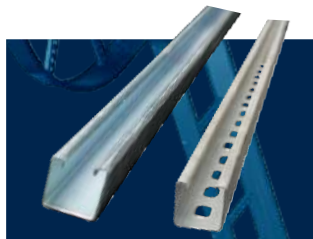
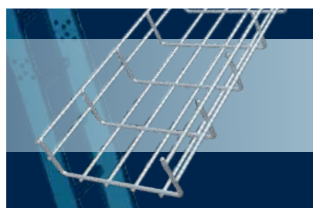
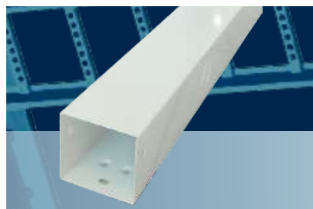


# Cable tray Catalog



**Tecnوترay**  
High Technology in Cable Management

## Catálogo 2018



# Tecnotray

High Technology in Cable Management

At Tecnotray, we are pleased to offer our customers the widest variety of materials for **ELECTRIC CABLE SUPPORTS**, designed to optimize your facilities and provide you with the best alternative of a 100% Mexican product, unique when complying with the highest quality standards.

All our products are certified by the Normalization and Certification Association A.C. (ANCE, for its acronym in Spanish), LAPEM (CFE), PEMEX (IMP), and UL (Underwriters Laboratories) which ensure a reliable installation.

Tecnotray leads the national market. Likewise, in our aim of innovating and being state-of-the-art, we offer to our customers 5 different colors for our range of mesh-type tray and squared hinged ducts; which are lined with the most advanced technology in painting process patented for our line of **ELECTRIC SUPPORTS**.

Due to all the aforementioned, at Tecnotray we feel very proud of offering to our customers and friends a product of the highest **QUALITY** and with dedicated **SERVICE**.

At Tecnotray, we are truly committed to provide the best product at the best price and the **SERVICE** warranty that you deserve.

En Tecnotray tenemos el gusto de ofrecer a nuestros clientes la más amplia variedad de materiales de **SOPORTERÍA PARA CABLES ELÉCTRICOS**, diseñada para optimizar sus instalaciones y brindarle la mejor alternativa de un producto 100% mexicano, único en cumplir con los más altos estándares de calidad.

Todos nuestros productos son certificados por la Asociación de Normalización y Certificación A.C. (ANCE), LAPEM (CFE) y PEMEX (IMP) que aseguran una instalación confiable.

Tecnotray se adelanta en el mercado nacional. Así mismo, en un afán de innovar e ir a la vanguardia, ofrecemos a nuestros clientes 5 colores diferentes para nuestra gama de charola tipo malla y ductos cuadrados embisagrados; mismos que son recubiertos con la más avanzada tecnología en procesos de pintura patentados para nuestra línea de **SOPORTES ELÉCTRICOS**.

Por todo lo anterior en Tecnotray nos sentimos muy orgullosos de ofrecer a nuestros clientes y amigos un producto de la más alta **CALIDAD** y con un esmerado **SERVICIO**.

En Tecnotray tenemos el firme compromiso de brindar el mejor producto con el mejor precio y la garantía de **SERVICIO** que usted se merece.



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### CERTIFICADOS / CERTIFICATE



# CHAROLA

# TIPO ESCALERA

## CABLE TRAY SYSTEM LADDER TYPE

# Procedimiento para la Selección de la Charola

## Pasos:

1. Determinar la sección que ocuparan los cables, así como el peso de los mismos.
2. Resolver las Expresiones (1) y (2) para obtener la "sección mínima de charola necesaria" y la "carga uniformemente distribuida".

(1). Sección mínima de la charola:

$$S \text{ min} = \frac{K \times (100+R) \times Sc}{100}$$

(2). Carga uniformemente distribuida:

$$P = \frac{(100+R) \times Pc}{100}$$

- (3). Determinar la charola adecuada en virtud a los resultados (1) y (2) y de la altura del soporte estimado.

## Donde:

$S \text{ mm} = \text{Sección Mínima en mm}^2$

$K = \text{Coeficiente de relleno, es el factor de apilamiento de los cables y se puede considerar igual a 1.40 para cables de sección mayor a 2.5 mm}^2 \text{ (14 AWG) y de 1.20 mm.}$

$R = \text{Porcentaje de ampliación (30 - 50\%)}$

$Sc = \text{Sumatoria de las áreas de todos los cables en milímetros}$

$Pc = \text{Peso de los cables totales Kg/Mt}$

$P = \text{Carga uniformemente distribuida Kg/Mt}$

Para que el sistema de soportes porta cables cumpla los requerimientos técnicos, se selecciona el espesor de la misma en función a la tabla de capacidad de carga (ver tabla).

## Soporte de Cargas

El sistema de soportes porta cables es una serie continua de unidades asociadas entre sí, formando una estructura rígida para realizar el tendido ordenado de los cables.

La capacidad de carga representa la habilidad de soportar el peso estático de los cables. Es equivalente a la capacidad de carga destructiva, dividida por un factor de seguridad de 1.5.

Existen 3 categorías de carga:  
*There are 3 loading categories:*

A = 74.4 Kg/m (50 lb/ft)  
B = 111.60 Kg/m (75 lb/ft)  
C = 148.80 Kg/m (100 lb/ft)

## Steps:

1. Determine the section that cables shall cover, as well as their weight.
2. Solve Expressions (1) and (2) to get the "minimum tray section necessary" and the "evenly distributed load".

(1). Minimum tray section:

(2) Evenly distributed load:

- (3) Determine the proper tray in virtue of the results (1) and (2) and of the height of the estimated support.

