (C)/49/usuario x= | 0.0 | 24.282 | |
| 166 (C)/52/usuario x= | 0.0 | 18.876 | |
| 166 (C)/55/usuario x= | 0.0 | 17.024 | |
| 166 (C)/58/usuario x= | 0.0 | 18.876 | |
| 166 (C)/61/usuario x= | 0.0 | 24.282 | |
| | | | **103.34** |

**AXILES EN CORONACIÓN DE FILA 4 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU69 | |
| 167 (C)/49/usuario x= | 0.0 | 27.393 | |
| 167 (C)/52/usuario x= | 0.0 | 20.734 | |
| 167 (C)/55/usuario x= | 0.0 | 18.051 | |
| 167 (C)/58/usuario x= | 0.0 | 19.517 | |
| 167 (C)/61/usuario x= | 0.0 | 24.754 | |
| | | | **110.449** |
| Nombre del caso | | ELU610 | |
| 168 (C)/49/usuario x= | 0.0 | 27.43 | |
| 168 (C)/52/usuario x= | 0.0 | 20.814 | |
| 168 (C)/55/usuario x= | 0.0 | 18.147 | |
| 168 (C)/58/usuario x= | 0.0 | 19.597 | |
| 168 (C)/61/usuario x= | 0.0 | 24.791 | |
| | | | **110.779** |
| Nombre del caso | | ELU611 | |
| 169 (C)/49/usuario x= | 0.0 | 24.683 | |
| 169 (C)/52/usuario x= | 0.0 | 18.987 | |
| 169 (C)/55/usuario x= | 0.0 | 16.918 | |
| 169 (C)/58/usuario x= | 0.0 | 18.595 | |
| 169 (C)/61/usuario x= | 0.0 | 23.817 | |
| | | | **103** |
| Nombre del caso | | ELU612 | |
| 170 (C)/49/usuario x= | 0.0 | 24.72 | |
| 170 (C)/52/usuario x= | 0.0 | 19.067 | |
| 170 (C)/55/usuario x= | 0.0 | 17.014 | |
| 170 (C)/58/usuario x= | 0.0 | 18.675 | |
| 170 (C)/61/usuario x= | 0.0 | 23.854 | |
| | | 71.607 | **103.33** |
| **MÁXIMO AXIL ELU EN FILA 4** | | | **296.51** |

**AXILES EN CORONACIÓN DE FILA 5 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU01 | |
| 101 (C)/64/usuario x= | 0.0 | 25.669 | |
| 101 (C)/67/usuario x= | 0.0 | 22.672 | |
| 101 (C)/70/usuario x= | 0.0 | 21.62 | |
| 101 (C)/73/usuario x= | 0.0 | 22.672 | |
| 101 (C)/76/usuario x= | 0.0 | 25.669 | |
| | | | **118.302** |
| Nombre del caso | | ELU02 | |
| 102 (C)/64/usuario x= | 0.0 | 28.219 | |
| 102 (C)/67/usuario x= | 0.0 | 21.101 | |
| 102 (C)/70/usuario x= | 0.0 | 18.666 | |
| 102 (C)/73/usuario x= | 0.0 | 21.101 | |
| 102 (C)/76/usuario x= | 0.0 | 28.219 | |
| | | | **117.306** |
| Nombre del caso | | ELU03 | |
| 103 (C)/64/usuario x= | 0.0 | 28.291 | |
| 103 (C)/67/usuario x= | 0.0 | 21.237 | |
| 103 (C)/70/usuario x= | 0.0 | 18.826 | |
| 103 (C)/73/usuario x= | 0.0 | 21.237 | |
| 103 (C)/76/usuario x= | 0.0 | 28.291 | |
| | | | **117.882** |
| Nombre del caso | | ELU04 | |
| 104 (C)/64/usuario x= | 0.0 | 25.699 | |
| 104 (C)/67/usuario x= | 0.0 | 22.728 | |
| 104 (C)/70/usuario x= | 0.0 | 21.685 | |
| 104 (C)/73/usuario x= | 0.0 | 22.728 | |
| 104 (C)/76/usuario x= | 0.0 | 25.699 | |
| | | | **118.539** |
| Nombre del caso | | ELU05 | |
| 105 (C)/64/usuario x= | 0.0 | 28.248 | |
| 105 (C)/67/usuario x= | 0.0 | 21.157 | |
| 105 (C)/70/usuario x= | 0.0 | 18.731 | |
| 105 (C)/73/usuario x= | 0.0 | 21.157 | |
| 105 (C)/76/usuario x= | 0.0 | 28.248 | |
| | | | **117.541** |
| Nombre del caso | | ELU06 | |
| 106 (C)/64/usuario x= | 0.0 | 28.32 | |
| 106 (C)/67/usuario x= | 0.0 | 21.293 | |
| 106 (C)/70/usuario x= | 0.0 | 18.892 | |
| 106 (C)/73/usuario x= | 0.0 | 21.293 | |
| 106 (C)/76/usuario x= | 0.0 | 28.32 | |
| | | | **118.118** |
| Nombre del caso | | ELU11 | |
| 107 (C)/64/usuario x= | 0.0 | 59.85 | |
| 107 (C)/67/usuario x= | 0.0 | 51.582 | |
| 107 (C)/70/usuario x= | 0.0 | 48.591 | |
| 107 (C)/73/usuario x= | 0.0 | 51.582 | |
| 107 (C)/76/usuario x= | 0.0 | 59.85 | |
| | | | **271.455** |
| Nombre del caso | | ELU12 | |
| 108 (C)/64/usuario x= | 0.0 | 65.961 | |
| 108 (C)/67/usuario x= | 0.0 | 54.345 | |
| 108 (C)/70/usuario x= | 0.0 | 48.533 | |
| 108 (C)/73/usuario x= | 0.0 | 48.742 | |
| 108 (C)/76/usuario x= | 0.0 | 53.884 | |
| | | | **271.465** |
| Nombre del caso | | ELU13 | |
| 109 (C)/64/usuario x= | 0.0 | 59.922 | |
| 109 (C)/67/usuario x= | 0.0 | 51.718 | |
| 109 (C)/70/usuario x= | 0.0 | 48.751 | |
| 109 (C)/73/usuario x= | 0.0 | 51.718 | |
| 109 (C)/76/usuario x= | 0.0 | 59.922 | |
| | | | **272.031** |
| Nombre del caso | | ELU14 | |
| 110 (C)/64/usuario x= | 0.0 | 66.033 | |
| 110 (C)/67/usuario x= | 0.0 | 54.481 | |
| 110 (C)/70/usuario x= | 0.0 | 48.694 | |
| 110 (C)/73/usuario x= | 0.0 | 48.878 | |
| 110 (C)/76/usuario x= | 0.0 | 53.956 | |
| | | | **272.042** |
| Nombre del caso | | ELU15 | |
| 111 (C)/64/usuario x= | 0.0 | 66.738 | |
| 111 (C)/67/usuario x= | 0.0 | 59.831 | |
| 111 (C)/70/usuario x= | 0.0 | 57.253 | |
| 111 (C)/73/usuario x= | 0.0 | 59.831 | |
| 111 (C)/76/usuario x= | 0.0 | 66.738 | |
| | | | **310.391** |

**AXILES EN CORONACIÓN DE FILA 5 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU16 | |
| 112 (C)/64/usuario x= | 0.0 | 74.377 | |
| 112 (C)/67/usuario x= | 0.0 | 63.284 | |
| 112 (C)/70/usuario x= | 0.0 | 57.182 | |
| 112 (C)/73/usuario x= | 0.0 | 56.28 | |
| 112 (C)/76/usuario x= | 0.0 | 59.28 | |
| | | | **310.403** |
| Nombre del caso | | ELU17 | |
| 113 (C)/64/usuario x= | 0.0 | 66.781 | |
| 113 (C)/67/usuario x= | 0.0 | 59.912 | |
| 113 (C)/70/usuario x= | 0.0 | 57.35 | |
| 113 (C)/73/usuario x= | 0.0 | 59.912 | |
| 113 (C)/76/usuario x= | 0.0 | 66.781 | |
| | | | **310.736** |
| Nombre del caso | | ELU18 | |
| 114 (C)/64/usuario x= | 0.0 | 74.42 | |
| 114 (C)/67/usuario x= | 0.0 | 63.366 | |
| 114 (C)/70/usuario x= | 0.0 | 57.278 | |
| 114 (C)/73/usuario x= | 0.0 | 56.362 | |
| 114 (C)/76/usuario x= | 0.0 | 59.324 | |
| | | | **310.75** |
| Nombre del caso | | ELU19 | |
| 115 (C)/64/usuario x= | 0.0 | 65.209 | |
| 115 (C)/67/usuario x= | 0.0 | 60.774 | |
| 115 (C)/70/usuario x= | 0.0 | 59.026 | |
| 115 (C)/73/usuario x= | 0.0 | 60.774 | |
| 115 (C)/76/usuario x= | 0.0 | 65.209 | |
| | | | **310.992** |
| Nombre del caso | | ELU20 | |
| 116 (C)/64/usuario x= | 0.0 | 72.847 | |
| 116 (C)/67/usuario x= | 0.0 | 64.227 | |
| 116 (C)/70/usuario x= | 0.0 | 58.954 | |
| 116 (C)/73/usuario x= | 0.0 | 57.223 | |
| 116 (C)/76/usuario x= | 0.0 | 57.751 | |
| | | | **311.002** |
| Nombre del caso | | ELU21 | |
| 117 (C)/64/usuario x= | 0.0 | 59.865 | |
| 117 (C)/67/usuario x= | 0.0 | 51.592 | |
| 117 (C)/70/usuario x= | 0.0 | 48.597 | |
| 117 (C)/73/usuario x= | 0.0 | 51.585 | |
| 117 (C)/76/usuario x= | 0.0 | 59.85 | |
| | | | **271.489** |
| Nombre del caso | | ELU22 | |
| 118 (C)/64/usuario x= | 0.0 | 65.976 | |
| 118 (C)/67/usuario x= | 0.0 | 54.355 | |
| 118 (C)/70/usuario x= | 0.0 | 48.54 | |
| 118 (C)/73/usuario x= | 0.0 | 48.745 | |
| 118 (C)/76/usuario x= | 0.0 | 53.883 | |
| | | | **271.499** |
| Nombre del caso | | ELU23 | |
| 119 (C)/64/usuario x= | 0.0 | 59.937 | |
| 119 (C)/67/usuario x= | 0.0 | 51.728 | |
| 119 (C)/70/usuario x= | 0.0 | 48.758 | |
| 119 (C)/73/usuario x= | 0.0 | 51.721 | |
| 119 (C)/76/usuario x= | 0.0 | 59.922 | |
| | | | **272.066** |
| Nombre del caso | | ELU24 | |
| 120 (C)/64/usuario x= | 0.0 | 66.048 | |
| 120 (C)/67/usuario x= | 0.0 | 54.491 | |
| 120 (C)/70/usuario x= | 0.0 | 48.701 | |
| 120 (C)/73/usuario x= | 0.0 | 48.881 | |
| 120 (C)/76/usuario x= | 0.0 | 53.955 | |
| | | | **272.076** |
| Nombre del caso | | ELU25 | |
| 121 (C)/64/usuario x= | 0.0 | 66.757 | |
| 121 (C)/67/usuario x= | 0.0 | 59.844 | |
| 121 (C)/70/usuario x= | 0.0 | 57.262 | |
| 121 (C)/73/usuario x= | 0.0 | 59.835 | |
| 121 (C)/76/usuario x= | 0.0 | 66.738 | |
| | | | **310.436** |
| Nombre del caso | | ELU26 | |
| 122 (C)/64/usuario x= | 0.0 | 74.395 | |
| 122 (C)/67/usuario x= | 0.0 | 63.297 | |
| 122 (C)/70/usuario x= | 0.0 | 57.19 | |
| 122 (C)/73/usuario x= | 0.0 | 56.284 | |
| 122 (C)/76/usuario x= | 0.0 | 59.28 | |
| | | | **310.446** |

**AXILES EN CORONACIÓN DE FILA 5 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU27 | |
| 123 (C)/64/usuario x= | 0.0 | 66.8 | |
| 123 (C)/67/usuario x= | 0.0 | 59.925 | |
| 123 (C)/70/usuario x= | 0.0 | 57.358 | |
| 123 (C)/73/usuario x= | 0.0 | 59.916 | |
| 123 (C)/76/usuario x= | 0.0 | 66.781 | |
| | | | **310.78** |
| Nombre del caso | | ELU28 | |
| 124 (C)/64/usuario x= | 0.0 | 74.438 | |
| 124 (C)/67/usuario x= | 0.0 | 63.379 | |
| 124 (C)/70/usuario x= | 0.0 | 57.287 | |
| 124 (C)/73/usuario x= | 0.0 | 56.366 | |
| 124 (C)/76/usuario x= | 0.0 | 59.323 | |
| | | | **310.793** |
| Nombre del caso | | ELU29 | |
| 125 (C)/64/usuario x= | 0.0 | 65.227 | |
| 125 (C)/67/usuario x= | 0.0 | 60.786 | |
| 125 (C)/70/usuario x= | 0.0 | 59.034 | |
| 125 (C)/73/usuario x= | 0.0 | 60.777 | |
| 125 (C)/76/usuario x= | 0.0 | 65.208 | |
| | | | **311.032** |
| Nombre del caso | | ELU30 | |
| 126 (C)/64/usuario x= | 0.0 | 72.866 | |
| 126 (C)/67/usuario x= | 0.0 | 64.24 | |
| 126 (C)/70/usuario x= | 0.0 | 58.963 | |
| 126 (C)/73/usuario x= | 0.0 | 57.227 | |
| 126 (C)/76/usuario x= | 0.0 | 57.75 | |
| | | | **311.046** |
| Nombre del caso | | ELU31 | |
| 127 (C)/64/usuario x= | 0.0 | 59.879 | |
| 127 (C)/67/usuario x= | 0.0 | 51.637 | |
| 127 (C)/70/usuario x= | 0.0 | 48.656 | |
| 127 (C)/73/usuario x= | 0.0 | 51.637 | |
| 127 (C)/76/usuario x= | 0.0 | 59.879 | |
| | | | **271.688** |
| Nombre del caso | | ELU32 | |
| 128 (C)/64/usuario x= | 0.0 | 65.99 | |
| 128 (C)/67/usuario x= | 0.0 | 54.4 | |
| 128 (C)/70/usuario x= | 0.0 | 48.599 | |
| 128 (C)/73/usuario x= | 0.0 | 48.797 | |
| 128 (C)/76/usuario x= | 0.0 | 53.913 | |
| | | | **271.699** |
| Nombre del caso | | ELU33 | |
| 129 (C)/64/usuario x= | 0.0 | 59.951 | |
| 129 (C)/67/usuario x= | 0.0 | 51.774 | |
| 129 (C)/70/usuario x= | 0.0 | 48.816 | |
| 129 (C)/73/usuario x= | 0.0 | 51.774 | |
| 129 (C)/76/usuario x= | 0.0 | 59.951 | |
| | | | **272.266** |
| Nombre del caso | | ELU34 | |
| 130 (C)/64/usuario x= | 0.0 | 66.062 | |
| 130 (C)/67/usuario x= | 0.0 | 54.536 | |
| 130 (C)/70/usuario x= | 0.0 | 48.759 | |
| 130 (C)/73/usuario x= | 0.0 | 48.933 | |
| 130 (C)/76/usuario x= | 0.0 | 53.985 | |
| | | | **272.275** |
| Nombre del caso | | ELU35 | |
| 131 (C)/64/usuario x= | 0.0 | 66.768 | |
| 131 (C)/67/usuario x= | 0.0 | 59.886 | |
| 131 (C)/70/usuario x= | 0.0 | 57.319 | |
| 131 (C)/73/usuario x= | 0.0 | 59.886 | |
| 131 (C)/76/usuario x= | 0.0 | 66.768 | |
| | | | **310.627** |
| Nombre del caso | | ELU36 | |
| 132 (C)/64/usuario x= | 0.0 | 74.406 | |
| 132 (C)/67/usuario x= | 0.0 | 63.34 | |
| 132 (C)/70/usuario x= | 0.0 | 57.247 | |
| 132 (C)/73/usuario x= | 0.0 | 56.336 | |
| 132 (C)/76/usuario x= | 0.0 | 59.31 | |
| | | | **310.639** |
| Nombre del caso | | ELU37 | |
| 133 (C)/64/usuario x= | 0.0 | 66.811 | |
| 133 (C)/67/usuario x= | 0.0 | 59.968 | |
| 133 (C)/70/usuario x= | 0.0 | 57.415 | |
| 133 (C)/73/usuario x= | 0.0 | 59.968 | |
| 133 (C)/76/usuario x= | 0.0 | 66.811 | |
| | | | **310.973** |

**AXILES EN CORONACIÓN DE FILA 5 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU38 | |
| 134 (C)/64/usuario x= | 0.0 | 74.449 | |
| 134 (C)/67/usuario x= | 0.0 | 63.421 | |
| 134 (C)/70/usuario x= | 0.0 | 57.344 | |
| 134 (C)/73/usuario x= | 0.0 | 56.417 | |
| 134 (C)/76/usuario x= | 0.0 | 59.353 | |
| | | | **310.984** |
| Nombre del caso | | ELU39 | |
| 135 (C)/64/usuario x= | 0.0 | 65.238 | |
| 135 (C)/67/usuario x= | 0.0 | 60.829 | |
| 135 (C)/70/usuario x= | 0.0 | 59.091 | |
| 135 (C)/73/usuario x= | 0.0 | 60.829 | |
| 135 (C)/76/usuario x= | 0.0 | 65.238 | |
| | | | **311.225** |
| Nombre del caso | | ELU40 | |
| 136 (C)/64/usuario x= | 0.0 | 72.876 | |
| 136 (C)/67/usuario x= | 0.0 | 64.282 | |
| 136 (C)/70/usuario x= | 0.0 | 59.02 | |
| 136 (C)/73/usuario x= | 0.0 | 57.278 | |
| 136 (C)/76/usuario x= | 0.0 | 57.78 | |
| | | | **311.236** |
| Nombre del caso | | ELU41 | |
| 137 (C)/64/usuario x= | 0.0 | 59.894 | |
| 137 (C)/67/usuario x= | 0.0 | 51.648 | |
| 137 (C)/70/usuario x= | 0.0 | 48.663 | |
| 137 (C)/73/usuario x= | 0.0 | 51.641 | |
| 137 (C)/76/usuario x= | 0.0 | 59.879 | |
| | | | **271.725** |
| Nombre del caso | | ELU42 | |
| 138 (C)/64/usuario x= | 0.0 | 66.005 | |
| 138 (C)/67/usuario x= | 0.0 | 54.41 | |
| 138 (C)/70/usuario x= | 0.0 | 48.606 | |
| 138 (C)/73/usuario x= | 0.0 | 48.8 | |
| 138 (C)/76/usuario x= | 0.0 | 53.913 | |
| | | | **271.734** |
| Nombre del caso | | ELU43 | |
| 139 (C)/64/usuario x= | 0.0 | 59.966 | |
| 139 (C)/67/usuario x= | 0.0 | 51.784 | |
| 139 (C)/70/usuario x= | 0.0 | 48.823 | |
| 139 (C)/73/usuario x= | 0.0 | 51.777 | |
| 139 (C)/76/usuario x= | 0.0 | 59.951 | |
| | | | **272.301** |
| Nombre del caso | | ELU44 | |
| 140 (C)/64/usuario x= | 0.0 | 66.077 | |
| 140 (C)/67/usuario x= | 0.0 | 54.547 | |
| 140 (C)/70/usuario x= | 0.0 | 48.766 | |
| 140 (C)/73/usuario x= | 0.0 | 48.936 | |
| 140 (C)/76/usuario x= | 0.0 | 53.985 | |
| | | | **272.311** |
| Nombre del caso | | ELU45 | |
| 141 (C)/64/usuario x= | 0.0 | 66.786 | |
| 141 (C)/67/usuario x= | 0.0 | 59.899 | |
| 141 (C)/70/usuario x= | 0.0 | 57.327 | |
| 141 (C)/73/usuario x= | 0.0 | 59.89 | |
| 141 (C)/76/usuario x= | 0.0 | 66.767 | |
| | | | **310.669** |
| Nombre del caso | | ELU46 | |
| 142 (C)/64/usuario x= | 0.0 | 74.425 | |
| 142 (C)/67/usuario x= | 0.0 | 63.352 | |
| 142 (C)/70/usuario x= | 0.0 | 57.256 | |
| 142 (C)/73/usuario x= | 0.0 | 56.339 | |
| 142 (C)/76/usuario x= | 0.0 | 59.309 | |
| | | | **310.681** |
| Nombre del caso | | ELU47 | |
| 143 (C)/64/usuario x= | 0.0 | 66.829 | |
| 143 (C)/67/usuario x= | 0.0 | 59.981 | |
| 143 (C)/70/usuario x= | 0.0 | 57.423 | |
| 143 (C)/73/usuario x= | 0.0 | 59.972 | |
| 143 (C)/76/usuario x= | 0.0 | 66.81 | |
| | | | **311.015** |
| Nombre del caso | | ELU48 | |
| 144 (C)/64/usuario x= | 0.0 | 74.468 | |
| 144 (C)/67/usuario x= | 0.0 | 63.434 | |
| 144 (C)/70/usuario x= | 0.0 | 57.352 | |
| 144 (C)/73/usuario x= | 0.0 | 56.421 | |
| 144 (C)/76/usuario x= | 0.0 | 59.353 | |
| | | | **311.028** |

**AXILES EN CORONACIÓN DE FILA 5 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU49 | |
| 145 (C)/64/usuario x= | 0.0 | 65.257 | |
| 145 (C)/67/usuario x= | 0.0 | 60.842 | |
| 145 (C)/70/usuario x= | 0.0 | 59.1 | |
| 145 (C)/73/usuario x= | 0.0 | 60.833 | |
| 145 (C)/76/usuario x= | 0.0 | 65.238 | |
| | | | **311.27** |
| Nombre del caso | | ELU50 | |
| 146 (C)/64/usuario x= | 0.0 | 72.895 | |
| 146 (C)/67/usuario x= | 0.0 | 64.295 | |
| 146 (C)/70/usuario x= | 0.0 | 59.028 | |
| 146 (C)/73/usuario x= | 0.0 | 57.282 | |
| 146 (C)/76/usuario x= | 0.0 | 57.78 | |
| | | | **311.28** |
| Nombre del caso | | ELU51 | |
| 147 (C)/64/usuario x= | 0.0 | 39.689 | |
| 147 (C)/67/usuario x= | 0.0 | 35.704 | |
| 147 (C)/70/usuario x= | 0.0 | 34.308 | |
| 147 (C)/73/usuario x= | 0.0 | 35.704 | |
| 147 (C)/76/usuario x= | 0.0 | 39.689 | |
| | | | **185.094** |
| Nombre del caso | | ELU52 | |
| 148 (C)/64/usuario x= | 0.0 | 24.683 | |
| 148 (C)/67/usuario x= | 0.0 | 21.81 | |
| 148 (C)/70/usuario x= | 0.0 | 20.8 | |
| 148 (C)/73/usuario x= | 0.0 | 21.81 | |
| 148 (C)/76/usuario x= | 0.0 | 24.683 | |
| | | | **113.786** |
| Nombre del caso | | ELU53 | |
| 149 (C)/64/usuario x= | 0.0 | 42.351 | |
| 149 (C)/67/usuario x= | 0.0 | 36.948 | |
| 149 (C)/70/usuario x= | 0.0 | 34.284 | |
| 149 (C)/73/usuario x= | 0.0 | 34.439 | |
| 149 (C)/76/usuario x= | 0.0 | 37.079 | |
| | | | **185.101** |
| Nombre del caso | | ELU54 | |
| 150 (C)/64/usuario x= | 0.0 | 24.853 | |
| 150 (C)/67/usuario x= | 0.0 | 21.883 | |
| 150 (C)/70/usuario x= | 0.0 | 20.796 | |
| 150 (C)/73/usuario x= | 0.0 | 21.731 | |
| 150 (C)/76/usuario x= | 0.0 | 24.515 | |
| | | | **113.778** |
| Nombre del caso | | ELU55 | |
| 151 (C)/64/usuario x= | 0.0 | 41.218 | |
| 151 (C)/67/usuario x= | 0.0 | 34.762 | |
| 151 (C)/70/usuario x= | 0.0 | 32.535 | |
| 151 (C)/73/usuario x= | 0.0 | 34.762 | |
| 151 (C)/76/usuario x= | 0.0 | 41.218 | |
| | | | **184.495** |
| Nombre del caso | | ELU56 | |
| 152 (C)/64/usuario x= | 0.0 | 41.261 | |
| 152 (C)/67/usuario x= | 0.0 | 34.843 | |
| 152 (C)/70/usuario x= | 0.0 | 32.632 | |
| 152 (C)/73/usuario x= | 0.0 | 34.843 | |
| 152 (C)/76/usuario x= | 0.0 | 41.261 | |
| | | | **184.84** |
| Nombre del caso | | ELU57 | |
| 153 (C)/64/usuario x= | 0.0 | 26.213 | |
| 153 (C)/67/usuario x= | 0.0 | 20.868 | |
| 153 (C)/70/usuario x= | 0.0 | 19.028 | |
| 153 (C)/73/usuario x= | 0.0 | 20.868 | |
| 153 (C)/76/usuario x= | 0.0 | 26.213 | |
| | | | **113.19** |
| Nombre del caso | | ELU58 | |
| 154 (C)/64/usuario x= | 0.0 | 26.256 | |
| 154 (C)/67/usuario x= | 0.0 | 20.949 | |
| 154 (C)/70/usuario x= | 0.0 | 19.124 | |
| 154 (C)/73/usuario x= | 0.0 | 20.949 | |
| 154 (C)/76/usuario x= | 0.0 | 26.256 | |
| | | | **113.534** |
| Nombre del caso | | ELU59 | |
| 155 (C)/64/usuario x= | 0.0 | 43.881 | |
| 155 (C)/67/usuario x= | 0.0 | 36.005 | |
| 155 (C)/70/usuario x= | 0.0 | 32.511 | |
| 155 (C)/73/usuario x= | 0.0 | 33.497 | |
| 155 (C)/76/usuario x= | 0.0 | 38.608 | |
| | | | **184.502** |

**AXILES EN CORONACIÓN DE FILA 5 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU510 | |
| 156 (C)/64/usuario x= | 0.0 | 43.924 | |
| 156 (C)/67/usuario x= | 0.0 | 36.087 | |
| 156 (C)/70/usuario x= | 0.0 | 32.608 | |
| 156 (C)/73/usuario x= | 0.0 | 33.578 | |
| 156 (C)/76/usuario x= | 0.0 | 38.651 | |
| | | | **184.848** |
| Nombre del caso | | ELU511 | |
| 157 (C)/64/usuario x= | 0.0 | 26.382 | |
| 157 (C)/67/usuario x= | 0.0 | 20.94 | |
| 157 (C)/70/usuario x= | 0.0 | 19.023 | |
| 157 (C)/73/usuario x= | 0.0 | 20.789 | |
| 157 (C)/76/usuario x= | 0.0 | 26.045 | |
| | | | **113.179** |
| Nombre del caso | | ELU512 | |
| 158 (C)/64/usuario x= | 0.0 | 26.426 | |
| 158 (C)/67/usuario x= | 0.0 | 21.022 | |
| 158 (C)/70/usuario x= | 0.0 | 19.12 | |
| 158 (C)/73/usuario x= | 0.0 | 20.87 | |
| 158 (C)/76/usuario x= | 0.0 | 26.088 | |
| | | | **113.526** |
| Nombre del caso | | ELU61 | |
| 159 (C)/64/usuario x= | 0.0 | 39.718 | |
| 159 (C)/67/usuario x= | 0.0 | 35.76 | |
| 159 (C)/70/usuario x= | 0.0 | 34.373 | |
| 159 (C)/73/usuario x= | 0.0 | 35.76 | |
| 159 (C)/76/usuario x= | 0.0 | 39.718 | |
| | | | **185.329** |
| Nombre del caso | | ELU62 | |
| 160 (C)/64/usuario x= | 0.0 | 24.713 | |
| 160 (C)/67/usuario x= | 0.0 | 21.866 | |
| 160 (C)/70/usuario x= | 0.0 | 20.866 | |
| 160 (C)/73/usuario x= | 0.0 | 21.866 | |
| 160 (C)/76/usuario x= | 0.0 | 24.713 | |
| | | | **114.024** |
| Nombre del caso | | ELU63 | |
| 161 (C)/64/usuario x= | 0.0 | 42.381 | |
| 161 (C)/67/usuario x= | 0.0 | 37.004 | |
| 161 (C)/70/usuario x= | 0.0 | 34.349 | |
| 161 (C)/73/usuario x= | 0.0 | 34.495 | |
| 161 (C)/76/usuario x= | 0.0 | 37.108 | |
| | | | **185.337** |
| Nombre del caso | | ELU64 | |
| 162 (C)/64/usuario x= | 0.0 | 24.882 | |
| 162 (C)/67/usuario x= | 0.0 | 21.938 | |
| 162 (C)/70/usuario x= | 0.0 | 20.861 | |
| 162 (C)/73/usuario x= | 0.0 | 21.787 | |
| 162 (C)/76/usuario x= | 0.0 | 24.545 | |
| | | | **114.013** |
| Nombre del caso | | ELU65 | |
| 163 (C)/64/usuario x= | 0.0 | 41.247 | |
| 163 (C)/67/usuario x= | 0.0 | 34.817 | |
| 163 (C)/70/usuario x= | 0.0 | 32.601 | |
| 163 (C)/73/usuario x= | 0.0 | 34.817 | |
| 163 (C)/76/usuario x= | 0.0 | 41.247 | |
| | | | **184.729** |
| Nombre del caso | | ELU66 | |
| 164 (C)/64/usuario x= | 0.0 | 41.291 | |
| 164 (C)/67/usuario x= | 0.0 | 34.899 | |
| 164 (C)/70/usuario x= | 0.0 | 32.697 | |
| 164 (C)/73/usuario x= | 0.0 | 34.899 | |
| 164 (C)/76/usuario x= | 0.0 | 41.291 | |
| | | | **185.077** |
| Nombre del caso | | ELU67 | |
| 165 (C)/64/usuario x= | 0.0 | 26.242 | |
| 165 (C)/67/usuario x= | 0.0 | 20.923 | |
| 165 (C)/70/usuario x= | 0.0 | 19.093 | |
| 165 (C)/73/usuario x= | 0.0 | 20.923 | |
| 165 (C)/76/usuario x= | 0.0 | 26.242 | |
| | | | **113.423** |
| Nombre del caso | | ELU68 | |
| 166 (C)/64/usuario x= | 0.0 | 26.285 | |
| 166 (C)/67/usuario x= | 0.0 | 21.005 | |
| 166 (C)/70/usuario x= | 0.0 | 19.19 | |
| 166 (C)/73/usuario x= | 0.0 | 21.005 | |
| 166 (C)/76/usuario x= | 0.0 | 26.285 | |
| | | | **113.77** |

**AXILES EN CORONACIÓN DE FILA 5 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU69 | |
| 167 (C)/64/usuario x= | 0.0 | 43.91 | |
| 167 (C)/67/usuario x= | 0.0 | 36.061 | |
| 167 (C)/70/usuario x= | 0.0 | 32.577 | |
| 167 (C)/73/usuario x= | 0.0 | 33.552 | |
| 167 (C)/76/usuario x= | 0.0 | 38.637 | |
| | | | **184.737** |
| Nombre del caso | | ELU610 | |
| 168 (C)/64/usuario x= | 0.0 | 43.953 | |
| 168 (C)/67/usuario x= | 0.0 | 36.142 | |
| 168 (C)/70/usuario x= | 0.0 | 32.673 | |
| 168 (C)/73/usuario x= | 0.0 | 33.634 | |
| 168 (C)/76/usuario x= | 0.0 | 38.681 | |
| | | | **185.083** |
| Nombre del caso | | ELU611 | |
| 169 (C)/64/usuario x= | 0.0 | 26.412 | |
| 169 (C)/67/usuario x= | 0.0 | 20.995 | |
| 169 (C)/70/usuario x= | 0.0 | 19.089 | |
| 169 (C)/73/usuario x= | 0.0 | 20.844 | |
| 169 (C)/76/usuario x= | 0.0 | 26.074 | |
| | | | **113.414** |
| Nombre del caso | | ELU612 | |
| 170 (C)/64/usuario x= | 0.0 | 26.455 | |
| 170 (C)/67/usuario x= | 0.0 | 21.077 | |
| 170 (C)/70/usuario x= | 0.0 | 19.185 | |
| 170 (C)/73/usuario x= | 0.0 | 20.926 | |
| 170 (C)/76/usuario x= | 0.0 | 26.117 | |
| | | 74.468 | **113.76** |
| **MÁXIMO AXIL ELU EN FILA 5** | | | **311.28** |

**AXILES EN CORONACIÓN DE FILA 6 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU01 | |
| 101 (C)/79/usuario x= | 0.0 | 32.768 | |
| 101 (C)/82/usuario x= | 0.0 | 29.938 | |
| 101 (C)/85/usuario x= | 0.0 | 28.961 | |
| 101 (C)/88/usuario x= | 0.0 | 29.938 | |
| 101 (C)/91/usuario x= | 0.0 | 32.768 | |
| | | | **154.373** |
| Nombre del caso | | ELU02 | |
| 102 (C)/79/usuario x= | 0.0 | 33.812 | |
| 102 (C)/82/usuario x= | 0.0 | 26.956 | |
| 102 (C)/85/usuario x= | 0.0 | 24.599 | |
| 102 (C)/88/usuario x= | 0.0 | 26.956 | |
| 102 (C)/91/usuario x= | 0.0 | 33.812 | |
| | | | **146.135** |
| Nombre del caso | | ELU03 | |
| 103 (C)/79/usuario x= | 0.0 | 33.942 | |
| 103 (C)/82/usuario x= | 0.0 | 27.134 | |
| 103 (C)/85/usuario x= | 0.0 | 24.796 | |
| 103 (C)/88/usuario x= | 0.0 | 27.134 | |
| 103 (C)/91/usuario x= | 0.0 | 33.942 | |
| | | | **146.948** |
| Nombre del caso | | ELU04 | |
| 104 (C)/79/usuario x= | 0.0 | 32.821 | |
| 104 (C)/82/usuario x= | 0.0 | 30.011 | |
| 104 (C)/85/usuario x= | 0.0 | 29.041 | |
| 104 (C)/88/usuario x= | 0.0 | 30.011 | |
| 104 (C)/91/usuario x= | 0.0 | 32.821 | |
| | | | **154.705** |
| Nombre del caso | | ELU05 | |
| 105 (C)/79/usuario x= | 0.0 | 33.865 | |
| 105 (C)/82/usuario x= | 0.0 | 27.028 | |
| 105 (C)/85/usuario x= | 0.0 | 24.679 | |
| 105 (C)/88/usuario x= | 0.0 | 27.028 | |
| 105 (C)/91/usuario x= | 0.0 | 33.865 | |
| | | | **146.465** |
| Nombre del caso | | ELU06 | |
| 106 (C)/79/usuario x= | 0.0 | 33.995 | |
| 106 (C)/82/usuario x= | 0.0 | 27.207 | |
| 106 (C)/85/usuario x= | 0.0 | 24.876 | |
| 106 (C)/88/usuario x= | 0.0 | 27.207 | |
| 106 (C)/91/usuario x= | 0.0 | 33.995 | |
| | | | **147.28** |
| Nombre del caso | | ELU11 | |
| 107 (C)/79/usuario x= | 0.0 | 73.373 | |
| 107 (C)/82/usuario x= | 0.0 | 65.444 | |
| 107 (C)/85/usuario x= | 0.0 | 62.621 | |
| 107 (C)/88/usuario x= | 0.0 | 65.444 | |
| 107 (C)/91/usuario x= | 0.0 | 73.373 | |
| | | | **340.255** |
| Nombre del caso | | ELU12 | |
| 108 (C)/79/usuario x= | 0.0 | 79.895 | |
| 108 (C)/82/usuario x= | 0.0 | 68.506 | |
| 108 (C)/85/usuario x= | 0.0 | 62.574 | |
| 108 (C)/88/usuario x= | 0.0 | 62.328 | |
| 108 (C)/91/usuario x= | 0.0 | 67.003 | |
| | | | **340.306** |
| Nombre del caso | | ELU13 | |
| 109 (C)/79/usuario x= | 0.0 | 73.503 | |
| 109 (C)/82/usuario x= | 0.0 | 65.622 | |
| 109 (C)/85/usuario x= | 0.0 | 62.818 | |
| 109 (C)/88/usuario x= | 0.0 | 65.622 | |
| 109 (C)/91/usuario x= | 0.0 | 73.503 | |
| | | | **341.068** |
| Nombre del caso | | ELU14 | |
| 110 (C)/79/usuario x= | 0.0 | 80.026 | |
| 110 (C)/82/usuario x= | 0.0 | 68.684 | |
| 110 (C)/85/usuario x= | 0.0 | 62.771 | |
| 110 (C)/88/usuario x= | 0.0 | 62.506 | |
| 110 (C)/91/usuario x= | 0.0 | 67.134 | |
| | | | **341.121** |
| Nombre del caso | | ELU15 | |
| 111 (C)/79/usuario x= | 0.0 | 82.846 | |
| 111 (C)/82/usuario x= | 0.0 | 76.259 | |
| 111 (C)/85/usuario x= | 0.0 | 73.872 | |
| 111 (C)/88/usuario x= | 0.0 | 76.259 | |
| 111 (C)/91/usuario x= | 0.0 | 82.846 | |
| | | | **392.082** |