## Where:

$S \text{ mm} = \text{Minimum Section in mm}^2$

$K = \text{Filling coefficient, is the pile-up factor of cables, and it may be considered equal to 1.40 for cables of a section larger than 2.5 mm}^2 \text{ (14 AWG) and of 1.20 mm.}$

$R = \text{Extension percentage (30-50\%)}$

$Sc = \text{Total sum of the areas of all cables in millimeters}$

$Pc = \text{Weight of the total cables Kg/Mt}$

$P = \text{Evenly distributed load Kg/Mt}$

For the cable holding support system to comply with technical requirements, you select its thickness in function of the table of loading capacity (see table).

## Load support

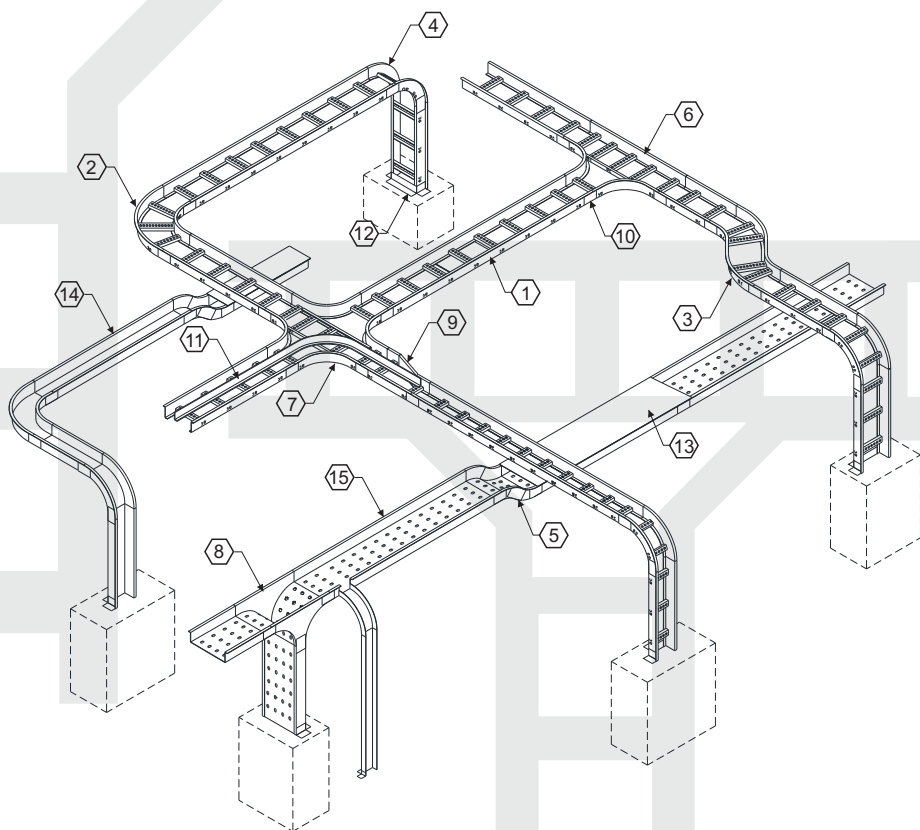
The cable holding support system is a continuous series of units related to each other, which form a rigid structure in order to make the orderly cable laying.

The loading capacity represents the ability to support the static weight of cables. It is equivalent to the capacity of destructive load, divided by a security factor of 1.5.

distancias entre soportes:  
*distances between supports:*

1 = 2.44 m ( 8')  
2 = 3.05 m (10')  
3 = 3.66 m (12')  
4 = 4.87 m (16')  
5 = 6.09 m (20')





1.- CHAROLA TIPO ESCALERA  
CABLE TRAY SYSTEM LADDER TYPE

2.- CURVA HORIZONTAL A 90°  
90° HORIZONTAL BEND

3.- CURVA HORIZONTAL A 45°  
45° HORIZONTAL BEND

4.- CURVA VERTICAL EXTERIOR A 90°  
90° OUTSIDE VERTICAL BEND

5.- CURVA VERTICAL EXTERIOR A 45°  
45° OUTSIDE VERTICAL BEND

6.- TEE HORIZONTAL  
HORIZONTAL TEE

7.- EQUIS HORIZONTAL  
HORIZONTAL CROSS

8.- TEE VERTICAL  
VERTICAL TEE

9.- REDUCCIÓN LATERAL  
LATERAL REDUCERS

10.- CONECTOR  
SPLICE PLATE

11.- SEPARADOR  
DIVIDER STRIP

12.- CONECTOR DE ESCALERA A CAJA  
FRAME TYPE BOX CONNECTOR

13.- TAPA SUPERIOR  
STRAIGHT COVER

14.- CHAROLA FONDO SOLIDO  
Solid Bottom Trough Cable Tray

15.- CHAROLA FONDO SOLIDO PERFORADO  
Ventilated Solid Bottom Cable Tray

CLASIFICACION DE LOS SOPORTES DE ACUERDO A LA NORMA  
classification of media according to the standard

| CAPACIDAD DE CARGA<br>LOADING CAPACITY | CLASIFICACION<br>SORTING | SEPARACION ENTRE APOYOS<br>SEPARATION BETWEEN SUPPORTS (m) | CAPACIDAD DE CARGA<br>CAPACITY LOADING (kg/m) |
|----------------------------------------|--------------------------|------------------------------------------------------------|-----------------------------------------------|
| BAJA<br>LOW                            | 5AA                      | 1.5                                                        | 18.6                                          |
|                                        | 5BB                      | 1.5                                                        | 37.2                                          |
|                                        | 6AA                      | 1.8                                                        | 18.6                                          |
|                                        | 6BB                      | 1.8                                                        | 37.2                                          |
| MEDIA<br>HALF                          | 6A                       | 1.8                                                        | 74.4                                          |
|                                        | 6B                       | 1.8                                                        | 111.6                                         |
|                                        | 6C                       | 1.8                                                        | 148.8                                         |
|                                        | 8A                       | 2.4                                                        | 74.4                                          |
|                                        | 8B                       | 2.4                                                        | 111.6                                         |
|                                        | 8C                       | 2.4                                                        | 148.8                                         |
| ALTA<br>HIGHT                          | 12A                      | 3.6                                                        | 74.4                                          |
|                                        | 12B                      | 3.6                                                        | 111.6                                         |
|                                        | 12C                      | 3.6                                                        | 148.8                                         |
|                                        | 20A                      | 6.1                                                        | 74.4                                          |
|                                        | 20B                      | 6.1                                                        | 111.6                                         |
|                                        | 20C                      | 6.1                                                        | 148.8                                         |

El sistema de Soportería para cables Mca. Tecnotray Se manufactura tomando en cuenta las especificaciones generadas por la normatividad tanto nacional como internacional

*The Mca. Tecnotray Support System for cables it's manufactured taking into account the specifications generated by both national and international regulations.*

- \* NMX-J-511-ANCE-2011
- \* NOM-001-SEDE-2005
- \* IEC 61537
- \* CFE 57000-59 (LAPEM)
- \* NEMA VE-1
- \* UL-568

El servicio que presta esta especificado por norma para conducción de cables y canalizaciones y no como andador o pasillo.

*The service provided is specified by standard for conduction of cables and pipes and not as walker or aisle.*

MATERIAL Y LONGITUD CHAROLA TIPO ESCALERA1  
CABLE TRAY SYSTEM LADDER TYPE

| MATERIAL                                        | PERFIL "Z"<br>(m) | PERFIL "C"<br>(m) | PERFIL "I"<br>(m) |
|-------------------------------------------------|-------------------|-------------------|-------------------|
| ALUMINIO- ALUMINUM                              | 3.66              | 3.66 / 6.10       | 3.66 / 6.10       |
| GALV. POR INMERSION<br>HOT DIP GALVANIZED STEEL | 3.05              | 3.05              |                   |
| ELECTROZINCADO<br>ELECTROGALVANIZED             | 3.05              | 3.05              |                   |
| PREGALVANIZADO<br>PRE GALVANIZED                | 305 / 3.66        | 305 / 3.66        |                   |
| TROPICALIZADO<br>CHROMIUM-ZINC COATED STEEL     | 3.05              | 3.05              |                   |
| INOXIDABLE<br>NATURAL FINISHED STAINLESS STEEL  | 3.05              | 3.05              |                   |



*Aluminum fittings are manufactured in roll form for 3 1/4" and 4" cambers; the fittings in profile "C" and profile "I" are manufactured in mitered sectioned form.*

Los accesorios en aluminio se fabrican de forma rolada para peraltes 3 1/4", 4", los accesorios fabricados en perfil "C" y perfil "I" se manufacturan de forma seccionada.

ALTURA DE LOS SOPORTES PARA CABLES

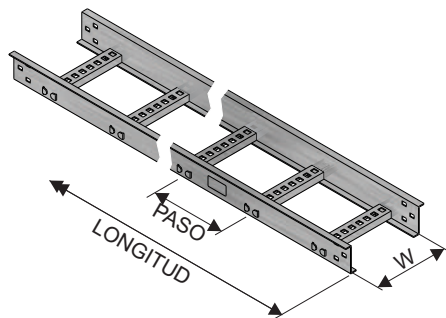
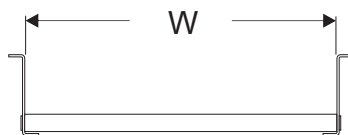


| PERALTE NOMINAL<br>SIDE RAIL HEIGHT | PERALTE UTIL<br>LOADING DEPTH |
|-------------------------------------|-------------------------------|
| mm (pulg)                           | mm (pulg)                     |
| 82.5 (3 1/4")                       | 56.5 (2.224")                 |
| 101.6 (4")                          | 75.6 (2.976")                 |
| 114.3 (4 1/2")                      | 88.3 (3.476")                 |
| 127.0 (5")                          | 101.0 (3.976")                |
| 152.4 (6")                          | 126.4 (4.976")                |



| CÓDIGO<br>CODE | ANCHO<br>WIDTH<br>W | ESPACIAMIENTO - RUNG SPACING |                            |
|----------------|---------------------|------------------------------|----------------------------|
|                |                     | PULGADAS- INCHES             | CENTIMETROS<br>CENTIMETERS |
| TR-0406        | 4"<br>10.16 cm      | 6"                           | 15.24                      |
| TR-0409        |                     | 9"                           | 22.86                      |
| TR-0412        |                     | 12"                          | 30.48                      |
| TR-0418        | 6"<br>15.24 cm      | 18"                          | 45.72                      |
| TR-0606        |                     | 6"                           | 15.24                      |
| TR-0609        |                     | 9"                           | 22.86                      |
| TR-0612        | 9"<br>22.86 cm      | 12"                          | 30.48                      |
| TR-0618        |                     | 18"                          | 45.72                      |
| TR-0906        |                     | 6"                           | 15.24                      |
| TR-0909        | 12"<br>30.48 cm     | 9"                           | 22.86                      |
| TR-0912        |                     | 12"                          | 30.48                      |
| TR-0918        |                     | 18"                          | 45.72                      |
| TR-1206        | 16"<br>40.64 cm     | 6"                           | 15.24                      |
| TR-1209        |                     | 9"                           | 22.86                      |
| TR-1212        |                     | 12"                          | 30.48                      |
| TR-1218        | 18"<br>45.72 cm     | 18"                          | 45.72                      |
| TR-1606        |                     | 6"                           | 15.24                      |
| TR-1609        |                     | 9"                           | 22.86                      |
| TR-1612        | 20"<br>50.80 cm     | 12"                          | 30.48                      |
| TR-1618        |                     | 18"                          | 45.72                      |
| TR-1806        |                     | 6"                           | 15.24                      |
| TR-1809        | 24"<br>60.96 cm     | 9"                           | 22.86                      |
| TR-1812        |                     | 12"                          | 30.48                      |
| TR-1818        |                     | 18"                          | 45.72                      |
| TR-2006        | 30"<br>76.20 cm     | 6"                           | 15.24                      |
| TR-2009        |                     | 9"                           | 22.86                      |
| TR-2012        |                     | 12"                          | 30.48                      |
| TR-2018        | 36"<br>91.44 cm     | 18"                          | 45.72                      |
| TR-2406        |                     | 6"                           | 15.24                      |
| TR-2409        |                     | 9"                           | 22.86                      |
| TR-2412        |                     | 12"                          | 30.48                      |
| TR-2418        |                     | 18"                          | 45.72                      |
| TR-3006        |                     | 6"                           | 15.24                      |
| TR-3009        |                     | 9"                           | 22.86                      |
| TR-3012        |                     | 12"                          | 30.48                      |
| TR-3018        |                     | 18"                          | 45.72                      |
| TR-3606        |                     | 6"                           | 15.24                      |
| TR-3609        |                     | 9"                           | 22.86                      |
| TR-3612        |                     | 12"                          | 30.48                      |
| TR-3618        |                     | 18"                          | 45.72                      |