**AXILES EN CORONACIÓN DE FILA 6 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU16 | |
| 112 (C)/79/usuario x= | 0.0 | 90.999 | |
| 112 (C)/82/usuario x= | 0.0 | 80.086 | |
| 112 (C)/85/usuario x= | 0.0 | 73.813 | |
| 112 (C)/88/usuario x= | 0.0 | 72.364 | |
| 112 (C)/91/usuario x= | 0.0 | 74.884 | |
| | | | **392.146** |
| Nombre del caso | | ELU17 | |
| 113 (C)/79/usuario x= | 0.0 | 82.924 | |
| 113 (C)/82/usuario x= | 0.0 | 76.366 | |
| 113 (C)/85/usuario x= | 0.0 | 73.99 | |
| 113 (C)/88/usuario x= | 0.0 | 76.366 | |
| 113 (C)/91/usuario x= | 0.0 | 82.924 | |
| | | | **392.57** |
| Nombre del caso | | ELU18 | |
| 114 (C)/79/usuario x= | 0.0 | 91.077 | |
| 114 (C)/82/usuario x= | 0.0 | 80.193 | |
| 114 (C)/85/usuario x= | 0.0 | 73.931 | |
| 114 (C)/88/usuario x= | 0.0 | 72.47 | |
| 114 (C)/91/usuario x= | 0.0 | 74.962 | |
| | | | **392.633** |
| Nombre del caso | | ELU19 | |
| 115 (C)/79/usuario x= | 0.0 | 82.22 | |
| 115 (C)/82/usuario x= | 0.0 | 78.048 | |
| 115 (C)/85/usuario x= | 0.0 | 76.489 | |
| 115 (C)/88/usuario x= | 0.0 | 78.048 | |
| 115 (C)/91/usuario x= | 0.0 | 82.22 | |
| | | | **397.025** |
| Nombre del caso | | ELU20 | |
| 116 (C)/79/usuario x= | 0.0 | 90.373 | |
| 116 (C)/82/usuario x= | 0.0 | 81.875 | |
| 116 (C)/85/usuario x= | 0.0 | 76.43 | |
| 116 (C)/88/usuario x= | 0.0 | 74.153 | |
| 116 (C)/91/usuario x= | 0.0 | 74.258 | |
| | | | **397.089** |
| Nombre del caso | | ELU21 | |
| 117 (C)/79/usuario x= | 0.0 | 73.44 | |
| 117 (C)/82/usuario x= | 0.0 | 65.507 | |
| 117 (C)/85/usuario x= | 0.0 | 62.679 | |
| 117 (C)/88/usuario x= | 0.0 | 65.491 | |
| 117 (C)/91/usuario x= | 0.0 | 73.406 | |
| | | | **340.523** |
| Nombre del caso | | ELU22 | |
| 118 (C)/79/usuario x= | 0.0 | 79.963 | |
| 118 (C)/82/usuario x= | 0.0 | 68.569 | |
| 118 (C)/85/usuario x= | 0.0 | 62.631 | |
| 118 (C)/88/usuario x= | 0.0 | 62.375 | |
| 118 (C)/91/usuario x= | 0.0 | 67.037 | |
| | | | **340.575** |
| Nombre del caso | | ELU23 | |
| 119 (C)/79/usuario x= | 0.0 | 73.571 | |
| 119 (C)/82/usuario x= | 0.0 | 65.685 | |
| 119 (C)/85/usuario x= | 0.0 | 62.876 | |
| 119 (C)/88/usuario x= | 0.0 | 65.669 | |
| 119 (C)/91/usuario x= | 0.0 | 73.537 | |
| | | | **341.338** |
| Nombre del caso | | ELU24 | |
| 120 (C)/79/usuario x= | 0.0 | 80.093 | |
| 120 (C)/82/usuario x= | 0.0 | 68.747 | |
| 120 (C)/85/usuario x= | 0.0 | 62.828 | |
| 120 (C)/88/usuario x= | 0.0 | 62.553 | |
| 120 (C)/91/usuario x= | 0.0 | 67.167 | |
| | | | **341.388** |
| Nombre del caso | | ELU25 | |
| 121 (C)/79/usuario x= | 0.0 | 82.93 | |
| 121 (C)/82/usuario x= | 0.0 | 76.338 | |
| 121 (C)/85/usuario x= | 0.0 | 73.944 | |
| 121 (C)/88/usuario x= | 0.0 | 76.318 | |
| 121 (C)/91/usuario x= | 0.0 | 82.888 | |
| | | | **392.418** |
| Nombre del caso | | ELU26 | |
| 122 (C)/79/usuario x= | 0.0 | 91.083 | |
| 122 (C)/82/usuario x= | 0.0 | 80.165 | |
| 122 (C)/85/usuario x= | 0.0 | 73.885 | |
| 122 (C)/88/usuario x= | 0.0 | 72.423 | |
| 122 (C)/91/usuario x= | 0.0 | 74.925 | |
| | | | **392.481** |

**AXILES EN CORONACIÓN DE FILA 6 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU27 | |
| 123 (C)/79/usuario x= | 0.0 | 83.008 | |
| 123 (C)/82/usuario x= | 0.0 | 76.445 | |
| 123 (C)/85/usuario x= | 0.0 | 74.062 | |
| 123 (C)/88/usuario x= | 0.0 | 76.424 | |
| 123 (C)/91/usuario x= | 0.0 | 82.966 | |
| | | | **392.905** |
| Nombre del caso | | ELU28 | |
| 124 (C)/79/usuario x= | 0.0 | 91.161 | |
| 124 (C)/82/usuario x= | 0.0 | 80.272 | |
| 124 (C)/85/usuario x= | 0.0 | 74.003 | |
| 124 (C)/88/usuario x= | 0.0 | 72.529 | |
| 124 (C)/91/usuario x= | 0.0 | 75.004 | |
| | | | **392.969** |
| Nombre del caso | | ELU29 | |
| 125 (C)/79/usuario x= | 0.0 | 82.304 | |
| 125 (C)/82/usuario x= | 0.0 | 78.127 | |
| 125 (C)/85/usuario x= | 0.0 | 76.561 | |
| 125 (C)/88/usuario x= | 0.0 | 78.107 | |
| 125 (C)/91/usuario x= | 0.0 | 82.262 | |
| | | | **397.361** |
| Nombre del caso | | ELU30 | |
| 126 (C)/79/usuario x= | 0.0 | 90.457 | |
| 126 (C)/82/usuario x= | 0.0 | 81.955 | |
| 126 (C)/85/usuario x= | 0.0 | 76.502 | |
| 126 (C)/88/usuario x= | 0.0 | 74.212 | |
| 126 (C)/91/usuario x= | 0.0 | 74.299 | |
| | | | **397.425** |
| Nombre del caso | | ELU31 | |
| 127 (C)/79/usuario x= | 0.0 | 73.426 | |
| 127 (C)/82/usuario x= | 0.0 | 65.516 | |
| 127 (C)/85/usuario x= | 0.0 | 62.701 | |
| 127 (C)/88/usuario x= | 0.0 | 65.516 | |
| 127 (C)/91/usuario x= | 0.0 | 73.426 | |
| | | | **340.585** |
| Nombre del caso | | ELU32 | |
| 128 (C)/79/usuario x= | 0.0 | 79.948 | |
| 128 (C)/82/usuario x= | 0.0 | 68.578 | |
| 128 (C)/85/usuario x= | 0.0 | 62.654 | |
| 128 (C)/88/usuario x= | 0.0 | 62.4 | |
| 128 (C)/91/usuario x= | 0.0 | 67.056 | |
| | | | **340.636** |
| Nombre del caso | | ELU33 | |
| 129 (C)/79/usuario x= | 0.0 | 73.556 | |
| 129 (C)/82/usuario x= | 0.0 | 65.694 | |
| 129 (C)/85/usuario x= | 0.0 | 62.898 | |
| 129 (C)/88/usuario x= | 0.0 | 65.694 | |
| 129 (C)/91/usuario x= | 0.0 | 73.556 | |
| | | | **341.398** |
| Nombre del caso | | ELU34 | |
| 130 (C)/79/usuario x= | 0.0 | 80.079 | |
| 130 (C)/82/usuario x= | 0.0 | 68.756 | |
| 130 (C)/85/usuario x= | 0.0 | 62.851 | |
| 130 (C)/88/usuario x= | 0.0 | 62.578 | |
| 130 (C)/91/usuario x= | 0.0 | 67.187 | |
| | | | **341.451** |
| Nombre del caso | | ELU35 | |
| 131 (C)/79/usuario x= | 0.0 | 82.899 | |
| 131 (C)/82/usuario x= | 0.0 | 76.331 | |
| 131 (C)/85/usuario x= | 0.0 | 73.952 | |
| 131 (C)/88/usuario x= | 0.0 | 76.331 | |
| 131 (C)/91/usuario x= | 0.0 | 82.899 | |
| | | | **392.412** |
| Nombre del caso | | ELU36 | |
| 132 (C)/79/usuario x= | 0.0 | 91.052 | |
| 132 (C)/82/usuario x= | 0.0 | 80.158 | |
| 132 (C)/85/usuario x= | 0.0 | 73.893 | |
| 132 (C)/88/usuario x= | 0.0 | 72.436 | |
| 132 (C)/91/usuario x= | 0.0 | 74.937 | |
| | | | **392.476** |
| Nombre del caso | | ELU37 | |
| 133 (C)/79/usuario x= | 0.0 | 82.977 | |
| 133 (C)/82/usuario x= | 0.0 | 76.438 | |
| 133 (C)/85/usuario x= | 0.0 | 74.07 | |
| 133 (C)/88/usuario x= | 0.0 | 76.438 | |
| 133 (C)/91/usuario x= | 0.0 | 82.977 | |
| | | | **392.9** |

**AXILES EN CORONACIÓN DE FILA 6 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU38 | |
| 134 (C)/79/usuario x= | 0.0 | 91.13 | |
| 134 (C)/82/usuario x= | 0.0 | 80.265 | |
| 134 (C)/85/usuario x= | 0.0 | 74.011 | |
| 134 (C)/88/usuario x= | 0.0 | 72.543 | |
| 134 (C)/91/usuario x= | 0.0 | 75.015 | |
| | | | **392.964** |
| Nombre del caso | | ELU39 | |
| 135 (C)/79/usuario x= | 0.0 | 82.273 | |
| 135 (C)/82/usuario x= | 0.0 | 78.121 | |
| 135 (C)/85/usuario x= | 0.0 | 76.569 | |
| 135 (C)/88/usuario x= | 0.0 | 78.121 | |
| 135 (C)/91/usuario x= | 0.0 | 82.273 | |
| | | | **397.357** |
| Nombre del caso | | ELU40 | |
| 136 (C)/79/usuario x= | 0.0 | 90.426 | |
| 136 (C)/82/usuario x= | 0.0 | 81.948 | |
| 136 (C)/85/usuario x= | 0.0 | 76.51 | |
| 136 (C)/88/usuario x= | 0.0 | 74.225 | |
| 136 (C)/91/usuario x= | 0.0 | 74.311 | |
| | | | **397.42** |
| Nombre del caso | | ELU41 | |
| 137 (C)/79/usuario x= | 0.0 | 73.493 | |
| 137 (C)/82/usuario x= | 0.0 | 65.58 | |
| 137 (C)/85/usuario x= | 0.0 | 62.759 | |
| 137 (C)/88/usuario x= | 0.0 | 65.563 | |
| 137 (C)/91/usuario x= | 0.0 | 73.46 | |
| | | | **340.855** |
| Nombre del caso | | ELU42 | |
| 138 (C)/79/usuario x= | 0.0 | 80.016 | |
| 138 (C)/82/usuario x= | 0.0 | 68.642 | |
| 138 (C)/85/usuario x= | 0.0 | 62.712 | |
| 138 (C)/88/usuario x= | 0.0 | 62.447 | |
| 138 (C)/91/usuario x= | 0.0 | 67.09 | |
| | | | **340.907** |
| Nombre del caso | | ELU43 | |
| 139 (C)/79/usuario x= | 0.0 | 73.624 | |
| 139 (C)/82/usuario x= | 0.0 | 65.758 | |
| 139 (C)/85/usuario x= | 0.0 | 62.956 | |
| 139 (C)/88/usuario x= | 0.0 | 65.742 | |
| 139 (C)/91/usuario x= | 0.0 | 73.59 | |
| | | | **341.67** |
| Nombre del caso | | ELU44 | |
| 140 (C)/79/usuario x= | 0.0 | 80.146 | |
| 140 (C)/82/usuario x= | 0.0 | 68.82 | |
| 140 (C)/85/usuario x= | 0.0 | 62.908 | |
| 140 (C)/88/usuario x= | 0.0 | 62.625 | |
| 140 (C)/91/usuario x= | 0.0 | 67.22 | |
| | | | **341.719** |
| Nombre del caso | | ELU45 | |
| 141 (C)/79/usuario x= | 0.0 | 82.983 | |
| 141 (C)/82/usuario x= | 0.0 | 76.411 | |
| 141 (C)/85/usuario x= | 0.0 | 74.024 | |
| 141 (C)/88/usuario x= | 0.0 | 76.39 | |
| 141 (C)/91/usuario x= | 0.0 | 82.941 | |
| | | | **392.749** |
| Nombre del caso | | ELU46 | |
| 142 (C)/79/usuario x= | 0.0 | 91.136 | |
| 142 (C)/82/usuario x= | 0.0 | 80.238 | |
| 142 (C)/85/usuario x= | 0.0 | 73.965 | |
| 142 (C)/88/usuario x= | 0.0 | 72.495 | |
| 142 (C)/91/usuario x= | 0.0 | 74.979 | |
| | | | **392.813** |
| Nombre del caso | | ELU47 | |
| 143 (C)/79/usuario x= | 0.0 | 83.061 | |
| 143 (C)/82/usuario x= | 0.0 | 76.517 | |
| 143 (C)/85/usuario x= | 0.0 | 74.142 | |
| 143 (C)/88/usuario x= | 0.0 | 76.497 | |
| 143 (C)/91/usuario x= | 0.0 | 83.019 | |
| | | | **393.236** |
| Nombre del caso | | ELU48 | |
| 144 (C)/79/usuario x= | 0.0 | 91.214 | |
| 144 (C)/82/usuario x= | 0.0 | 80.345 | |
| 144 (C)/85/usuario x= | 0.0 | 74.083 | |
| 144 (C)/88/usuario x= | 0.0 | 72.602 | |
| 144 (C)/91/usuario x= | 0.0 | 75.057 | |
| | | | **393.301** |

**AXILES EN CORONACIÓN DE FILA 6 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU49 | |
| 145 (C)/79/usuario x= | 0.0 | 82.357 | |
| 145 (C)/82/usuario x= | 0.0 | 78.2 | |
| 145 (C)/85/usuario x= | 0.0 | 76.641 | |
| 145 (C)/88/usuario x= | 0.0 | 78.179 | |
| 145 (C)/91/usuario x= | 0.0 | 82.315 | |
| | | | **397.692** |
| Nombre del caso | | ELU50 | |
| 146 (C)/79/usuario x= | 0.0 | 90.51 | |
| 146 (C)/82/usuario x= | 0.0 | 82.027 | |
| 146 (C)/85/usuario x= | 0.0 | 76.582 | |
| 146 (C)/88/usuario x= | 0.0 | 74.284 | |
| 146 (C)/91/usuario x= | 0.0 | 74.352 | |
| | | | **397.755** |
| Nombre del caso | | ELU51 | |
| 147 (C)/79/usuario x= | 0.0 | 71.05 | |
| 147 (C)/82/usuario x= | 0.0 | 66.96 | |
| 147 (C)/85/usuario x= | 0.0 | 65.565 | |
| 147 (C)/88/usuario x= | 0.0 | 66.96 | |
| 147 (C)/91/usuario x= | 0.0 | 71.05 | |
| | | | **341.585** |
| Nombre del caso | | ELU52 | |
| 148 (C)/79/usuario x= | 0.0 | 32.435 | |
| 148 (C)/82/usuario x= | 0.0 | 29.665 | |
| 148 (C)/85/usuario x= | 0.0 | 28.711 | |
| 148 (C)/88/usuario x= | 0.0 | 29.665 | |
| 148 (C)/91/usuario x= | 0.0 | 32.435 | |
| | | | **152.911** |
| Nombre del caso | | ELU53 | |
| 149 (C)/79/usuario x= | 0.0 | 75.535 | |
| 149 (C)/82/usuario x= | 0.0 | 69.103 | |
| 149 (C)/85/usuario x= | 0.0 | 65.535 | |
| 149 (C)/88/usuario x= | 0.0 | 64.789 | |
| 149 (C)/91/usuario x= | 0.0 | 66.664 | |
| | | | **341.626** |
| Nombre del caso | | ELU54 | |
| 150 (C)/79/usuario x= | 0.0 | 32.51 | |
| 150 (C)/82/usuario x= | 0.0 | 29.698 | |
| 150 (C)/85/usuario x= | 0.0 | 28.709 | |
| 150 (C)/88/usuario x= | 0.0 | 29.63 | |
| 150 (C)/91/usuario x= | 0.0 | 32.36 | |
| | | | **152.907** |
| Nombre del caso | | ELU55 | |
| 151 (C)/79/usuario x= | 0.0 | 71.676 | |
| 151 (C)/82/usuario x= | 0.0 | 65.171 | |
| 151 (C)/85/usuario x= | 0.0 | 62.948 | |
| 151 (C)/88/usuario x= | 0.0 | 65.171 | |
| 151 (C)/91/usuario x= | 0.0 | 71.676 | |
| | | | **336.642** |
| Nombre del caso | | ELU56 | |
| 152 (C)/79/usuario x= | 0.0 | 71.755 | |
| 152 (C)/82/usuario x= | 0.0 | 65.278 | |
| 152 (C)/85/usuario x= | 0.0 | 63.066 | |
| 152 (C)/88/usuario x= | 0.0 | 65.278 | |
| 152 (C)/91/usuario x= | 0.0 | 71.755 | |
| | | | **337.132** |
| Nombre del caso | | ELU57 | |
| 153 (C)/79/usuario x= | 0.0 | 33.061 | |
| 153 (C)/82/usuario x= | 0.0 | 27.876 | |
| 153 (C)/85/usuario x= | 0.0 | 26.094 | |
| 153 (C)/88/usuario x= | 0.0 | 27.876 | |
| 153 (C)/91/usuario x= | 0.0 | 33.061 | |
| | | | **147.968** |
| Nombre del caso | | ELU58 | |
| 154 (C)/79/usuario x= | 0.0 | 33.139 | |
| 154 (C)/82/usuario x= | 0.0 | 27.983 | |
| 154 (C)/85/usuario x= | 0.0 | 26.212 | |
| 154 (C)/88/usuario x= | 0.0 | 27.983 | |
| 154 (C)/91/usuario x= | 0.0 | 33.139 | |
| | | | **148.456** |
| Nombre del caso | | ELU59 | |
| 155 (C)/79/usuario x= | 0.0 | 76.161 | |
| 155 (C)/82/usuario x= | 0.0 | 67.314 | |
| 155 (C)/85/usuario x= | 0.0 | 62.918 | |
| 155 (C)/88/usuario x= | 0.0 | 63 | |
| 155 (C)/91/usuario x= | 0.0 | 67.29 | |
| | | | **336.683** |

**AXILES EN CORONACIÓN DE FILA 6 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU510 | |
| 156 (C)/79/usuario x= | 0.0 | 76.239 | |
| 156 (C)/82/usuario x= | 0.0 | 67.42 | |
| 156 (C)/85/usuario x= | 0.0 | 63.036 | |
| 156 (C)/88/usuario x= | 0.0 | 63.106 | |
| 156 (C)/91/usuario x= | 0.0 | 67.368 | |
| | | | **337.169** |
| Nombre del caso | | ELU511 | |
| 157 (C)/79/usuario x= | 0.0 | 33.136 | |
| 157 (C)/82/usuario x= | 0.0 | 27.908 | |
| 157 (C)/85/usuario x= | 0.0 | 26.091 | |
| 157 (C)/88/usuario x= | 0.0 | 27.841 | |
| 157 (C)/91/usuario x= | 0.0 | 32.986 | |
| | | | **147.962** |
| Nombre del caso | | ELU512 | |
| 158 (C)/79/usuario x= | 0.0 | 33.214 | |
| 158 (C)/82/usuario x= | 0.0 | 28.015 | |
| 158 (C)/85/usuario x= | 0.0 | 26.21 | |
| 158 (C)/88/usuario x= | 0.0 | 27.947 | |
| 158 (C)/91/usuario x= | 0.0 | 33.064 | |
| | | | **148.45** |
| Nombre del caso | | ELU61 | |
| 159 (C)/79/usuario x= | 0.0 | 71.103 | |
| 159 (C)/82/usuario x= | 0.0 | 67.033 | |
| 159 (C)/85/usuario x= | 0.0 | 65.645 | |
| 159 (C)/88/usuario x= | 0.0 | 67.033 | |
| 159 (C)/91/usuario x= | 0.0 | 71.103 | |
| | | | **341.917** |
| Nombre del caso | | ELU62 | |
| 160 (C)/79/usuario x= | 0.0 | 32.488 | |
| 160 (C)/82/usuario x= | 0.0 | 29.738 | |
| 160 (C)/85/usuario x= | 0.0 | 28.791 | |
| 160 (C)/88/usuario x= | 0.0 | 29.738 | |
| 160 (C)/91/usuario x= | 0.0 | 32.488 | |
| | | | **153.243** |
| Nombre del caso | | ELU63 | |
| 161 (C)/79/usuario x= | 0.0 | 75.588 | |
| 161 (C)/82/usuario x= | 0.0 | 69.175 | |
| 161 (C)/85/usuario x= | 0.0 | 65.616 | |
| 161 (C)/88/usuario x= | 0.0 | 64.861 | |
| 161 (C)/91/usuario x= | 0.0 | 66.717 | |
| | | | **341.957** |
| Nombre del caso | | ELU64 | |
| 162 (C)/79/usuario x= | 0.0 | 32.563 | |
| 162 (C)/82/usuario x= | 0.0 | 29.77 | |
| 162 (C)/85/usuario x= | 0.0 | 28.789 | |
| 162 (C)/88/usuario x= | 0.0 | 29.702 | |
| 162 (C)/91/usuario x= | 0.0 | 32.413 | |
| | | | **153.237** |
| Nombre del caso | | ELU65 | |
| 163 (C)/79/usuario x= | 0.0 | 71.73 | |
| 163 (C)/82/usuario x= | 0.0 | 65.243 | |
| 163 (C)/85/usuario x= | 0.0 | 63.028 | |
| 163 (C)/88/usuario x= | 0.0 | 65.243 | |
| 163 (C)/91/usuario x= | 0.0 | 71.73 | |
| | | | **336.974** |
| Nombre del caso | | ELU66 | |
| 164 (C)/79/usuario x= | 0.0 | 71.808 | |
| 164 (C)/82/usuario x= | 0.0 | 65.35 | |
| 164 (C)/85/usuario x= | 0.0 | 63.146 | |
| 164 (C)/88/usuario x= | 0.0 | 65.35 | |
| 164 (C)/91/usuario x= | 0.0 | 71.808 | |
| | | | **337.462** |
| Nombre del caso | | ELU67 | |
| 165 (C)/79/usuario x= | 0.0 | 33.114 | |
| 165 (C)/82/usuario x= | 0.0 | 27.949 | |
| 165 (C)/85/usuario x= | 0.0 | 26.174 | |
| 165 (C)/88/usuario x= | 0.0 | 27.949 | |
| 165 (C)/91/usuario x= | 0.0 | 33.114 | |
| | | | **148.3** |
| Nombre del caso | | ELU68 | |
| 166 (C)/79/usuario x= | 0.0 | 33.192 | |
| 166 (C)/82/usuario x= | 0.0 | 28.055 | |
| 166 (C)/85/usuario x= | 0.0 | 26.292 | |
| 166 (C)/88/usuario x= | 0.0 | 28.055 | |
| 166 (C)/91/usuario x= | 0.0 | 33.192 | |
| | | | **148.786** |

**AXILES EN CORONACIÓN DE FILA 6 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU69 | |
| 167 (C)/79/usuario x= | 0.0 | 76.214 | |
| 167 (C)/82/usuario x= | 0.0 | 67.386 | |
| 167 (C)/85/usuario x= | 0.0 | 62.998 | |
| 167 (C)/88/usuario x= | 0.0 | 63.072 | |
| 167 (C)/91/usuario x= | 0.0 | 67.343 | |
| | | | **337.013** |
| Nombre del caso | | ELU610 | |
| 168 (C)/79/usuario x= | 0.0 | 76.292 | |
| 168 (C)/82/usuario x= | 0.0 | 67.493 | |
| 168 (C)/85/usuario x= | 0.0 | 63.116 | |
| 168 (C)/88/usuario x= | 0.0 | 63.179 | |
| 168 (C)/91/usuario x= | 0.0 | 67.421 | |
| | | | **337.501** |
| Nombre del caso | | ELU611 | |
| 169 (C)/79/usuario x= | 0.0 | 33.189 | |
| 169 (C)/82/usuario x= | 0.0 | 27.981 | |
| 169 (C)/85/usuario x= | 0.0 | 26.172 | |
| 169 (C)/88/usuario x= | 0.0 | 27.913 | |
| 169 (C)/91/usuario x= | 0.0 | 33.039 | |
| | | | **148.294** |
| Nombre del caso | | ELU612 | |
| 170 (C)/79/usuario x= | 0.0 | 33.267 | |
| 170 (C)/82/usuario x= | 0.0 | 28.088 | |
| 170 (C)/85/usuario x= | 0.0 | 26.29 | |
| 170 (C)/88/usuario x= | 0.0 | 28.02 | |
| 170 (C)/91/usuario x= | 0.0 | 33.117 | |
| | | 91.214 | **148.782** |
| **MÁXIMO AXIL ELU EN FILA 6** | | | **397.755** |

**AXILES EN CORONACIÓN DE FILA 7 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | FX (T) | ΣFX (T) |
|---|---|---|
| Nombre del caso | ELU01 | |
| 101 (C)/94/usuario x= 0.0 | 29.031 | |
| 101 (C)/97/usuario x= 0.0 | 26.405 | |
| 101 (C)/100/usuario x= 0.0 | 25.522 | |
| 101 (C)/103/usuario x= 0.0 | 26.405 | |
| 101 (C)/106/usuario x= 0.0 | 29.031 | |
| | | **136.394** |
| Nombre del caso | ELU02 | |
| 102 (C)/94/usuario x= 0.0 | 28.749 | |
| 102 (C)/97/usuario x= 0.0 | 22.482 | |
| 102 (C)/100/usuario x= 0.0 | 20.36 | |
| 102 (C)/103/usuario x= 0.0 | 22.482 | |
| 102 (C)/106/usuario x= 0.0 | 28.749 | |
| | | **122.822** |
| Nombre del caso | ELU03 | |
| 103 (C)/94/usuario x= 0.0 | 28.921 | |
| 103 (C)/97/usuario x= 0.0 | 22.693 | |
| 103 (C)/100/usuario x= 0.0 | 20.587 | |
| 103 (C)/103/usuario x= 0.0 | 22.693 | |
| 103 (C)/106/usuario x= 0.0 | 28.921 | |
| | | **123.815** |
| Nombre del caso | ELU04 | |
| 104 (C)/94/usuario x= 0.0 | 29.101 | |
| 104 (C)/97/usuario x= 0.0 | 26.491 | |
| 104 (C)/100/usuario x= 0.0 | 25.614 | |
| 104 (C)/103/usuario x= 0.0 | 26.491 | |
| 104 (C)/106/usuario x= 0.0 | 29.101 | |
| | | **136.798** |
| Nombre del caso | ELU05 | |
| 105 (C)/94/usuario x= 0.0 | 28.819 | |
| 105 (C)/97/usuario x= 0.0 | 22.568 | |
| 105 (C)/100/usuario x= 0.0 | 20.452 | |
| 105 (C)/103/usuario x= 0.0 | 22.568 | |
| 105 (C)/106/usuario x= 0.0 | 28.819 | |
| | | **123.226** |
| Nombre del caso | ELU06 | |
| 106 (C)/94/usuario x= 0.0 | 28.991 | |
| 106 (C)/97/usuario x= 0.0 | 22.78 | |
| 106 (C)/100/usuario x= 0.0 | 20.68 | |
| 106 (C)/103/usuario x= 0.0 | 22.78 | |
| 106 (C)/106/usuario x= 0.0 | 28.991 | |
| | | **124.222** |
| Nombre del caso | ELU11 | |
| 107 (C)/94/usuario x= 0.0 | 65.103 | |
| 107 (C)/97/usuario x= 0.0 | 57.849 | |
| 107 (C)/100/usuario x= 0.0 | 55.301 | |
| 107 (C)/103/usuario x= 0.0 | 57.849 | |
| 107 (C)/106/usuario x= 0.0 | 65.103 | |
| | | **301.205** |
| Nombre del caso | ELU12 | |
| 108 (C)/94/usuario x= 0.0 | 70.809 | |
| 108 (C)/97/usuario x= 0.0 | 60.487 | |
| 108 (C)/100/usuario x= 0.0 | 55.258 | |
| 108 (C)/103/usuario x= 0.0 | 55.157 | |
| 108 (C)/106/usuario x= 0.0 | 59.539 | |
| | | **301.25** |
| Nombre del caso | ELU13 | |
| 109 (C)/94/usuario x= 0.0 | 65.275 | |
| 109 (C)/97/usuario x= 0.0 | 58.06 | |
| 109 (C)/100/usuario x= 0.0 | 55.529 | |
| 109 (C)/103/usuario x= 0.0 | 58.06 | |
| 109 (C)/106/usuario x= 0.0 | 65.275 | |
| | | **302.199** |
| Nombre del caso | ELU14 | |
| 110 (C)/94/usuario x= 0.0 | 70.981 | |
| 110 (C)/97/usuario x= 0.0 | 60.699 | |
| 110 (C)/100/usuario x= 0.0 | 55.485 | |
| 110 (C)/103/usuario x= 0.0 | 55.368 | |
| 110 (C)/106/usuario x= 0.0 | 59.711 | |
| | | **302.244** |
| Nombre del caso | ELU15 | |
| 111 (C)/94/usuario x= 0.0 | 74.304 | |
| 111 (C)/97/usuario x= 0.0 | 68.26 | |
| 111 (C)/100/usuario x= 0.0 | 66.102 | |
| 111 (C)/103/usuario x= 0.0 | 68.26 | |
| 111 (C)/106/usuario x= 0.0 | 74.304 | |
| | | **351.23** |

**AXILES EN CORONACIÓN DE FILA 7 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | FX (T) | ΣFX (T) |
|---|---|---|
| Nombre del caso | ELU16 | |
| 112 (C)/94/usuario x= 0.0 | 81.436 | |
| 112 (C)/97/usuario x= 0.0 | 71.558 | |
| 112 (C)/100/usuario x= 0.0 | 66.047 | |
| 112 (C)/103/usuario x= 0.0 | 64.895 | |
| 112 (C)/106/usuario x= 0.0 | 67.349 | |
| | | **351.285** |
| Nombre del caso | ELU17 | |
| 113 (C)/94/usuario x= 0.0 | 74.407 | |
| 113 (C)/97/usuario x= 0.0 | 68.387 | |
| 113 (C)/100/usuario x= 0.0 | 66.238 | |
| 113 (C)/103/usuario x= 0.0 | 68.387 | |
| 113 (C)/106/usuario x= 0.0 | 74.407 | |
| | | **351.826** |
| Nombre del caso | ELU18 | |
| 114 (C)/94/usuario x= 0.0 | 81.54 | |
| 114 (C)/97/usuario x= 0.0 | 71.685 | |
| 114 (C)/100/usuario x= 0.0 | 66.183 | |
| 114 (C)/103/usuario x= 0.0 | 65.021 | |
| 114 (C)/106/usuario x= 0.0 | 67.453 | |
| | | **351.882** |
| Nombre del caso | ELU19 | |
| 115 (C)/94/usuario x= 0.0 | 74.473 | |
| 115 (C)/97/usuario x= 0.0 | 70.614 | |
| 115 (C)/100/usuario x= 0.0 | 69.199 | |
| 115 (C)/103/usuario x= 0.0 | 70.614 | |
| 115 (C)/106/usuario x= 0.0 | 74.473 | |
| | | **359.373** |
| Nombre del caso | ELU20 | |
| 116 (C)/94/usuario x= 0.0 | 81.606 | |
| 116 (C)/97/usuario x= 0.0 | 73.912 | |
| 116 (C)/100/usuario x= 0.0 | 69.144 | |
| 116 (C)/103/usuario x= 0.0 | 67.248 | |
| 116 (C)/106/usuario x= 0.0 | 67.519 | |
| | | **359.429** |
| Nombre del caso | ELU21 | |
| 117 (C)/94/usuario x= 0.0 | 65.076 | |
| 117 (C)/97/usuario x= 0.0 | 57.813 | |
| 117 (C)/100/usuario x= 0.0 | 55.252 | |
| 117 (C)/103/usuario x= 0.0 | 57.781 | |
| 117 (C)/106/usuario x= 0.0 | 65.009 | |
| | | **300.931** |
| Nombre del caso | ELU22 | |
| 118 (C)/94/usuario x= 0.0 | 70.782 | |
| 118 (C)/97/usuario x= 0.0 | 60.451 | |
| 118 (C)/100/usuario x= 0.0 | 55.208 | |
| 118 (C)/103/usuario x= 0.0 | 55.089 | |
| 118 (C)/106/usuario x= 0.0 | 59.445 | |
| | | **300.975** |
| Nombre del caso | ELU23 | |
| 119 (C)/94/usuario x= 0.0 | 65.248 | |
| 119 (C)/97/usuario x= 0.0 | 58.024 | |
| 119 (C)/100/usuario x= 0.0 | 55.479 | |
| 119 (C)/103/usuario x= 0.0 | 57.992 | |
| 119 (C)/106/usuario x= 0.0 | 65.181 | |
| | | **301.924** |
| Nombre del caso | ELU24 | |
| 120 (C)/94/usuario x= 0.0 | 70.954 | |
| 120 (C)/97/usuario x= 0.0 | 60.663 | |
| 120 (C)/100/usuario x= 0.0 | 55.436 | |
| 120 (C)/103/usuario x= 0.0 | 55.3 | |
| 120 (C)/106/usuario x= 0.0 | 59.617 | |
| | | **301.97** |
| Nombre del caso | ELU25 | |
| 121 (C)/94/usuario x= 0.0 | 74.271 | |
| 121 (C)/97/usuario x= 0.0 | 68.215 | |
| 121 (C)/100/usuario x= 0.0 | 66.04 | |
| 121 (C)/103/usuario x= 0.0 | 68.175 | |
| 121 (C)/106/usuario x= 0.0 | 74.186 | |
| | | **350.887** |
| Nombre del caso | ELU26 | |
| 122 (C)/94/usuario x= 0.0 | 81.403 | |
| 122 (C)/97/usuario x= 0.0 | 71.513 | |
| 122 (C)/100/usuario x= 0.0 | 65.985 | |
| 122 (C)/103/usuario x= 0.0 | 64.809 | |
| 122 (C)/106/usuario x= 0.0 | 67.232 | |
| | | **350.942** |

**AXILES EN CORONACIÓN DE FILA 7 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | FX (T) | ΣFX (T) |
|---|---|---|
| Nombre del caso | ELU27 | |
| 123 (C)/94/usuario x= 0.0 | 74.374 | |
| 123 (C)/97/usuario x= 0.0 | 68.342 | |
| 123 (C)/100/usuario x= 0.0 | 66.176 | |
| 123 (C)/103/usuario x= 0.0 | 68.302 | |
| 123 (C)/106/usuario x= 0.0 | 74.29 | |
| | | **351.484** |
| Nombre del caso | ELU28 | |
| 124 (C)/94/usuario x= 0.0 | 81.506 | |
| 124 (C)/97/usuario x= 0.0 | 71.64 | |
| 124 (C)/100/usuario x= 0.0 | 66.121 | |
| 124 (C)/103/usuario x= 0.0 | 64.936 | |
| 124 (C)/106/usuario x= 0.0 | 67.335 | |
| | | **351.538** |
| Nombre del caso | ELU29 | |
| 125 (C)/94/usuario x= 0.0 | 74.44 | |
| 125 (C)/97/usuario x= 0.0 | 70.569 | |
| 125 (C)/100/usuario x= 0.0 | 69.137 | |
| 125 (C)/103/usuario x= 0.0 | 70.528 | |
| 125 (C)/106/usuario x= 0.0 | 74.356 | |
| | | **359.03** |
| Nombre del caso | ELU30 | |
| 126 (C)/94/usuario x= 0.0 | 81.572 | |
| 126 (C)/97/usuario x= 0.0 | 73.867 | |
| 126 (C)/100/usuario x= 0.0 | 69.082 | |
| 126 (C)/103/usuario x= 0.0 | 67.163 | |
| 126 (C)/106/usuario x= 0.0 | 67.401 | |
| | | **359.085** |
| Nombre del caso | ELU31 | |
| 127 (C)/94/usuario x= 0.0 | 65.173 | |
| 127 (C)/97/usuario x= 0.0 | 57.935 | |
| 127 (C)/100/usuario x= 0.0 | 55.394 | |
| 127 (C)/103/usuario x= 0.0 | 57.935 | |
| 127 (C)/106/usuario x= 0.0 | 65.173 | |
| | | **301.61** |
| Nombre del caso | ELU32 | |
| 128 (C)/94/usuario x= 0.0 | 70.879 | |
| 128 (C)/97/usuario x= 0.0 | 60.573 | |
| 128 (C)/100/usuario x= 0.0 | 55.35 | |
| 128 (C)/103/usuario x= 0.0 | 55.243 | |
| 128 (C)/106/usuario x= 0.0 | 59.609 | |
| | | **301.654** |
| Nombre del caso | ELU33 | |
| 129 (C)/94/usuario x= 0.0 | 65.345 | |
| 129 (C)/97/usuario x= 0.0 | 58.147 | |
| 129 (C)/100/usuario x= 0.0 | 55.622 | |
| 129 (C)/103/usuario x= 0.0 | 58.147 | |
| 129 (C)/106/usuario x= 0.0 | 65.345 | |
| | | **302.606** |
| Nombre del caso | ELU34 | |
| 130 (C)/94/usuario x= 0.0 | 71.051 | |
| 130 (C)/97/usuario x= 0.0 | 60.785 | |
| 130 (C)/100/usuario x= 0.0 | 55.578 | |
| 130 (C)/103/usuario x= 0.0 | 55.454 | |
| 130 (C)/106/usuario x= 0.0 | 59.781 | |
| | | **302.649** |
| Nombre del caso | ELU35 | |
| 131 (C)/94/usuario x= 0.0 | 74.374 | |
| 131 (C)/97/usuario x= 0.0 | 68.346 | |
| 131 (C)/100/usuario x= 0.0 | 66.194 | |
| 131 (C)/103/usuario x= 0.0 | 68.346 | |
| 131 (C)/106/usuario x= 0.0 | 74.374 | |
| | | **351.634** |
| Nombre del caso | ELU36 | |
| 132 (C)/94/usuario x= 0.0 | 81.506 | |
| 132 (C)/97/usuario x= 0.0 | 71.644 | |
| 132 (C)/100/usuario x= 0.0 | 66.139 | |
| 132 (C)/103/usuario x= 0.0 | 64.981 | |
| 132 (C)/106/usuario x= 0.0 | 67.419 | |
| | | **351.689** |
| Nombre del caso | ELU37 | |
| 133 (C)/94/usuario x= 0.0 | 74.477 | |
| 133 (C)/97/usuario x= 0.0 | 68.473 | |
| 133 (C)/100/usuario x= 0.0 | 66.331 | |
| 133 (C)/103/usuario x= 0.0 | 68.473 | |
| 133 (C)/106/usuario x= 0.0 | 74.477 | |
| | | **352.231** |