## CHAROLA TIPO ESCALERA CABLE TRAY SYSTEM LADDER TYPE 8A - 8C / 12A - 12C / 20C



Al final de cada clave indicar su peralte y clasificación

- \* Peralte 3 1/4", 4", 4 1/2", 5" y 6"
- \* Perfil tipo Z, C, I
- \* Materiales: Aluminio, Acero, Lámina Galvanizada, Acero Inoxidable 304, 316 y 316L.
- \* Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado
- \* (Incluye conectores y tornillería)

- \* Height: 3 1/4", 4", 4 1/2", 5" y 6"
- \* Side Rail Type: Z, C, I
- \* Materials: Aluminum, Steel, Galvanized sheet, Stainless steel 304, 316 y 316L
- \* Finished: Electrogalvanized steel, Hot dip galvanized steel, Chromium zinc coated steel
- \* (Connectors and hardware included)

| CÓDIGO<br>CODE | RADIO           | ANCHO-WIDTH    |                          |
|----------------|-----------------|----------------|--------------------------|
|                |                 | PULGADAS- INCH | CENTIMETROS- CENTIMETERS |
| CH-0408        | 8"<br>20.32 cm  | 4"             | 10.16                    |
| CH-0608        |                 | 6"             | 15.24                    |
| CH-0908        |                 | 9"             | 22.86                    |
| CH-1208        |                 | 12"            | 30.48                    |
| CH-1608        |                 | 16"            | 40.64                    |
| CH-1808        |                 | 18"            | 45.72                    |
| CH-2008        |                 | 20"            | 50.8                     |
| CH-2408        |                 | 24"            | 60.96                    |
| CH-3008        |                 | 30"            | 76.2                     |
| CH-3608        |                 | 36"            | 91.44                    |
| CH-0412        | 12"<br>30.48 cm | 4"             | 10.16                    |
| CH-0612        |                 | 6"             | 15.24                    |
| CH-0912        |                 | 9"             | 22.86                    |
| CH-1212        |                 | 12"            | 30.48                    |
| CH-1612        |                 | 16"            | 40.64                    |
| CH-1812        |                 | 18"            | 45.72                    |
| CH-2012        |                 | 20"            | 50.8                     |
| CH-2412        |                 | 24"            | 60.96                    |
| CH-3012        |                 | 30"            | 76.2                     |
| CH-3612        |                 | 36"            | 91.44                    |
| CH-0424        | 24"<br>60.96 cm | 4"             | 10.16                    |
| CH-0624        |                 | 6"             | 15.24                    |
| CH-0924        |                 | 9"             | 22.86                    |
| CH-1224        |                 | 12"            | 30.48                    |
| CH-1624        |                 | 16"            | 40.64                    |
| CH-1824        |                 | 18"            | 45.72                    |
| CH-2024        |                 | 20"            | 50.8                     |
| CH-2424        |                 | 24"            | 60.96                    |
| CH-3024        |                 | 30"            | 76.2                     |
| CH-3624        |                 | 36"            | 91.44                    |
| CH-0430        | 30"<br>76.20 cm | 4"             | 10.16                    |
| CH-0630        |                 | 6"             | 15.24                    |
| CH-0930        |                 | 9"             | 22.86                    |
| CH-1230        |                 | 12"            | 30.48                    |
| CH-1630        |                 | 16"            | 40.64                    |
| CH-1830        |                 | 18"            | 45.72                    |
| CH-2030        |                 | 20"            | 50.8                     |
| CH-2430        |                 | 24"            | 60.96                    |
| CH-3030        |                 | 30"            | 76.2                     |
| CH-3630        |                 | 36"            | 91.44                    |
| CH-0436        | 36"<br>91.44 cm | 4"             | 10.16                    |
| CH-0636        |                 | 6"             | 15.24                    |
| CH-0936        |                 | 9"             | 22.86                    |
| CH-1236        |                 | 12"            | 30.48                    |
| CH-1636        |                 | 16"            | 40.64                    |
| CH-1836        |                 | 18"            | 45.72                    |
| CH-2036        |                 | 20"            | 50.8                     |
| CH-2436        |                 | 24"            | 60.96                    |
| CH-3036        |                 | 30"            | 76.2                     |
| CH-3636        |                 | 36"            | 91.44                    |

## CURVA HORIZONTAL 45° / 90° HORIZONTAL BEND 45° / 90°



- \* Peralte de 3 1/4", 4", 4 1/2", 5" y 6"
- \* Perfil tipo Z, C, I
- \* Materiales: Aluminio, Acero, Lámina Galvanizada, Acero Inoxidable 304, 316 y 316L
- \* Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado
- \* Incluye conectores y tornillería
- \* Height: 3 1/4", 4", 4 1/2", 5" y 6"
- \* Side Rail Type: Z, C, I
- \* Materials: Aluminum, Steel, Galvanized Steel, Stainless steel 304, 316 y 316L
- \* Finished: Electrogalvanized steel, Hot dip galvanized steel, Chromium zinc coated steel
- \* (Connectors and hardware included)

Al final de cada clave indicar los grados y peralte

## CURVA VERTICAL INTERIOR Y EXTERIOR 45° / 90° VERTICAL OUTSIDE & INSIDE BEND



| CÓDIGO- CODE             | CLAVE- CODE               | RADIO           | ANCHO- WIDTH     |                          |
|--------------------------|---------------------------|-----------------|------------------|--------------------------|
| VERTICAL EXTERIOR- OUTER | VERTICAL INTERIOR- INSIDE |                 | PULGADAS- INCHES | CENTIMETROS- CENTIMETERS |
| VE-0408                  | VI-0408                   | 8"<br>20.32 cm  | 4"               | 10.16                    |
| VE-0608                  | VI-0608                   |                 | 6"               | 15.24                    |
| VE-0908                  | VI-0908                   |                 | 9"               | 22.86                    |
| VE-1208                  | VI-1208                   |                 | 12"              | 30.48                    |
| VE-1608                  | VI-1608                   |                 | 16"              | 40.64                    |
| VE-1808                  | VI-1808                   |                 | 18"              | 45.72                    |
| VE-2008                  | VI-2008                   |                 | 20"              | 50.8                     |
| VE-2408                  | VI-2408                   |                 | 24"              | 60.96                    |
| VE-3008                  | VI-3008                   |                 | 30"              | 76.2                     |
| VE-3608                  | VI-3608                   |                 | 36"              | 91.44                    |
| VE-0412                  | VI-0412                   | 12"<br>30.48 cm | 4"               | 10.16                    |
| VE-0612                  | VI-0612                   |                 | 6"               | 15.24                    |
| VE-0912                  | VI-0912                   |                 | 9"               | 22.86                    |
| VE-1212                  | VI-1212                   |                 | 12"              | 30.48                    |
| VE-1612                  | VI-1612                   |                 | 16"              | 40.64                    |
| VE-1812                  | VI-1812                   |                 | 18"              | 45.72                    |
| VE-2012                  | VI-2012                   |                 | 20"              | 50.8                     |
| VE-2412                  | VI-2412                   |                 | 24"              | 60.96                    |
| VE-3012                  | VI-3012                   |                 | 30"              | 76.2                     |
| VE-3612                  | VI-3612                   |                 | 36"              | 91.44                    |
| VE-0424                  | VI-0424                   | 24"<br>60.96 cm | 4"               | 10.16                    |
| VE-0624                  | VI-0624                   |                 | 6"               | 15.24                    |
| VE-0924                  | VI-0924                   |                 | 9"               | 22.86                    |
| VE-1224                  | VI-1224                   |                 | 12"              | 30.48                    |
| VE-1624                  | VI-1624                   |                 | 16"              | 40.64                    |
| VE-1824                  | VI-1824                   |                 | 18"              | 45.72                    |
| VE-2024                  | VI-2024                   |                 | 20"              | 50.8                     |
| VE-2424                  | VI-2424                   |                 | 24"              | 60.96                    |
| VE-3024                  | VI-3024                   |                 | 30"              | 76.2                     |
| VE-3624                  | VI-3624                   |                 | 36"              | 91.44                    |
| VE-0430                  | VI-0430                   | 30"<br>76.20 cm | 4"               | 10.16                    |
| VE-0630                  | VI-0630                   |                 | 6"               | 15.24                    |
| VE-0930                  | VI-0930                   |                 | 9"               | 22.86                    |
| VE-1230                  | VI-1230                   |                 | 12"              | 30.48                    |
| VE-1630                  | VI-1630                   |                 | 16"              | 40.64                    |
| VE-1830                  | VI-1830                   |                 | 18"              | 45.72                    |
| VE-2030                  | VI-2030                   |                 | 20"              | 50.8                     |
| VE-2430                  | VI-2430                   |                 | 24"              | 60.96                    |
| VE-3030                  | VI-3030                   |                 | 30"              | 76.2                     |
| VE-3630                  | VI-3630                   |                 | 36"              | 91.44                    |
| VE-0436                  | VI-0436                   | 36"<br>91.44 cm | 4"               | 10.16                    |
| VE-0636                  | VI-0636                   |                 | 6"               | 15.24                    |
| VE-0936                  | VI-0936                   |                 | 9"               | 22.86                    |
| VE-1236                  | VI-1236                   |                 | 12"              | 30.48                    |
| VE-1636                  | VI-1636                   |                 | 16"              | 40.64                    |
| VE-1836                  | VI-1836                   |                 | 18"              | 45.72                    |
| VE-2036                  | VI-2036                   |                 | 20"              | 50.8                     |
| VE-2436                  | VI-2436                   |                 | 24"              | 60.96                    |
| VE-3036                  | VI-3036                   |                 | 30"              | 76.2                     |
| VE-3636                  | VI-3636                   |                 | 36"              | 91.44                    |

- \* Peralte de 3 1/4", 4", 4 1/2", 5" y 6"
- \* Perfil tipo Z, C, I
- \* Materiales: Aluminio, Acero, Lámina Galvanizada, Acero Inoxidable 304, 316 y 316L
- \* Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado
- \* Incluye conectores y tornillería