**AXILES EN CORONACIÓN DE FILA 7 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | FX (T) | ΣFX (T) |
|---|---|---|
| Nombre del caso | ELU38 | |
| 134 (C)/94/usuario x= 0.0 | 81.61 | |
| 134 (C)/97/usuario x= 0.0 | 71.771 | |
| 134 (C)/100/usuario x= 0.0 | 66.276 | |
| 134 (C)/103/usuario x= 0.0 | 65.107 | |
| 134 (C)/106/usuario x= 0.0 | 67.523 | |
| | | **352.287** |
| Nombre del caso | ELU39 | |
| 135 (C)/94/usuario x= 0.0 | 74.543 | |
| 135 (C)/97/usuario x= 0.0 | 70.7 | |
| 135 (C)/100/usuario x= 0.0 | 69.291 | |
| 135 (C)/103/usuario x= 0.0 | 70.7 | |
| 135 (C)/106/usuario x= 0.0 | 74.543 | |
| | | **359.777** |
| Nombre del caso | ELU40 | |
| 136 (C)/94/usuario x= 0.0 | 81.676 | |
| 136 (C)/97/usuario x= 0.0 | 73.998 | |
| 136 (C)/100/usuario x= 0.0 | 69.237 | |
| 136 (C)/103/usuario x= 0.0 | 67.334 | |
| 136 (C)/106/usuario x= 0.0 | 67.589 | |
| | | **359.834** |
| Nombre del caso | ELU41 | |
| 137 (C)/94/usuario x= 0.0 | 65.146 | |
| 137 (C)/97/usuario x= 0.0 | 57.899 | |
| 137 (C)/100/usuario x= 0.0 | 55.345 | |
| 137 (C)/103/usuario x= 0.0 | 57.867 | |
| 137 (C)/106/usuario x= 0.0 | 65.079 | |
| | | **301.336** |
| Nombre del caso | ELU42 | |
| 138 (C)/94/usuario x= 0.0 | 70.852 | |
| 138 (C)/97/usuario x= 0.0 | 60.537 | |
| 138 (C)/100/usuario x= 0.0 | 55.301 | |
| 138 (C)/103/usuario x= 0.0 | 55.175 | |
| 138 (C)/106/usuario x= 0.0 | 59.515 | |
| | | **301.38** |
| Nombre del caso | ELU43 | |
| 139 (C)/94/usuario x= 0.0 | 65.318 | |
| 139 (C)/97/usuario x= 0.0 | 58.11 | |
| 139 (C)/100/usuario x= 0.0 | 55.572 | |
| 139 (C)/103/usuario x= 0.0 | 58.078 | |
| 139 (C)/106/usuario x= 0.0 | 65.251 | |
| | | **302.329** |
| Nombre del caso | ELU44 | |
| 140 (C)/94/usuario x= 0.0 | 71.024 | |
| 140 (C)/97/usuario x= 0.0 | 60.749 | |
| 140 (C)/100/usuario x= 0.0 | 55.528 | |
| 140 (C)/103/usuario x= 0.0 | 55.386 | |
| 140 (C)/106/usuario x= 0.0 | 59.687 | |
| | | **302.374** |
| Nombre del caso | ELU45 | |
| 141 (C)/94/usuario x= 0.0 | 74.341 | |
| 141 (C)/97/usuario x= 0.0 | 68.301 | |
| 141 (C)/100/usuario x= 0.0 | 66.133 | |
| 141 (C)/103/usuario x= 0.0 | 68.261 | |
| 141 (C)/106/usuario x= 0.0 | 74.256 | |
| | | **351.292** |
| Nombre del caso | ELU46 | |
| 142 (C)/94/usuario x= 0.0 | 81.473 | |
| 142 (C)/97/usuario x= 0.0 | 71.599 | |
| 142 (C)/100/usuario x= 0.0 | 66.078 | |
| 142 (C)/103/usuario x= 0.0 | 64.895 | |
| 142 (C)/106/usuario x= 0.0 | 67.302 | |
| | | **351.347** |
| Nombre del caso | ELU47 | |
| 143 (C)/94/usuario x= 0.0 | 74.444 | |
| 143 (C)/97/usuario x= 0.0 | 68.428 | |
| 143 (C)/100/usuario x= 0.0 | 66.269 | |
| 143 (C)/103/usuario x= 0.0 | 68.388 | |
| 143 (C)/106/usuario x= 0.0 | 74.36 | |
| | | **351.889** |
| Nombre del caso | ELU48 | |
| 144 (C)/94/usuario x= 0.0 | 81.576 | |
| 144 (C)/97/usuario x= 0.0 | 71.726 | |
| 144 (C)/100/usuario x= 0.0 | 66.214 | |
| 144 (C)/103/usuario x= 0.0 | 65.022 | |
| 144 (C)/106/usuario x= 0.0 | 67.405 | |
| | | **351.943** |

**AXILES EN CORONACIÓN DE FILA 7 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | FX (T) | ΣFX (T) |
|---|---|---|
| Nombre del caso | ELU49 | |
| 145 (C)/94/usuario x= 0.0 | 74.51 | |
| 145 (C)/97/usuario x= 0.0 | 70.655 | |
| 145 (C)/100/usuario x= 0.0 | 69.23 | |
| 145 (C)/103/usuario x= 0.0 | 70.615 | |
| 145 (C)/106/usuario x= 0.0 | 74.426 | |
| | | **359.436** |
| Nombre del caso | ELU50 | |
| 146 (C)/94/usuario x= 0.0 | 81.642 | |
| 146 (C)/97/usuario x= 0.0 | 73.953 | |
| 146 (C)/100/usuario x= 0.0 | 69.175 | |
| 146 (C)/103/usuario x= 0.0 | 67.249 | |
| 146 (C)/106/usuario x= 0.0 | 67.471 | |
| | | **359.49** |
| Nombre del caso | ELU51 | |
| 147 (C)/94/usuario x= 0.0 | 67.618 | |
| 147 (C)/97/usuario x= 0.0 | 63.319 | |
| 147 (C)/100/usuario x= 0.0 | 61.886 | |
| 147 (C)/103/usuario x= 0.0 | 63.319 | |
| 147 (C)/106/usuario x= 0.0 | 67.618 | |
| | | **323.76** |
| Nombre del caso | ELU52 | |
| 148 (C)/94/usuario x= 0.0 | 29.12 | |
| 148 (C)/97/usuario x= 0.0 | 26.495 | |
| 148 (C)/100/usuario x= 0.0 | 25.612 | |
| 148 (C)/103/usuario x= 0.0 | 26.495 | |
| 148 (C)/106/usuario x= 0.0 | 29.12 | |
| | | **136.842** |
| Nombre del caso | ELU53 | |
| 149 (C)/94/usuario x= 0.0 | 72.145 | |
| 149 (C)/97/usuario x= 0.0 | 65.454 | |
| 149 (C)/100/usuario x= 0.0 | 61.852 | |
| 149 (C)/103/usuario x= 0.0 | 61.152 | |
| 149 (C)/106/usuario x= 0.0 | 63.196 | |
| | | **323.799** |
| Nombre del caso | ELU54 | |
| 150 (C)/94/usuario x= 0.0 | 29.135 | |
| 150 (C)/97/usuario x= 0.0 | 26.501 | |
| 150 (C)/100/usuario x= 0.0 | 25.612 | |
| 150 (C)/103/usuario x= 0.0 | 26.488 | |
| 150 (C)/106/usuario x= 0.0 | 29.106 | |
| | | **136.842** |
| Nombre del caso | ELU55 | |
| 151 (C)/94/usuario x= 0.0 | 67.449 | |
| 151 (C)/97/usuario x= 0.0 | 60.966 | |
| 151 (C)/100/usuario x= 0.0 | 58.789 | |
| 151 (C)/103/usuario x= 0.0 | 60.966 | |
| 151 (C)/106/usuario x= 0.0 | 67.449 | |
| | | **315.619** |
| Nombre del caso | ELU56 | |
| 152 (C)/94/usuario x= 0.0 | 67.552 | |
| 152 (C)/97/usuario x= 0.0 | 61.092 | |
| 152 (C)/100/usuario x= 0.0 | 58.926 | |
| 152 (C)/103/usuario x= 0.0 | 61.092 | |
| 152 (C)/106/usuario x= 0.0 | 67.552 | |
| | | **316.214** |
| Nombre del caso | ELU57 | |
| 153 (C)/94/usuario x= 0.0 | 28.951 | |
| 153 (C)/97/usuario x= 0.0 | 24.141 | |
| 153 (C)/100/usuario x= 0.0 | 22.515 | |
| 153 (C)/103/usuario x= 0.0 | 24.141 | |
| 153 (C)/106/usuario x= 0.0 | 28.951 | |
| | | **128.699** |
| Nombre del caso | ELU58 | |
| 154 (C)/94/usuario x= 0.0 | 29.054 | |
| 154 (C)/97/usuario x= 0.0 | 24.268 | |
| 154 (C)/100/usuario x= 0.0 | 22.651 | |
| 154 (C)/103/usuario x= 0.0 | 24.268 | |
| 154 (C)/106/usuario x= 0.0 | 29.054 | |
| | | **129.295** |
| Nombre del caso | ELU59 | |
| 155 (C)/94/usuario x= 0.0 | 71.976 | |
| 155 (C)/97/usuario x= 0.0 | 63.1 | |
| 155 (C)/100/usuario x= 0.0 | 58.755 | |
| 155 (C)/103/usuario x= 0.0 | 58.798 | |
| 155 (C)/106/usuario x= 0.0 | 63.026 | |
| | | **315.655** |

**AXILES EN CORONACIÓN DE FILA 7 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | FX (T) | ΣFX (T) |
|---|---|---|
| Nombre del caso | ELU510 | |
| 156 (C)/94/usuario x= 0.0 | 72.079 | |
| 156 (C)/97/usuario x= 0.0 | 63.227 | |
| 156 (C)/100/usuario x= 0.0 | 58.892 | |
| 156 (C)/103/usuario x= 0.0 | 58.925 | |
| 156 (C)/106/usuario x= 0.0 | 63.13 | |
| | | **316.253** |
| Nombre del caso | ELU511 | |
| 157 (C)/94/usuario x= 0.0 | 28.966 | |
| 157 (C)/97/usuario x= 0.0 | 24.147 | |
| 157 (C)/100/usuario x= 0.0 | 22.515 | |
| 157 (C)/103/usuario x= 0.0 | 24.134 | |
| 157 (C)/106/usuario x= 0.0 | 28.936 | |
| | | **128.698** |
| Nombre del caso | ELU512 | |
| 158 (C)/94/usuario x= 0.0 | 29.069 | |
| 158 (C)/97/usuario x= 0.0 | 24.274 | |
| 158 (C)/100/usuario x= 0.0 | 22.651 | |
| 158 (C)/103/usuario x= 0.0 | 24.261 | |
| 158 (C)/106/usuario x= 0.0 | 29.04 | |
| | | **129.295** |
| Nombre del caso | ELU61 | |
| 159 (C)/94/usuario x= 0.0 | 67.688 | |
| 159 (C)/97/usuario x= 0.0 | 63.405 | |
| 159 (C)/100/usuario x= 0.0 | 61.979 | |
| 159 (C)/103/usuario x= 0.0 | 63.405 | |
| 159 (C)/106/usuario x= 0.0 | 67.688 | |
| | | **324.165** |
| Nombre del caso | ELU62 | |
| 160 (C)/94/usuario x= 0.0 | 29.191 | |
| 160 (C)/97/usuario x= 0.0 | 26.581 | |
| 160 (C)/100/usuario x= 0.0 | 25.705 | |
| 160 (C)/103/usuario x= 0.0 | 26.581 | |
| 160 (C)/106/usuario x= 0.0 | 29.191 | |
| | | **137.249** |
| Nombre del caso | ELU63 | |
| 161 (C)/94/usuario x= 0.0 | 72.215 | |
| 161 (C)/97/usuario x= 0.0 | 65.54 | |
| 161 (C)/100/usuario x= 0.0 | 61.945 | |
| 161 (C)/103/usuario x= 0.0 | 61.238 | |
| 161 (C)/106/usuario x= 0.0 | 63.266 | |
| | | **324.204** |
| Nombre del caso | ELU64 | |
| 162 (C)/94/usuario x= 0.0 | 29.205 | |
| 162 (C)/97/usuario x= 0.0 | 26.587 | |
| 162 (C)/100/usuario x= 0.0 | 25.704 | |
| 162 (C)/103/usuario x= 0.0 | 26.574 | |
| 162 (C)/106/usuario x= 0.0 | 29.176 | |
| | | **137.246** |
| Nombre del caso | ELU65 | |
| 163 (C)/94/usuario x= 0.0 | 67.519 | |
| 163 (C)/97/usuario x= 0.0 | 61.052 | |
| 163 (C)/100/usuario x= 0.0 | 58.882 | |
| 163 (C)/103/usuario x= 0.0 | 61.052 | |
| 163 (C)/106/usuario x= 0.0 | 67.519 | |
| | | **316.024** |
| Nombre del caso | ELU66 | |
| 164 (C)/94/usuario x= 0.0 | 67.622 | |
| 164 (C)/97/usuario x= 0.0 | 61.179 | |
| 164 (C)/100/usuario x= 0.0 | 59.018 | |
| 164 (C)/103/usuario x= 0.0 | 61.179 | |
| 164 (C)/106/usuario x= 0.0 | 67.622 | |
| | | **316.62** |
| Nombre del caso | ELU67 | |
| 165 (C)/94/usuario x= 0.0 | 29.021 | |
| 165 (C)/97/usuario x= 0.0 | 24.227 | |
| 165 (C)/100/usuario x= 0.0 | 22.608 | |
| 165 (C)/103/usuario x= 0.0 | 24.227 | |
| 165 (C)/106/usuario x= 0.0 | 29.021 | |
| | | **129.104** |
| Nombre del caso | ELU68 | |
| 166 (C)/94/usuario x= 0.0 | 29.125 | |
| 166 (C)/97/usuario x= 0.0 | 24.354 | |
| 166 (C)/100/usuario x= 0.0 | 22.744 | |
| 166 (C)/103/usuario x= 0.0 | 24.354 | |
| 166 (C)/106/usuario x= 0.0 | 29.125 | |
| | | **129.702** |

**AXILES EN CORONACIÓN DE FILA 7 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU69 | |
| 167 (C)/94/usuario x= | 0.0 | 72.046 | |
| 167 (C)/97/usuario x= | 0.0 | 63.186 | |
| 167 (C)/100/usuario x= | 0.0 | 58.848 | |
| 167 (C)/103/usuario x= | 0.0 | 58.884 | |
| 167 (C)/106/usuario x= | 0.0 | 63.096 | |
| | | | **316.06** |
| Nombre del caso | | ELU610 | |
| 168 (C)/94/usuario x= | 0.0 | 72.149 | |
| 168 (C)/97/usuario x= | 0.0 | 63.313 | |
| 168 (C)/100/usuario x= | 0.0 | 58.984 | |
| 168 (C)/103/usuario x= | 0.0 | 59.011 | |
| 168 (C)/106/usuario x= | 0.0 | 63.2 | |
| | | | **316.657** |
| Nombre del caso | | ELU611 | |
| 169 (C)/94/usuario x= | 0.0 | 29.036 | |
| 169 (C)/97/usuario x= | 0.0 | 24.234 | |
| 169 (C)/100/usuario x= | 0.0 | 22.607 | |
| 169 (C)/103/usuario x= | 0.0 | 24.22 | |
| 169 (C)/106/usuario x= | 0.0 | 29.006 | |
| | | | **129.103** |
| Nombre del caso | | ELU612 | |
| 170 (C)/94/usuario x= | 0.0 | 29.139 | |
| 170 (C)/97/usuario x= | 0.0 | 24.36 | |
| 170 (C)/100/usuario x= | 0.0 | 22.744 | |
| 170 (C)/103/usuario x= | 0.0 | 24.347 | |
| 170 (C)/106/usuario x= | 0.0 | 29.11 | |
| | | 81.676 | **129.7** |
| **MÁXIMO AXIL ELU EN FILA 7** | | | **359.834** |

**AXILES EN CORONACIÓN DE FILA 8 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU01 | |
| 101 (C)/109/usuario x= | 0.0 | 12.48 | |
| 101 (C)/112/usuario x= | 0.0 | 10.102 | |
| 101 (C)/115/usuario x= | 0.0 | 9.298 | |
| 101 (C)/118/usuario x= | 0.0 | 10.102 | |
| 101 (C)/121/usuario x= | 0.0 | 12.48 | |
| | | | **54.462** |
| Nombre del caso | | ELU02 | |
| 102 (C)/109/usuario x= | 0.0 | 14.908 | |
| 102 (C)/112/usuario x= | 0.0 | 9.33 | |
| 102 (C)/115/usuario x= | 0.0 | 7.508 | |
| 102 (C)/118/usuario x= | 0.0 | 9.33 | |
| 102 (C)/121/usuario x= | 0.0 | 14.908 | |
| | | | **55.984** |
| Nombre del caso | | ELU03 | |
| 103 (C)/109/usuario x= | 0.0 | 14.728 | |
| 103 (C)/112/usuario x= | 0.0 | 9.18 | |
| 103 (C)/115/usuario x= | 0.0 | 7.371 | |
| 103 (C)/118/usuario x= | 0.0 | 9.18 | |
| 103 (C)/121/usuario x= | 0.0 | 14.728 | |
| | | | **55.187** |
| Nombre del caso | | ELU04 | |
| 104 (C)/109/usuario x= | 0.0 | 12.407 | |
| 104 (C)/112/usuario x= | 0.0 | 10.041 | |
| 104 (C)/115/usuario x= | 0.0 | 9.242 | |
| 104 (C)/118/usuario x= | 0.0 | 10.041 | |
| 104 (C)/121/usuario x= | 0.0 | 12.407 | |
| | | | **54.138** |
| Nombre del caso | | ELU05 | |
| 105 (C)/109/usuario x= | 0.0 | 14.834 | |
| 105 (C)/112/usuario x= | 0.0 | 9.269 | |
| 105 (C)/115/usuario x= | 0.0 | 7.452 | |
| 105 (C)/118/usuario x= | 0.0 | 9.269 | |
| 105 (C)/121/usuario x= | 0.0 | 14.834 | |
| | | | **55.658** |
| Nombre del caso | | ELU06 | |
| 106 (C)/109/usuario x= | 0.0 | 14.655 | |
| 106 (C)/112/usuario x= | 0.0 | 9.119 | |
| 106 (C)/115/usuario x= | 0.0 | 7.315 | |
| 106 (C)/118/usuario x= | 0.0 | 9.119 | |
| 106 (C)/121/usuario x= | 0.0 | 14.655 | |
| | | | **54.863** |
| Nombre del caso | | ELU11 | |
| 107 (C)/109/usuario x= | 0.0 | 34.44 | |
| 107 (C)/112/usuario x= | 0.0 | 27.994 | |
| 107 (C)/115/usuario x= | 0.0 | 25.691 | |
| 107 (C)/118/usuario x= | 0.0 | 27.994 | |
| 107 (C)/121/usuario x= | 0.0 | 34.44 | |
| | | | **150.559** |
| Nombre del caso | | ELU12 | |
| 108 (C)/109/usuario x= | 0.0 | 38.439 | |
| 108 (C)/112/usuario x= | 0.0 | 29.626 | |
| 108 (C)/115/usuario x= | 0.0 | 25.634 | |
| 108 (C)/118/usuario x= | 0.0 | 26.259 | |
| 108 (C)/121/usuario x= | 0.0 | 30.524 | |
| | | | **150.482** |
| Nombre del caso | | ELU13 | |
| 109 (C)/109/usuario x= | 0.0 | 34.26 | |
| 109 (C)/112/usuario x= | 0.0 | 27.844 | |
| 109 (C)/115/usuario x= | 0.0 | 25.554 | |
| 109 (C)/118/usuario x= | 0.0 | 27.844 | |
| 109 (C)/121/usuario x= | 0.0 | 34.26 | |
| | | | **149.762** |
| Nombre del caso | | ELU14 | |
| 110 (C)/109/usuario x= | 0.0 | 38.259 | |
| 110 (C)/112/usuario x= | 0.0 | 29.477 | |
| 110 (C)/115/usuario x= | 0.0 | 25.497 | |
| 110 (C)/118/usuario x= | 0.0 | 26.11 | |
| 110 (C)/121/usuario x= | 0.0 | 30.344 | |
| | | | **149.687** |
| Nombre del caso | | ELU15 | |
| 111 (C)/109/usuario x= | 0.0 | 38.352 | |
| 111 (C)/112/usuario x= | 0.0 | 32.968 | |
| 111 (C)/115/usuario x= | 0.0 | 30.952 | |
| 111 (C)/118/usuario x= | 0.0 | 32.968 | |
| 111 (C)/121/usuario x= | 0.0 | 38.352 | |
| | | | **173.592** |

**AXILES EN CORONACIÓN DE FILA 8 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU16 | |
| 112 (C)/109/usuario x= | 0.0 | 43.35 | |
| 112 (C)/112/usuario x= | 0.0 | 35.009 | |
| 112 (C)/115/usuario x= | 0.0 | 30.881 | |
| 112 (C)/118/usuario x= | 0.0 | 30.8 | |
| 112 (C)/121/usuario x= | 0.0 | 33.457 | |
| | | | **173.497** |
| Nombre del caso | | ELU17 | |
| 113 (C)/109/usuario x= | 0.0 | 38.244 | |
| 113 (C)/112/usuario x= | 0.0 | 32.879 | |
| 113 (C)/115/usuario x= | 0.0 | 30.87 | |
| 113 (C)/118/usuario x= | 0.0 | 32.879 | |
| 113 (C)/121/usuario x= | 0.0 | 38.244 | |
| | | | **173.116** |
| Nombre del caso | | ELU18 | |
| 114 (C)/109/usuario x= | 0.0 | 43.242 | |
| 114 (C)/112/usuario x= | 0.0 | 34.919 | |
| 114 (C)/115/usuario x= | 0.0 | 30.799 | |
| 114 (C)/118/usuario x= | 0.0 | 30.71 | |
| 114 (C)/121/usuario x= | 0.0 | 33.349 | |
| | | | **173.019** |
| Nombre del caso | | ELU19 | |
| 115 (C)/109/usuario x= | 0.0 | 36.896 | |
| 115 (C)/112/usuario x= | 0.0 | 33.432 | |
| 115 (C)/115/usuario x= | 0.0 | 32.026 | |
| 115 (C)/118/usuario x= | 0.0 | 33.432 | |
| 115 (C)/121/usuario x= | 0.0 | 36.896 | |
| | | | **172.682** |
| Nombre del caso | | ELU20 | |
| 116 (C)/109/usuario x= | 0.0 | 41.894 | |
| 116 (C)/112/usuario x= | 0.0 | 35.472 | |
| 116 (C)/115/usuario x= | 0.0 | 31.955 | |
| 116 (C)/118/usuario x= | 0.0 | 31.263 | |
| 116 (C)/121/usuario x= | 0.0 | 32 | |
| | | | **172.584** |
| Nombre del caso | | ELU21 | |
| 117 (C)/109/usuario x= | 0.0 | 34.602 | |
| 117 (C)/112/usuario x= | 0.0 | 28.161 | |
| 117 (C)/115/usuario x= | 0.0 | 25.852 | |
| 117 (C)/118/usuario x= | 0.0 | 28.135 | |
| 117 (C)/121/usuario x= | 0.0 | 34.543 | |
| | | | **151.293** |
| Nombre del caso | | ELU22 | |
| 118 (C)/109/usuario x= | 0.0 | 38.601 | |
| 118 (C)/112/usuario x= | 0.0 | 29.793 | |
| 118 (C)/115/usuario x= | 0.0 | 25.795 | |
| 118 (C)/118/usuario x= | 0.0 | 26.401 | |
| 118 (C)/121/usuario x= | 0.0 | 30.627 | |
| | | | **151.217** |
| Nombre del caso | | ELU23 | |
| 119 (C)/109/usuario x= | 0.0 | 34.423 | |
| 119 (C)/112/usuario x= | 0.0 | 28.011 | |
| 119 (C)/115/usuario x= | 0.0 | 25.715 | |
| 119 (C)/118/usuario x= | 0.0 | 27.986 | |
| 119 (C)/121/usuario x= | 0.0 | 34.363 | |
| | | | **150.498** |
| Nombre del caso | | ELU24 | |
| 120 (C)/109/usuario x= | 0.0 | 38.421 | |
| 120 (C)/112/usuario x= | 0.0 | 29.644 | |
| 120 (C)/115/usuario x= | 0.0 | 25.658 | |
| 120 (C)/118/usuario x= | 0.0 | 26.251 | |
| 120 (C)/121/usuario x= | 0.0 | 30.447 | |
| | | | **150.421** |
| Nombre del caso | | ELU25 | |
| 121 (C)/109/usuario x= | 0.0 | 38.555 | |
| 121 (C)/112/usuario x= | 0.0 | 33.177 | |
| 121 (C)/115/usuario x= | 0.0 | 31.154 | |
| 121 (C)/118/usuario x= | 0.0 | 33.145 | |
| 121 (C)/121/usuario x= | 0.0 | 38.481 | |
| | | | **174.512** |
| Nombre del caso | | ELU26 | |
| 122 (C)/109/usuario x= | 0.0 | 43.553 | |
| 122 (C)/112/usuario x= | 0.0 | 35.218 | |
| 122 (C)/115/usuario x= | 0.0 | 31.083 | |
| 122 (C)/118/usuario x= | 0.0 | 30.977 | |
| 122 (C)/121/usuario x= | 0.0 | 33.585 | |
| | | | **174.416** |

**AXILES EN CORONACIÓN DE FILA 8 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU27 | |
| 123 (C)/109/usuario x= | 0.0 | 38.447 | |
| 123 (C)/112/usuario x= | 0.0 | 33.087 | |
| 123 (C)/115/usuario x= | 0.0 | 31.072 | |
| 123 (C)/118/usuario x= | 0.0 | 33.056 | |
| 123 (C)/121/usuario x= | 0.0 | 38.373 | |
| | | | **174.035** |
| Nombre del caso | | ELU28 | |
| 124 (C)/109/usuario x= | 0.0 | 43.445 | |
| 124 (C)/112/usuario x= | 0.0 | 35.128 | |
| 124 (C)/115/usuario x= | 0.0 | 31 | |
| 124 (C)/118/usuario x= | 0.0 | 30.887 | |
| 124 (C)/121/usuario x= | 0.0 | 33.478 | |
| | | | **173.938** |
| Nombre del caso | | ELU29 | |
| 125 (C)/109/usuario x= | 0.0 | 37.099 | |
| 125 (C)/112/usuario x= | 0.0 | 33.64 | |
| 125 (C)/115/usuario x= | 0.0 | 32.228 | |
| 125 (C)/118/usuario x= | 0.0 | 33.608 | |
| 125 (C)/121/usuario x= | 0.0 | 37.024 | |
| | | | **173.599** |
| Nombre del caso | | ELU30 | |
| 126 (C)/109/usuario x= | 0.0 | 42.097 | |
| 126 (C)/112/usuario x= | 0.0 | 35.681 | |
| 126 (C)/115/usuario x= | 0.0 | 32.156 | |
| 126 (C)/118/usuario x= | 0.0 | 31.44 | |
| 126 (C)/121/usuario x= | 0.0 | 32.129 | |
| | | | **173.503** |
| Nombre del caso | | ELU31 | |
| 127 (C)/109/usuario x= | 0.0 | 34.367 | |
| 127 (C)/112/usuario x= | 0.0 | 27.933 | |
| 127 (C)/115/usuario x= | 0.0 | 25.635 | |
| 127 (C)/118/usuario x= | 0.0 | 27.933 | |
| 127 (C)/121/usuario x= | 0.0 | 34.367 | |
| | | | **150.235** |
| Nombre del caso | | ELU32 | |
| 128 (C)/109/usuario x= | 0.0 | 38.365 | |
| 128 (C)/112/usuario x= | 0.0 | 29.565 | |
| 128 (C)/115/usuario x= | 0.0 | 25.578 | |
| 128 (C)/118/usuario x= | 0.0 | 26.198 | |
| 128 (C)/121/usuario x= | 0.0 | 30.45 | |
| | | | **150.156** |
| Nombre del caso | | ELU33 | |
| 129 (C)/109/usuario x= | 0.0 | 34.187 | |
| 129 (C)/112/usuario x= | 0.0 | 27.783 | |
| 129 (C)/115/usuario x= | 0.0 | 25.498 | |
| 129 (C)/118/usuario x= | 0.0 | 27.783 | |
| 129 (C)/121/usuario x= | 0.0 | 34.187 | |
| | | | **149.438** |
| Nombre del caso | | ELU34 | |
| 130 (C)/109/usuario x= | 0.0 | 38.186 | |
| 130 (C)/112/usuario x= | 0.0 | 29.416 | |
| 130 (C)/115/usuario x= | 0.0 | 25.441 | |
| 130 (C)/118/usuario x= | 0.0 | 26.049 | |
| 130 (C)/121/usuario x= | 0.0 | 30.271 | |
| | | | **149.363** |
| Nombre del caso | | ELU35 | |
| 131 (C)/109/usuario x= | 0.0 | 38.279 | |
| 131 (C)/112/usuario x= | 0.0 | 32.908 | |
| 131 (C)/115/usuario x= | 0.0 | 30.897 | |
| 131 (C)/118/usuario x= | 0.0 | 32.908 | |
| 131 (C)/121/usuario x= | 0.0 | 38.279 | |
| | | | **173.271** |
| Nombre del caso | | ELU36 | |
| 132 (C)/109/usuario x= | 0.0 | 43.277 | |
| 132 (C)/112/usuario x= | 0.0 | 34.948 | |
| 132 (C)/115/usuario x= | 0.0 | 30.825 | |
| 132 (C)/118/usuario x= | 0.0 | 30.739 | |
| 132 (C)/121/usuario x= | 0.0 | 33.383 | |
| | | | **173.172** |
| Nombre del caso | | ELU37 | |
| 133 (C)/109/usuario x= | 0.0 | 38.171 | |
| 133 (C)/112/usuario x= | 0.0 | 32.818 | |
| 133 (C)/115/usuario x= | 0.0 | 30.814 | |
| 133 (C)/118/usuario x= | 0.0 | 32.818 | |
| 133 (C)/121/usuario x= | 0.0 | 38.171 | |
| | | | **172.792** |

**AXILES EN CORONACIÓN DE FILA 8 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU38 | |
| 134 (C)/109/usuario x= | 0.0 | 43.169 | |
| 134 (C)/112/usuario x= | 0.0 | 34.858 | |
| 134 (C)/115/usuario x= | 0.0 | 30.743 | |
| 134 (C)/118/usuario x= | 0.0 | 30.65 | |
| 134 (C)/121/usuario x= | 0.0 | 33.276 | |
| | | | **172.696** |
| Nombre del caso | | ELU39 | |
| 135 (C)/109/usuario x= | 0.0 | 36.822 | |
| 135 (C)/112/usuario x= | 0.0 | 33.371 | |
| 135 (C)/115/usuario x= | 0.0 | 31.97 | |
| 135 (C)/118/usuario x= | 0.0 | 33.371 | |
| 135 (C)/121/usuario x= | 0.0 | 36.822 | |
| | | | **172.356** |
| Nombre del caso | | ELU40 | |
| 136 (C)/109/usuario x= | 0.0 | 41.821 | |
| 136 (C)/112/usuario x= | 0.0 | 35.411 | |
| 136 (C)/115/usuario x= | 0.0 | 31.899 | |
| 136 (C)/118/usuario x= | 0.0 | 31.202 | |
| 136 (C)/121/usuario x= | 0.0 | 31.927 | |
| | | | **172.26** |
| Nombre del caso | | ELU41 | |
| 137 (C)/109/usuario x= | 0.0 | 34.529 | |
| 137 (C)/112/usuario x= | 0.0 | 28.1 | |
| 137 (C)/115/usuario x= | 0.0 | 25.796 | |
| 137 (C)/118/usuario x= | 0.0 | 28.074 | |
| 137 (C)/121/usuario x= | 0.0 | 34.47 | |
| | | | **150.969** |
| Nombre del caso | | ELU42 | |
| 138 (C)/109/usuario x= | 0.0 | 38.528 | |
| 138 (C)/112/usuario x= | 0.0 | 29.732 | |
| 138 (C)/115/usuario x= | 0.0 | 25.739 | |
| 138 (C)/118/usuario x= | 0.0 | 26.34 | |
| 138 (C)/121/usuario x= | 0.0 | 30.554 | |
| | | | **150.893** |
| Nombre del caso | | ELU43 | |
| 139 (C)/109/usuario x= | 0.0 | 34.349 | |
| 139 (C)/112/usuario x= | 0.0 | 27.95 | |
| 139 (C)/115/usuario x= | 0.0 | 25.659 | |
| 139 (C)/118/usuario x= | 0.0 | 27.925 | |
| 139 (C)/121/usuario x= | 0.0 | 34.29 | |
| | | | **150.173** |
| Nombre del caso | | ELU44 | |
| 140 (C)/109/usuario x= | 0.0 | 38.348 | |
| 140 (C)/112/usuario x= | 0.0 | 29.583 | |
| 140 (C)/115/usuario x= | 0.0 | 25.602 | |
| 140 (C)/118/usuario x= | 0.0 | 26.19 | |
| 140 (C)/121/usuario x= | 0.0 | 30.374 | |
| | | | **150.097** |
| Nombre del caso | | ELU45 | |
| 141 (C)/109/usuario x= | 0.0 | 38.482 | |
| 141 (C)/112/usuario x= | 0.0 | 33.116 | |
| 141 (C)/115/usuario x= | 0.0 | 31.098 | |
| 141 (C)/118/usuario x= | 0.0 | 33.084 | |
| 141 (C)/121/usuario x= | 0.0 | 38.408 | |
| | | | **174.188** |
| Nombre del caso | | ELU46 | |
| 142 (C)/109/usuario x= | 0.0 | 43.48 | |
| 142 (C)/112/usuario x= | 0.0 | 35.157 | |
| 142 (C)/115/usuario x= | 0.0 | 31.027 | |
| 142 (C)/118/usuario x= | 0.0 | 30.916 | |
| 142 (C)/121/usuario x= | 0.0 | 33.512 | |
| | | | **174.092** |
| Nombre del caso | | ELU47 | |
| 143 (C)/109/usuario x= | 0.0 | 38.374 | |
| 143 (C)/112/usuario x= | 0.0 | 33.026 | |
| 143 (C)/115/usuario x= | 0.0 | 31.016 | |
| 143 (C)/118/usuario x= | 0.0 | 32.995 | |
| 143 (C)/121/usuario x= | 0.0 | 38.3 | |
| | | | **173.711** |
| Nombre del caso | | ELU48 | |
| 144 (C)/109/usuario x= | 0.0 | 43.372 | |
| 144 (C)/112/usuario x= | 0.0 | 35.067 | |
| 144 (C)/115/usuario x= | 0.0 | 30.944 | |
| 144 (C)/118/usuario x= | 0.0 | 30.826 | |
| 144 (C)/121/usuario x= | 0.0 | 33.404 | |
| | | | **173.613** |

**AXILES EN CORONACIÓN DE FILA 8 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU49 | |
| 145 (C)/109/usuario x= | 0.0 | 37.025 | |
| 145 (C)/112/usuario x= | 0.0 | 33.579 | |
| 145 (C)/115/usuario x= | 0.0 | 32.172 | |
| 145 (C)/118/usuario x= | 0.0 | 33.548 | |
| 145 (C)/121/usuario x= | 0.0 | 36.951 | |
| | | | **173.275** |
| Nombre del caso | | ELU50 | |
| 146 (C)/109/usuario x= | 0.0 | 42.024 | |
| 146 (C)/112/usuario x= | 0.0 | 35.62 | |
| 146 (C)/115/usuario x= | 0.0 | 32.1 | |
| 146 (C)/118/usuario x= | 0.0 | 31.379 | |
| 146 (C)/121/usuario x= | 0.0 | 32.056 | |
| | | | **173.179** |
| Nombre del caso | | ELU51 | |
| 147 (C)/109/usuario x= | 0.0 | 22.342 | |
| 147 (C)/112/usuario x= | 0.0 | 18.243 | |
| 147 (C)/115/usuario x= | 0.0 | 16.855 | |
| 147 (C)/118/usuario x= | 0.0 | 18.243 | |
| 147 (C)/121/usuario x= | 0.0 | 22.342 | |
| | | | **98.025** |
| Nombre del caso | | ELU52 | |
| 148 (C)/109/usuario x= | 0.0 | 12.525 | |
| 148 (C)/112/usuario x= | 0.0 | 10.142 | |
| 148 (C)/115/usuario x= | 0.0 | 9.337 | |
| 148 (C)/118/usuario x= | 0.0 | 10.142 | |
| 148 (C)/121/usuario x= | 0.0 | 12.525 | |
| | | | **54.671** |
| Nombre del caso | | ELU53 | |
| 149 (C)/109/usuario x= | 0.0 | 24.763 | |
| 149 (C)/112/usuario x= | 0.0 | 19.277 | |
| 149 (C)/115/usuario x= | 0.0 | 16.817 | |
| 149 (C)/118/usuario x= | 0.0 | 17.167 | |
| 149 (C)/121/usuario x= | 0.0 | 19.971 | |
| | | | **97.995** |
| Nombre del caso | | ELU54 | |
| 150 (C)/109/usuario x= | 0.0 | 12.53 | |
| 150 (C)/112/usuario x= | 0.0 | 10.145 | |
| 150 (C)/115/usuario x= | 0.0 | 9.337 | |
| 150 (C)/118/usuario x= | 0.0 | 10.14 | |
| 150 (C)/121/usuario x= | 0.0 | 12.519 | |
| | | | **54.671** |
| Nombre del caso | | ELU55 | |
| 151 (C)/109/usuario x= | 0.0 | 23.799 | |
| 151 (C)/112/usuario x= | 0.0 | 17.78 | |
| 151 (C)/115/usuario x= | 0.0 | 15.781 | |
| 151 (C)/118/usuario x= | 0.0 | 17.78 | |
| 151 (C)/121/usuario x= | 0.0 | 23.799 | |
| | | | **98.939** |
| Nombre del caso | | ELU56 | |
| 152 (C)/109/usuario x= | 0.0 | 23.691 | |
| 152 (C)/112/usuario x= | 0.0 | 17.69 | |
| 152 (C)/115/usuario x= | 0.0 | 15.699 | |
| 152 (C)/118/usuario x= | 0.0 | 17.69 | |
| 152 (C)/121/usuario x= | 0.0 | 23.691 | |
| | | | **98.461** |
| Nombre del caso | | ELU57 | |
| 153 (C)/109/usuario x= | 0.0 | 13.981 | |
| 153 (C)/112/usuario x= | 0.0 | 9.679 | |
| 153 (C)/115/usuario x= | 0.0 | 8.264 | |
| 153 (C)/118/usuario x= | 0.0 | 9.679 | |
| 153 (C)/121/usuario x= | 0.0 | 13.981 | |
| | | | **55.584** |
| Nombre del caso | | ELU58 | |
| 154 (C)/109/usuario x= | 0.0 | 13.873 | |
| 154 (C)/112/usuario x= | 0.0 | 9.59 | |
| 154 (C)/115/usuario x= | 0.0 | 8.181 | |
| 154 (C)/118/usuario x= | 0.0 | 9.59 | |
| 154 (C)/121/usuario x= | 0.0 | 13.873 | |
| | | | **55.107** |
| Nombre del caso | | ELU59 | |
| 155 (C)/109/usuario x= | 0.0 | 26.219 | |
| 155 (C)/112/usuario x= | 0.0 | 18.814 | |
| 155 (C)/115/usuario x= | 0.0 | 15.744 | |
| 155 (C)/118/usuario x= | 0.0 | 16.704 | |
| 155 (C)/121/usuario x= | 0.0 | 21.427 | |
| | | | **98.908** |