- \* Height: 3 1/4", 4", 4 1/2", 5" y 6"
- \* Side Rail Type: Z, C, I
- \* Materials: Aluminum, Steel, Galvanized Steel, Stainless steel 304, 316 y 316L
- \* Finished: Electrogalvanized steel, Hot dip galvanized steel, Chromium zinc coated steel
- \* (Connectors and hardware included)

Al final de cada clave indicar los grados y peralte

## “T” HORIZONTAL Y “T” VERTICAL



“T” Horizontal

Código - TH-Ancho-Radio

Code

TH- Width-radio

| ANCHOS<br>LATERALES<br>WIDTH SIDE | ANCHO CENTRAL<br>WIDTH CENTRAL                | RADIO                          |
|-----------------------------------|-----------------------------------------------|--------------------------------|
| 4"                                | 4"                                            | 8"<br>12"<br>24"<br>30"<br>36" |
| 6"                                | 4", 6"                                        |                                |
| 9"                                | 4", 6", 9"                                    |                                |
| 12"                               | 4", 6", 9", 12"                               |                                |
| 16"                               | 4", 6", 9", 12", 16"                          |                                |
| 18"                               | 4", 6", 9", 12", 16", 18"                     |                                |
| 20"                               | 4", 6", 9", 12", 16", 18", 20"                |                                |
| 24"                               | 4", 6", 9", 12", 16", 18", 20", 24"           |                                |
| 30"                               | 4", 6", 9", 12", 16", 18", 20", 24", 30"      | 36"                            |
| 36"                               | 4", 6", 9", 12", 16", 18", 20", 24", 30", 36" |                                |

“T” Vertical

\*Especificar su peralte

| CÓDIGO- CODE | RADIO          | ANCHO            |                          |
|--------------|----------------|------------------|--------------------------|
|              |                | PULGADAS- INCHES | CENTIMETROS- CENTIMETERS |
| TV-0408      | 8"<br>20.32cm  | 4"               | 10.16                    |
| TV-0608      |                | 6"               | 15.24                    |
| TV-0908      |                | 9"               | 22.86                    |
| TV-1208      |                | 12"              | 30.48                    |
| TV-1608      |                | 16"              | 40.64                    |
| TV-1808      |                | 18"              | 45.72                    |
| TV-2008      |                | 20"              | 50.8                     |
| TV-2408      |                | 24"              | 60.96                    |
| TV-3008      | 12"<br>30.48cm | 30"              | 76.2                     |
| TV-3608      |                | 36"              | 91.44                    |
| TV-0412      |                | 4"               | 10.16                    |
| TV-0612      |                | 6"               | 15.24                    |
| TV-0912      |                | 9"               | 22.86                    |
| TV-1212      |                | 12"              | 30.48                    |
| TV-1612      |                | 16"              | 40.64                    |
| TV-1812      |                | 18"              | 45.72                    |
| TV-2012      | 24"<br>60.96cm | 20"              | 50.8                     |
| TV-2412      |                | 24"              | 60.96                    |
| TV-3012      |                | 30"              | 76.2                     |
| TV-3612      |                | 36"              | 91.44                    |
| TV-0424      |                | 4"               | 10.16                    |
| TV-0624      |                | 6"               | 15.24                    |
| TV-0924      |                | 9"               | 22.86                    |
| TV-1224      |                | 12"              | 30.48                    |
| TV-1624      | 30"<br>76.20cm | 16"              | 40.64                    |
| TV-1824      |                | 18"              | 45.72                    |
| TV-2024      |                | 20"              | 50.8                     |
| TV-2424      |                | 24"              | 60.96                    |
| TV-3024      |                | 30"              | 76.2                     |
| TV-3624      |                | 36"              | 91.44                    |
| TV-0430      | 36"<br>91.44cm | 4"               | 10.16                    |
| TV-0630      |                | 6"               | 15.24                    |
| TV-0930      |                | 9"               | 22.86                    |
| TV-1230      |                | 12"              | 30.48                    |
| TV-1630      |                | 16"              | 40.64                    |
| TV-1830      |                | 18"              | 45.72                    |
| TV-2030      |                | 20"              | 50.8                     |
| TV-2430      |                | 24"              | 60.96                    |
| TV-3030      |                | 30"              | 76.2                     |
| TV-3630      |                | 36"              | 91.44                    |
| TV-0436      |                | 4"               | 10.16                    |
| TV-0636      |                | 6"               | 15.24                    |
| TV-0936      |                | 9"               | 22.86                    |
| TV-1236      |                | 12"              | 30.48                    |
| TV-1636      |                | 16"              | 40.64                    |
| TV-1836      |                | 18"              | 45.72                    |
| TV-2036      |                | 20"              | 50.8                     |
| TV-2436      |                | 24"              | 60.96                    |
| TV-3036      |                | 30"              | 76.2                     |
| TV-3636      |                | 36"              | 91.44                    |



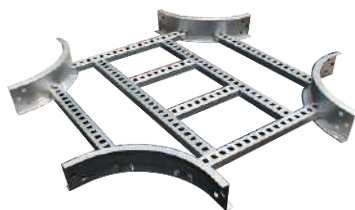
“T” Vertical

- \* Peralte de 3 1/4", 4", 4 1/2", 5" y 6"
- \* Perfil tipo Z, C, I
- \* Materiales: Aluminio, Lámina Galvanizada, Acero Inoxidable 304, 316 y 316L
- \* Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado
- \* Incluye conectores y tornillería
- \* Height:: 3 1/4", 4", 4 1/2", 5" y 6"
- \* Side Rail Type: Z, C, I
- \* Materials: Aluminum, Steel, Galvanized Steel, Stainless steel 304, 316 y 316L
- \* Finished: Electrogalvanized steel, Hot dip galvanized steel, Chromium zinc coated steel
- \* (Connectors and hardware)

Al final de cada clave indicar su peralte

## "X" HORIZONTAL

Código XH- Code XH



### REDUCCIONES REDUCERS

#### REDUCCIÓN RECTA

#### STRAIGHT REDUCERS

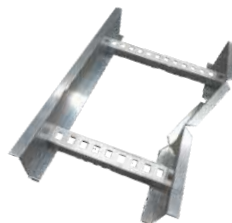
Código RR- Code RR



#### REDUCCIÓN LATERAL IZQUIERDA

#### LEFT REDUCERS

Código- Code RLI



| ANCHOS<br>LATERALES | ANCHO CENTRAL                        | RADIO                          |
|---------------------|--------------------------------------|--------------------------------|
| 4"                  | 4"                                   | 8"<br>12"<br>24"<br>30"<br>36" |
| 6"                  | 4",6"                                |                                |
| 9"                  | 4",6",9"                             |                                |
| 12"                 | 4",6",9",12"                         |                                |
| 16"                 | 4",6",9",12",16"                     |                                |
| 18"                 | 4",6",9",12",16",18"                 |                                |
| 20"                 | 4",6",9",12",16",18",20"             |                                |
| 24"                 | 4",6",9",12",16",18",20",24"         |                                |
| 30"                 | 4",6",9",12",16",18",20",24",30"     |                                |
| 36"                 | 4",6",9",12",16",18",20",24",30",36" |                                |

| ANCHO | ANCHO EXTREMO                    |
|-------|----------------------------------|
| 6"    | 4"                               |
| 9"    | 4",6"                            |
| 12"   | 4",6",9"                         |
| 16"   | 4",6",9",12"                     |
| 18"   | 4",6",9",12",16"                 |
| 20"   | 4",6",9",12",16",18"             |
| 24"   | 4",6",9",12",16",18",20"         |
| 30"   | 4",6",9",12",16",18",20",24"     |
| 36"   | 4",6",9",12",16",18",20",24",30" |

\*Especificar si es izq. (I) o der. (D)

#### REDUCCIÓN LATERAL DERECHA RLD

#### RIGHT REDUCERS

Al final de cada clave especificar su peralte

## SEPARADOR TRAMO RECTO STRAIGHT DIVIDER STRIP

### Código- Code ST

- \* Peralte de 3 1/4", 4", 4 1/2", 5" y 6"
- \* Materiales: Aluminio, Acero, Acero Inoxidable 304, 316 y 316L
- \* Acabado: Galvanizado Tropicalizado, Lámina Galvanizada
- \* Longitud de 1.22m, 1.50 ó 3.00m
- \* Height: 3 1/4", 4", 4 1/2", 5" y 6"
- \* Materials: Aluminum, Steel, Stainless steel 304, 316 y 316L
- \* Finished: Chromium zinc coated steel, Galvanized Steel.
- \* Longitud de 1.22m, 1.50 ó 3.00m



## JUNTA DE EXPANSIÓN JOINT EXPANSION

### Código JE- Code JE

- \* Peralte de 3 1/4", 4", 4 1/2", 5" y 6"
- \* Perfil tipo Z,C,I
- \* Materiales: Aluminio, Acero, Acero Inoxidable 304, 316 y 316L
- \* Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado
- \* Side rail height: 3 1/4", 4", 4 1/2", 5" y 6"
- \* Side Rail Type: Z,C,I
- \* Materials: Aluminum, Steel, Stainless steel 304, 316 y 316L
- \* Finished: Finished: Electrogalvanized steel, Hot dip galvanized steel, Chromium zinc coated steel



#### ANCHO - WIDTH

4"

6"

9"

12"

16"

18"

20"

24"

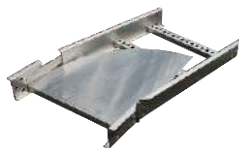
30"

36"

## CURVA AJUSTABLE ADJUSTABLE BEND

### Código CA- Code CA

- \* Peralte de 3 1/4", 4", 4 1/2", 5" y 6"
- \* Perfil tipo Z,C
- \* Materiales: Aluminio, Acero, Acero Inoxidable 304, 316 y 316L
- \* Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado
- \* Incluye conectores y tornillería
- \* Height: 3 1/4", 4", 4 1/2", 5" y 6"
- \* Rail type: Z,C
- \* Materials: Aluminum, Steel, Stainless steel 304, 316 y 316L
- \* Finished: Electrogalvanized steel, Hot dip galvanized steel, Chromium zinc coated steel.
- \* (Connectors and hardware included)



#### ANCHO - WIDTH

4"

6"

9"

12"

16"

18"

20"

24"

30"

36"

\*Especificar su peralte en cualquiera de estos productos



**TRAMO RECTO CHAROLA FONDO SÓLIDO LISO Y FONDO SÓLIDO PERFORADO**  
**PERFORATED & SOLID BOTTOM CABLE TRAY**

| ANCHO - WIDTH<br>(W) | LISO<br>SOLID | PERFORADO<br>PERFORATED |
|----------------------|---------------|-------------------------|
| 101.6 (4")           | TR-04-FSL     | TR-04-FSP               |
| 152.4 (6")           | TR-06-FSL     | TR-06-FSP               |
| 228.6 (9")           | TR-09-FSL     | TR-09-FSP               |
| 304.8 (12")          | TR-12-FSL     | TR-12-FSP               |
| 406.4 (16")          | TR-16-FSL     | TR-16-FSP               |
| 457.2 (18")          | TR-18-FSL     | TR-18-FSP               |
| 508.0 (20")          | TR-20-FSL     | TR-20-FSP               |
| 609.6 (24")          | TR-24-FSL     | TR-24-FSP               |
| 762.0 (30")          | TR-30-FSL     | TR-30-FSP               |
| 914.4 (36")          | TR-36-FSL     | TR-36-FSP               |