**AXILES EN CORONACIÓN DE FILA 8 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU510 | |
| 156 (C)/109/usuario x= | 0.0 | 26.112 | |
| 156 (C)/112/usuario x= | 0.0 | 18.724 | |
| 156 (C)/115/usuario x= | 0.0 | 15.661 | |
| 156 (C)/118/usuario x= | 0.0 | 16.614 | |
| 156 (C)/121/usuario x= | 0.0 | 21.319 | |
| | | | **98.43** |
| Nombre del caso | | ELU511 | |
| 157 (C)/109/usuario x= | 0.0 | 13.987 | |
| 157 (C)/112/usuario x= | 0.0 | 9.681 | |
| 157 (C)/115/usuario x= | 0.0 | 8.263 | |
| 157 (C)/118/usuario x= | 0.0 | 9.677 | |
| 157 (C)/121/usuario x= | 0.0 | 13.976 | |
| | | | **55.584** |
| Nombre del caso | | ELU512 | |
| 158 (C)/109/usuario x= | 0.0 | 13.879 | |
| 158 (C)/112/usuario x= | 0.0 | 9.592 | |
| 158 (C)/115/usuario x= | 0.0 | 8.181 | |
| 158 (C)/118/usuario x= | 0.0 | 9.587 | |
| 158 (C)/121/usuario x= | 0.0 | 13.868 | |
| | | | **55.107** |
| Nombre del caso | | ELU61 | |
| 159 (C)/109/usuario x= | 0.0 | 22.269 | |
| 159 (C)/112/usuario x= | 0.0 | 18.182 | |
| 159 (C)/115/usuario x= | 0.0 | 16.799 | |
| 159 (C)/118/usuario x= | 0.0 | 18.182 | |
| 159 (C)/121/usuario x= | 0.0 | 22.269 | |
| | | | **97.701** |
| Nombre del caso | | ELU62 | |
| 160 (C)/109/usuario x= | 0.0 | 12.452 | |
| 160 (C)/112/usuario x= | 0.0 | 10.082 | |
| 160 (C)/115/usuario x= | 0.0 | 9.281 | |
| 160 (C)/118/usuario x= | 0.0 | 10.082 | |
| 160 (C)/121/usuario x= | 0.0 | 12.452 | |
| | | | **54.349** |
| Nombre del caso | | ELU63 | |
| 161 (C)/109/usuario x= | 0.0 | 24.69 | |
| 161 (C)/112/usuario x= | 0.0 | 19.216 | |
| 161 (C)/115/usuario x= | 0.0 | 16.762 | |
| 161 (C)/118/usuario x= | 0.0 | 17.106 | |
| 161 (C)/121/usuario x= | 0.0 | 19.898 | |
| | | | **97.672** |
| Nombre del caso | | ELU64 | |
| 162 (C)/109/usuario x= | 0.0 | 12.457 | |
| 162 (C)/112/usuario x= | 0.0 | 10.084 | |
| 162 (C)/115/usuario x= | 0.0 | 9.281 | |
| 162 (C)/118/usuario x= | 0.0 | 10.079 | |
| 162 (C)/121/usuario x= | 0.0 | 12.446 | |
| | | | **54.347** |
| Nombre del caso | | ELU65 | |
| 163 (C)/109/usuario x= | 0.0 | 23.725 | |
| 163 (C)/112/usuario x= | 0.0 | 17.719 | |
| 163 (C)/115/usuario x= | 0.0 | 15.725 | |
| 163 (C)/118/usuario x= | 0.0 | 17.719 | |
| 163 (C)/121/usuario x= | 0.0 | 23.725 | |
| | | | **98.613** |
| Nombre del caso | | ELU66 | |
| 164 (C)/109/usuario x= | 0.0 | 23.618 | |
| 164 (C)/112/usuario x= | 0.0 | 17.629 | |
| 164 (C)/115/usuario x= | 0.0 | 15.643 | |
| 164 (C)/118/usuario x= | 0.0 | 17.629 | |
| 164 (C)/121/usuario x= | 0.0 | 23.618 | |
| | | | **98.137** |
| Nombre del caso | | ELU67 | |
| 165 (C)/109/usuario x= | 0.0 | 13.908 | |
| 165 (C)/112/usuario x= | 0.0 | 9.618 | |
| 165 (C)/115/usuario x= | 0.0 | 8.208 | |
| 165 (C)/118/usuario x= | 0.0 | 9.618 | |
| 165 (C)/121/usuario x= | 0.0 | 13.908 | |
| | | | **55.26** |
| Nombre del caso | | ELU68 | |
| 166 (C)/109/usuario x= | 0.0 | 13.8 | |
| 166 (C)/112/usuario x= | 0.0 | 9.529 | |
| 166 (C)/115/usuario x= | 0.0 | 8.125 | |
| 166 (C)/118/usuario x= | 0.0 | 9.529 | |
| 166 (C)/121/usuario x= | 0.0 | 13.8 | |
| | | | **54.783** |

**AXILES EN CORONACIÓN DE FILA 8 DE PILOTES. MÓDULO 10**

| Caso/Barra/Punto (m) | | FX (T) | ΣFX (T) |
|---|---|---|---|
| Nombre del caso | | ELU69 | |
| 167 (C)/109/usuario x= | 0.0 | 26.146 | |
| 167 (C)/112/usuario x= | 0.0 | 18.753 | |
| 167 (C)/115/usuario x= | 0.0 | 15.688 | |
| 167 (C)/118/usuario x= | 0.0 | 16.643 | |
| 167 (C)/121/usuario x= | 0.0 | 21.354 | |
| | | | **98.584** |
| Nombre del caso | | ELU610 | |
| 168 (C)/109/usuario x= | 0.0 | 26.038 | |
| 168 (C)/112/usuario x= | 0.0 | 18.663 | |
| 168 (C)/115/usuario x= | 0.0 | 15.606 | |
| 168 (C)/118/usuario x= | 0.0 | 16.553 | |
| 168 (C)/121/usuario x= | 0.0 | 21.246 | |
| | | | **98.106** |
| Nombre del caso | | ELU611 | |
| 169 (C)/109/usuario x= | 0.0 | 13.914 | |
| 169 (C)/112/usuario x= | 0.0 | 9.621 | |
| 169 (C)/115/usuario x= | 0.0 | 8.207 | |
| 169 (C)/118/usuario x= | 0.0 | 9.616 | |
| 169 (C)/121/usuario x= | 0.0 | 13.903 | |
| | | | **55.261** |
| Nombre del caso | | ELU612 | |
| 170 (C)/109/usuario x= | 0.0 | 13.806 | |
| 170 (C)/112/usuario x= | 0.0 | 9.531 | |
| 170 (C)/115/usuario x= | 0.0 | 8.125 | |
| 170 (C)/118/usuario x= | 0.0 | 9.526 | |
| 170 (C)/121/usuario x= | 0.0 | 13.795 | |
| | | 43.553 | **54.783** |
| **MÁXIMO AXIL ELU EN FILA 8** | | | **174.512** |

## VERIFICACIÓN DEL ELU DE PUNZONAMIENTO

**Proyecto: Losa Pilotada en Cornellà. Módulo 10**
**Referencia: Punzonamiento pilote aislado**

### VERIFICACIÓN DE LA NECESIDAD DE ARMADURA

| | |
|---|---|
| Perímetro Crítico u1 (m) = | 4.90 |
| Canto útil losa d (m) = | 0.35 |
| Armadura transversal (cm2/m) = | 20.94 |
| Armadura longitudinal (cm2/m) = | 20.94 |
| Resistencia hormigón fck (N/mm2) = | 30 |
| Esfuerzo efectivo punzonamiento Fsd,ef (T) = | 91.20 |

| | |
|---|---|
| Cuantía geométrica armadura rl = | 0.006 |
| Parámetro auxiliar e = | 1.756 |
| Tensión máxima resistente trd (T/m2) = | 55.2 |
| Tensión tangencial solicitante tsd (T/m2) = | 53.2 |

**No es necesaria armadura de punzonamiento**

### CÁLCULO DE LA ARMADURA DE PUNZONAMIENTO

| | |
|---|---|
| Tensión resistida por la armadura tsu (T/m2) = | 0.00 |
| Tensión armaduras punzonamiento (N/mm2) = | 400 |
| Armadura de punzonamiento Aα (cm2/m) = | 0.00 |
| Separación perímetros de armadura s (m) = | 0.15 |
| Armadura por perímetro (cm2/perímetro) = | 0.00 |
| Ramas por perímetro de armadura = | 8 |
| Área de las ramas de armadura (cm2) = | 0.00 |
| Diámetro mínimo ramas de armadura (mm) = | 6 |

## VERIFICACIÓN DEL ELU DE PUNZONAMIENTO

**Proyecto: Losa Pilotada en Cornellà. Módulo 10**
**Referencia: Punzonamiento fila de pilotes 6**

### VERIFICACIÓN DE LA NECESIDAD DE ARMADURA

| | |
|---|---|
| Perímetro Crítico u1 (m) = | 19.45 |
| Canto útil losa d (m) = | 0.45 |
| Armadura transversal (cm2/m) = | 20.94 |
| Armadura longitudinal (cm2/m) = | 20.94 |
| Resistencia hormigón fck (N/mm2) = | 30 |
| Esfuerzo efectivo punzonamiento Fsd,ef (T) = | 397.80 |

| | |
|---|---|
| Cuantía geométrica armadura rl = | 0.005 |
| Parámetro auxiliar e = | 1.667 |
| Tensión máxima resistente trd (T/m2) = | 48.2 |
| Tensión tangencial solicitante tsd (T/m2) = | 45.4 |

**No es necesaria armadura de punzonamiento**

### CÁLCULO DE LA ARMADURA DE PUNZONAMIENTO

| | |
|---|---|
| Tensión resistida por la armadura tsu (T/m2) = | 0.00 |
| Tensión armaduras punzonamiento (N/mm2) = | 400 |
| Armadura de punzonamiento Aα (cm2/m) = | 0.00 |
| Separación perímetros de armadura s (m) = | 0.15 |
| Armadura por perímetro (cm2/perímetro) = | 0.00 |
| Ramas por perímetro de armadura = | 116 |
| Área de las ramas de armadura (cm2) = | 0.00 |
| Diámetro mínimo ramas de armadura (mm) = | 6 |

# 7 JUNTAS TRANSVERSALES

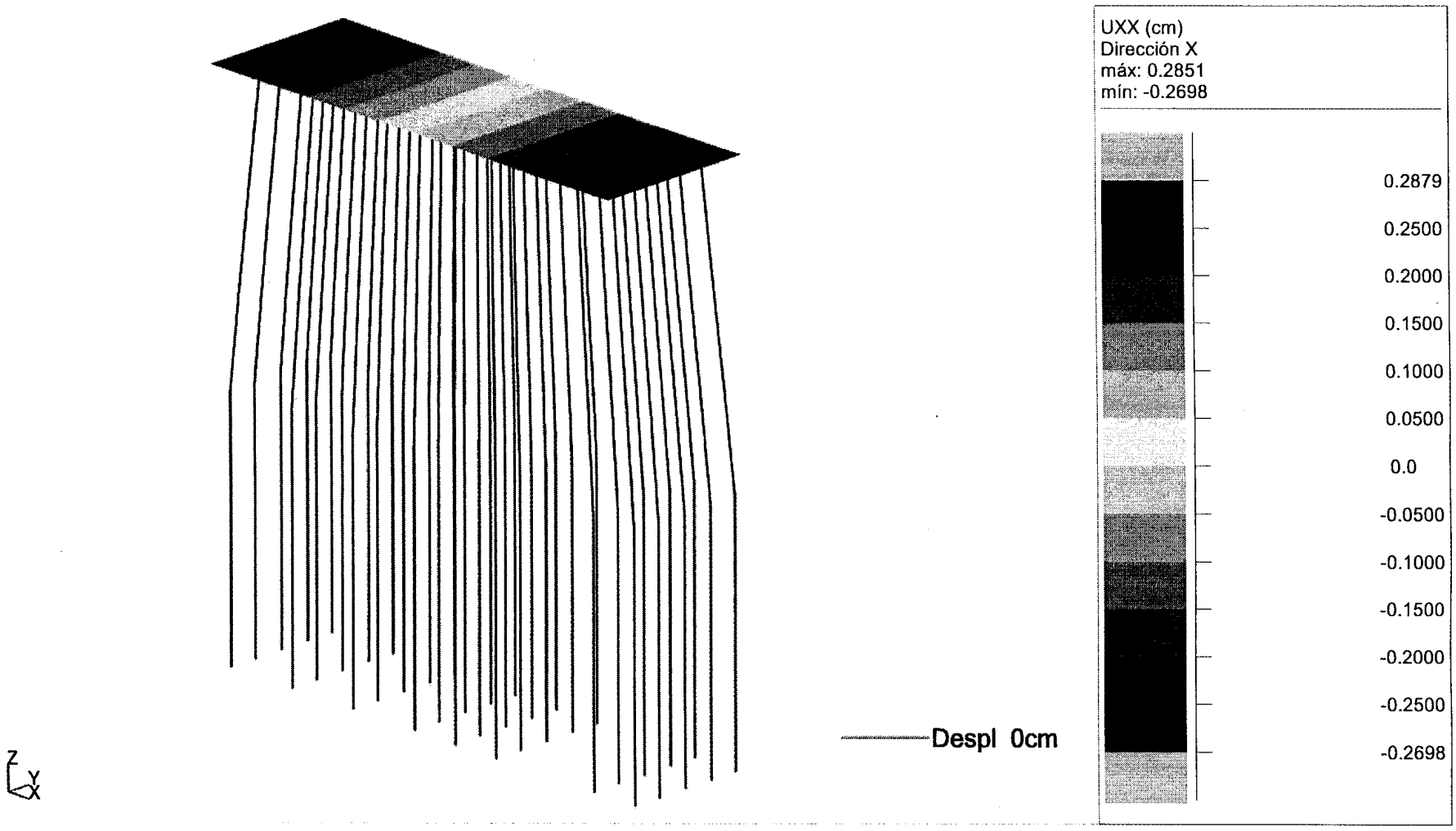
## 7.1 REACCIONES EN LAS JUNTAS

**SUMA DE REACCIONES EN NUDOS DE JUNTA 2 PARA EL MÓDULO 10**

| Caso/Nudo | FZ (T) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Nombre del caso | ELU01 | Nombre del caso | ELU19 | Nombre del caso | ELU33 | Nombre del caso | ELU47 | Nombre del caso | ELU511 |
| Caso 101 (C) | ELU01 | Caso 115 (C) | ELU19 | Caso 129 (C) | ELU33 | Caso 143 (C) | ELU47 | Caso 157 (C) | ELU511 |
| **Suma final** | **40.627** | **Suma final** | **84.01** | **Suma final** | **90.351** | **Suma final** | **94.129** | **Suma final** | **163.831** |
| Nombre del caso | ELU02 | Nombre del caso | ELU20 | Nombre del caso | ELU34 | Nombre del caso | ELU48 | Nombre del caso | ELU512 |
| Caso 102 (C) | ELU02 | Caso 116 (C) | ELU20 | Caso 130 (C) | ELU34 | Caso 144 (C) | ELU48 | Caso 158 (C) | ELU512 |
| **Suma final** | **57.821** | **Suma final** | **84.001** | **Suma final** | **90.343** | **Suma final** | **94.12** | **Suma final** | **162.903** |
| Nombre del caso | ELU03 | Nombre del caso | ELU21 | Nombre del caso | ELU35 | Nombre del caso | ELU49 | Nombre del caso | ELU61 |
| Caso 103 (C) | ELU03 | Caso 117 (C) | ELU21 | Caso 131 (C) | ELU35 | Caso 145 (C) | ELU49 | Caso 159 (C) | ELU61 |
| **Suma final** | **56.274** | **Suma final** | **93.616** | **Suma final** | **93.697** | **Suma final** | **84.74** | **Suma final** | **23.183** |
| Nombre del caso | ELU04 | Nombre del caso | ELU22 | Nombre del caso | ELU36 | Nombre del caso | ELU50 | Nombre del caso | ELU62 |
| Caso 104 (C) | ELU04 | Caso 118 (C) | ELU22 | Caso 132 (C) | ELU36 | Caso 146 (C) | ELU50 | Caso 160 (C) | ELU62 |
| **Suma final** | **39.997** | **Suma final** | **93.608** | **Suma final** | **93.687** | **Suma final** | **84.731** | **Suma final** | **152.854** |
| Nombre del caso | ELU05 | Nombre del caso | ELU23 | Nombre del caso | ELU37 | Nombre del caso | ELU51 | Nombre del caso | ELU63 |
| Caso 105 (C) | ELU05 | Caso 119 (C) | ELU23 | Caso 133 (C) | ELU37 | Caso 147 (C) | ELU51 | Caso 161 (C) | ELU63 |
| **Suma final** | **57.191** | **Suma final** | **92.069** | **Suma final** | **92.769** | **Suma final** | **23.813** | **Suma final** | **23.162** |
| Nombre del caso | ELU06 | Nombre del caso | ELU24 | Nombre del caso | ELU38 | Nombre del caso | ELU52 | Nombre del caso | ELU64 |
| Caso 106 (C) | ELU06 | Caso 120 (C) | ELU24 | Caso 134 (C) | ELU38 | Caso 148 (C) | ELU52 | Caso 162 (C) | ELU64 |
| **Suma final** | **55.644** | **Suma final** | **92.062** | **Suma final** | **92.759** | **Suma final** | **153.484** | **Suma final** | **152.884** |
| Nombre del caso | ELU11 | Nombre del caso | ELU25 | Nombre del caso | ELU39 | Nombre del caso | ELU53 | Nombre del caso | ELU65 |
| Caso 107 (C) | ELU11 | Caso 121 (C) | ELU25 | Caso 135 (C) | ELU39 | Caso 149 (C) | ELU53 | Caso 163 (C) | ELU65 |
| **Suma final** | **92.528** | **Suma final** | **95.687** | **Suma final** | **83.38** | **Suma final** | **23.792** | **Suma final** | **33.499** |
| Nombre del caso | ELU12 | Nombre del caso | ELU26 | Nombre del caso | ELU40 | Nombre del caso | ELU54 | Nombre del caso | ELU66 |
| Caso 108 (C) | ELU12 | Caso 122 (C) | ELU26 | Caso 136 (C) | ELU40 | Caso 150 (C) | ELU54 | Caso 164 (C) | ELU66 |
| **Suma final** | **92.52** | **Suma final** | **95.678** | **Suma final** | **83.371** | **Suma final** | **153.514** | **Suma final** | **32.571** |
| Nombre del caso | ELU13 | Nombre del caso | ELU27 | Nombre del caso | ELU41 | Nombre del caso | ELU55 | Nombre del caso | ELU67 |
| Caso 109 (C) | ELU13 | Caso 123 (C) | ELU27 | Caso 137 (C) | ELU41 | Caso 151 (C) | ELU55 | Caso 165 (C) | ELU67 |
| **Suma final** | **90.981** | **Suma final** | **94.759** | **Suma final** | **92.986** | **Suma final** | **34.129** | **Suma final** | **163.171** |
| Nombre del caso | ELU14 | Nombre del caso | ELU28 | Nombre del caso | ELU42 | Nombre del caso | ELU56 | Nombre del caso | ELU68 |
| Caso 110 (C) | ELU14 | Caso 124 (C) | ELU28 | Caso 138 (C) | ELU42 | Caso 152 (C) | ELU56 | Caso 166 (C) | ELU68 |
| **Suma final** | **90.973** | **Suma final** | **94.75** | **Suma final** | **92.979** | **Suma final** | **33.201** | **Suma final** | **162.243** |
| Nombre del caso | ELU15 | Nombre del caso | ELU29 | Nombre del caso | ELU43 | Nombre del caso | ELU57 | Nombre del caso | ELU69 |
| Caso 111 (C) | ELU15 | Caso 125 (C) | ELU29 | Caso 139 (C) | ELU43 | Caso 153 (C) | ELU57 | Caso 167 (C) | ELU69 |
| **Suma final** | **94.327** | **Suma final** | **85.37** | **Suma final** | **91.439** | **Suma final** | **163.801** | **Suma final** | **33.478** |
| Nombre del caso | ELU16 | Nombre del caso | ELU30 | Nombre del caso | ELU44 | Nombre del caso | ELU58 | Nombre del caso | ELU610 |
| Caso 112 (C) | ELU16 | Caso 126 (C) | ELU30 | Caso 140 (C) | ELU44 | Caso 154 (C) | ELU58 | Caso 168 (C) | ELU610 |
| **Suma final** | **94.317** | **Suma final** | **85.361** | **Suma final** | **91.432** | **Suma final** | **162.873** | **Suma final** | **32.55** |
| Nombre del caso | ELU17 | Nombre del caso | ELU31 | Nombre del caso | ELU45 | Nombre del caso | ELU59 | Nombre del caso | ELU611 |
| Caso 113 (C) | ELU17 | Caso 127 (C) | ELU31 | Caso 141 (C) | ELU45 | Caso 155 (C) | ELU59 | Caso 169 (C) | ELU611 |
| **Suma final** | **93.399** | **Suma final** | **91.898** | **Suma final** | **95.057** | **Suma final** | **34.108** | **Suma final** | **163.201** |
| Nombre del caso | ELU18 | Nombre del caso | ELU32 | Nombre del caso | ELU46 | Nombre del caso | ELU510 | Nombre del caso | ELU612 |
| Caso 114 (C) | ELU18 | Caso 128 (C) | ELU32 | Caso 142 (C) | ELU46 | Caso 156 (C) | ELU510 | Caso 170 (C) | ELU612 |
| **Suma final** | **93.389** | **Suma final** | **91.89** | **Suma final** | **95.048** | **Suma final** | **33.18** | **Suma final** | **162.273** |

## 7.2 CÁLCULO DE LOS MOVIMIENTOS EN JUNTAS

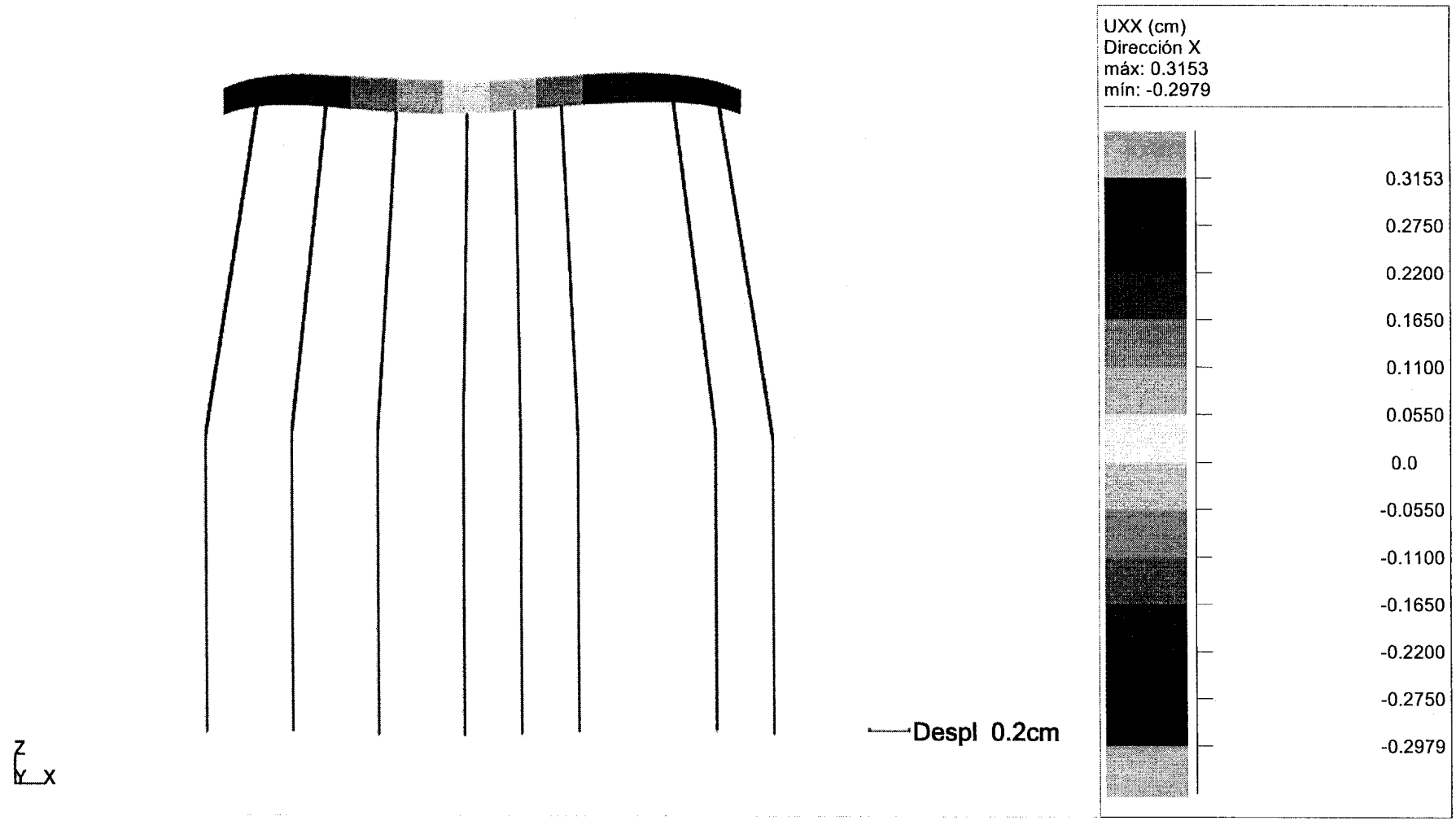
## Mapas para paneles - Deformación;UXX (cm) Dirección X casos: 3 (RETRACCIÓN)



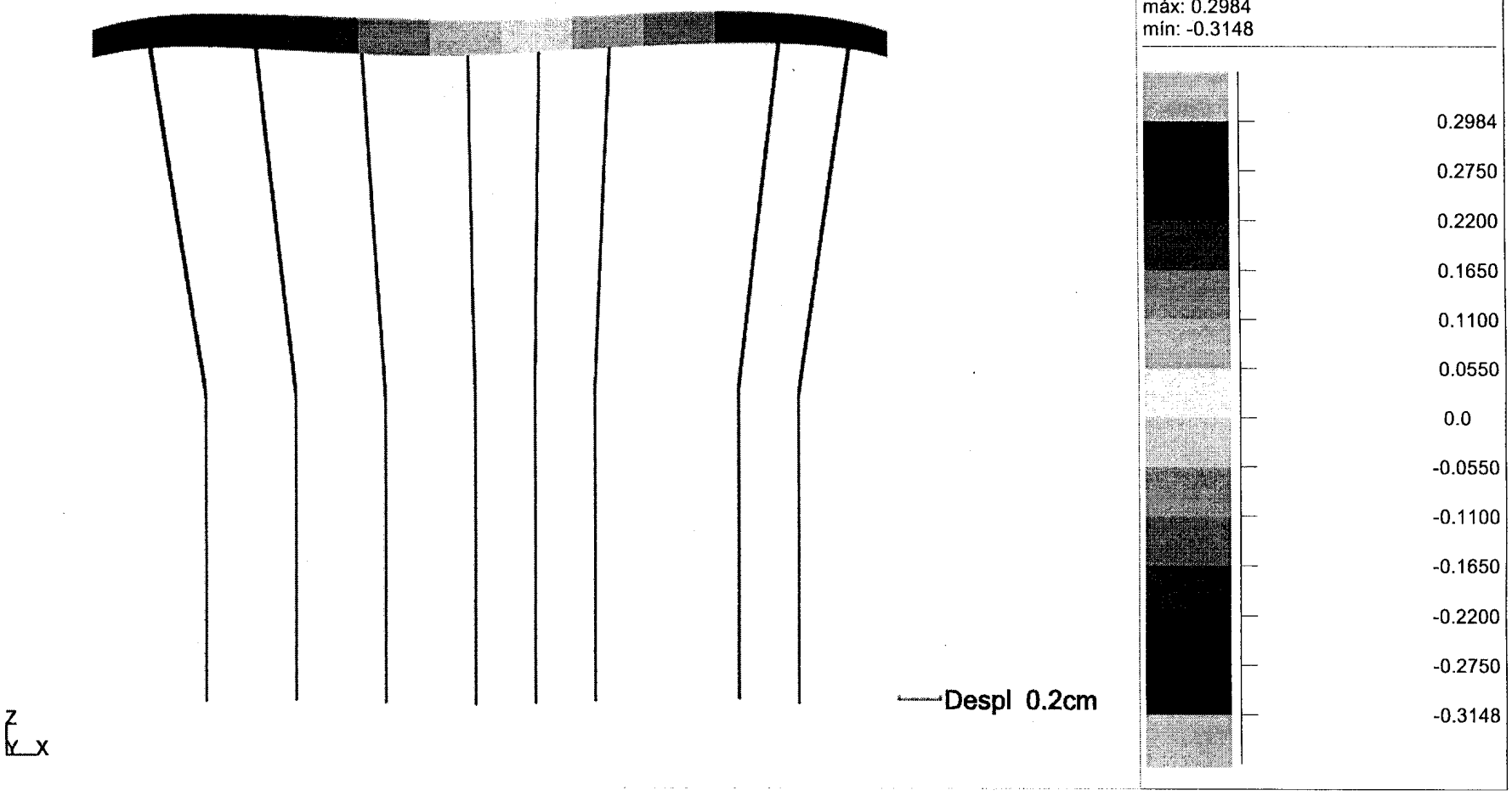





## Mapas para paneles - Deformación;UXX (cm) Dirección X casos: 5 (CONTRACCIÓN+GRADIENTE)



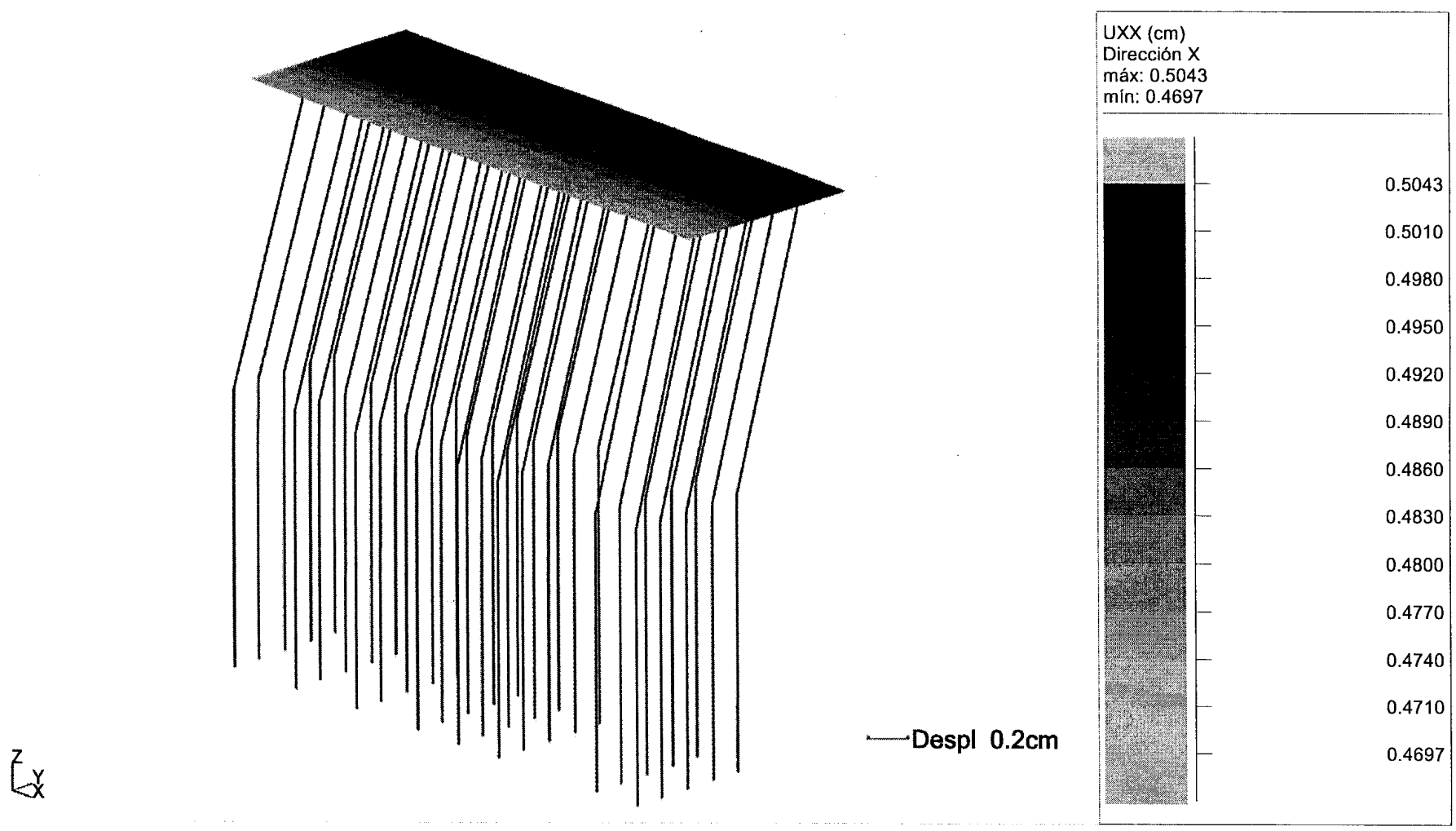
## Mapas para paneles - Deformación;UXX (cm) Dirección X casos: 4 (DILATACIÓN+GRADIENTE)








## Mapas para paneles - Deformación;UXX (cm) Dirección X casos: 13 (FRENADO Y ARRANQUE)



PEDELTA

FECHA

DIMENSIONAMIENTO DE LOS PASADORES EN JUNTA MÓD. 10

Se considerarán 2 hipótesis de cálculo.

Hipótesis 1: Máximo cortante en junta.

$F_d = 163$ T (Fuerza total en ELU 611)

$e = \ell + \Delta\ell = 11 + 17 = 28$ mm (abertura junta)

$\Delta\ell = (\text{retracción} + \text{acortamiento}) = (1'35 \cdot 2'9 + 1'5 \cdot 3'2) \cdot 2 = 17$

Hipótesis 2: Máxima abertura de junta.

$F_d = 91$ T (Fuerza en ELU 44)

$e = \ell + \Delta\ell = 11 + 25 = 36$ mm (abertura junta)

$\Delta\ell = (\text{ret} + \text{temp} + \text{arranque}) = 2 \cdot (1'35 \cdot 2'9 + 1'5 \cdot 3'2 + 1'20 \cdot 3'1)$

$= 25$ mm.

PEDELTA

FECHA

## Movimientos en junta: Módulo 10

Acortamiento losa por retracción = $-2'9$ mm

Acortamiento losa por temperatura = $-3'2$ mm

Acortamiento " por arranque = $-3'1$ mm

Alargamiento losa por temperatura = $3'2$ mm

" " por arranque = $3'1$ mm

Abertura mínima de junta:

Se establece como la necesaria para permitir la dilatación libre de los módulos:

$$\boxed{\ell_{min} = (3'2 + 0'8 \cdot 3'1) \cdot 2 = 11 \text{ mm.}}$$

Abertura máxima de junta:

Igual al acortamiento máximo de los módulos + $\ell_{min}$

$$\left.\begin{array}{l}\Delta\ell = (-2'9 - 3'2 - 0'8 \cdot 3'1) \cdot 2 = 17 \text{ mm}\end{array}\right\} \Rightarrow$$

$$\Rightarrow \boxed{\ell_{max} = \ell_{min} + \Delta\ell = 28 \text{ mm}}$$

# 8 VERIFICACIÓN DEL ELU DE FATIGA

**ELU DE FATIGA**

El Estado Límite Último de Fatiga se ha calculado según las indicaciones dadas en el Eurocódigo 2 parte 2 en su artículo 4.3.7. Se comprueba a fatiga el acero pasivo.

Los cálculos han sido realizados con hojas de cálculo desarrolladas al efecto por los ingenieros de PEDELTA S.L.

Se ha comprobado que las barras de acero pasivo cumplen la siguiente condición:

$$\gamma_{F} \cdot \gamma_{Sd} \cdot \Delta\sigma_{s,\,equ} = \frac{\Delta\sigma_{Rsk}(N^*)}{\gamma_{s,\,fat}}$$

$\Delta\sigma$Rsk (N*) Rango tensional para N* ciclos extraído de las curvas S-N dadas en el apartado 4.3.7.8 de la Parte 2 del Eurocódigo 2. Para el acero de armar se puede tomar igual a 195 MPa (si $N^* = 2 \cdot 10^6$).

$\Delta\sigma$s,equ Rango tensional de daño equivalente, definido como el rango tensional de un espectro de tensión constante con N* ciclos de tensión que da como resultado el mismo daño que el espectro de rangos tensionales originado por las cargas del tráfico circulante. Este parámetro puede ser calculado siguiendo el procedimiento dado en el anejo 106 del Eurocódigo 2.

Se adjuntan a continuación los cálculos realizados.

**PROYECTO :** L.A.V. MADRID-FRONTERA FRANCESA. TRAMO: SANT JOAN DESPÍ - L'HOSPITALET DE LLOBREGAT
**ESTRUCTURA:** LOSA PILOTADA ENTRE EL P.K. 702+980 AL 703+380
**REFERENCIA :** COMPROBACIÓN FATIGA EN LAS ARMADURAS LONGITUDINALES DE LA LOSA. MÓDULO 10.
**SECCIÓN:** Sección entre filas de pilotes

**DATOS GEOMÉTRICOS DE LA SECCIÓN**

| | | |
|---|---|---|
| ANCHO = B = | 1.00 | m |
| CANTO = H = | 0.60 | m |
| ARM. SUPERIOR = As,sup = | 20.90 | cm2 |
| DIST. FIBRA SUP = dsup = | 0.06 | m |
| ARM. INFERIOR = As,inf = | 53.36 | cm2 |
| DIST. FIBRA INF = dinf = | 0.06 | m |

**CARACTERÍSTICAS MECÁNICAS DE LA SECCIÓN NO FISURADA**

| | | |
|---|---|---|
| Ac,red = | 990 | cm2 |
| Ared = | 1064.26 | cm2 |
| Yg,red = | 29.27 | cm |
| Ic,red = | 297530.47 | cm4 |
| Ired = | 339203.50 | cm4 |

**TENSIONES EN LA CAPA INFERIOR DE ACERO**

| | | |
|---|---|---|
| MOMENTO PERMANENTE = | 13.9 | mT |
| MOMENTO SOLICITANTE = | 38.2 | mT |
| TENSIÓN INICIAL = | 95.35 | kp/cm2 |
| TENSIÓN FINAL = | 1464.78 | kp/cm2 |
| VARIACIÓN DE TENSION = | 1369.43 | kp/cm2 |

**PROPIEDADES MATERIALES**

| | | |
|---|---|---|
| RESIST. CARACT. HORM. = fck = | 3000 | T/m2 |
| REST. MEDIA TRACCIÓN = fct,m = | 289.65 | T/m2 |
| MÓD. ELAST. ACERO = Es = | 20000000 | |
| MÓD. ELAST. HORMIG = Ec = | 3300000 | T/m2 |
| Coef. Equivalencia = n = | 6.06 | T/m2 |

**CARACTERÍSTICAS MECÁNICAS DE LA SECCIÓN FISURADA**

| | | |
|---|---|---|
| Mfis = | 20.34 | mT |
| hfis = | 44.89 | |
| Ac,fis,red = | 249.38 | cm2 |
| Afis,red = | 323.64 | cm2 |
| Ic,fis,red = | 18987.81 | cm4 |
| Ifis,red = | 101411.78 | cm4 |

**CÁLCULO DEL RANGO TENSIONAL DE DAÑO EQUIVALENTE Δσs,equ**

| | | |
|---|---|---|
| Δσs,71 vía 1 = | 6847.14 | T/m2 |
| Δσs,71 vía 2 = | 6847.14 | T/m2 |
| λs = | 0.79 | |
| Δσs,equ = | 10866.28 | T/m2 |

**COEFICIENTES CORRECTORES PARCIALES**

| | | | | | |
|---|---|---|---|---|---|
| λs1 = | 0.73 | λs1 (2) = | 0.95 | λs1 (20) = | 0.50 |
| | | k2 = | 9 | Luz = | 6.00 |
| λs2 = | 1.00 | Volumen de tráfico = | | 25,000,000 | T/año y vía |
| λs3 = | 1.00 | Vida en servicio del puente = | | 100 | años |
| λs4 = | 1.08 | Número de trenes que circula simultáneamente por el puente = | | | 2 |
| | | Número de trenes que circulan por una vía = | | | 1 |
| | | s1 = 0.50 | | s2 = 0.50 | |

**MÁXIMO INCREMENTO TENSIONAL PERMITIDO**

| | | |
|---|---|---|
| ΔσRsk = | 19500 | T/m2 |
| γs = | 1.15 | |

**COMPROBACIÓN DEL ELU DE FATIGA**

**ΔσRsk = 16956.52 > 10866.28 = Δσs,equ**

SECCIÓN: Sección sobre fila de pilotes

**DATOS GEOMÉTRICOS DE LA SECCIÓN**

| | | |
|---|---|---|
| ANCHO = B = | 1.00 | m |
| CANTO = H = | 0.60 | m |
| ARM. SUPERIOR = As,sup = | 8.04 | cm2 |
| DIST. FIBRA SUP = dsup = | 0.05 | m |
| ARM. INFERIOR = As,inf = | 20.94 | cm2 |
| DIST. FIBRA INF = dinf = | 0.05 | m |

**CARACTERÍSTICAS MECÁNICAS DE LA SECCIÓN NO FISURADA**

| | | |
|---|---|---|
| Ac,red = | 990 | cm2 |
| Ared = | 1018.98 | cm2 |
| Yg,red = | 29.68 | cm |
| Ic,red = | 297099.17 | cm4 |
| Ired = | 315010.43 | cm4 |

**TENSIONES EN LA CAPA INFERIOR DE ACERO**

| | | |
|---|---|---|
| MOMENTO PERMANENTE = | 10.8 | mT |
| MOMENTO SOLICITANTE = | 20.8 | mT |
| TENSIÓN INICIAL = | 84.63 | kp/cm2 |
| TENSIÓN FINAL = | 1930.08 | kp/cm2 |
| VARIACIÓN DE TENSION = | 1845.45 | kp/cm2 |

**PROPIEDADES MATERIALES**

| | | |
|---|---|---|
| RESIST. CARACT. HORM. = fck = | 3000 | T/m2 |
| REST. MEDIA TRACCIÓN = fct,m = | 289.65 | T/m2 |
| MÓD. ELAST. ACERO = Es = | 20000000 | |
| MÓD. ELAST. HORMIG = Ec = | 3300000 | T/m2 |
| Coef. Equivalencia = n = | 6.06 | T/m2 |

**CARACTERÍSTICAS MECÁNICAS DE LA SECCIÓN FISURADA**

| | | |
|---|---|---|
| Mfis = | 18.63 | mT |
| hfis = | 49.61 | |
| Ac,fis,red = | 171.45 | cm2 |
| Afis,red = | 200.43 | cm2 |
| Ic,fis,red = | 6170.64 | cm4 |
| Ifis,red = | 48074.19 | cm4 |

**CÁLCULO DEL RANGO TENSIONAL DE DAÑO EQUIVALENTE Δσs,equ**

| | | |
|---|---|---|
| Δσs,71 vía 1 = | 9227.24 | T/m2 |
| Δσs,71 vía 2 = | 9227.24 | T/m2 |
| λs = | 0.84 | |
| Δσs,equ = | 15509.21 | T/m2 |

**COEFICIENTES CORRECTORES PARCIALES**

| | | | | | |
|---|---|---|---|---|---|
| λs1 = | 0.78 | λs1 (2) = | 0.85 | λs1 (20) = | 0.70 |
| | | k2 = | 9 | Luz = | 6.00 |
| λs2 = | 1.00 | Volumen de tráfico = | | 25,000,000 | T/año y vía |
| λs3 = | 1.00 | Vida en servicio del puente = | | 100 | años |
| λs4 = | 1.08 | Número de trenes que circula simultáneamente por el puente = | | | 2 |
| | | Número de trenes que circulan por una vía = | | | 1 |
| | | s1 = 0.50 | | s2 = 0.50 | |

**MÁXIMO INCREMENTO TENSIONAL PERMITIDO**

| | | |
|---|---|---|
| ΔσRsk = | 19500 | T/m2 |
| γs = | 1.15 | |

**COMPROBACIÓN DEL ELU DE FATIGA**

**ΔσRsk = 16956.52 > 15509.21 = Δσs,equ**

# 9. CÁLCULO DE LA CIMENTACIÓN

## 9.2. CÁLCULO DEL NÚMERO DE PILOTES

El número de pilotes necesario se ha calculado en función de la carga admisible establecida en el apartado anterior (75 T/pilote). Tal y como se ha descrito en el apartado 1 de la presente memoria, en los primeros 13 m la losa tiene un canto de 0,5 m, y a continuación, para salvar el paso del terraplén sobre los colectores se aumenta el canto hasta 0,6 m. En el listado adjunto se comprueba que bajo esta configuración el axil máximo en ELS para combinación característica es inferior a la carga admisible mencionada.

**Esfuerzos Máximos y Mínimos en Pilotes para Combinación Característica - Casos: 201A270**

**- Casos: 201A270**

| Filtrar | Barra | Caso |
|---|---|---|
| Lista completa | 1 3A123 140A14 | 1A14 101A170 2 |
| Selección | 4A123 | 201A270 |
| | | |
| Número total | 120 | 208 |
| Número seleccionado | 120 | 70 |

**- Casos: 201A270**

| | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| | | | | | | |
| MAX | 71.744 | 1.420 | 6.748 | 0.0 | 4.745 | 0.992 |
| Barra | 81 | 4 | 16 | 4 | 16 | 121 |
| Punto | 4816 | 4713 | 4729 | 4713 | 2/7 | 2/7 |
| Caso | 244 (C) | 240 (C) | 240 (C) | 201 (C) | 240 (C) | 240 (C) |
| | | | | | | |
| MIN | 5.561 | -1.411 | -3.772 | 0.0 | -2.652 | -0.999 |
| Barra | 115 | 121 | 115 | 4 | 115 | 4 |
| Punto | 4861 | 4869 | 4861 | 4713 | 2/7 | 2/7 |
| Caso | 206 (C) | 240 (C) | 206 (C) | 201 (C) | 206 (C) | 240 (C) |
| | | | | | | |

## 9.3. CÁLCULO DE ESFUERZOS Y DIMENSIONAMIENTO

El cálculo y dimensionamiento de los pilotes se detalla en las páginas siguientes. Dicho cálculo se ha llevado a cabo en colaboración con una empresa especializada en pilotes prefabricados. Las hipótesis de cálculo se exponen a continuación:

1. El cálculo se ha realizado según especificaciones de la EHE a partir de las reacciones en coronación que se detallan.

2. El dimensionamiento de las armaduras de flexión y cortante del pilote se realizan con los criterios de la Normativa vigente para estructuras de hormigón (EHE). Los coeficientes de seguridad de las acciones corresponden con un nivel de control intenso $\gamma fg = 1{,}35$ y $\gamma fq = 1{,}50$.

**Envolvente de Esfuerzos en Pilotes para Combinación ELU - Casos: 101A170**

**- Casos: 101A170**

| Filtrar | Barra | Caso |
|---|---|---|
| Lista completa | 1 3A123 140A14 1A14 | 101A170 2 |
| Selección | 4A123 | 101A170 |
| | | |
| Número total | 120 | 208 |
| Número seleccionado | 120 | 70 |

**- Casos: 101A170**

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 4/ 4714/ 157 (C) | 75.605>> | -0.001 | -0.005 | 0.0 | -0.003 | 0.000 |
| 4/ 4713/ 104 (C) | 17.523<< | 0.721 | 2.342 | 0.0 | -0.000 | 0.000 |
| 4/ 4713/ 140 (C) | 50.149 | 2.050>> | 9.614 | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 102 (C) | 19.443 | -0.585<< | -3.246 | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 139 (C) | 45.287 | 2.047 | 9.634>> | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 108 (C) | 50.593 | -0.569 | -3.443<< | 0.0 | 0.000 | 0.000 |
| 4/ 4713/ 101 (C) | 17.600 | 0.081 | -0.187 | 0.0>> | 0.000 | 0.000 |
| 4/ 4713/ 101 (C) | 17.600 | 0.081 | -0.187 | 0.0<< | 0.000 | 0.000 |
| 4/ 2/7/ 139 (C) | 46.321 | -0.279 | -1.312 | 0.0 | 6.774>> | -1.439 |
| 4/ 2/7/ 108 (C) | 51.627 | 0.077 | 0.469 | 0.0 | -2.421<< | 0.400 |
| 4/ 2/7/ 102 (C) | 20.478 | 0.080 | 0.442 | 0.0 | -2.283 | 0.412>> |
| 4/ 2/7/ 140 (C) | 51.183 | -0.279 | -1.309 | 0.0 | 6.761 | -1.442<< |
| 5/ 4715/ 157 (C) | 79.535>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 5/ 4714/ 104 (C) | 23.728<< | 0.002 | 0.006 | 0.0 | 0.004 | -0.001 |
| 5/ 4714/ 140 (C) | 56.354 | 0.005>> | 0.024 | 0.0 | 0.015 | -0.003 |
| 5/ 2/7/ 140 (C) | 57.009 | -0.002<< | -0.009 | 0.0 | 0.019 | -0.004 |
| 5/ 4714/ 139 (C) | 51.492 | 0.005 | 0.024>> | 0.0 | 0.015 | -0.003 |
| 5/ 2/7/ 139 (C) | 52.147 | -0.002 | -0.009<< | 0.0 | 0.019 | -0.004 |
| 5/ 4714/ 101 (C) | 23.805 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 5/ 4714/ 101 (C) | 23.805 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 5/ 2/7/ 139 (C) | 52.147 | -0.002 | -0.009 | 0.0 | 0.019>> | -0.004 |
| 5/ 2/7/ 108 (C) | 57.453 | 0.001 | 0.003 | 0.0 | -0.007<< | 0.001 |
| 5/ 2/7/ 102 (C) | 26.303 | 0.001 | 0.003 | 0.0 | -0.006 | 0.001>> |
| 5/ 2/7/ 140 (C) | 57.009 | -0.002 | -0.009 | 0.0 | 0.019 | -0.004<< |
| 6/ 4716/ 157 (C) | 80.879>> | -0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 6/ 4715/ 104 (C) | 27.658<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 6/ 4715/ 140 (C) | 60.284 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 6/ 4/7/ 140 (C) | 60.956 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 6/ 4715/ 139 (C) | 55.422 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 6/ 4/7/ 139 (C) | 56.094 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 6/ 4715/ 101 (C) | 27.735 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 6/ 4715/ 101 (C) | 27.735 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 6/ 2/7/ 139 (C) | 55.646 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 6/ 2/7/ 108 (C) | 60.951 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 6/ 2/7/ 102 (C) | 29.802 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 6/ 2/7/ 140 (C) | 60.508 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 7/ 4718/ 150 (C) | 69.009>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 7/ 4717/ 106 (C) | 13.026<< | 0.835 | 5.506 | 0.0 | -0.000 | 0.000 |
| 7/ 4717/ 139 (C) | 38.680 | 1.257>> | 9.705 | 0.0 | -0.000 | 0.000 |



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Autor :
Dirección :

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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 7/ 4717/ 108 (C) | 41.113 | -0.308<< | -3.416 | 0.0 | -0.000 | -0.000 |
| 7/ 4717/ 139 (C) | 38.680 | 1.257 | 9.705>> | 0.0 | -0.000 | 0.000 |
| 7/ 4717/ 108 (C) | 41.113 | -0.308 | -3.416<< | 0.0 | -0.000 | -0.000 |
| 7/ 4717/ 101 (C) | 15.028 | 0.043 | -0.180 | 0.0>> | 0.000 | 0.000 |
| 7/ 4717/ 101 (C) | 15.028 | 0.043 | -0.180 | 0.0<< | 0.000 | 0.000 |
| 7/ 2/7/ 139 (C) | 39.714 | -0.171 | -1.321 | 0.0 | 6.824>> | -0.884 |
| 7/ 2/7/ 108 (C) | 42.147 | 0.042 | 0.465 | 0.0 | -2.402<< | 0.217 |
| 7/ 2/7/ 108 (C) | 42.147 | 0.042 | 0.465 | 0.0 | -2.402 | 0.217>> |
| 7/ 2/7/ 139 (C) | 39.714 | -0.171 | -1.321 | 0.0 | 6.824 | -0.884<< |
| 8/ 4719/ 150 (C) | 72.938>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 8/ 4718/ 106 (C) | 19.230<< | 0.002 | 0.014 | 0.0 | 0.009 | -0.001 |
| 8/ 4718/ 139 (C) | 44.884 | 0.003>> | 0.024 | 0.0 | 0.016 | -0.002 |
| 8/ 2/7/ 139 (C) | 45.539 | -0.001<< | -0.009 | 0.0 | 0.019 | -0.002 |
| 8/ 4718/ 139 (C) | 44.884 | 0.003 | 0.024>> | 0.0 | 0.016 | -0.002 |
| 8/ 2/7/ 139 (C) | 45.539 | -0.001 | -0.009<< | 0.0 | 0.019 | -0.002 |
| 8/ 4718/ 101 (C) | 21.233 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 8/ 4718/ 101 (C) | 21.233 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 8/ 2/7/ 139 (C) | 45.539 | -0.001 | -0.009 | 0.0 | 0.019>> | -0.002 |
| 8/ 2/7/ 108 (C) | 47.973 | 0.000 | 0.003 | 0.0 | -0.007<< | 0.001 |
| 8/ 2/7/ 108 (C) | 47.973 | 0.000 | 0.003 | 0.0 | -0.007 | 0.001>> |
| 8/ 2/7/ 139 (C) | 45.539 | -0.001 | -0.009 | 0.0 | 0.019 | -0.002<< |
| 9/ 4720/ 150 (C) | 74.283>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 9/ 4719/ 106 (C) | 23.160<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 9/ 4719/ 139 (C) | 48.814 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 9/ 4/7/ 139 (C) | 49.486 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 9/ 4719/ 139 (C) | 48.814 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 9/ 4/7/ 139 (C) | 49.486 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 9/ 4719/ 101 (C) | 25.163 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 9/ 4719/ 101 (C) | 25.163 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 9/ 2/7/ 139 (C) | 49.038 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 9/ 2/7/ 108 (C) | 51.472 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 9/ 2/7/ 108 (C) | 51.472 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 9/ 2/7/ 139 (C) | 49.038 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 10/ 4722/ 148 (C) | 65.387>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 10/ 4721/ 106 (C) | 10.974<< | 0.000 | 5.518 | 0.0 | -0.000 | 0.000 |
| 10/ 4721/ 143 (C) | 43.881 | 0.509>> | 9.575 | 0.0 | -0.000 | 0.000 |
| 10/ 3/7/ 143 (C) | 45.949 | -0.083<< | -1.556 | 0.0 | 2.219 | -0.118 |
| 10/ 4721/ 139 (C) | 36.299 | 0.407 | 9.776>> | 0.0 | -0.000 | 0.000 |
| 10/ 4721/ 108 (C) | 36.561 | -0.030 | -3.401<< | 0.0 | 0.000 | -0.000 |
| 10/ 4721/ 101 (C) | 14.150 | -0.000 | -0.177 | 0.0>> | 0.000 | -0.000 |
| 10/ 4721/ 101 (C) | 14.150 | -0.000 | -0.177 | 0.0<< | 0.000 | -0.000 |
| 10/ 2/7/ 139 (C) | 37.333 | -0.055 | -1.331 | 0.0 | 6.874>> | -0.286 |
| 10/ 2/7/ 108 (C) | 37.596 | 0.004 | 0.463 | 0.0 | -2.392<< | 0.021 |
| 10/ 2/7/ 112 (C) | 45.149 | 0.005 | 0.303 | 0.0 | -1.563 | 0.026>> |
| 10/ 2/7/ 143 (C) | 44.915 | -0.069 | -1.304 | 0.0 | 6.733 | -0.358<< |
| 11/ 4723/ 148 (C) | 69.317>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 11/ 4722/ 106 (C) | 17.179<< | 0.000 | 0.014 | 0.0 | 0.009 | -0.000 |
| 11/ 4722/ 143 (C) | 50.086 | 0.001>> | 0.024 | 0.0 | 0.015 | -0.001 |
| 11/ 2/7/ 143 (C) | 50.741 | -0.000<< | -0.009 | 0.0 | 0.019 | -0.001 |
| 11/ 4722/ 139 (C) | 42.504 | 0.001 | 0.024>> | 0.0 | 0.016 | -0.001 |
| 11/ 2/7/ 139 (C) | 43.159 | -0.000 | -0.009<< | 0.0 | 0.019 | -0.001 |
| 11/ 4722/ 101 (C) | 20.355 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 11/ 4722/ 101 (C) | 20.355 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 11/ 2/7/ 139 (C) | 43.159 | -0.000 | -0.009 | 0.0 | 0.019>> | -0.001 |
| 11/ 2/7/ 108 (C) | 43.421 | 0.000 | 0.003 | 0.0 | -0.007<< | 0.000 |
| 11/ 2/7/ 112 (C) | 50.974 | 0.000 | 0.002 | 0.0 | -0.004 | 0.000>> |
| 11/ 2/7/ 143 (C) | 50.741 | -0.000 | -0.009 | 0.0 | 0.019 | -0.001<< |
| 12/ 4724/ 148 (C) | 70.662>> | 0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 12/ 4723/ 106 (C) | 21.108<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 12/ 4723/ 143 (C) | 54.016 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 12/ 4/7/ 143 (C) | 54.688 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 12/ 4723/ 139 (C) | 46.434 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 12/ 4/7/ 139 (C) | 47.106 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 12/ 4723/ 101 (C) | 24.285 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 12/ 4723/ 101 (C) | 24.285 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 12/ 2/7/ 139 (C) | 46.658 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 12/ 2/7/ 108 (C) | 46.920 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 12/ 2/7/ 112 (C) | 54.473 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 12/ 2/7/ 143 (C) | 54.240 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 13/ 4726/ 148 (C) | 66.403>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 13/ 4725/ 106 (C) | 13.026<< | -0.835 | 5.506 | 0.0 | -0.000 | 0.000 |
| 13/ 4725/ 117 (C) | 38.910 | 0.700>> | 1.075 | 0.0 | 0.000 | -0.000 |
| 13/ 4725/ 130 (C) | 36.672 | -0.868<< | 5.344 | 0.0 | -0.000 | 0.000 |
| 13/ 4725/ 140 (C) | 36.528 | -0.461 | 9.823>> | 0.0 | 0.000 | 0.000 |
| 13/ 4725/ 107 (C) | 39.054 | 0.293 | -3.405<< | 0.0 | 0.000 | -0.000 |
| 13/ 4725/ 101 (C) | 15.028 | -0.043 | -0.180 | 0.0>> | 0.000 | -0.000 |
| 13/ 4725/ 101 (C) | 15.028 | -0.043 | -0.180 | 0.0<< | 0.000 | -0.000 |
| 13/ 2/7/ 140 (C) | 37.562 | 0.063 | -1.337 | 0.0 | 6.908>> | 0.324 |
| 13/ 2/7/ 107 (C) | 40.088 | -0.040 | 0.464 | 0.0 | -2.394<< | -0.206 |
| 13/ 2/7/ 130 (C) | 37.706 | 0.118 | -0.727 | 0.0 | 3.758 | 0.610>> |
| 13/ 2/7/ 117 (C) | 39.944 | -0.095 | -0.146 | 0.0 | 0.756 | -0.492<< |
| 14/ 4727/ 148 (C) | 70.333>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 14/ 4726/ 106 (C) | 19.230<< | -0.002 | 0.014 | 0.0 | 0.009 | 0.001 |
| 14/ 4726/ 117 (C) | 45.115 | 0.002>> | 0.003 | 0.0 | 0.002 | -0.001 |
| 14/ 4726/ 130 (C) | 42.877 | -0.002<< | 0.013 | 0.0 | 0.009 | 0.001 |
| 14/ 4726/ 140 (C) | 42.732 | -0.001 | 0.024>> | 0.0 | 0.016 | 0.001 |
| 14/ 2/7/ 140 (C) | 43.387 | 0.000 | -0.009<< | 0.0 | 0.019 | 0.001 |
| 14/ 4726/ 101 (C) | 21.233 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 14/ 4726/ 101 (C) | 21.233 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 14/ 2/7/ 140 (C) | 43.387 | 0.000 | -0.009 | 0.0 | 0.019>> | 0.001 |
| 14/ 2/7/ 107 (C) | 45.914 | -0.000 | 0.003 | 0.0 | -0.007<< | -0.001 |
| 14/ 2/7/ 130 (C) | 43.532 | 0.001 | -0.005 | 0.0 | 0.010 | 0.002>> |
| 14/ 2/7/ 117 (C) | 45.770 | -0.001 | -0.001 | 0.0 | 0.002 | -0.001<< |
| 15/ 4728/ 148 (C) | 71.677>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 15/ 4727/ 106 (C) | 23.160<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 117 (C) | 49.045 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 15/ 4727/ 130 (C) | 46.807 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 140 (C) | 46.662 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 15/ 4/7/ 140 (C) | 47.334 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 15/ 4727/ 101 (C) | 25.163 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 15/ 4727/ 101 (C) | 25.163 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 15/ 2/7/ 140 (C) | 46.886 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 15/ 2/7/ 107 (C) | 49.413 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 15/ 2/7/ 130 (C) | 47.031 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |



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Dirección :
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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 15/ 2/7/ 117 (C) | 49.269 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 16/ 4730/ 153 (C) | 69.308>> | 0.001 | -0.005 | 0.0 | -0.003 | -0.001 |
| 16/ 4729/ 104 (C) | 17.523<< | -0.721 | 2.342 | 0.0 | 0.000 | -0.000 |
| 16/ 4729/ 117 (C) | 45.620 | 0.979>> | 1.105 | 0.0 | 0.000 | 0.000 |
| 16/ 4729/ 130 (C) | 40.739 | -1.646<< | 5.332 | 0.0 | -0.000 | -0.000 |
| 16/ 4729/ 140 (C) | 40.628 | -1.239 | 9.861>> | 0.0 | -0.000 | -0.000 |
| 16/ 4729/ 107 (C) | 45.730 | 0.572 | -3.424<< | 0.0 | 0.000 | -0.000 |
| 16/ 4729/ 101 (C) | 17.600 | -0.081 | -0.187 | 0.0>> | 0.000 | -0.000 |
| 16/ 4729/ 101 (C) | 17.600 | -0.081 | -0.187 | 0.0<< | 0.000 | -0.000 |
| 16/ 2/7/ 140 (C) | 41.662 | 0.169 | -1.343 | 0.0 | 6.934>> | 0.871 |
| 16/ 2/7/ 107 (C) | 46.765 | -0.078 | 0.466 | 0.0 | -2.408<< | -0.402 |
| 16/ 2/7/ 130 (C) | 41.773 | 0.224 | -0.726 | 0.0 | 3.750 | 1.157>> |
| 16/ 2/7/ 117 (C) | 46.654 | -0.133 | -0.150 | 0.0 | 0.777 | -0.688<< |
| 17/ 4731/ 153 (C) | 73.238>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 17/ 4730/ 104 (C) | 23.728<< | -0.002 | 0.006 | 0.0 | 0.004 | 0.001 |
| 17/ 4730/ 117 (C) | 51.824 | 0.002>> | 0.003 | 0.0 | 0.002 | -0.002 |
| 17/ 4730/ 130 (C) | 46.944 | -0.004<< | 0.013 | 0.0 | 0.009 | 0.003 |
| 17/ 4730/ 140 (C) | 46.833 | -0.003 | 0.024>> | 0.0 | 0.016 | 0.002 |
| 17/ 2/7/ 140 (C) | 47.488 | 0.001 | -0.009<< | 0.0 | 0.019 | 0.002 |
| 17/ 4730/ 101 (C) | 23.805 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 17/ 4730/ 101 (C) | 23.805 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 17/ 2/7/ 140 (C) | 47.488 | 0.001 | -0.009 | 0.0 | 0.019>> | 0.002 |
| 17/ 2/7/ 107 (C) | 52.590 | -0.001 | 0.003 | 0.0 | -0.007<< | -0.001 |
| 17/ 2/7/ 130 (C) | 47.599 | 0.002 | -0.005 | 0.0 | 0.010 | 0.003>> |
| 17/ 2/7/ 117 (C) | 52.479 | -0.001 | -0.001 | 0.0 | 0.002 | -0.002<< |
| 18/ 4732/ 153 (C) | 74.583>> | 0.000 | 0.000 | 0.0 | -0.000 | -0.000 |
| 18/ 4731/ 104 (C) | 27.658<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 18/ 4731/ 117 (C) | 55.754 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 18/ 4731/ 130 (C) | 50.874 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 18/ 4731/ 140 (C) | 50.763 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 18/ 4/7/ 140 (C) | 51.435 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 18/ 4731/ 101 (C) | 27.735 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 18/ 4731/ 101 (C) | 27.735 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 18/ 2/7/ 140 (C) | 50.987 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 18/ 2/7/ 107 (C) | 56.089 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 18/ 2/7/ 130 (C) | 51.098 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 18/ 2/7/ 117 (C) | 55.978 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 19/ 4734/ 134 (C) | 88.361>> | 0.003 | 0.007 | 0.0 | 0.005 | -0.002 |
| 19/ 4733/ 147 (C) | 26.979<< | 0.097 | -0.041 | 0.0 | 0.000 | 0.000 |
| 19/ 4733/ 140 (C) | 71.940 | 1.994>> | 8.135 | 0.0 | -0.000 | 0.000 |
| 19/ 4733/ 102 (C) | 29.215 | -0.551<< | -2.229 | 0.0 | 0.000 | 0.000 |
| 19/ 4733/ 143 (C) | 74.335 | 1.684 | 8.346>> | 0.0 | -0.000 | 0.000 |
| 19/ 4733/ 108 (C) | 71.838 | -0.502 | -2.288<< | 0.0 | 0.000 | 0.000 |
| 19/ 4733/ 101 (C) | 28.142 | 0.101 | -0.050 | 0.0>> | 0.000 | 0.000 |
| 19/ 4733/ 101 (C) | 28.142 | 0.101 | -0.050 | 0.0<< | 0.000 | 0.000 |
| 19/ 2/7/ 143 (C) | 75.369 | -0.229 | -1.136 | 0.0 | 5.869>> | -1.184 |
| 19/ 2/7/ 108 (C) | 72.872 | 0.068 | 0.311 | 0.0 | -1.609<< | 0.353 |
| 19/ 2/7/ 102 (C) | 30.249 | 0.075 | 0.303 | 0.0 | -1.568 | 0.387>> |
| 19/ 2/7/ 140 (C) | 72.975 | -0.271 | -1.108 | 0.0 | 5.721 | -1.402<< |
| 20/ 4735/ 134 (C) | 92.290>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 20/ 4734/ 147 (C) | 33.184<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 20/ 4734/ 140 (C) | 78.145 | 0.005>> | 0.020 | 0.0 | 0.013 | -0.003 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 20/ 2/7/ 140 (C) | 78.800 | -0.002<< | -0.008 | 0.0 | 0.016 | -0.004 |
| 20/ 4734/ 143 (C) | 80.540 | 0.004 | 0.021>> | 0.0 | 0.013 | -0.003 |
| 20/ 2/7/ 143 (C) | 81.195 | -0.002 | -0.008<< | 0.0 | 0.016 | -0.003 |
| 20/ 4734/ 101 (C) | 34.347 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 20/ 4734/ 101 (C) | 34.347 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 20/ 2/7/ 143 (C) | 81.195 | -0.002 | -0.008 | 0.0 | 0.016>> | -0.003 |
| 20/ 2/7/ 108 (C) | 78.698 | 0.000 | 0.002 | 0.0 | -0.004<< | 0.001 |
| 20/ 2/7/ 102 (C) | 36.075 | 0.001 | 0.002 | 0.0 | -0.004 | 0.001>> |
| 20/ 2/7/ 140 (C) | 78.800 | -0.002 | -0.008 | 0.0 | 0.016 | -0.004<< |
| 21/ 4736/ 134 (C) | 93.635>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 21/ 4735/ 147 (C) | 37.114<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 21/ 4735/ 140 (C) | 82.075 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 21/ 4/7/ 140 (C) | 82.747 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 21/ 4735/ 143 (C) | 84.469 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 21/ 4/7/ 143 (C) | 85.142 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 21/ 4735/ 101 (C) | 38.277 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 21/ 4735/ 101 (C) | 38.277 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 21/ 2/7/ 143 (C) | 84.693 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 21/ 2/7/ 108 (C) | 82.197 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 21/ 2/7/ 102 (C) | 39.574 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 21/ 2/7/ 140 (C) | 82.299 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 22/ 4738/ 136 (C) | 78.972>> | 0.001 | 0.004 | 0.0 | 0.003 | -0.001 |
| 22/ 4737/ 102 (C) | 21.869<< | -0.288 | -2.223 | 0.0 | 0.000 | -0.000 |
| 22/ 4737/ 140 (C) | 60.287 | 1.161>> | 8.198 | 0.0 | -0.000 | 0.000 |
| 22/ 4737/ 102 (C) | 21.869 | -0.288<< | -2.223 | 0.0 | 0.000 | -0.000 |
| 22/ 4737/ 143 (C) | 67.530 | 1.048 | 8.418>> | 0.0 | -0.000 | 0.000 |
| 22/ 4737/ 108 (C) | 60.086 | -0.265 | -2.276<< | 0.0 | 0.000 | -0.000 |
| 22/ 4737/ 101 (C) | 24.934 | 0.054 | -0.047 | 0.0>> | -0.000 | 0.000 |
| 22/ 4737/ 101 (C) | 24.934 | 0.054 | -0.047 | 0.0<< | -0.000 | 0.000 |
| 22/ 2/7/ 143 (C) | 68.564 | -0.143 | -1.146 | 0.0 | 5.920>> | -0.737 |
| 22/ 2/7/ 108 (C) | 61.120 | 0.036 | 0.310 | 0.0 | -1.601<< | 0.186 |
| 22/ 2/7/ 102 (C) | 22.903 | 0.039 | 0.303 | 0.0 | -1.563 | 0.203>> |
| 22/ 2/7/ 140 (C) | 61.321 | -0.158 | -1.116 | 0.0 | 5.765 | -0.817<< |
| 23/ 4739/ 136 (C) | 82.902>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 23/ 4738/ 102 (C) | 28.074<< | -0.001 | -0.005 | 0.0 | -0.004 | 0.000 |
| 23/ 4738/ 140 (C) | 66.492 | 0.003>> | 0.020 | 0.0 | 0.013 | -0.002 |
| 23/ 2/7/ 140 (C) | 67.147 | -0.001<< | -0.008 | 0.0 | 0.016 | -0.002 |
| 23/ 4738/ 143 (C) | 73.735 | 0.003 | 0.021>> | 0.0 | 0.014 | -0.002 |
| 23/ 2/7/ 143 (C) | 74.390 | -0.001 | -0.008<< | 0.0 | 0.016 | -0.002 |
| 23/ 4738/ 101 (C) | 31.139 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 23/ 4738/ 101 (C) | 31.139 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 23/ 2/7/ 143 (C) | 74.390 | -0.001 | -0.008 | 0.0 | 0.016>> | -0.002 |
| 23/ 2/7/ 108 (C) | 66.946 | 0.000 | 0.002 | 0.0 | -0.004<< | 0.001 |
| 23/ 2/7/ 102 (C) | 28.729 | 0.000 | 0.002 | 0.0 | -0.004 | 0.001>> |
| 23/ 2/7/ 140 (C) | 67.147 | -0.001 | -0.008 | 0.0 | 0.016 | -0.002<< |
| 24/ 4740/ 136 (C) | 84.246>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 24/ 4739/ 102 (C) | 32.003<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 24/ 4739/ 140 (C) | 70.422 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 24/ 4/7/ 140 (C) | 71.094 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 24/ 4739/ 143 (C) | 77.665 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 24/ 4/7/ 143 (C) | 78.337 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 24/ 4739/ 101 (C) | 35.069 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 24/ 4739/ 101 (C) | 35.069 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 24/ 2/7/ 143 (C) | 77.889 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 24/ 2/7/ 108 (C) | 70.444 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 24/ 2/7/ 102 (C) | 32.227 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 24/ 2/7/ 140 (C) | 70.646 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 25/ 4742/ 145 (C) | 73.827>> | 0.001 | 0.018 | 0.0 | 0.012 | -0.001 |
| 25/ 4741/ 102 (C) | 19.398<< | -0.000 | -2.222 | 0.0 | 0.000 | -0.000 |
| 25/ 4741/ 143 (C) | 65.057 | 0.353>> | 8.496 | 0.0 | -0.000 | 0.000 |
| 25/ 3/7/ 143 (C) | 67.125 | -0.057<< | -1.381 | 0.0 | 1.969 | -0.082 |
| 25/ 4741/ 144 (C) | 64.978 | 0.336 | 8.496>> | 0.0 | -0.000 | 0.000 |
| 25/ 4741/ 107 (C) | 54.357 | -0.000 | -2.271<< | 0.0 | 0.000 | -0.000 |
| 25/ 4741/ 101 (C) | 23.852 | 0.000 | -0.045 | 0.0>> | 0.000 | 0.000 |
| 25/ 4741/ 101 (C) | 23.852 | 0.000 | -0.045 | 0.0<< | 0.000 | 0.000 |
| 25/ 2/7/ 144 (C) | 66.012 | -0.046 | -1.157 | 0.0 | 5.974>> | -0.236 |
| 25/ 2/7/ 107 (C) | 55.391 | 0.000 | 0.309 | 0.0 | -1.597<< | 0.000 |
| 25/ 2/7/ 112 (C) | 65.833 | 0.002 | 0.192 | 0.0 | -0.994 | 0.012>> |
| 25/ 2/7/ 143 (C) | 66.091 | -0.048 | -1.157 | 0.0 | 5.974 | -0.248<< |
| 26/ 4743/ 145 (C) | 77.757>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 26/ 4742/ 102 (C) | 25.603<< | -0.000 | -0.005 | 0.0 | -0.004 | 0.000 |
| 26/ 4742/ 143 (C) | 71.261 | 0.001>> | 0.021 | 0.0 | 0.014 | -0.001 |
| 26/ 2/7/ 143 (C) | 71.916 | -0.000<< | -0.008 | 0.0 | 0.017 | -0.001 |
| 26/ 4742/ 144 (C) | 71.183 | 0.001 | 0.021>> | 0.0 | 0.014 | -0.001 |
| 26/ 2/7/ 144 (C) | 71.837 | -0.000 | -0.008<< | 0.0 | 0.017 | -0.001 |
| 26/ 4742/ 101 (C) | 30.057 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 26/ 4742/ 101 (C) | 30.057 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 26/ 2/7/ 144 (C) | 71.837 | -0.000 | -0.008 | 0.0 | 0.017>> | -0.001 |
| 26/ 2/7/ 107 (C) | 61.217 | 0.000 | 0.002 | 0.0 | -0.004<< | 0.000 |
| 26/ 2/7/ 112 (C) | 71.658 | 0.000 | 0.001 | 0.0 | -0.003 | 0.000>> |
| 26/ 2/7/ 143 (C) | 71.916 | -0.000 | -0.008 | 0.0 | 0.017 | -0.001<< |
| 27/ 4744/ 145 (C) | 79.101>> | 0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 27/ 4743/ 102 (C) | 29.533<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 27/ 4743/ 143 (C) | 75.191 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 27/ 4/7/ 143 (C) | 75.863 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 27/ 4743/ 144 (C) | 75.112 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 27/ 4/7/ 144 (C) | 75.785 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 27/ 4743/ 101 (C) | 33.986 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 27/ 4743/ 101 (C) | 33.986 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 27/ 2/7/ 144 (C) | 75.336 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 27/ 2/7/ 107 (C) | 64.715 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 27/ 2/7/ 112 (C) | 75.157 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 27/ 2/7/ 143 (C) | 75.415 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 28/ 4746/ 145 (C) | 75.523>> | -0.000 | 0.018 | 0.0 | 0.012 | 0.000 |
| 28/ 4745/ 102 (C) | 21.869<< | 0.288 | -2.223 | 0.0 | 0.000 | 0.000 |
| 28/ 4745/ 117 (C) | 57.326 | 0.548>> | 2.208 | 0.0 | 0.000 | 0.000 |
| 28/ 4745/ 130 (C) | 54.661 | -0.880<< | 3.831 | 0.0 | -0.000 | 0.000 |
| 28/ 4745/ 144 (C) | 63.995 | -0.346 | 8.558>> | 0.0 | -0.000 | 0.000 |
| 28/ 4745/ 107 (C) | 57.307 | 0.266 | -2.273<< | 0.0 | 0.000 | -0.000 |
| 28/ 4745/ 101 (C) | 24.934 | -0.054 | -0.047 | 0.0>> | -0.000 | 0.000 |
| 28/ 4745/ 101 (C) | 24.934 | -0.054 | -0.047 | 0.0<< | -0.000 | 0.000 |
| 28/ 2/7/ 144 (C) | 65.029 | 0.047 | -1.165 | 0.0 | 6.018>> | 0.243 |
| 28/ 2/7/ 107 (C) | 58.342 | -0.036 | 0.309 | 0.0 | -1.598<< | -0.187 |
| 28/ 2/7/ 130 (C) | 55.695 | 0.120 | -0.522 | 0.0 | 2.694 | 0.619>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 28/ 2/7/ 117 (C) | 58.361 | -0.075 | -0.301 | 0.0 | 1.553 | -0.385<< |
| 29/ 4747/ 145 (C) | 79.453>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 29/ 4746/ 102 (C) | 28.074<< | 0.001 | -0.005 | 0.0 | -0.004 | -0.000 |
| 29/ 4746/ 117 (C) | 63.531 | 0.001>> | 0.005 | 0.0 | 0.004 | -0.001 |
| 29/ 4746/ 130 (C) | 60.866 | -0.002<< | 0.009 | 0.0 | 0.006 | 0.001 |
| 29/ 4746/ 144 (C) | 70.199 | -0.001 | 0.021>> | 0.0 | 0.014 | 0.001 |
| 29/ 2/7/ 144 (C) | 70.854 | 0.000 | -0.008<< | 0.0 | 0.017 | 0.001 |
| 29/ 4746/ 101 (C) | 31.139 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 29/ 4746/ 101 (C) | 31.139 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 29/ 2/7/ 144 (C) | 70.854 | 0.000 | -0.008 | 0.0 | 0.017>> | 0.001 |
| 29/ 2/7/ 107 (C) | 64.167 | -0.000 | 0.002 | 0.0 | -0.004<< | -0.001 |
| 29/ 2/7/ 130 (C) | 61.521 | 0.001 | -0.004 | 0.0 | 0.007 | 0.002>> |
| 29/ 2/7/ 117 (C) | 64.186 | -0.001 | -0.002 | 0.0 | 0.004 | -0.001<< |
| 30/ 4748/ 145 (C) | 80.797>> | -0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 30/ 4747/ 102 (C) | 32.003<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 30/ 4747/ 117 (C) | 67.461 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 30/ 4747/ 130 (C) | 64.796 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 30/ 4747/ 144 (C) | 74.129 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 30/ 4/7/ 144 (C) | 74.801 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 30/ 4747/ 101 (C) | 35.069 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 30/ 4747/ 101 (C) | 35.069 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 30/ 2/7/ 144 (C) | 74.353 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 30/ 2/7/ 107 (C) | 67.666 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 30/ 2/7/ 130 (C) | 65.020 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 30/ 2/7/ 117 (C) | 67.685 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 31/ 4750/ 143 (C) | 80.626>> | -0.002 | 0.021 | 0.0 | 0.014 | 0.002 |
| 31/ 4749/ 149 (C) | 26.863<< | -0.103 | -0.033 | 0.0 | 0.000 | -0.000 |
| 31/ 4749/ 118 (C) | 59.615 | 0.812>> | 2.255 | 0.0 | -0.000 | -0.000 |
| 31/ 4749/ 129 (C) | 65.733 | -1.692<< | 3.819 | 0.0 | -0.000 | -0.000 |
| 31/ 4749/ 144 (C) | 66.878 | -0.967 | 8.614>> | 0.0 | -0.000 | -0.000 |
| 31/ 4749/ 107 (C) | 65.606 | 0.521 | -2.282<< | 0.0 | 0.000 | -0.000 |
| 31/ 4749/ 101 (C) | 28.142 | -0.101 | -0.050 | 0.0>> | 0.000 | -0.000 |
| 31/ 4749/ 101 (C) | 28.142 | -0.101 | -0.050 | 0.0<< | 0.000 | -0.000 |
| 31/ 2/7/ 144 (C) | 67.912 | 0.132 | -1.173 | 0.0 | 6.057>> | 0.680 |
| 31/ 2/7/ 107 (C) | 66.640 | -0.071 | 0.311 | 0.0 | -1.605<< | -0.366 |
| 31/ 2/7/ 129 (C) | 66.767 | 0.230 | -0.520 | 0.0 | 2.686 | 1.190>> |
| 31/ 2/7/ 118 (C) | 60.649 | -0.111 | -0.307 | 0.0 | 1.585 | -0.571<< |
| 32/ 4751/ 143 (C) | 84.556>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 32/ 4750/ 149 (C) | 33.068<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 32/ 4750/ 118 (C) | 65.820 | 0.802>> | 0.006 | 0.0 | 0.004 | -0.001 |
| 32/ 4750/ 129 (C) | 71.938 | -0.004<< | 0.009 | 0.0 | 0.006 | 0.003 |
| 32/ 4750/ 144 (C) | 73.082 | -0.002 | 0.021>> | 0.0 | 0.014 | 0.002 |
| 32/ 2/7/ 144 (C) | 73.737 | 0.001 | -0.008<< | 0.0 | 0.017 | 0.002 |
| 32/ 4750/ 101 (C) | 34.347 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 32/ 4750/ 101 (C) | 34.347 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 32/ 2/7/ 144 (C) | 73.737 | 0.001 | -0.008 | 0.0 | 0.017>> | 0.002 |
| 32/ 2/7/ 107 (C) | 72.466 | -0.000 | 0.002 | 0.0 | -0.004<< | -0.001 |
| 32/ 2/7/ 129 (C) | 72.593 | 0.002 | -0.004 | 0.0 | 0.007 | 0.003>> |
| 32/ 2/7/ 118 (C) | 66.475 | -0.001 | -0.002 | 0.0 | 0.004 | -0.002<< |
| 33/ 4752/ 143 (C) | 85.900>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 33/ 4751/ 149 (C) | 36.997<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 33/ 4751/ 118 (C) | 69.750 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 33/ 4751/ 129 (C) | 75.868 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 33/ 4751/ 144 (C) | 77.012 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 33/ 4/7/ 144 (C) | 77.684 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 33/ 4751/ 101 (C) | 38.277 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 33/ 4751/ 101 (C) | 38.277 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 33/ 2/7/ 144 (C) | 77.236 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 33/ 2/7/ 107 (C) | 75.964 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 33/ 2/7/ 129 (C) | 76.092 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 33/ 2/7/ 118 (C) | 69.974 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 34/ 4754/ 134 (C) | 88.081>> | 0.003 | 0.004 | 0.0 | 0.003 | -0.002 |
| 34/ 4753/ 147 (C) | 24.387<< | 0.094 | 0.024 | 0.0 | -0.000 | -0.000 |
| 34/ 4753/ 140 (C) | 72.471 | 1.884>> | 6.593 | 0.0 | -0.000 | 0.000 |
| 34/ 4753/ 102 (C) | 30.321 | -0.543<< | -1.223 | 0.0 | 0.000 | -0.000 |
| 34/ 4753/ 144 (C) | 81.843 | 1.566 | 7.191>> | 0.0 | -0.000 | 0.000 |
| 34/ 4753/ 102 (C) | 30.321 | -0.543 | -1.223<< | 0.0 | 0.000 | -0.000 |
| 34/ 4753/ 101 (C) | 27.602 | 0.101 | 0.019 | 0.0>> | -0.000 | 0.000 |
| 34/ 4753/ 101 (C) | 27.602 | 0.101 | 0.019 | 0.0<< | -0.000 | 0.000 |
| 34/ 2/7/ 144 (C) | 82.877 | -0.213 | -0.979 | 0.0 | 5.057>> | -1.101 |
| 34/ 2/7/ 102 (C) | 31.355 | 0.074 | 0.167 | 0.0 | -0.860<< | 0.382 |
| 34/ 2/7/ 102 (C) | 31.355 | 0.074 | 0.167 | 0.0 | -0.860 | 0.382>> |
| 34/ 2/7/ 140 (C) | 73.505 | -0.256 | -0.898 | 0.0 | 4.636 | -1.325<< |
| 35/ 4755/ 134 (C) | 92.011>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 35/ 4754/ 147 (C) | 30.592<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 35/ 4754/ 140 (C) | 78.676 | 0.005>> | 0.016 | 0.0 | 0.011 | -0.003 |
| 35/ 2/7/ 140 (C) | 79.331 | -0.002<< | -0.006 | 0.0 | 0.013 | -0.004 |
| 35/ 4754/ 144 (C) | 88.048 | 0.004 | 0.018>> | 0.0 | 0.012 | -0.003 |
| 35/ 2/7/ 144 (C) | 88.703 | -0.001 | -0.007<< | 0.0 | 0.014 | -0.003 |
| 35/ 4754/ 101 (C) | 33.807 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 35/ 4754/ 101 (C) | 33.807 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 35/ 2/7/ 144 (C) | 88.703 | -0.001 | -0.007 | 0.0 | 0.014>> | -0.003 |
| 35/ 2/7/ 102 (C) | 37.181 | 0.001 | 0.001 | 0.0 | -0.002<< | 0.001 |
| 35/ 2/7/ 102 (C) | 37.181 | 0.001 | 0.001 | 0.0 | -0.002 | 0.001>> |
| 35/ 2/7/ 140 (C) | 79.331 | -0.002 | -0.006 | 0.0 | 0.013 | -0.004<< |
| 36/ 4756/ 134 (C) | 93.355>> | 0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 147 (C) | 34.522<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 140 (C) | 82.606 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4/7/ 140 (C) | 83.278 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 144 (C) | 91.977 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 36/ 4/7/ 144 (C) | 92.650 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 36/ 4755/ 101 (C) | 37.737 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 36/ 4755/ 101 (C) | 37.737 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 36/ 2/7/ 144 (C) | 92.201 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 36/ 2/7/ 102 (C) | 40.680 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 36/ 2/7/ 102 (C) | 40.680 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 36/ 2/7/ 140 (C) | 82.830 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 37/ 4758/ 136 (C) | 77.424>> | 0.001 | 0.003 | 0.0 | 0.002 | -0.001 |
| 37/ 4757/ 151 (C) | 20.335<< | -0.151 | -0.722 | 0.0 | 0.000 | -0.000 |
| 37/ 4757/ 140 (C) | 60.361 | 1.049>> | 6.642 | 0.0 | -0.000 | 0.000 |
| 37/ 4757/ 102 (C) | 22.697 | -0.284<< | -1.224 | 0.0 | 0.000 | -0.000 |
| 37/ 4757/ 144 (C) | 70.308 | 0.906 | 7.252>> | 0.0 | -0.000 | 0.000 |
| 37/ 4757/ 102 (C) | 22.697 | -0.284 | -1.224<< | 0.0 | 0.000 | -0.000 |
| 37/ 4757/ 101 (C) | 24.350 | 0.055 | 0.018 | 0.0>> | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 37/ 4757/ 101 (C) | 24.350 | 0.055 | 0.018 | 0.0<< | -0.000 | 0.000 |
| 37/ 2/7/ 144 (C) | 71.342 | -0.123 | -0.987 | 0.0 | 5.099>> | -0.637 |
| 37/ 2/7/ 102 (C) | 23.731 | 0.039 | 0.167 | 0.0 | -0.861<< | 0.199 |
| 37/ 2/7/ 102 (C) | 23.731 | 0.039 | 0.167 | 0.0 | -0.861 | 0.199>> |
| 37/ 2/7/ 140 (C) | 61.395 | -0.143 | -0.904 | 0.0 | 4.670 | -0.738<< |
| 38/ 4759/ 136 (C) | 81.354>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 38/ 4758/ 151 (C) | 26.540<< | -0.000 | -0.002 | 0.0 | -0.001 | 0.000 |
| 38/ 4758/ 140 (C) | 66.566 | 0.003>> | 0.016 | 0.0 | 0.011 | -0.002 |
| 38/ 2/7/ 140 (C) | 67.221 | -0.001<< | -0.006 | 0.0 | 0.013 | -0.002 |
| 38/ 4758/ 144 (C) | 76.513 | 0.002 | 0.018>> | 0.0 | 0.012 | -0.001 |
| 38/ 2/7/ 144 (C) | 77.168 | -0.001 | -0.007<< | 0.0 | 0.014 | -0.002 |
| 38/ 4758/ 101 (C) | 30.555 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 38/ 4758/ 101 (C) | 30.555 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 38/ 2/7/ 144 (C) | 77.168 | -0.001 | -0.007 | 0.0 | 0.014>> | -0.002 |
| 38/ 2/7/ 102 (C) | 29.557 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.001 |
| 38/ 2/7/ 102 (C) | 29.557 | 0.000 | 0.001 | 0.0 | -0.002 | 0.001>> |
| 38/ 2/7/ 140 (C) | 67.221 | -0.001 | -0.006 | 0.0 | 0.013 | -0.002<< |
| 39/ 4760/ 136 (C) | 82.699>> | -0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 39/ 4759/ 151 (C) | 30.470<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 39/ 4759/ 140 (C) | 70.496 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 39/ 4/7/ 140 (C) | 71.168 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 39/ 4759/ 144 (C) | 80.443 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 39/ 4/7/ 144 (C) | 81.115 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 39/ 4759/ 101 (C) | 34.484 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 39/ 4759/ 101 (C) | 34.484 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 39/ 2/7/ 144 (C) | 80.667 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 39/ 2/7/ 102 (C) | 33.056 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 39/ 2/7/ 102 (C) | 33.056 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 39/ 2/7/ 140 (C) | 70.720 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 40/ 4762/ 135 (C) | 72.053>> | 0.000 | 0.003 | 0.0 | 0.002 | -0.000 |
| 40/ 4761/ 155 (C) | 18.381<< | -0.011 | -0.722 | 0.0 | 0.000 | -0.000 |
| 40/ 4761/ 143 (C) | 64.086 | 0.199>> | 7.323 | 0.0 | -0.000 | -0.000 |
| 40/ 3/7/ 143 (C) | 66.155 | -0.032<< | -1.191 | 0.0 | 1.697 | -0.046 |
| 40/ 4761/ 144 (C) | 64.001 | 0.187 | 7.323>> | 0.0 | -0.000 | 0.000 |
| 40/ 4761/ 102 (C) | 20.118 | -0.000 | -1.225<< | 0.0 | 0.000 | -0.000 |
| 40/ 4761/ 101 (C) | 23.233 | 0.000 | 0.017 | 0.0>> | -0.000 | 0.000 |
| 40/ 4761/ 101 (C) | 23.233 | 0.000 | 0.017 | 0.0<< | -0.000 | 0.000 |
| 40/ 2/7/ 144 (C) | 65.035 | -0.025 | -0.997 | 0.0 | 5.150>> | -0.131 |
| 40/ 2/7/ 102 (C) | 21.152 | 0.000 | 0.167 | 0.0 | -0.862<< | 0.000 |
| 40/ 2/7/ 157 (C) | 24.101 | 0.002 | 0.095 | 0.0 | -0.492 | 0.011>> |
| 40/ 2/7/ 143 (C) | 65.120 | -0.027 | -0.997 | 0.0 | 5.150 | -0.140<< |
| 41/ 4763/ 135 (C) | 75.983>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 41/ 4762/ 155 (C) | 24.586<< | -0.000 | -0.002 | 0.0 | -0.001 | 0.000 |
| 41/ 4762/ 143 (C) | 70.291 | 0.000>> | 0.018 | 0.0 | 0.012 | -0.000 |
| 41/ 2/7/ 143 (C) | 70.946 | -0.000<< | -0.007 | 0.0 | 0.014 | -0.000 |
| 41/ 4762/ 144 (C) | 70.205 | 0.000 | 0.018>> | 0.0 | 0.012 | -0.000 |
| 41/ 2/7/ 144 (C) | 70.860 | -0.000 | -0.007<< | 0.0 | 0.014 | -0.000 |
| 41/ 4762/ 101 (C) | 29.438 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 41/ 4762/ 101 (C) | 29.438 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 41/ 2/7/ 144 (C) | 70.860 | -0.000 | -0.007 | 0.0 | 0.014>> | -0.000 |
| 41/ 2/7/ 102 (C) | 26.977 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.000 |
| 41/ 2/7/ 157 (C) | 29.926 | 0.000 | 0.001 | 0.0 | -0.001 | 0.000>> |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 41/ 2/7/ 143 (C) | 70.946 | -0.000 | -0.007 | 0.0 | 0.014 | -0.000<< |
| 42/ 4764/ 135 (C) | 77.327>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 42/ 4763/ 155 (C) | 28.516<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 42/ 4763/ 143 (C) | 74.221 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 42/ 4/7/ 143 (C) | 74.893 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 42/ 4763/ 144 (C) | 74.135 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 42/ 4/7/ 144 (C) | 74.807 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 42/ 4763/ 101 (C) | 33.368 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 42/ 4763/ 101 (C) | 33.368 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 42/ 2/7/ 144 (C) | 74.359 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 42/ 2/7/ 102 (C) | 30.476 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 42/ 2/7/ 157 (C) | 33.425 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 42/ 2/7/ 143 (C) | 74.445 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 43/ 4766/ 145 (C) | 73.805>> | -0.001 | 0.016 | 0.0 | 0.011 | 0.000 |
| 43/ 4765/ 155 (C) | 20.144<< | 0.141 | -0.717 | 0.0 | 0.000 | 0.000 |
| 43/ 4765/ 118 (C) | 54.249 | 0.421>> | 3.279 | 0.0 | -0.000 | -0.000 |
| 43/ 4765/ 129 (C) | 57.482 | -0.884<< | 2.267 | 0.0 | -0.000 | -0.000 |
| 43/ 4765/ 143 (C) | 66.712 | -0.501 | 7.385>> | 0.0 | -0.000 | -0.000 |
| 43/ 4765/ 102 (C) | 22.697 | 0.284 | -1.224<< | 0.0 | 0.000 | 0.000 |
| 43/ 4765/ 101 (C) | 24.350 | -0.055 | 0.018 | 0.0>> | -0.000 | 0.000 |
| 43/ 4765/ 101 (C) | 24.350 | -0.055 | 0.018 | 0.0<< | -0.000 | 0.000 |
| 43/ 2/7/ 143 (C) | 67.746 | 0.068 | -1.005 | 0.0 | 5.193>> | 0.353 |
| 43/ 2/7/ 102 (C) | 23.731 | -0.039 | 0.167 | 0.0 | -0.861<< | -0.199 |
| 43/ 2/7/ 129 (C) | 58.517 | 0.120 | -0.309 | 0.0 | 1.594 | 0.622>> |
| 43/ 2/7/ 118 (C) | 55.283 | -0.057 | -0.446 | 0.0 | 2.306 | -0.296<< |
| 44/ 4767/ 145 (C) | 77.735>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 44/ 4766/ 155 (C) | 26.349<< | 0.000 | -0.002 | 0.0 | -0.001 | -0.000 |
| 44/ 4766/ 118 (C) | 60.454 | 0.001>> | 0.008 | 0.0 | 0.005 | -0.001 |
| 44/ 4766/ 129 (C) | 63.687 | -0.002<< | 0.006 | 0.0 | 0.004 | 0.001 |
| 44/ 4766/ 143 (C) | 72.917 | -0.001 | 0.018>> | 0.0 | 0.012 | 0.001 |
| 44/ 2/7/ 143 (C) | 73.572 | 0.000 | -0.007<< | 0.0 | 0.014 | 0.001 |
| 44/ 4766/ 101 (C) | 30.555 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 44/ 4766/ 101 (C) | 30.555 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 44/ 2/7/ 143 (C) | 73.572 | 0.000 | -0.007 | 0.0 | 0.014>> | 0.001 |
| 44/ 2/7/ 102 (C) | 29.557 | -0.000 | 0.001 | 0.0 | -0.002<< | -0.001 |
| 44/ 2/7/ 129 (C) | 64.342 | 0.001 | -0.002 | 0.0 | 0.004 | 0.002>> |
| 44/ 2/7/ 118 (C) | 61.109 | -0.000 | -0.003 | 0.0 | 0.006 | -0.001<< |
| 45/ 4768/ 145 (C) | 79.079>> | 0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 45/ 4767/ 155 (C) | 30.279<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 45/ 4767/ 118 (C) | 64.384 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 45/ 4767/ 129 (C) | 67.617 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 45/ 4767/ 143 (C) | 76.847 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 45/ 4/7/ 143 (C) | 77.519 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 45/ 4767/ 101 (C) | 34.484 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 45/ 4767/ 101 (C) | 34.484 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 45/ 2/7/ 143 (C) | 77.071 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 45/ 2/7/ 102 (C) | 33.056 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 45/ 2/7/ 129 (C) | 67.841 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 45/ 2/7/ 118 (C) | 64.608 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 46/ 4770/ 143 (C) | 79.992>> | -0.003 | 0.018 | 0.0 | 0.012 | 0.002 |
| 46/ 4769/ 149 (C) | 23.974<< | -0.103 | 0.034 | 0.0 | -0.000 | 0.000 |
| 46/ 4769/ 118 (C) | 59.573 | 0.687>> | 3.328 | 0.0 | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 46/ 4769/ 129 (C) | 66.010 | -1.701<< | 2.268 | 0.0 | -0.000 | -0.000 |
| 46/ 4769/ 143 (C) | 73.787 | -1.138 | 7.447>> | 0.0 | -0.000 | -0.000 |
| 46/ 4769/ 102 (C) | 30.321 | 0.543 | -1.223<< | 0.0 | 0.000 | 0.000 |
| 46/ 4769/ 101 (C) | 27.602 | -0.101 | 0.019 | 0.0>> | -0.000 | -0.000 |
| 46/ 4769/ 101 (C) | 27.602 | -0.101 | 0.019 | 0.0<< | -0.000 | -0.000 |
| 46/ 2/7/ 143 (C) | 74.821 | 0.155 | -1.014 | 0.0 | 5.237>> | 0.800 |
| 46/ 2/7/ 102 (C) | 31.355 | -0.074 | 0.167 | 0.0 | -0.860<< | -0.382 |
| 46/ 2/7/ 129 (C) | 67.044 | 0.232 | -0.309 | 0.0 | 1.595 | 1.196>> |
| 46/ 2/7/ 118 (C) | 60.607 | -0.094 | -0.453 | 0.0 | 2.341 | -0.483<< |
| 47/ 4771/ 143 (C) | 83.922>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 47/ 4770/ 149 (C) | 30.179<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 47/ 4770/ 118 (C) | 65.778 | 0.002>> | 0.008 | 0.0 | 0.005 | -0.001 |
| 47/ 4770/ 129 (C) | 72.215 | -0.004<< | 0.006 | 0.0 | 0.004 | 0.003 |
| 47/ 4770/ 143 (C) | 79.992 | -0.003 | 0.018>> | 0.0 | 0.012 | 0.002 |
| 47/ 2/7/ 143 (C) | 80.647 | 0.001 | -0.007<< | 0.0 | 0.015 | 0.002 |
| 47/ 4770/ 101 (C) | 33.807 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 47/ 4770/ 101 (C) | 33.807 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 47/ 2/7/ 143 (C) | 80.647 | 0.001 | -0.007 | 0.0 | 0.015>> | 0.002 |
| 47/ 2/7/ 102 (C) | 37.181 | -0.001 | 0.001 | 0.0 | -0.002<< | -0.001 |
| 47/ 2/7/ 129 (C) | 72.870 | 0.002 | -0.002 | 0.0 | 0.004 | 0.003>> |
| 47/ 2/7/ 118 (C) | 66.433 | -0.001 | -0.003 | 0.0 | 0.007 | -0.001<< |
| 48/ 4772/ 143 (C) | 85.266>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 149 (C) | 34.109<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4/7/ 129 (C) | 76.817 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 129 (C) | 76.145 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 143 (C) | 83.922 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 48/ 4/7/ 143 (C) | 84.594 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 48/ 4771/ 101 (C) | 37.737 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 48/ 4771/ 101 (C) | 37.737 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 48/ 2/7/ 143 (C) | 84.146 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 48/ 2/7/ 102 (C) | 40.680 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 48/ 2/7/ 129 (C) | 76.369 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 48/ 2/7/ 118 (C) | 69.932 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 49/ 4774/ 134 (C) | 77.812>> | 0.003 | 0.001 | 0.0 | 0.001 | -0.002 |
| 49/ 4773/ 148 (C) | 22.186<< | 0.088 | -0.055 | 0.0 | 0.000 | 0.000 |
| 49/ 4773/ 140 (C) | 63.815 | 1.748>> | 4.895 | 0.0 | -0.000 | 0.000 |
| 49/ 4773/ 102 (C) | 27.254 | -0.552<< | -0.285 | 0.0 | 0.000 | -0.000 |
| 49/ 4773/ 144 (C) | 71.552 | 1.399 | 5.860>> | 0.0 | -0.000 | 0.000 |
| 49/ 3/7/ 144 (C) | 73.621 | -0.227 | -0.953<< | 0.0 | 1.358 | -0.324 |
| 49/ 4773/ 101 (C) | 23.863 | 0.095 | 0.005 | 0.0>> | -0.000 | 0.000 |
| 49/ 4773/ 101 (C) | 23.863 | 0.095 | 0.005 | 0.0<< | -0.000 | 0.000 |
| 49/ 2/7/ 144 (C) | 72.587 | -0.190 | -0.798 | 0.0 | 4.121>> | -0.984 |
| 49/ 2/7/ 155 (C) | 28.402 | 0.039 | 0.042 | 0.0 | -0.216<< | 0.203 |
| 49/ 2/7/ 102 (C) | 28.288 | 0.075 | 0.039 | 0.0 | -0.201 | 0.388>> |
| 49/ 2/7/ 140 (C) | 64.849 | -0.238 | -0.666 | 0.0 | 3.442 | -1.229<< |
| 50/ 4775/ 134 (C) | 81.741>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 50/ 4774/ 148 (C) | 28.391<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 50/ 4774/ 140 (C) | 70.020 | 0.004>> | 0.012 | 0.0 | 0.008 | -0.003 |
| 50/ 2/7/ 140 (C) | 70.675 | -0.002<< | -0.005 | 0.0 | 0.010 | -0.003 |
| 50/ 4774/ 144 (C) | 77.757 | 0.003 | 0.014>> | 0.0 | 0.009 | -0.002 |
| 50/ 2/7/ 144 (C) | 78.412 | -0.001 | -0.006<< | 0.0 | 0.011 | -0.003 |
| 50/ 4774/ 101 (C) | 30.068 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 50/ 4774/ 101 (C) | 30.068 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 50/ 2/7/ 144 (C) | 78.412 | -0.001 | -0.006 | 0.0 | 0.011>> | -0.003 |
| 50/ 2/7/ 155 (C) | 34.228 | 0.000 | 0.000 | 0.0 | -0.001<< | 0.001 |
| 50/ 2/7/ 102 (C) | 34.114 | 0.001 | 0.000 | 0.0 | -0.001 | 0.001>> |
| 50/ 2/7/ 140 (C) | 70.675 | -0.002 | -0.005 | 0.0 | 0.010 | -0.003<< |
| 51/ 4776/ 134 (C) | 83.086>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 51/ 4775/ 148 (C) | 32.321<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 51/ 4775/ 140 (C) | 73.950 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 51/ 4/7/ 140 (C) | 74.622 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 51/ 4775/ 144 (C) | 81.687 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 51/ 4/7/ 144 (C) | 82.359 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 51/ 4775/ 101 (C) | 33.998 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 51/ 4775/ 101 (C) | 33.998 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 51/ 2/7/ 144 (C) | 81.911 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 51/ 2/7/ 155 (C) | 37.727 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 51/ 2/7/ 102 (C) | 37.613 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 51/ 2/7/ 140 (C) | 74.174 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 52/ 4778/ 136 (C) | 67.125>> | 0.001 | 0.001 | 0.0 | 0.000 | -0.001 |
| 52/ 4777/ 153 (C) | 18.742<< | -0.154 | -0.232 | 0.0 | 0.000 | 0.000 |
| 52/ 4777/ 140 (C) | 52.095 | 0.920>> | 4.943 | 0.0 | -0.000 | 0.000 |
| 52/ 4777/ 102 (C) | 19.878 | -0.287<< | -0.289 | 0.0 | 0.000 | 0.000 |
| 52/ 4777/ 144 (C) | 60.407 | 0.747 | 5.922>> | 0.0 | -0.000 | 0.000 |
| 52/ 3/7/ 144 (C) | 62.476 | -0.121 | -0.963<< | 0.0 | 1.372 | -0.173 |
| 52/ 4777/ 101 (C) | 20.772 | 0.053 | 0.005 | 0.0>> | -0.000 | -0.000 |
| 52/ 4777/ 101 (C) | 20.772 | 0.053 | 0.005 | 0.0<< | -0.000 | -0.000 |
| 52/ 2/7/ 144 (C) | 61.441 | -0.102 | -0.806 | 0.0 | 4.164>> | -0.526 |
| 52/ 2/7/ 155 (C) | 21.714 | 0.021 | 0.040 | 0.0 | -0.204<< | 0.106 |
| 52/ 2/7/ 102 (C) | 20.912 | 0.039 | 0.039 | 0.0 | -0.203 | 0.202>> |
| 52/ 2/7/ 140 (C) | 53.129 | -0.125 | -0.673 | 0.0 | 3.476 | -0.647<< |
| 53/ 4779/ 136 (C) | 71.055>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 53/ 4778/ 153 (C) | 24.947<< | -0.000 | -0.001 | 0.0 | -0.000 | 0.000 |
| 53/ 4778/ 140 (C) | 58.300 | 0.002>> | 0.012 | 0.0 | 0.008 | -0.001 |
| 53/ 2/7/ 140 (C) | 58.955 | -0.001<< | -0.005 | 0.0 | 0.010 | -0.002 |
| 53/ 4778/ 144 (C) | 66.612 | 0.002 | 0.015>> | 0.0 | 0.010 | -0.001 |
| 53/ 2/7/ 144 (C) | 67.267 | -0.001 | -0.006<< | 0.0 | 0.012 | -0.001 |
| 53/ 4778/ 101 (C) | 26.977 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 53/ 4778/ 101 (C) | 26.977 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 53/ 2/7/ 144 (C) | 67.267 | -0.001 | -0.006 | 0.0 | 0.012>> | -0.001 |
| 53/ 2/7/ 155 (C) | 27.539 | 0.000 | 0.000 | 0.0 | -0.001<< | 0.000 |
| 53/ 2/7/ 102 (C) | 26.738 | 0.000 | 0.000 | 0.0 | -0.001 | 0.001>> |
| 53/ 2/7/ 140 (C) | 58.955 | -0.001 | -0.005 | 0.0 | 0.010 | -0.002<< |
| 54/ 4780/ 136 (C) | 72.399>> | -0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 54/ 4779/ 153 (C) | 28.877<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 54/ 4779/ 140 (C) | 62.230 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 54/ 4/7/ 140 (C) | 62.902 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 54/ 4779/ 144 (C) | 70.542 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 54/ 4/7/ 144 (C) | 71.214 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 54/ 4779/ 101 (C) | 30.907 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 54/ 4779/ 101 (C) | 30.907 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 54/ 2/7/ 144 (C) | 70.766 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 54/ 2/7/ 155 (C) | 31.038 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 54/ 2/7/ 102 (C) | 30.236 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 54/ 2/7/ 140 (C) | 62.454 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 55/ 4782/ 135 (C) | 61.974>> | 0.000 | 0.001 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 157 (C) | 16.853<< | -0.017 | -0.233 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 123 (C) | 54.355 | 0.048>> | 5.748 | 0.0 | 0.000 | 0.000 |
| 55/ 4781/ 169 (C) | 16.918 | -0.017<< | 0.009 | 0.0 | 0.000 | -0.000 |
| 55/ 4781/ 143 (C) | 54.420 | 0.048 | 5.991>> | 0.0 | 0.000 | -0.000 |
| 55/ 3/7/ 143 (C) | 56.488 | -0.008 | -0.974<< | 0.0 | 1.388 | -0.011 |
| 55/ 4781/ 101 (C) | 19.692 | 0.000 | 0.004 | 0.0>> | 0.000 | 0.000 |
| 55/ 4781/ 101 (C) | 19.692 | 0.000 | 0.004 | 0.0<< | 0.000 | 0.000 |
| 55/ 2/7/ 143 (C) | 55.454 | -0.006 | -0.816 | 0.0 | 4.212>> | -0.033 |
| 55/ 2/7/ 102 (C) | 18.410 | -0.000 | 0.040 | 0.0 | -0.205<< | -0.000 |
| 55/ 2/7/ 169 (C) | 17.952 | 0.002 | -0.001 | 0.0 | 0.006 | 0.012>> |
| 55/ 2/7/ 123 (C) | 55.389 | -0.006 | -0.783 | 0.0 | 4.042 | -0.033<< |
| 56/ 4783/ 135 (C) | 65.904>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 56/ 4782/ 157 (C) | 23.058<< | -0.000 | -0.001 | 0.0 | -0.000 | 0.000 |
| 56/ 4782/ 123 (C) | 60.560 | 0.000>> | 0.014 | 0.0 | 0.009 | -0.000 |
| 56/ 2/7/ 123 (C) | 61.215 | -0.000<< | -0.005 | 0.0 | 0.011 | -0.000 |
| 56/ 4782/ 143 (C) | 60.625 | 0.000 | 0.015>> | 0.0 | 0.010 | -0.000 |
| 56/ 2/7/ 143 (C) | 61.280 | -0.000 | -0.006<< | 0.0 | 0.012 | -0.000 |
| 56/ 4782/ 101 (C) | 25.897 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 56/ 4782/ 101 (C) | 25.897 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 56/ 2/7/ 143 (C) | 61.280 | -0.000 | -0.006 | 0.0 | 0.012>> | -0.000 |
| 56/ 2/7/ 102 (C) | 24.236 | -0.000 | 0.000 | 0.0 | -0.001<< | -0.000 |
| 56/ 2/7/ 169 (C) | 23.778 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 56/ 2/7/ 123 (C) | 61.215 | -0.000 | -0.005 | 0.0 | 0.011 | -0.000<< |
| 57/ 4784/ 135 (C) | 67.248>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 57/ 4783/ 157 (C) | 26.988<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 57/ 4783/ 123 (C) | 64.489 | 0.000>> | 0.000 | 0.0 | 0.000 | -0.000 |
| 57/ 4/7/ 123 (C) | 65.162 | -0.000<< | -0.000 | 0.0 | 0.000 | -0.000 |
| 57/ 4783/ 143 (C) | 64.555 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 57/ 4/7/ 143 (C) | 65.227 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 57/ 4783/ 101 (C) | 29.827 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 57/ 4783/ 101 (C) | 29.827 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 57/ 2/7/ 143 (C) | 64.779 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 57/ 2/7/ 102 (C) | 27.735 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 57/ 2/7/ 169 (C) | 27.277 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 57/ 2/7/ 123 (C) | 64.714 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 58/ 4786/ 135 (C) | 63.737>> | -0.001 | 0.001 | 0.0 | 0.000 | 0.001 |
| 58/ 4785/ 157 (C) | 18.541<< | 0.138 | -0.238 | 0.0 | 0.000 | 0.000 |
| 58/ 4785/ 117 (C) | 49.201 | 0.301>> | 4.211 | 0.0 | -0.000 | 0.000 |
| 58/ 4785/ 130 (C) | 46.620 | -0.881<< | 0.566 | 0.0 | -0.000 | -0.000 |
| 58/ 4785/ 143 (C) | 57.023 | -0.649 | 6.052>> | 0.0 | 0.000 | -0.000 |
| 58/ 3/7/ 143 (C) | 59.091 | 0.106 | -0.984<< | 0.0 | 1.402 | 0.150 |
| 58/ 4785/ 101 (C) | 20.772 | -0.053 | 0.005 | 0.0>> | 0.000 | -0.000 |
| 58/ 4785/ 101 (C) | 20.772 | -0.053 | 0.005 | 0.0<< | 0.000 | -0.000 |
| 58/ 2/7/ 143 (C) | 58.057 | 0.088 | -0.824 | 0.0 | 4.256>> | 0.457 |
| 58/ 2/7/ 102 (C) | 20.912 | -0.039 | 0.039 | 0.0 | -0.203<< | -0.202 |
| 58/ 2/7/ 130 (C) | 47.654 | 0.120 | -0.077 | 0.0 | 0.398 | 0.619>> |
| 58/ 2/7/ 117 (C) | 50.235 | -0.041 | -0.573 | 0.0 | 2.961 | -0.212<< |
| 59/ 4787/ 135 (C) | 67.667>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 59/ 4786/ 157 (C) | 24.746<< | 0.000 | -0.001 | 0.0 | -0.000 | -0.000 |
| 59/ 2/7/ 130 (C) | 53.480 | 0.001>> | -0.001 | 0.0 | 0.001 | 0.002 |



ROBOT v 17.0.1
Autor :
Dirección :
© RoboBAT 1996-2003
Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 59/ 4786/ 130 (C) | 52.825 | -0.002<< | 0.001 | 0.0 | 0.001 | 0.001 |
| 59/ 4786/ 143 (C) | 63.228 | -0.002 | 0.015>> | 0.0 | 0.010 | 0.001 |
| 59/ 2/7/ 143 (C) | 63.883 | 0.001 | -0.006<< | 0.0 | 0.012 | 0.001 |
| 59/ 4786/ 101 (C) | 26.977 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 59/ 4786/ 101 (C) | 26.977 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 59/ 2/7/ 143 (C) | 63.883 | 0.001 | -0.006 | 0.0 | 0.012>> | 0.001 |
| 59/ 2/7/ 102 (C) | 26.738 | -0.000 | 0.000 | 0.0 | -0.001<< | -0.001 |
| 59/ 2/7/ 130 (C) | 53.480 | 0.001 | -0.001 | 0.0 | 0.001 | 0.002>> |
| 59/ 2/7/ 117 (C) | 56.060 | -0.000 | -0.004 | 0.0 | 0.008 | -0.001<< |
| 60/ 4788/ 135 (C) | 69.011>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 157 (C) | 28.675<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 60/ 4/7/ 130 (C) | 57.427 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 130 (C) | 56.755 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 143 (C) | 67.158 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 60/ 4/7/ 143 (C) | 67.830 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 60/ 4787/ 101 (C) | 30.907 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 60/ 4787/ 101 (C) | 30.907 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 60/ 2/7/ 143 (C) | 67.382 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 60/ 2/7/ 102 (C) | 30.236 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 60/ 2/7/ 130 (C) | 56.979 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 60/ 2/7/ 117 (C) | 59.559 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 61/ 4790/ 133 (C) | 70.147>> | -0.003 | 0.001 | 0.0 | 0.001 | 0.002 |
| 61/ 4789/ 150 (C) | 21.757<< | -0.103 | -0.068 | 0.0 | 0.000 | -0.000 |
| 61/ 4789/ 118 (C) | 51.622 | 0.574>> | 4.255 | 0.0 | -0.000 | 0.000 |
| 61/ 4789/ 129 (C) | 57.727 | -1.689<< | 0.568 | 0.0 | 0.000 | -0.000 |
| 61/ 4789/ 143 (C) | 63.897 | -1.278 | 6.111>> | 0.0 | -0.000 | -0.000 |
| 61/ 3/7/ 143 (C) | 65.966 | 0.208 | -0.993<< | 0.0 | 1.416 | 0.296 |
| 61/ 4789/ 101 (C) | 23.863 | -0.095 | 0.005 | 0.0>> | -0.000 | -0.000 |
| 61/ 4789/ 101 (C) | 23.863 | -0.095 | 0.005 | 0.0<< | -0.000 | -0.000 |
| 61/ 2/7/ 143 (C) | 64.931 | 0.174 | -0.832 | 0.0 | 4.297>> | 0.898 |
| 61/ 2/7/ 151 (C) | 27.073 | -0.039 | 0.039 | 0.0 | -0.202<< | -0.202 |
| 61/ 2/7/ 129 (C) | 58.761 | 0.230 | -0.077 | 0.0 | 0.399 | 1.187>> |
| 61/ 2/7/ 118 (C) | 52.656 | -0.078 | -0.579 | 0.0 | 2.992 | -0.404<< |
| 62/ 4791/ 133 (C) | 74.077>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 62/ 4790/ 150 (C) | 27.962<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 62/ 2/7/ 129 (C) | 64.587 | 0.002>> | -0.001 | 0.0 | 0.001 | 0.003 |
| 62/ 4790/ 129 (C) | 63.932 | -0.004<< | 0.001 | 0.0 | 0.001 | 0.003 |
| 62/ 4790/ 143 (C) | 70.102 | -0.003 | 0.015>> | 0.0 | 0.010 | 0.002 |
| 62/ 2/7/ 143 (C) | 70.757 | 0.001 | -0.006<< | 0.0 | 0.012 | 0.002 |
| 62/ 4790/ 101 (C) | 30.068 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 62/ 4790/ 101 (C) | 30.068 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 62/ 2/7/ 143 (C) | 70.757 | 0.001 | -0.006 | 0.0 | 0.012>> | 0.002 |
| 62/ 2/7/ 151 (C) | 32.899 | -0.000 | 0.000 | 0.0 | -0.001<< | -0.001 |
| 62/ 2/7/ 129 (C) | 64.587 | 0.002 | -0.001 | 0.0 | 0.001 | 0.003>> |
| 62/ 2/7/ 118 (C) | 58.482 | -0.001 | -0.004 | 0.0 | 0.008 | -0.001<< |
| 63/ 4792/ 133 (C) | 75.422>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 150 (C) | 31.892<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 63/ 4/7/ 129 (C) | 68.534 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 129 (C) | 67.862 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 143 (C) | 74.032 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 63/ 4/7/ 143 (C) | 74.704 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 63/ 4791/ 101 (C) | 33.998 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 63/ 4791/ 101 (C) | 33.998 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 63/ 2/7/ 143 (C) | 74.256 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 63/ 2/7/ 151 (C) | 36.397 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 63/ 2/7/ 129 (C) | 68.086 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 63/ 2/7/ 118 (C) | 61.981 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 64/ 4794/ 144 (C) | 80.673>> | 0.003 | 0.012 | 0.0 | 0.008 | -0.002 |
| 64/ 4793/ 148 (C) | 24.683<< | 0.087 | -0.159 | 0.0 | -0.000 | -0.000 |
| 64/ 4793/ 130 (C) | 66.062 | 1.699>> | -0.759 | 0.0 | 0.000 | 0.000 |
| 64/ 4793/ 117 (C) | 59.865 | -0.573<< | 4.486 | 0.0 | -0.000 | -0.000 |
| 64/ 4793/ 121 (C) | 66.757 | -0.314 | 5.401>> | 0.0 | 0.000 | 0.000 |
| 64/ 3/7/ 121 (C) | 68.825 | 0.051 | -0.878<< | 0.0 | 1.252 | 0.073 |
| 64/ 4793/ 101 (C) | 25.669 | 0.090 | -0.092 | 0.0>> | 0.000 | -0.000 |
| 64/ 4793/ 101 (C) | 25.669 | 0.090 | -0.092 | 0.0<< | 0.000 | -0.000 |
| 64/ 2/7/ 121 (C) | 67.791 | 0.043 | -0.735 | 0.0 | 3.798>> | 0.221 |
| 64/ 2/7/ 168 (C) | 44.988 | -0.180 | 0.119 | 0.0 | -0.612<< | -0.929 |
| 64/ 2/7/ 117 (C) | 60.899 | 0.078 | -0.611 | 0.0 | 3.155 | 0.403>> |
| 64/ 2/7/ 130 (C) | 67.096 | -0.231 | 0.103 | 0.0 | -0.534 | -1.195<< |
| 65/ 4795/ 144 (C) | 84.603>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 65/ 4794/ 148 (C) | 30.888<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 65/ 4794/ 130 (C) | 72.267 | 0.004>> | -0.002 | 0.0 | -0.001 | -0.003 |
| 65/ 2/7/ 130 (C) | 72.922 | -0.002<< | 0.001 | 0.0 | -0.001 | -0.003 |
| 65/ 4794/ 121 (C) | 72.962 | -0.001 | 0.013>> | 0.0 | 0.009 | 0.001 |
| 65/ 2/7/ 121 (C) | 73.617 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.001 |
| 65/ 4794/ 101 (C) | 31.874 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 65/ 4794/ 101 (C) | 31.874 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 65/ 2/7/ 121 (C) | 73.617 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.001 |
| 65/ 2/7/ 168 (C) | 50.813 | -0.001 | 0.001 | 0.0 | -0.002<< | -0.003 |
| 65/ 2/7/ 117 (C) | 66.725 | 0.001 | -0.004 | 0.0 | 0.009 | 0.001>> |
| 65/ 2/7/ 130 (C) | 72.922 | -0.002 | 0.001 | 0.0 | -0.001 | -0.003<< |
| 66/ 4796/ 144 (C) | 85.947>> | -0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 66/ 4795/ 148 (C) | 34.818<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 66/ 4795/ 130 (C) | 76.197 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 66/ 4/7/ 130 (C) | 76.869 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 66/ 4795/ 121 (C) | 76.892 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 66/ 4/7/ 121 (C) | 77.564 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 66/ 4795/ 101 (C) | 35.804 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 66/ 4795/ 101 (C) | 35.804 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 66/ 2/7/ 121 (C) | 77.116 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 66/ 2/7/ 168 (C) | 54.312 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 66/ 2/7/ 117 (C) | 70.224 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 66/ 2/7/ 130 (C) | 76.421 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 67/ 4798/ 146 (C) | 70.500>> | 0.001 | 0.012 | 0.0 | 0.008 | -0.001 |
| 67/ 4797/ 153 (C) | 20.868<< | -0.156 | 0.051 | 0.0 | -0.000 | -0.000 |
| 67/ 4797/ 130 (C) | 54.536 | 0.878>> | -0.763 | 0.0 | 0.000 | -0.000 |
| 67/ 4797/ 117 (C) | 51.592 | -0.309<< | 4.533 | 0.0 | -0.000 | -0.000 |
| 67/ 4797/ 121 (C) | 59.844 | -0.177 | 5.461>> | 0.0 | -0.000 | -0.000 |
| 67/ 3/7/ 121 (C) | 61.912 | 0.029 | -0.888<< | 0.0 | 1.265 | 0.041 |
| 67/ 4797/ 101 (C) | 22.672 | 0.051 | -0.094 | 0.0>> | 0.000 | 0.000 |
| 67/ 4797/ 101 (C) | 22.672 | 0.051 | -0.094 | 0.0<< | 0.000 | 0.000 |
| 67/ 2/7/ 121 (C) | 60.878 | 0.024 | -0.743 | 0.0 | 3.840>> | 0.124 |
| 67/ 2/7/ 168 (C) | 37.177 | -0.093 | 0.116 | 0.0 | -0.599<< | -0.482 |
| 67/ 2/7/ 117 (C) | 52.627 | 0.042 | -0.617 | 0.0 | 3.187 | 0.217>> |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 67/ 2/7/ 130 (C) | 55.570 | -0.120 | 0.104 | 0.0 | -0.536 | -0.618<< |
| 68/ 4799/ 146 (C) | 74.430>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 68/ 4798/ 153 (C) | 27.072<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 68/ 4798/ 130 (C) | 60.741 | 0.002>> | -0.002 | 0.0 | -0.001 | -0.001 |
| 68/ 2/7/ 130 (C) | 61.396 | -0.001<< | 0.001 | 0.0 | -0.001 | -0.002 |
| 68/ 4798/ 121 (C) | 66.049 | -0.000 | 0.013>> | 0.0 | 0.009 | 0.000 |
| 68/ 2/7/ 121 (C) | 66.704 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.000 |
| 68/ 4798/ 101 (C) | 28.877 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 68/ 4798/ 101 (C) | 28.877 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 68/ 2/7/ 121 (C) | 66.704 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.000 |
| 68/ 2/7/ 168 (C) | 43.002 | -0.001 | 0.001 | 0.0 | -0.002<< | -0.001 |
| 68/ 2/7/ 117 (C) | 58.452 | 0.000 | -0.004 | 0.0 | 0.009 | 0.001>> |
| 68/ 2/7/ 130 (C) | 61.396 | -0.001 | 0.001 | 0.0 | -0.001 | -0.002<< |
| 69/ 4800/ 146 (C) | 75.774>> | 0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 69/ 4799/ 153 (C) | 31.002<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 69/ 4799/ 130 (C) | 64.671 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 69/ 4/7/ 130 (C) | 65.343 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 69/ 4799/ 121 (C) | 69.978 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 69/ 4/7/ 121 (C) | 70.651 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 69/ 4799/ 101 (C) | 32.807 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 69/ 4799/ 101 (C) | 32.807 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 69/ 2/7/ 121 (C) | 70.203 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 69/ 2/7/ 168 (C) | 46.501 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 69/ 2/7/ 117 (C) | 61.951 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 69/ 2/7/ 130 (C) | 64.895 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 70/ 4802/ 145 (C) | 65.305>> | -0.000 | 0.012 | 0.0 | 0.008 | 0.000 |
| 70/ 4801/ 102 (C) | 18.666<< | 0.000 | 0.258 | 0.0 | -0.000 | 0.000 |
| 70/ 3/7/ 144 (C) | 59.420 | 0.011>> | -0.791 | 0.0 | 1.128 | 0.015 |
| 70/ 4801/ 144 (C) | 57.352 | -0.066<< | 4.869 | 0.0 | -0.000 | -0.000 |
| 70/ 4801/ 121 (C) | 57.262 | -0.053 | 5.530>> | 0.0 | -0.000 | -0.000 |
| 70/ 3/7/ 121 (C) | 59.330 | 0.009 | -0.899<< | 0.0 | 1.281 | 0.012 |
| 70/ 4801/ 101 (C) | 21.620 | -0.000 | -0.095 | 0.0>> | 0.000 | -0.000 |
| 70/ 4801/ 101 (C) | 21.620 | -0.000 | -0.095 | 0.0<< | 0.000 | -0.000 |
| 70/ 2/7/ 121 (C) | 58.296 | 0.007 | -0.753 | 0.0 | 3.888>> | 0.037 |
| 70/ 2/7/ 164 (C) | 33.731 | 0.000 | 0.114 | 0.0 | -0.588<< | 0.000 |
| 70/ 2/7/ 144 (C) | 58.386 | 0.009 | -0.663 | 0.0 | 3.424 | 0.046>> |
| 70/ 5/7/ 144 (C) | 61.489 | -0.000 | 0.033 | 0.0 | -0.144 | -0.002<< |
| 71/ 4803/ 145 (C) | 69.234>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 71/ 4802/ 102 (C) | 24.871<< | 0.000 | 0.001 | 0.0 | 0.000 | -0.000 |
| 71/ 2/7/ 144 (C) | 64.212 | 0.000>> | -0.005 | 0.0 | 0.010 | 0.000 |
| 71/ 4802/ 144 (C) | 63.557 | -0.000<< | 0.012 | 0.0 | 0.008 | 0.000 |
| 71/ 4802/ 121 (C) | 63.467 | -0.000 | 0.014>> | 0.0 | 0.009 | 0.000 |
| 71/ 2/7/ 121 (C) | 64.122 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.000 |
| 71/ 4802/ 101 (C) | 27.825 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 71/ 4802/ 101 (C) | 27.825 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 71/ 2/7/ 121 (C) | 64.122 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.000 |
| 71/ 2/7/ 164 (C) | 39.557 | 0.000 | 0.001 | 0.0 | -0.002<< | 0.000 |
| 71/ 2/7/ 144 (C) | 64.212 | 0.000 | -0.005 | 0.0 | 0.010 | 0.000>> |
| 71/ 5/7/ 144 (C) | 66.177 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 72/ 4804/ 145 (C) | 70.579>> | -0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 72/ 4803/ 102 (C) | 28.801<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 72/ 4/7/ 144 (C) | 68.159 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 72/ 4803/ 144 (C) | 67.487 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 72/ 4803/ 121 (C) | 67.397 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 72/ 4/7/ 121 (C) | 68.069 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 72/ 4803/ 101 (C) | 31.755 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 72/ 4803/ 101 (C) | 31.755 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 72/ 2/7/ 121 (C) | 67.621 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 72/ 2/7/ 164 (C) | 43.056 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 72/ 2/7/ 144 (C) | 67.711 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 72/ 2/7/ 155 (C) | 42.870 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 73/ 4806/ 145 (C) | 67.038>> | -0.001 | 0.013 | 0.0 | 0.008 | 0.001 |
| 73/ 4805/ 157 (C) | 20.789<< | 0.143 | 0.046 | 0.0 | -0.000 | 0.000 |
| 73/ 4805/ 102 (C) | 21.101 | 0.291>> | 0.258 | 0.0 | -0.000 | 0.000 |
| 73/ 4805/ 140 (C) | 48.936 | -0.919<< | 3.723 | 0.0 | -0.000 | -0.000 |
| 73/ 4805/ 122 (C) | 56.284 | 0.070 | 5.598>> | 0.0 | -0.000 | 0.000 |
| 73/ 3/7/ 122 (C) | 58.352 | -0.011 | -0.910<< | 0.0 | 1.297 | -0.016 |
| 73/ 4805/ 101 (C) | 22.672 | -0.051 | -0.094 | 0.0>> | -0.000 | -0.000 |
| 73/ 4805/ 101 (C) | 22.672 | -0.051 | -0.094 | 0.0<< | -0.000 | -0.000 |
| 73/ 2/7/ 122 (C) | 57.318 | -0.010 | -0.762 | 0.0 | 3.936>> | -0.049 |
| 73/ 2/7/ 164 (C) | 35.933 | 0.093 | 0.114 | 0.0 | -0.588<< | 0.479 |
| 73/ 2/7/ 140 (C) | 49.970 | 0.125 | -0.507 | 0.0 | 2.618 | 0.646>> |
| 73/ 2/7/ 102 (C) | 22.135 | -0.040 | -0.035 | 0.0 | 0.181 | -0.205<< |
| 74/ 4807/ 145 (C) | 70.968>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 74/ 4806/ 157 (C) | 26.994<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 74/ 2/7/ 140 (C) | 55.796 | 0.001>> | -0.003 | 0.0 | 0.007 | 0.002 |
| 74/ 4806/ 140 (C) | 55.141 | -0.002<< | 0.009 | 0.0 | 0.006 | 0.001 |
| 74/ 4806/ 122 (C) | 62.489 | 0.000 | 0.014>> | 0.0 | 0.009 | -0.000 |
| 74/ 2/7/ 122 (C) | 63.144 | -0.000 | -0.005<< | 0.0 | 0.011 | -0.000 |
| 74/ 4806/ 101 (C) | 28.877 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 74/ 4806/ 101 (C) | 28.877 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 74/ 2/7/ 122 (C) | 63.144 | -0.000 | -0.005 | 0.0 | 0.011>> | -0.000 |
| 74/ 2/7/ 164 (C) | 41.759 | 0.001 | 0.001 | 0.0 | -0.002<< | 0.001 |
| 74/ 2/7/ 140 (C) | 55.796 | 0.001 | -0.003 | 0.0 | 0.007 | 0.002>> |
| 74/ 2/7/ 102 (C) | 27.961 | -0.000 | -0.000 | 0.0 | 0.001 | -0.001<< |
| 75/ 4808/ 145 (C) | 72.312>> | -0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 75/ 4807/ 157 (C) | 30.923<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 75/ 4/7/ 140 (C) | 59.743 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 75/ 4807/ 140 (C) | 59.071 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 75/ 4807/ 122 (C) | 66.419 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 75/ 4/7/ 122 (C) | 67.091 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 75/ 4807/ 101 (C) | 32.807 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 75/ 4807/ 101 (C) | 32.807 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 75/ 2/7/ 122 (C) | 66.643 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 75/ 2/7/ 164 (C) | 45.258 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 75/ 2/7/ 140 (C) | 59.295 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 75/ 2/7/ 102 (C) | 31.460 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 76/ 4810/ 133 (C) | 73.016>> | -0.003 | -0.002 | 0.0 | -0.001 | 0.002 |
| 76/ 4809/ 150 (C) | 24.515<< | -0.099 | -0.168 | 0.0 | 0.000 | -0.000 |
| 76/ 4809/ 102 (C) | 28.219 | 0.562>> | 0.262 | 0.0 | -0.000 | 0.000 |
| 76/ 4809/ 139 (C) | 59.951 | -1.723<< | 3.772 | 0.0 | -0.000 | -0.000 |
| 76/ 4809/ 122 (C) | 59.280 | 0.222 | 5.662>> | 0.0 | -0.000 | 0.000 |
| 76/ 3/7/ 122 (C) | 61.348 | -0.036 | -0.920<< | 0.0 | 1.312 | -0.051 |
| 76/ 4809/ 101 (C) | 25.669 | -0.090 | -0.092 | 0.0>> | 0.000 | -0.000 |



ROBOT v 17.0.1
Autor :
Dirección :

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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 76/ 4809/ 101 (C) | 25.669 | -0.090 | -0.092 | 0.0<< | 0.000 | -0.000 |
| 76/ 2/7/ 122 (C) | 60.314 | -0.030 | -0.771 | 0.0 | 3.981>> | -0.156 |
| 76/ 2/7/ 164 (C) | 42.325 | 0.178 | 0.114 | 0.0 | -0.591<< | 0.922 |
| 76/ 2/7/ 139 (C) | 60.985 | 0.235 | -0.514 | 0.0 | 2.652 | 1.212>> |
| 76/ 2/7/ 102 (C) | 29.253 | -0.077 | -0.036 | 0.0 | 0.184 | -0.395<< |
| 77/ 4811/ 133 (C) | 76.946>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 77/ 4810/ 150 (C) | 30.720<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 77/ 2/7/ 139 (C) | 66.811 | 0.002>> | -0.004 | 0.0 | 0.007 | 0.003 |
| 77/ 4810/ 139 (C) | 66.156 | -0.004<< | 0.009 | 0.0 | 0.006 | 0.003 |
| 77/ 4810/ 122 (C) | 65.485 | 0.001 | 0.014>> | 0.0 | 0.009 | -0.000 |
| 77/ 2/7/ 122 (C) | 66.140 | -0.000 | -0.005<< | 0.0 | 0.011 | -0.000 |
| 77/ 4810/ 101 (C) | 31.874 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 77/ 4810/ 101 (C) | 31.874 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 77/ 2/7/ 122 (C) | 66.140 | -0.000 | -0.005 | 0.0 | 0.011>> | -0.000 |
| 77/ 2/7/ 164 (C) | 48.151 | 0.001 | 0.001 | 0.0 | -0.002<< | 0.003 |
| 77/ 2/7/ 139 (C) | 66.811 | 0.002 | -0.004 | 0.0 | 0.007 | 0.003>> |
| 77/ 2/7/ 102 (C) | 35.078 | -0.001 | -0.000 | 0.0 | 0.001 | -0.001<< |
| 78/ 4812/ 133 (C) | 78.290>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 78/ 4811/ 150 (C) | 34.650<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 78/ 4/7/ 139 (C) | 70.758 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 78/ 4811/ 139 (C) | 70.086 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 78/ 4811/ 122 (C) | 69.415 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 78/ 4/7/ 122 (C) | 70.087 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 78/ 4811/ 101 (C) | 35.804 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 78/ 4811/ 101 (C) | 35.804 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 78/ 2/7/ 122 (C) | 69.639 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 78/ 2/7/ 164 (C) | 51.649 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 78/ 2/7/ 139 (C) | 70.310 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 78/ 2/7/ 102 (C) | 38.577 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 79/ 4814/ 144 (C) | 97.419>> | 0.003 | 0.009 | 0.0 | 0.006 | -0.002 |
| 79/ 4813/ 148 (C) | 32.435<< | 0.085 | -0.190 | 0.0 | 0.000 | 0.000 |
| 79/ 4813/ 130 (C) | 80.079 | 1.695>> | -1.985 | 0.0 | 0.000 | 0.000 |
| 79/ 4813/ 117 (C) | 73.440 | -0.663<< | 5.023 | 0.0 | -0.000 | -0.000 |
| 79/ 4813/ 121 (C) | 82.930 | -0.422 | 5.678>> | 0.0 | -0.000 | -0.000 |
| 79/ 4813/ 130 (C) | 80.079 | 1.695 | -1.985<< | 0.0 | 0.000 | 0.000 |
| 79/ 4813/ 101 (C) | 32.768 | 0.087 | -0.127 | 0.0>> | 0.000 | 0.000 |
| 79/ 4813/ 101 (C) | 32.768 | 0.087 | -0.127 | 0.0<< | 0.000 | 0.000 |
| 79/ 2/7/ 121 (C) | 83.964 | 0.057 | -0.773 | 0.0 | 3.993>> | 0.297 |
| 79/ 2/7/ 130 (C) | 81.113 | -0.231 | 0.270 | 0.0 | -1.396<< | -1.192 |
| 79/ 2/7/ 117 (C) | 74.474 | 0.090 | -0.684 | 0.0 | 3.532 | 0.466>> |
| 79/ 2/7/ 130 (C) | 81.113 | -0.231 | 0.270 | 0.0 | -1.396 | -1.192<< |
| 80/ 4815/ 144 (C) | 101.349>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 80/ 4814/ 148 (C) | 38.640<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 80/ 4814/ 130 (C) | 86.284 | 0.004>> | -0.005 | 0.0 | -0.003 | -0.003 |
| 80/ 4814/ 117 (C) | 79.645 | -0.002<< | 0.012 | 0.0 | 0.008 | 0.001 |
| 80/ 4814/ 121 (C) | 89.135 | -0.001 | 0.014>> | 0.0 | 0.009 | 0.001 |
| 80/ 2/7/ 121 (C) | 89.790 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.001 |
| 80/ 4814/ 101 (C) | 38.973 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 80/ 4814/ 101 (C) | 38.973 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 80/ 2/7/ 121 (C) | 89.790 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.001 |
| 80/ 2/7/ 130 (C) | 86.939 | -0.002 | 0.002 | 0.0 | -0.004<< | -0.003 |
| 80/ 2/7/ 117 (C) | 80.300 | 0.001 | -0.005 | 0.0 | 0.010 | 0.001>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 80/ 2/7/ 130 (C) | 86.939 | -0.002 | 0.002 | 0.0 | -0.004 | -0.003<< |
| 81/ 4816/ 144 (C) | 102.693>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 81/ 4815/ 148 (C) | 42.570<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 81/ 4815/ 130 (C) | 90.214 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 81/ 4/7/ 130 (C) | 90.886 | -0.000<< | 0.000 | 0.0 | -0.000 | -0.000 |
| 81/ 4815/ 121 (C) | 93.065 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 81/ 4/7/ 121 (C) | 93.737 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 81/ 4815/ 101 (C) | 42.903 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 81/ 4815/ 101 (C) | 42.903 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 81/ 2/7/ 121 (C) | 93.289 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 81/ 2/7/ 130 (C) | 90.438 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 81/ 2/7/ 117 (C) | 83.799 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 81/ 2/7/ 130 (C) | 90.438 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 82/ 4818/ 146 (C) | 88.232>> | 0.001 | 0.011 | 0.0 | 0.007 | -0.000 |
| 82/ 4817/ 102 (C) | 26.956<< | -0.295 | 0.844 | 0.0 | -0.000 | -0.000 |
| 82/ 4817/ 130 (C) | 68.756 | 0.878>> | -1.992 | 0.0 | 0.000 | 0.000 |
| 82/ 4817/ 117 (C) | 65.507 | -0.397<< | 5.067 | 0.0 | -0.000 | -0.000 |
| 82/ 4817/ 121 (C) | 76.338 | -0.285 | 5.733>> | 0.0 | -0.000 | -0.000 |
| 82/ 4817/ 130 (C) | 68.756 | 0.878 | -1.992<< | 0.0 | 0.000 | 0.000 |
| 82/ 4817/ 101 (C) | 29.938 | 0.048 | -0.130 | 0.0>> | 0.000 | 0.000 |
| 82/ 4817/ 101 (C) | 29.938 | 0.048 | -0.130 | 0.0<< | 0.000 | 0.000 |
| 82/ 2/7/ 121 (C) | 77.372 | 0.039 | -0.781 | 0.0 | 4.032>> | 0.200 |
| 82/ 2/7/ 130 (C) | 69.790 | -0.120 | 0.271 | 0.0 | -1.401<< | -0.618 |
| 82/ 2/7/ 117 (C) | 66.541 | 0.054 | -0.690 | 0.0 | 3.563 | 0.279>> |
| 82/ 2/7/ 130 (C) | 69.790 | -0.120 | 0.271 | 0.0 | -1.401 | -0.618<< |
| 83/ 4819/ 146 (C) | 92.162>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 83/ 4818/ 102 (C) | 33.161<< | -0.001 | 0.002 | 0.0 | 0.001 | 0.000 |
| 83/ 4818/ 130 (C) | 74.961 | 0.002>> | -0.005 | 0.0 | -0.003 | -0.001 |
| 83/ 4818/ 117 (C) | 71.712 | -0.001<< | 0.013 | 0.0 | 0.008 | 0.001 |
| 83/ 4818/ 121 (C) | 82.543 | -0.001 | 0.014>> | 0.0 | 0.009 | 0.000 |
| 83/ 2/7/ 121 (C) | 83.198 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.001 |
| 83/ 4818/ 101 (C) | 36.143 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 83/ 4818/ 101 (C) | 36.143 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 83/ 2/7/ 121 (C) | 83.198 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.001 |
| 83/ 2/7/ 130 (C) | 75.616 | -0.001 | 0.002 | 0.0 | -0.004<< | -0.002 |
| 83/ 2/7/ 117 (C) | 72.367 | 0.000 | -0.005 | 0.0 | 0.010 | 0.001>> |
| 83/ 2/7/ 130 (C) | 75.616 | -0.001 | 0.002 | 0.0 | -0.004 | -0.002<< |
| 84/ 4820/ 146 (C) | 93.506>> | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 84/ 4819/ 102 (C) | 37.091<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 84/ 4819/ 130 (C) | 78.891 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 84/ 4819/ 117 (C) | 75.642 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 84/ 4819/ 121 (C) | 86.473 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 84/ 4/7/ 121 (C) | 87.145 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 84/ 4819/ 101 (C) | 40.073 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 84/ 4819/ 101 (C) | 40.073 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 84/ 2/7/ 121 (C) | 86.697 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 84/ 2/7/ 130 (C) | 79.115 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 84/ 2/7/ 117 (C) | 75.866 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 84/ 2/7/ 130 (C) | 79.115 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 85/ 4822/ 145 (C) | 82.846>> | -0.000 | 0.011 | 0.0 | 0.007 | 0.000 |
| 85/ 4821/ 102 (C) | 24.599<< | 0.000 | 0.844 | 0.0 | 0.000 | 0.000 |
| 85/ 3/7/ 144 (C) | 76.151 | 0.026>> | -0.631 | 0.0 | 0.899 | 0.036 |



ROBOT v 17.0.1
Autor :
Dirección :

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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 85/ 4821/ 144 (C) | 74.083 | -0.157<< | 3.880 | 0.0 | 0.000 | -0.000 |
| 85/ 4821/ 121 (C) | 73.944 | -0.154 | 5.801>> | 0.0 | -0.000 | -0.000 |
| 85/ 4821/ 130 (C) | 62.851 | -0.002 | -1.993<< | 0.0 | 0.000 | -0.000 |
| 85/ 4821/ 101 (C) | 28.961 | 0.000 | -0.131 | 0.0>> | -0.000 | 0.000 |
| 85/ 4821/ 101 (C) | 28.961 | 0.000 | -0.131 | 0.0<< | -0.000 | 0.000 |
| 85/ 2/7/ 121 (C) | 74.978 | 0.021 | -0.790 | 0.0 | 4.079>> | 0.109 |
| 85/ 2/7/ 130 (C) | 63.885 | 0.000 | 0.271 | 0.0 | -1.401<< | 0.002 |
| 85/ 2/7/ 144 (C) | 75.117 | 0.021 | -0.528 | 0.0 | 2.728 | 0.111>> |
| 85/ 2/7/ 155 (C) | 63.952 | -0.002 | -0.011 | 0.0 | 0.059 | -0.011<< |
| 86/ 4823/ 145 (C) | 86.776>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 86/ 4822/ 102 (C) | 30.804<< | 0.000 | 0.002 | 0.0 | 0.001 | -0.000 |
| 86/ 2/7/ 144 (C) | 80.943 | 0.000>> | -0.004 | 0.0 | 0.008 | 0.000 |
| 86/ 4822/ 144 (C) | 80.288 | -0.000<< | 0.010 | 0.0 | 0.006 | 0.000 |
| 86/ 4822/ 121 (C) | 80.149 | -0.000 | 0.014>> | 0.0 | 0.009 | 0.000 |
| 86/ 2/7/ 121 (C) | 80.804 | 0.000 | -0.005<< | 0.0 | 0.011 | 0.000 |
| 86/ 4822/ 101 (C) | 35.166 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 86/ 4822/ 101 (C) | 35.166 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 86/ 2/7/ 121 (C) | 80.804 | 0.000 | -0.005 | 0.0 | 0.011>> | 0.000 |
| 86/ 2/7/ 130 (C) | 69.711 | 0.000 | 0.002 | 0.0 | -0.004<< | 0.000 |
| 86/ 2/7/ 144 (C) | 80.943 | 0.000 | -0.004 | 0.0 | 0.008 | 0.000>> |
| 86/ 2/7/ 155 (C) | 69.778 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 87/ 4824/ 145 (C) | 88.120>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 102 (C) | 34.733<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 87/ 4/7/ 144 (C) | 84.890 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 144 (C) | 84.218 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 121 (C) | 84.078 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 87/ 4/7/ 121 (C) | 84.751 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 87/ 4823/ 101 (C) | 39.096 | 0.000 | -0.000 | 0.0>> | -0.000 | -0.000 |
| 87/ 4823/ 101 (C) | 39.096 | 0.000 | -0.000 | 0.0<< | -0.000 | -0.000 |
| 87/ 2/7/ 121 (C) | 84.302 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 87/ 2/7/ 130 (C) | 73.210 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 87/ 2/7/ 144 (C) | 84.442 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 87/ 2/7/ 155 (C) | 73.277 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 88/ 4826/ 145 (C) | 84.384>> | -0.001 | 0.011 | 0.0 | 0.007 | 0.001 |
| 88/ 4825/ 102 (C) | 26.956<< | 0.295 | 0.844 | 0.0 | -0.000 | 0.000 |
| 88/ 4825/ 102 (C) | 26.956 | 0.295>> | 0.844 | 0.0 | -0.000 | 0.000 |
| 88/ 4825/ 139 (C) | 65.742 | -0.994<< | 2.494 | 0.0 | -0.000 | -0.000 |
| 88/ 4825/ 122 (C) | 72.423 | -0.018 | 5.872>> | 0.0 | -0.000 | 0.000 |
| 88/ 4825/ 129 (C) | 65.694 | -0.871 | -1.988<< | 0.0 | 0.000 | -0.000 |
| 88/ 4825/ 101 (C) | 29.938 | -0.048 | -0.130 | 0.0>> | 0.000 | -0.000 |
| 88/ 4825/ 101 (C) | 29.938 | -0.048 | -0.130 | 0.0<< | 0.000 | -0.000 |
| 88/ 2/7/ 122 (C) | 73.457 | 0.002 | -0.799 | 0.0 | 4.129>> | 0.013 |
| 88/ 2/7/ 129 (C) | 66.729 | 0.119 | 0.271 | 0.0 | -1.398<< | 0.612 |
| 88/ 2/7/ 139 (C) | 66.776 | 0.135 | -0.340 | 0.0 | 1.754 | 0.699>> |
| 88/ 2/7/ 102 (C) | 27.990 | -0.040 | -0.115 | 0.0 | 0.593 | -0.208<< |
| 89/ 4827/ 145 (C) | 88.314>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 89/ 4826/ 102 (C) | 33.161<< | 0.001 | 0.002 | 0.0 | 0.001 | -0.000 |
| 89/ 2/7/ 139 (C) | 72.601 | 0.001>> | -0.002 | 0.0 | 0.005 | 0.002 |
| 89/ 4826/ 139 (C) | 71.947 | -0.002<< | 0.006 | 0.0 | 0.004 | 0.002 |
| 89/ 4826/ 122 (C) | 78.627 | -0.000 | 0.015>> | 0.0 | 0.009 | 0.000 |
| 89/ 2/7/ 122 (C) | 79.282 | 0.000 | -0.006<< | 0.0 | 0.011 | 0.000 |
| 89/ 4826/ 101 (C) | 36.143 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 89/ 4826/ 101 (C) | 36.143 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 89/ 2/7/ 122 (C) | 79.282 | 0.000 | -0.006 | 0.0 | 0.011>> | 0.000 |
| 89/ 2/7/ 129 (C) | 72.554 | 0.001 | 0.002 | 0.0 | -0.004<< | 0.002 |
| 89/ 2/7/ 139 (C) | 72.601 | 0.001 | -0.002 | 0.0 | 0.005 | 0.002>> |
| 89/ 2/7/ 102 (C) | 33.816 | -0.000 | -0.001 | 0.0 | 0.002 | -0.001<< |
| 90/ 4828/ 145 (C) | 89.659>> | -0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 90/ 4827/ 102 (C) | 37.091<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 90/ 4/7/ 139 (C) | 76.549 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 90/ 4827/ 139 (C) | 75.876 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 90/ 4827/ 122 (C) | 82.557 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 90/ 4/7/ 122 (C) | 83.229 | 0.000 | -0.000<< | 0.0 | 0.000 | 0.000 |
| 90/ 4827/ 101 (C) | 40.073 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 90/ 4827/ 101 (C) | 40.073 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 90/ 2/7/ 122 (C) | 82.781 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 90/ 2/7/ 129 (C) | 76.053 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 90/ 2/7/ 139 (C) | 76.100 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 90/ 2/7/ 102 (C) | 37.315 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 91/ 4830/ 143 (C) | 89.224>> | -0.004 | 0.010 | 0.0 | 0.006 | 0.002 |
| 91/ 4829/ 150 (C) | 32.360<< | -0.093 | -0.198 | 0.0 | 0.000 | -0.000 |
| 91/ 4829/ 102 (C) | 33.812 | 0.572>> | 0.847 | 0.0 | -0.000 | -0.000 |
| 91/ 4829/ 139 (C) | 73.590 | -1.798<< | 2.551 | 0.0 | -0.000 | -0.000 |
| 91/ 4829/ 122 (C) | 74.925 | 0.130 | 5.942>> | 0.0 | -0.000 | -0.000 |
| 91/ 4829/ 129 (C) | 73.556 | -1.675 | -1.979<< | 0.0 | 0.000 | -0.000 |
| 91/ 4829/ 101 (C) | 32.768 | -0.087 | -0.127 | 0.0>> | -0.000 | -0.000 |
| 91/ 4829/ 101 (C) | 32.768 | -0.087 | -0.127 | 0.0<< | -0.000 | -0.000 |
| 91/ 2/7/ 122 (C) | 75.960 | -0.018 | -0.809 | 0.0 | 4.178>> | -0.091 |
| 91/ 2/7/ 129 (C) | 74.591 | 0.228 | 0.269 | 0.0 | -1.392<< | 1.178 |
| 91/ 2/7/ 139 (C) | 74.624 | 0.245 | -0.347 | 0.0 | 1.794 | 1.265>> |
| 91/ 2/7/ 102 (C) | 34.846 | -0.078 | -0.115 | 0.0 | 0.596 | -0.402<< |
| 92/ 4831/ 143 (C) | 93.154>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 92/ 4830/ 150 (C) | 38.565<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 92/ 2/7/ 139 (C) | 80.450 | 0.002>> | -0.002 | 0.0 | 0.005 | 0.004 |
| 92/ 4830/ 139 (C) | 79.795 | -0.004<< | 0.006 | 0.0 | 0.004 | 0.003 |
| 92/ 4830/ 122 (C) | 81.130 | 0.000 | 0.015>> | 0.0 | 0.010 | -0.000 |
| 92/ 2/7/ 122 (C) | 81.785 | -0.000 | -0.006<< | 0.0 | 0.012 | -0.000 |
| 92/ 4830/ 101 (C) | 38.973 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 92/ 4830/ 101 (C) | 38.973 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 92/ 2/7/ 122 (C) | 81.785 | -0.000 | -0.006 | 0.0 | 0.012>> | -0.000 |
| 92/ 2/7/ 129 (C) | 80.416 | 0.002 | 0.002 | 0.0 | -0.004<< | 0.003 |
| 92/ 2/7/ 139 (C) | 80.450 | 0.002 | -0.002 | 0.0 | 0.005 | 0.004>> |
| 92/ 2/7/ 102 (C) | 40.672 | -0.001 | -0.001 | 0.0 | 0.002 | -0.001<< |
| 93/ 4832/ 143 (C) | 94.498>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 93/ 4831/ 150 (C) | 42.495<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 93/ 4/7/ 139 (C) | 84.397 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 93/ 4831/ 139 (C) | 83.725 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 93/ 4831/ 122 (C) | 85.060 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 93/ 4/7/ 122 (C) | 85.732 | -0.000 | -0.000<< | 0.0 | 0.000 | -0.000 |
| 93/ 4831/ 101 (C) | 42.903 | -0.000 | -0.000 | 0.0>> | -0.000 | 0.000 |
| 93/ 4831/ 101 (C) | 42.903 | -0.000 | -0.000 | 0.0<< | -0.000 | 0.000 |
| 93/ 2/7/ 122 (C) | 85.284 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 93/ 2/7/ 129 (C) | 83.915 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 93/ 2/7/ 139 (C) | 83.949 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 93/ 2/7/ 102 (C) | 44.170 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 94/ 4834/ 136 (C) | 87.881>> | 0.002 | -0.004 | 0.0 | -0.003 | -0.001 |
| 94/ 4833/ 102 (C) | 28.749<< | -0.588 | 2.613 | 0.0 | 0.000 | -0.000 |
| 94/ 4833/ 130 (C) | 71.051 | 1.670>> | -4.079 | 0.0 | -0.000 | 0.000 |
| 94/ 4833/ 117 (C) | 65.076 | -0.876<< | 7.119 | 0.0 | -0.000 | -0.000 |
| 94/ 4833/ 122 (C) | 81.403 | -0.665 | 7.295>> | 0.0 | -0.000 | -0.000 |
| 94/ 4833/ 106 (C) | 28.991 | 1.627 | -4.283<< | 0.0 | 0.000 | 0.000 |
| 94/ 4833/ 101 (C) | 29.031 | 0.082 | 0.175 | 0.0>> | -0.000 | 0.000 |
| 94/ 4833/ 101 (C) | 29.031 | 0.082 | 0.175 | 0.0<< | -0.000 | 0.000 |
| 94/ 2/7/ 122 (C) | 82.437 | 0.090 | -0.993 | 0.0 | 5.130>> | 0.467 |
| 94/ 2/7/ 106 (C) | 30.025 | -0.221 | 0.583 | 0.0 | -3.012<< | -1.144 |
| 94/ 2/7/ 117 (C) | 66.110 | 0.119 | -0.969 | 0.0 | 5.006 | 0.616>> |
| 94/ 2/7/ 130 (C) | 72.085 | -0.227 | 0.555 | 0.0 | -2.868 | -1.175<< |
| 95/ 4835/ 136 (C) | 91.811>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 95/ 4834/ 102 (C) | 34.954<< | -0.001 | 0.006 | 0.0 | 0.004 | 0.001 |
| 95/ 4834/ 130 (C) | 77.256 | 0.004>> | -0.010 | 0.0 | -0.007 | -0.003 |
| 95/ 4834/ 117 (C) | 71.281 | -0.002<< | 0.018 | 0.0 | 0.011 | 0.001 |
| 95/ 4834/ 122 (C) | 87.608 | -0.002 | 0.018>> | 0.0 | 0.012 | 0.001 |
| 95/ 4834/ 106 (C) | 35.196 | 0.004 | -0.011<< | 0.0 | -0.007 | -0.003 |
| 95/ 4834/ 101 (C) | 35.236 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 95/ 4834/ 101 (C) | 35.236 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 95/ 2/7/ 122 (C) | 88.263 | 0.001 | -0.007 | 0.0 | 0.014>> | 0.001 |
| 95/ 2/7/ 106 (C) | 35.851 | -0.002 | 0.004 | 0.0 | -0.008<< | -0.003 |
| 95/ 2/7/ 117 (C) | 71.936 | 0.001 | -0.007 | 0.0 | 0.014 | 0.002>> |
| 95/ 2/7/ 130 (C) | 77.911 | -0.002 | 0.004 | 0.0 | -0.008 | -0.003<< |
| 96/ 4836/ 136 (C) | 93.155>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 96/ 4835/ 102 (C) | 38.884<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 96/ 4835/ 130 (C) | 81.185 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 96/ 4835/ 117 (C) | 75.211 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 96/ 4835/ 122 (C) | 91.538 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 96/ 4835/ 106 (C) | 39.126 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 96/ 4835/ 101 (C) | 39.166 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 96/ 4835/ 101 (C) | 39.166 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 96/ 2/7/ 122 (C) | 91.762 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 96/ 2/7/ 106 (C) | 39.350 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 96/ 2/7/ 117 (C) | 75.435 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 96/ 2/7/ 130 (C) | 81.410 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 97/ 4838/ 136 (C) | 80.203>> | 0.001 | -0.004 | 0.0 | -0.003 | -0.001 |
| 97/ 4837/ 102 (C) | 22.482<< | -0.306 | 2.608 | 0.0 | -0.000 | -0.000 |
| 97/ 4837/ 130 (C) | 60.785 | 0.858>> | -4.090 | 0.0 | 0.000 | 0.000 |
| 97/ 4837/ 117 (C) | 57.813 | -0.605<< | 7.166 | 0.0 | 0.000 | -0.000 |
| 97/ 4837/ 122 (C) | 71.513 | -0.540 | 7.347>> | 0.0 | 0.000 | -0.000 |
| 97/ 4837/ 106 (C) | 22.780 | 0.838 | -4.287<< | 0.0 | 0.000 | -0.000 |
| 97/ 4837/ 101 (C) | 26.405 | 0.044 | 0.175 | 0.0>> | -0.000 | 0.000 |
| 97/ 4837/ 101 (C) | 26.405 | 0.044 | 0.175 | 0.0<< | -0.000 | 0.000 |
| 97/ 2/7/ 122 (C) | 72.547 | 0.074 | -1.000 | 0.0 | 5.166>> | 0.380 |
| 97/ 2/7/ 106 (C) | 23.814 | -0.114 | 0.584 | 0.0 | -3.014<< | -0.589 |
| 97/ 2/7/ 117 (C) | 58.847 | 0.082 | -0.976 | 0.0 | 5.039 | 0.426>> |
| 97/ 2/7/ 130 (C) | 61.819 | -0.117 | 0.557 | 0.0 | -2.876 | -0.604<< |
| 98/ 4839/ 136 (C) | 84.132>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 98/ 4838/ 102 (C) | 28.687<< | -0.001 | 0.006 | 0.0 | 0.004 | 0.000 |
| 98/ 4838/ 130 (C) | 66.990 | 0.002>> | -0.010 | 0.0 | -0.007 | -0.001 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 98/ 4838/ 117 (C) | 64.018 | -0.001<< | 0.018 | 0.0 | 0.012 | 0.001 |
| 98/ 4838/ 122 (C) | 77.718 | -0.001 | 0.018>> | 0.0 | 0.012 | 0.001 |
| 98/ 4838/ 106 (C) | 28.984 | 0.002 | -0.011<< | 0.0 | -0.007 | -0.001 |
| 98/ 4838/ 101 (C) | 32.610 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 98/ 4838/ 101 (C) | 32.610 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 98/ 2/7/ 122 (C) | 78.373 | 0.001 | -0.007 | 0.0 | 0.014>> | 0.001 |
| 98/ 2/7/ 106 (C) | 29.639 | -0.001 | 0.004 | 0.0 | -0.008<< | -0.002 |
| 98/ 2/7/ 117 (C) | 64.673 | 0.001 | -0.007 | 0.0 | 0.014 | 0.001>> |
| 98/ 2/7/ 130 (C) | 67.645 | -0.001 | 0.004 | 0.0 | -0.008 | -0.002<< |
| 99/ 4840/ 136 (C) | 85.477>> | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 99/ 4839/ 102 (C) | 32.617<< | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 99/ 4839/ 130 (C) | 70.920 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 99/ 4839/ 117 (C) | 67.948 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 99/ 4839/ 122 (C) | 81.648 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 99/ 4839/ 106 (C) | 32.914 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 99/ 4839/ 101 (C) | 36.540 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 99/ 4839/ 101 (C) | 36.540 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 99/ 2/7/ 122 (C) | 81.872 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 99/ 2/7/ 106 (C) | 33.138 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 99/ 2/7/ 117 (C) | 68.172 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 99/ 2/7/ 130 (C) | 71.144 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 100/ 4842/ 135 (C) | 75.496>> | -0.000 | -0.004 | 0.0 | -0.003 | 0.000 |
| 100/ 4841/ 102 (C) | 20.360<< | 0.000 | 2.606 | 0.0 | -0.000 | 0.000 |
| 100/ 3/7/ 144 (C) | 68.282 | 0.067>> | -0.401 | 0.0 | 0.571 | 0.095 |
| 100/ 4841/ 144 (C) | 66.214 | -0.411<< | 2.466 | 0.0 | -0.000 | 0.000 |
| 100/ 4841/ 122 (C) | 65.985 | -0.411 | 7.402>> | 0.0 | -0.000 | 0.000 |
| 100/ 4841/ 106 (C) | 20.680 | -0.000 | -4.291<< | 0.0 | 0.000 | -0.000 |
| 100/ 4841/ 101 (C) | 25.522 | -0.000 | 0.174 | 0.0>> | -0.000 | -0.000 |
| 100/ 4841/ 101 (C) | 25.522 | -0.000 | 0.174 | 0.0<< | -0.000 | -0.000 |
| 100/ 2/7/ 122 (C) | 67.019 | 0.056 | -1.008 | 0.0 | 5.205>> | 0.289 |
| 100/ 2/7/ 106 (C) | 21.714 | 0.000 | 0.584 | 0.0 | -3.017<< | 0.000 |
| 100/ 2/7/ 144 (C) | 67.248 | 0.056 | -0.336 | 0.0 | 1.734 | 0.289>> |
| 100/ 5/7/ 144 (C) | 70.351 | -0.003 | 0.016 | 0.0 | -0.073 | -0.012<< |
| 101/ 4843/ 135 (C) | 79.426>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 101/ 4842/ 102 (C) | 26.565<< | 0.000 | 0.006 | 0.0 | 0.004 | -0.000 |
| 101/ 2/7/ 144 (C) | 73.074 | 0.000>> | -0.002 | 0.0 | 0.005 | 0.001 |
| 101/ 4842/ 144 (C) | 72.419 | -0.001<< | 0.006 | 0.0 | 0.004 | 0.001 |
| 101/ 4842/ 122 (C) | 72.190 | -0.001 | 0.018>> | 0.0 | 0.012 | 0.001 |
| 101/ 4842/ 106 (C) | 26.885 | -0.000 | -0.011<< | 0.0 | -0.007 | 0.000 |
| 101/ 4842/ 101 (C) | 31.727 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 101/ 4842/ 101 (C) | 31.727 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 101/ 2/7/ 122 (C) | 72.845 | 0.000 | -0.007 | 0.0 | 0.014>> | 0.001 |
| 101/ 2/7/ 106 (C) | 27.540 | 0.000 | 0.004 | 0.0 | -0.008<< | 0.000 |
| 101/ 2/7/ 144 (C) | 73.074 | 0.000 | -0.002 | 0.0 | 0.005 | 0.001>> |
| 101/ 5/7/ 144 (C) | 75.039 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 102/ 4844/ 135 (C) | 80.771>> | -0.000 | 0.000 | 0.0 | -0.000 | 0.000 |
| 102/ 4843/ 102 (C) | 30.494<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 102/ 4/7/ 144 (C) | 77.021 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 102/ 4843/ 144 (C) | 76.349 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 102/ 4843/ 122 (C) | 76.120 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 102/ 4843/ 106 (C) | 30.815 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 102/ 4843/ 101 (C) | 35.656 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |



ROBOT v 17.0.1
Autor :
Dirección :

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Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 102/ 4843/ 101 (C) | 35.656 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 102/ 2/7/ 122 (C) | 76.344 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 102/ 2/7/ 106 (C) | 31.039 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 102/ 2/7/ 144 (C) | 76.573 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 102/ 2/7/ 157 (C) | 32.873 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 103/ 4846/ 135 (C) | 76.905>> | -0.001 | -0.004 | 0.0 | -0.003 | 0.001 |
| 103/ 4845/ 102 (C) | 22.482<< | 0.306 | 2.608 | 0.0 | -0.000 | 0.000 |
| 103/ 4845/ 102 (C) | 22.482 | 0.306>> | 2.608 | 0.0 | -0.000 | 0.000 |
| 103/ 4845/ 140 (C) | 55.386 | -1.179<< | 0.366 | 0.0 | -0.000 | -0.000 |
| 103/ 4845/ 121 (C) | 68.175 | -0.258 | 7.466>> | 0.0 | -0.000 | -0.000 |
| 103/ 4845/ 106 (C) | 22.780 | -0.838 | -4.287<< | 0.0 | 0.000 | -0.000 |
| 103/ 4845/ 101 (C) | 26.405 | -0.044 | 0.175 | 0.0>> | -0.000 | -0.000 |
| 103/ 4845/ 101 (C) | 26.405 | -0.044 | 0.175 | 0.0<< | -0.000 | -0.000 |
| 103/ 2/7/ 121 (C) | 69.209 | 0.035 | -1.016 | 0.0 | 5.250>> | 0.181 |
| 103/ 2/7/ 106 (C) | 23.814 | 0.114 | 0.584 | 0.0 | -3.014<< | 0.589 |
| 103/ 2/7/ 140 (C) | 56.420 | 0.161 | -0.050 | 0.0 | 0.258 | 0.829>> |
| 103/ 2/7/ 102 (C) | 23.516 | -0.042 | -0.355 | 0.0 | 1.834 | -0.215<< |
| 104/ 4847/ 135 (C) | 80.835>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 104/ 4846/ 102 (C) | 28.687<< | 0.001 | 0.006 | 0.0 | 0.004 | -0.000 |
| 104/ 2/7/ 140 (C) | 62.246 | 0.001>> | -0.000 | 0.0 | 0.001 | 0.002 |
| 104/ 4846/ 140 (C) | 61.591 | -0.003<< | 0.001 | 0.0 | 0.001 | 0.002 |
| 104/ 4846/ 121 (C) | 74.380 | -0.001 | 0.018>> | 0.0 | 0.012 | 0.000 |
| 104/ 4846/ 106 (C) | 28.984 | -0.002 | -0.011<< | 0.0 | -0.007 | 0.001 |
| 104/ 4846/ 101 (C) | 32.610 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 104/ 4846/ 101 (C) | 32.610 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 104/ 2/7/ 121 (C) | 75.035 | 0.000 | -0.007 | 0.0 | 0.015>> | 0.001 |
| 104/ 2/7/ 106 (C) | 29.639 | 0.001 | 0.004 | 0.0 | -0.008<< | 0.002 |
| 104/ 2/7/ 140 (C) | 62.246 | 0.001 | -0.000 | 0.0 | 0.001 | 0.002>> |
| 104/ 2/7/ 102 (C) | 29.342 | -0.000 | -0.002 | 0.0 | 0.005 | -0.001<< |
| 105/ 4848/ 135 (C) | 82.179>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 105/ 4847/ 102 (C) | 32.617<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 105/ 4/7/ 140 (C) | 66.193 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 105/ 4847/ 140 (C) | 65.521 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 105/ 4847/ 121 (C) | 78.309 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 105/ 4847/ 106 (C) | 32.914 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 105/ 4847/ 101 (C) | 36.540 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 105/ 4847/ 101 (C) | 36.540 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 105/ 2/7/ 121 (C) | 78.534 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 105/ 2/7/ 106 (C) | 33.138 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 105/ 2/7/ 140 (C) | 65.745 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 105/ 2/7/ 102 (C) | 32.841 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 106/ 4850/ 135 (C) | 80.748>> | -0.002 | -0.004 | 0.0 | -0.003 | 0.001 |
| 106/ 4849/ 102 (C) | 28.749<< | 0.588 | 2.613 | 0.0 | -0.000 | 0.000 |
| 106/ 4849/ 102 (C) | 28.749 | 0.588>> | 2.613 | 0.0 | -0.000 | 0.000 |
| 106/ 4849/ 139 (C) | 65.251 | -1.976<< | 0.429 | 0.0 | -0.000 | -0.000 |
| 106/ 4849/ 121 (C) | 74.186 | -0.117 | 7.528>> | 0.0 | 0.000 | -0.000 |
| 106/ 4849/ 106 (C) | 28.991 | -1.627 | -4.283<< | 0.0 | -0.000 | -0.000 |
| 106/ 4849/ 101 (C) | 29.031 | -0.082 | 0.175 | 0.0>> | -0.000 | -0.000 |
| 106/ 4849/ 101 (C) | 29.031 | -0.082 | 0.175 | 0.0<< | -0.000 | -0.000 |
| 106/ 2/7/ 121 (C) | 75.221 | 0.016 | -1.025 | 0.0 | 5.294>> | 0.082 |
| 106/ 2/7/ 106 (C) | 30.025 | 0.221 | 0.583 | 0.0 | -3.012<< | 1.144 |
| 106/ 2/7/ 139 (C) | 66.285 | 0.269 | -0.058 | 0.0 | 0.302 | 1.389>> |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 106/ 2/7/ 102 (C) | 29.783 | -0.080 | -0.356 | 0.0 | 1.838 | -0.413<< |
| 107/ 4851/ 135 (C) | 84.678>> | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 107/ 4850/ 102 (C) | 34.954<< | 0.001 | 0.006 | 0.0 | 0.004 | -0.001 |
| 107/ 2/7/ 139 (C) | 72.111 | 0.002>> | -0.000 | 0.0 | 0.001 | 0.004 |
| 107/ 4850/ 139 (C) | 71.456 | -0.005<< | 0.001 | 0.0 | 0.001 | 0.003 |
| 107/ 4850/ 121 (C) | 80.391 | -0.000 | 0.019>> | 0.0 | 0.012 | 0.000 |
| 107/ 4850/ 106 (C) | 35.196 | -0.004 | -0.011<< | 0.0 | -0.007 | 0.003 |
| 107/ 4850/ 101 (C) | 35.236 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 107/ 4850/ 101 (C) | 35.236 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 107/ 2/7/ 121 (C) | 81.046 | 0.000 | -0.007 | 0.0 | 0.015>> | 0.000 |
| 107/ 2/7/ 106 (C) | 35.851 | 0.002 | 0.004 | 0.0 | -0.008<< | 0.003 |
| 107/ 2/7/ 139 (C) | 72.111 | 0.002 | -0.000 | 0.0 | 0.001 | 0.004>> |
| 107/ 2/7/ 102 (C) | 35.609 | -0.001 | -0.002 | 0.0 | 0.005 | -0.001<< |
| 108/ 4852/ 135 (C) | 86.023>> | 0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 108/ 4851/ 102 (C) | 38.884<< | 0.000 | 0.000 | 0.0 | 0.000 | -0.000 |
| 108/ 4/7/ 139 (C) | 76.058 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 108/ 4851/ 139 (C) | 75.385 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 108/ 4851/ 121 (C) | 84.321 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 108/ 4851/ 106 (C) | 39.126 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 108/ 4851/ 101 (C) | 39.166 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 108/ 4851/ 101 (C) | 39.166 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 108/ 2/7/ 121 (C) | 84.545 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 108/ 2/7/ 106 (C) | 39.350 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 108/ 2/7/ 139 (C) | 75.610 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 108/ 2/7/ 102 (C) | 39.108 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 109/ 4854/ 122 (C) | 49.758>> | -0.002 | 0.019 | 0.0 | 0.013 | 0.001 |
| 109/ 4853/ 104 (C) | 12.407<< | 0.714 | -2.245 | 0.0 | 0.000 | 0.000 |
| 109/ 4853/ 130 (C) | 38.186 | 1.631>> | -5.102 | 0.0 | 0.000 | 0.000 |
| 109/ 4853/ 117 (C) | 34.602 | -0.979<< | 7.834 | 0.0 | -0.000 | -0.000 |
| 109/ 4853/ 118 (C) | 38.601 | -0.979 | 7.864>> | 0.0 | -0.000 | -0.000 |
| 109/ 4853/ 106 (C) | 14.655 | 1.606 | -5.380<< | 0.0 | 0.000 | 0.000 |
| 109/ 4853/ 101 (C) | 12.480 | 0.075 | 0.258 | 0.0>> | 0.000 | -0.000 |
| 109/ 4853/ 101 (C) | 12.480 | 0.075 | 0.258 | 0.0<< | 0.000 | -0.000 |
| 109/ 2/7/ 118 (C) | 39.635 | 0.133 | -1.071 | 0.0 | 5.530>> | 0.688 |
| 109/ 2/7/ 106 (C) | 15.689 | -0.219 | 0.732 | 0.0 | -3.783<< | -1.129 |
| 109/ 2/7/ 117 (C) | 35.637 | 0.133 | -1.067 | 0.0 | 5.509 | 0.689>> |
| 109/ 2/7/ 130 (C) | 39.220 | -0.222 | 0.695 | 0.0 | -3.587 | -1.147<< |
| 110/ 4855/ 122 (C) | 53.688>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 110/ 4854/ 104 (C) | 18.612<< | 0.002 | -0.006 | 0.0 | -0.004 | -0.001 |
| 110/ 4854/ 130 (C) | 44.391 | 0.004>> | -0.013 | 0.0 | -0.008 | -0.003 |
| 110/ 4854/ 117 (C) | 40.807 | -0.002<< | 0.019 | 0.0 | 0.013 | 0.002 |
| 110/ 4854/ 118 (C) | 44.806 | -0.002 | 0.019>> | 0.0 | 0.013 | 0.002 |
| 110/ 4854/ 106 (C) | 20.860 | 0.004 | -0.013<< | 0.0 | -0.009 | -0.003 |
| 110/ 4854/ 101 (C) | 18.685 | 0.000 | 0.001 | 0.0>> | 0.000 | -0.000 |
| 110/ 4854/ 101 (C) | 18.685 | 0.000 | 0.001 | 0.0<< | 0.000 | -0.000 |
| 110/ 2/7/ 118 (C) | 45.461 | 0.001 | -0.007 | 0.0 | 0.015>> | 0.002 |
| 110/ 2/7/ 106 (C) | 21.515 | -0.002 | 0.005 | 0.0 | -0.011<< | -0.003 |
| 110/ 2/7/ 117 (C) | 41.462 | 0.001 | -0.007 | 0.0 | 0.015 | 0.002>> |
| 110/ 2/7/ 130 (C) | 45.046 | -0.002 | 0.005 | 0.0 | -0.010 | -0.003<< |
| 111/ 4856/ 122 (C) | 55.032>> | -0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 111/ 4855/ 104 (C) | 22.542<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 111/ 4855/ 130 (C) | 48.320 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |





| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 111/ 4855/ 117 (C) | 44.737 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 111/ 4855/ 118 (C) | 48.736 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 111/ 4855/ 106 (C) | 24.789 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 111/ 4855/ 101 (C) | 22.615 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 111/ 4855/ 101 (C) | 22.615 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 111/ 2/7/ 118 (C) | 48.960 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 111/ 2/7/ 106 (C) | 25.013 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 111/ 2/7/ 117 (C) | 44.961 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 111/ 2/7/ 130 (C) | 48.544 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 112/ 4858/ 126 (C) | 41.886>> | -0.001 | 0.015 | 0.0 | 0.010 | 0.001 |
| 112/ 4857/ 106 (C) | 9.119<< | 0.822 | -5.393 | 0.0 | 0.000 | -0.000 |
| 112/ 4857/ 129 (C) | 27.783 | 0.842>> | -5.148 | 0.0 | 0.000 | 0.000 |
| 112/ 4857/ 118 (C) | 29.793 | -0.718<< | 7.883 | 0.0 | -0.000 | -0.000 |
| 112/ 4857/ 118 (C) | 29.793 | -0.718 | 7.883>> | 0.0 | -0.000 | -0.000 |
| 112/ 4857/ 106 (C) | 9.119 | 0.822 | -5.393<< | 0.0 | 0.000 | -0.000 |
| 112/ 4857/ 101 (C) | 10.102 | 0.039 | 0.252 | 0.0>> | -0.000 | 0.000 |
| 112/ 4857/ 101 (C) | 10.102 | 0.039 | 0.252 | 0.0<< | -0.000 | 0.000 |
| 112/ 2/7/ 118 (C) | 30.827 | 0.098 | -1.073 | 0.0 | 5.543>> | 0.505 |
| 112/ 2/7/ 106 (C) | 10.154 | -0.112 | 0.734 | 0.0 | -3.792<< | -0.578 |
| 112/ 2/7/ 118 (C) | 30.827 | 0.098 | -1.073 | 0.0 | 5.543 | 0.505>> |
| 112/ 2/7/ 129 (C) | 28.817 | -0.115 | 0.701 | 0.0 | -3.620 | -0.592<< |
| 113/ 4859/ 126 (C) | 45.815>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 113/ 4858/ 106 (C) | 15.324<< | 0.002 | -0.013 | 0.0 | -0.009 | -0.001 |
| 113/ 4858/ 129 (C) | 33.988 | 0.002>> | -0.013 | 0.0 | -0.008 | -0.001 |
| 113/ 4858/ 118 (C) | 35.998 | -0.002<< | 0.019 | 0.0 | 0.013 | 0.001 |
| 113/ 4858/ 118 (C) | 35.998 | -0.002 | 0.019>> | 0.0 | 0.013 | 0.001 |
| 113/ 4858/ 106 (C) | 15.324 | 0.002 | -0.013<< | 0.0 | -0.009 | -0.001 |
| 113/ 4858/ 101 (C) | 16.307 | 0.000 | 0.001 | 0.0>> | 0.000 | -0.000 |
| 113/ 4858/ 101 (C) | 16.307 | 0.000 | 0.001 | 0.0<< | 0.000 | -0.000 |
| 113/ 2/7/ 118 (C) | 36.653 | 0.001 | -0.007 | 0.0 | 0.015>> | 0.001 |
| 113/ 2/7/ 106 (C) | 15.979 | -0.001 | 0.005 | 0.0 | -0.011<< | -0.002 |
| 113/ 2/7/ 118 (C) | 36.653 | 0.001 | -0.007 | 0.0 | 0.015 | 0.001>> |
| 113/ 2/7/ 129 (C) | 34.643 | -0.001 | 0.005 | 0.0 | -0.010 | -0.002<< |
| 114/ 4860/ 126 (C) | 47.160>> | -0.000 | -0.000 | 0.0 | 0.000 | -0.000 |
| 114/ 4859/ 106 (C) | 19.254<< | 0.000 | -0.000 | 0.0 | -0.000 | -0.000 |
| 114/ 4859/ 129 (C) | 37.918 | 0.000>> | -0.000 | 0.0 | -0.000 | -0.000 |
| 114/ 4859/ 118 (C) | 39.928 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 114/ 4859/ 118 (C) | 39.928 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 114/ 4859/ 106 (C) | 19.254 | 0.000 | -0.000<< | 0.0 | -0.000 | -0.000 |
| 114/ 4859/ 101 (C) | 20.236 | 0.000 | 0.000 | 0.0>> | 0.000 | -0.000 |
| 114/ 4859/ 101 (C) | 20.236 | 0.000 | 0.000 | 0.0<< | 0.000 | -0.000 |
| 114/ 2/7/ 118 (C) | 40.152 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 114/ 2/7/ 106 (C) | 19.478 | -0.000 | 0.000 | 0.0 | -0.000<< | -0.000 |
| 114/ 2/7/ 118 (C) | 40.152 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 114/ 2/7/ 129 (C) | 38.142 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 115/ 4862/ 125 (C) | 38.433>> | -0.001 | 0.015 | 0.0 | 0.010 | 0.001 |
| 115/ 4861/ 106 (C) | 7.315<< | -0.000 | -5.407 | 0.0 | 0.000 | -0.000 |
| 115/ 3/7/ 144 (C) | 33.013 | 0.088>> | -0.274 | 0.0 | 0.391 | 0.126 |
| 115/ 4861/ 144 (C) | 30.944 | -0.542<< | 1.688 | 0.0 | -0.000 | -0.000 |
| 115/ 4861/ 118 (C) | 25.795 | -0.434 | 7.920>> | 0.0 | -0.000 | -0.000 |
| 115/ 4861/ 106 (C) | 7.315 | -0.000 | -5.407<< | 0.0 | 0.000 | -0.000 |
| 115/ 4861/ 101 (C) | 9.298 | -0.000 | 0.250 | 0.0>> | -0.000 | -0.000 |

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 115/ 4861/ 101 (C) | 9.298 | -0.000 | 0.250 | 0.0<< | -0.000 | -0.000 |
| 115/ 2/7/ 118 (C) | 26.829 | 0.059 | -1.078 | 0.0 | 5.569>> | 0.305 |
| 115/ 2/7/ 106 (C) | 8.349 | 0.000 | 0.736 | 0.0 | -3.802<< | 0.000 |
| 115/ 2/7/ 144 (C) | 31.979 | 0.074 | -0.230 | 0.0 | 1.187 | 0.381>> |
| 115/ 5/7/ 144 (C) | 35.081 | -0.004 | 0.011 | 0.0 | -0.050 | -0.016<< |
| 116/ 4863/ 125 (C) | 42.363>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 116/ 4862/ 106 (C) | 13.520<< | -0.000 | -0.013 | 0.0 | -0.009 | 0.000 |
| 116/ 2/7/ 144 (C) | 37.804 | 0.001>> | -0.002 | 0.0 | 0.003 | 0.001 |
| 116/ 4862/ 144 (C) | 37.149 | -0.001<< | 0.004 | 0.0 | 0.003 | 0.001 |
| 116/ 4862/ 118 (C) | 32.000 | -0.001 | 0.020>> | 0.0 | 0.013 | 0.001 |
| 116/ 4862/ 106 (C) | 13.520 | -0.000 | -0.013<< | 0.0 | -0.009 | 0.000 |
| 116/ 4862/ 101 (C) | 15.502 | -0.000 | 0.001 | 0.0>> | 0.000 | 0.000 |
| 116/ 4862/ 101 (C) | 15.502 | -0.000 | 0.001 | 0.0<< | 0.000 | 0.000 |
| 116/ 2/7/ 118 (C) | 32.655 | 0.000 | -0.007 | 0.0 | 0.015>> | 0.001 |
| 116/ 2/7/ 106 (C) | 14.175 | 0.000 | 0.005 | 0.0 | -0.011<< | 0.000 |
| 116/ 2/7/ 144 (C) | 37.804 | 0.001 | -0.002 | 0.0 | 0.003 | 0.001>> |
| 116/ 5/7/ 144 (C) | 39.769 | -0.000 | 0.000 | 0.0 | -0.000 | -0.000<< |
| 117/ 4864/ 125 (C) | 43.707>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 106 (C) | 17.450<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 117/ 4/7/ 144 (C) | 41.751 | 0.000>> | -0.000 | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 144 (C) | 41.079 | -0.000<< | 0.000 | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 118 (C) | 35.930 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 117/ 4863/ 106 (C) | 17.450 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 117/ 4863/ 101 (C) | 19.432 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 117/ 4863/ 101 (C) | 19.432 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 117/ 2/7/ 118 (C) | 36.154 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 117/ 2/7/ 106 (C) | 17.674 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 117/ 2/7/ 144 (C) | 41.303 | 0.000 | -0.000 | 0.0 | 0.000 | 0.000>> |
| 117/ 2/7/ 157 (C) | 18.622 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 118/ 4866/ 125 (C) | 39.813>> | -0.001 | 0.015 | 0.0 | 0.010 | 0.001 |
| 118/ 4865/ 106 (C) | 9.119<< | -0.822 | -5.393 | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 102 (C) | 9.330 | 0.318>> | 3.255 | 0.0 | -0.000 | 0.000 |
| 118/ 4865/ 140 (C) | 26.190 | -1.263<< | -0.691 | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 117 (C) | 28.135 | -0.103 | 7.973>> | 0.0 | -0.000 | -0.000 |
| 118/ 4865/ 106 (C) | 9.119 | -0.822 | -5.393<< | 0.0 | 0.000 | -0.000 |
| 118/ 4865/ 101 (C) | 10.102 | -0.039 | 0.252 | 0.0>> | -0.000 | -0.000 |
| 118/ 4865/ 101 (C) | 10.102 | -0.039 | 0.252 | 0.0<< | -0.000 | -0.000 |
| 118/ 2/7/ 117 (C) | 29.169 | 0.014 | -1.085 | 0.0 | 5.606>> | 0.072 |
| 118/ 2/7/ 106 (C) | 10.154 | 0.112 | 0.734 | 0.0 | -3.792<< | 0.578 |
| 118/ 2/7/ 140 (C) | 27.224 | 0.172 | 0.094 | 0.0 | -0.486 | 0.888>> |
| 118/ 2/7/ 102 (C) | 10.364 | -0.043 | -0.443 | 0.0 | 2.289 | -0.224<< |
| 119/ 4867/ 125 (C) | 43.743>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 119/ 4866/ 106 (C) | 15.324<< | -0.002 | -0.013 | 0.0 | -0.009 | 0.001 |
| 119/ 2/7/ 140 (C) | 33.050 | 0.001>> | 0.001 | 0.0 | -0.001 | 0.002 |
| 119/ 4866/ 140 (C) | 32.395 | -0.003<< | -0.002 | 0.0 | -0.001 | 0.002 |
| 119/ 4866/ 117 (C) | 34.340 | -0.000 | 0.020>> | 0.0 | 0.013 | 0.000 |
| 119/ 4866/ 106 (C) | 15.324 | -0.002 | -0.013<< | 0.0 | -0.009 | 0.001 |
| 119/ 4866/ 101 (C) | 16.307 | -0.000 | 0.001 | 0.0>> | 0.000 | 0.000 |
| 119/ 4866/ 101 (C) | 16.307 | -0.000 | 0.001 | 0.0<< | 0.000 | 0.000 |
| 119/ 2/7/ 117 (C) | 34.995 | 0.000 | -0.007 | 0.0 | 0.016>> | 0.000 |
| 119/ 2/7/ 106 (C) | 15.979 | 0.001 | 0.005 | 0.0 | -0.011<< | 0.002 |
| 119/ 2/7/ 140 (C) | 33.050 | 0.001 | 0.001 | 0.0 | -0.001 | 0.002>> |



ROBOT v 17.0.1
Autor :
Dirección :
© RoboBAT 1996-2003
Archivo : **Losa Pilotada M10 V4.rtd**
Proyecto : Losa Pilotada M10 V4

| Barra/Punto/Caso | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| 119/ 2/7/ 102 (C) | 16.190 | -0.000 | -0.003 | 0.0 | 0.006 | -0.001<< |
| 120/ 4868/ 125 (C) | 45.088>> | -0.000 | -0.000 | 0.0 | 0.000 | 0.000 |
| 120/ 4867/ 106 (C) | 19.254<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 120/ 4/7/ 140 (C) | 36.997 | 0.000>> | 0.000 | 0.0 | -0.000 | 0.000 |
| 120/ 4867/ 140 (C) | 36.325 | -0.000<< | -0.000 | 0.0 | -0.000 | 0.000 |
| 120/ 4867/ 117 (C) | 38.270 | -0.000 | 0.000>> | 0.0 | 0.000 | 0.000 |
| 120/ 4867/ 106 (C) | 19.254 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 120/ 4867/ 101 (C) | 20.236 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 120/ 4867/ 101 (C) | 20.236 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 120/ 2/7/ 117 (C) | 38.494 | 0.000 | -0.000 | 0.0 | 0.000>> | 0.000 |
| 120/ 2/7/ 106 (C) | 19.478 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 120/ 2/7/ 140 (C) | 36.549 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 120/ 2/7/ 102 (C) | 19.689 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |
| 121/ 4870/ 121 (C) | 44.686>> | -0.000 | 0.020 | 0.0 | 0.013 | 0.000 |
| 121/ 4869/ 104 (C) | 12.407<< | -0.714 | -2.245 | 0.0 | 0.000 | -0.000 |
| 121/ 4869/ 102 (C) | 14.908 | 0.602>> | 3.270 | 0.0 | -0.000 | 0.000 |
| 121/ 4869/ 140 (C) | 30.374 | -2.038<< | -0.637 | 0.0 | 0.000 | -0.000 |
| 121/ 4869/ 117 (C) | 34.543 | 0.177 | 8.041>> | 0.0 | -0.000 | 0.000 |
| 121/ 4869/ 106 (C) | 14.655 | -1.606 | -5.380<< | 0.0 | 0.000 | 0.000 |
| 121/ 4869/ 101 (C) | 12.480 | -0.075 | 0.258 | 0.0>> | -0.000 | -0.000 |
| 121/ 4869/ 101 (C) | 12.480 | -0.075 | 0.258 | 0.0<< | -0.000 | -0.000 |
| 121/ 2/7/ 117 (C) | 35.577 | -0.024 | -1.095 | 0.0 | 5.654>> | -0.124 |
| 121/ 2/7/ 106 (C) | 15.689 | 0.219 | 0.732 | 0.0 | -3.783<< | 1.129 |
| 121/ 2/7/ 140 (C) | 31.408 | 0.277 | 0.087 | 0.0 | -0.448 | 1.433>> |
| 121/ 2/7/ 102 (C) | 15.942 | -0.082 | -0.445 | 0.0 | 2.299 | -0.424<< |
| 122/ 4871/ 121 (C) | 48.616>> | -0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 122/ 4870/ 104 (C) | 18.612<< | -0.002 | -0.006 | 0.0 | -0.004 | 0.001 |
| 122/ 2/7/ 140 (C) | 37.234 | 0.002>> | 0.001 | 0.0 | -0.001 | 0.004 |
| 122/ 4870/ 140 (C) | 36.579 | -0.005<< | -0.002 | 0.0 | -0.001 | 0.003 |
| 122/ 4870/ 117 (C) | 40.748 | 0.000 | 0.020>> | 0.0 | 0.013 | -0.000 |
| 122/ 4870/ 106 (C) | 20.860 | -0.004 | -0.013<< | 0.0 | -0.009 | 0.003 |
| 122/ 4870/ 101 (C) | 18.685 | -0.000 | 0.001 | 0.0>> | 0.000 | 0.000 |
| 122/ 4870/ 101 (C) | 18.685 | -0.000 | 0.001 | 0.0<< | 0.000 | 0.000 |
| 122/ 2/7/ 117 (C) | 41.403 | -0.000 | -0.008 | 0.0 | 0.016>> | -0.000 |
| 122/ 2/7/ 106 (C) | 21.515 | 0.002 | 0.005 | 0.0 | -0.011<< | 0.003 |
| 122/ 2/7/ 140 (C) | 37.234 | 0.002 | 0.001 | 0.0 | -0.001 | 0.004>> |
| 122/ 2/7/ 102 (C) | 21.767 | -0.001 | -0.003 | 0.0 | 0.006 | -0.001<< |
| 123/ 4872/ 121 (C) | 49.960>> | 0.000 | 0.000 | 0.0 | 0.000 | 0.000 |
| 123/ 4871/ 104 (C) | 22.542<< | -0.000 | -0.000 | 0.0 | -0.000 | 0.000 |
| 123/ 4/7/ 140 (C) | 41.181 | 0.000>> | 0.000 | 0.0 | -0.000 | 0.000 |
| 123/ 4871/ 140 (C) | 40.509 | -0.000<< | -0.000 | 0.0 | -0.000 | 0.000 |
| 123/ 4871/ 117 (C) | 44.678 | 0.000 | 0.000>> | 0.0 | 0.000 | -0.000 |
| 123/ 4871/ 106 (C) | 24.789 | -0.000 | -0.000<< | 0.0 | -0.000 | 0.000 |
| 123/ 4871/ 101 (C) | 22.615 | -0.000 | 0.000 | 0.0>> | 0.000 | 0.000 |
| 123/ 4871/ 101 (C) | 22.615 | -0.000 | 0.000 | 0.0<< | 0.000 | 0.000 |
| 123/ 2/7/ 117 (C) | 44.902 | -0.000 | -0.000 | 0.0 | 0.000>> | -0.000 |
| 123/ 2/7/ 106 (C) | 25.013 | 0.000 | 0.000 | 0.0 | -0.000<< | 0.000 |
| 123/ 2/7/ 140 (C) | 40.733 | 0.000 | 0.000 | 0.0 | -0.000 | 0.000>> |
| 123/ 2/7/ 102 (C) | 25.266 | -0.000 | -0.000 | 0.0 | 0.000 | -0.000<< |

**Esfuerzos Máximos y Mínimos en Pilotes para Combinación ELU - Casos: 101A170**

**- Casos: 101A170**

| Filtrar | Barra | Caso |
|---|---|---|
| Lista completa | 1 3A123 140A14 | 1A14 101A170 2 |
| Selección | 4A123 | 101A170 |
| | | |
| Número total | 120 | 208 |
| Número seleccionado | 120 | 70 |

**- Casos: 101A170**

| | FX (T) | FY (T) | FZ (T) | MX (Tm) | MY (Tm) | MZ (Tm) |
|---|---|---|---|---|---|---|
| | | | | | | |
| MAX | 102.693 | 2.050 | 9.861 | 0.0 | 6.934 | 1.433 |
| Barra | 81 | 4 | 16 | 4 | 16 | 121 |
| Punto | 4816 | 4713 | 4729 | 4713 | 2/7 | 2/7 |
| Caso | 144 (C) | 140 (C) | 140 (C) | 101 (C) | 140 (C) | 140 (C) |
| | | | | | | |
| MIN | 7.315 | -2.038 | -5.407 | 0.0 | -3.802 | -1.442 |
| Barra | 115 | 121 | 115 | 4 | 115 | 4 |
| Punto | 4861 | 4869 | 4861 | 4713 | 2/7 | 2/7 |
| Caso | 106 (C) | 140 (C) | 106 (C) | 101 (C) | 106 (C) | 140 (C) |
| | | | | | | |

## 10. ANÁLISIS DE LA INTERACCIÓN VÍA-ESTRUCTURA

El análisis de la interacción vía-estructura se ha realizado en el apartado 10 de la memoría de cálculo correspondiente a los módulos 1 a 6 y 13. La comprobación allí realizada tenía carácter general, es decir, era válida para todos los módulos de la losa. Por esta razón en el presente documento no se realiza las verificaciones relativas a la interacción vía-estructura.

Módulo 11 (1)