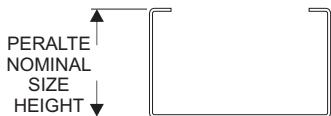


**Favor de agregar al final de cada clave la asignatura "FS"**

**Please add at the end of each key subject "FS"**



**TIPO "Z"**



**TIPO "C"**



**Favor de agregar al final de cada clave la asignatura "FSP"**

**Please add at the end of each key subject "FSP"**

La fabricación de accesorios en forma tipo "c" es de manera seccionada

The manufacture of accessories in the form type "c" is sectioned way

- \* En fondo sólido, también se fabrican los cambios de dirección, curvas horizontales, curvas verticales, Tee horizontal, Tee vertical, "X" horizontal y reducciones.
- \* Peralte: 31/4", 4", 4 1/2", 5" y 6"
- \* Materiales: Aluminio, Lámina Galvanizada, Acero inoxidable 304, 316 y 316L
- \* Incluye conectores y tornillería
- \* Longitud 3.05 m

- \* In Solid bottom type are also made changes of direction, horizontal curves, vertical curves, horizontal Tee, vertical Tee, "X" horizontal and reducers
- \* Size: 31/4", 4", 4 1/2", 5" y 6"
- \* Materials: Aluminum, Aluminum, Steel, Stainless steel 304, 316 y 316L
- \* (Connectors and hardware included)
- \* Longitud 3.05 m

## CONECTORES DE ALUMINIO ALUMINUM SPLICE PLATE



**CZ-01**  
**CONECTOR ZETA**  
**FORM "Z" SPLICE PLATE**



**CR-01**  
**CONECTOR RECTO**  
**STRAIGHT SPLICE PLATE**



**EA-01**  
**ELEVADOR AJUSTABLE**  
**ADJUSTABLE CONNECTOR**



**CEXP**  
**CONECTOR DE EXPANSION**  
**EXPANSION CONNECTOR**

- \* Peralte de 3 1/4", 4", 4 1/2", 5" y 6"
- \* el "CZ" y "CR", se subministra como juego de 2 pz e incluye tornilleria
- \* Materiales: Aluminio, Acero, Lámina Galvanizada, Acero Inoxidable 304, 316 y 316L
- \* Acabado: Lam. Pregalvanizada, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado
- \* Incluye conectores y tornilleria

- \* Height: 3 1/4", 4", 4 1/2", 5" y 6"
- \* I "CZ" & "CR", It subminister as game two pz & It includes Hardware
- \* Materials: Aluminum, Steel, Galvanized Steel, Stainless steel 304,316 y 316L
- \* Finished: Electrogalvanized steel,Hot dip galvanized steel, Chromium zinc coated steel.
- \* (Connectors and hardware included)

## CONECTOR DE ESCALERA A CAJA FRAME TYPE BOX CONNECTOR



**Código CE**  
**CODE CE**

- \* Peralte de 3 1/4", 4", 4 1/2", 5" y 6"
- \* Materiales: Aluminio, Acero, Lámina Galvanizada, Acero Inoxidable 304, 316 y 316L
- \* Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado
- \* Incluye tornilleria
- \* Height: 3 1/4", 4", 4 1/2", 5" y 6"
- \* Materials: Aluminum, Steel, Galvanized Steel, Stainless steel 304, 316 y 316L
- \* Finished: Electrogalvanized steel,Hot dip galvanized steel, Chromium zinc coated steel.
- \* (Connectors and hardware included)

### ANCHO - WIDTH

4"

6"

9"

12"

16"

18"

20"

24"

30"

36"

Al final de cada clave indicar su peralte

## BAJADA PARA CABLE / DROP-OUT

| ANCHO-WIDTH | RADIO                                 |
|-------------|---------------------------------------|
| 4"          | 1.90 cm/3/4"<br>5 cm/2"<br>12.7 cm/5" |
| 6"          |                                       |
| 9"          |                                       |
| 12"         |                                       |
| 16"         |                                       |
| 18"         |                                       |
| 20"         |                                       |
| 24"         |                                       |
| 30"         |                                       |
| 36"         |                                       |

- \* Materiales: Aluminio, Acero, Lámina Galvanizada, Acero inoxidable 304, 316 y 316L
- \* Acabado: Galvanizado Tropicalizado.
- \* Materiales: Aluminum, Steel, Galvanized Steel, Stainless steel 304, 316 y 316L
- \* Finished: Electrogalvanized steel, Hot dip galvanized steel, Chromium zinc coated steel.



**Código- CODE BC**

\*Especificar radio

## PLACA CIERRE / BLIND END

| ANCHO-WIDTH |
|-------------|
| 4"          |
| 6"          |
| 9"          |
| 12"         |
| 16"         |
| 18"         |
| 20"         |
| 24"         |
| 30"         |
| 36"         |

- \* Peralte de 31/4", 4", 41/2", 5" y 6"
- \* Materiales: Aluminio, Acero, Lámina Galvanizada, Acero inoxidable 304, 316 y 316L
- \* Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado
- \* Incluye tornillería
- \* Height: 31/4", 4", 41/2", 5" y 6"
- \* Materials: Aluminium, Steel, Galvanized Steel, Stainless steel 304, 316 y 316L
- \* Finished: Electrogalvanized steel, Hot dip galvanized steel, Chromium zinc coated steel.
- \* (Connectors and hardware included)



**Código- CODE PC**

\*Especificar peralte

## TAPA LISA PARA CHAROLA Y A DOS AGUAS SOLIO & PEAKED COVERS



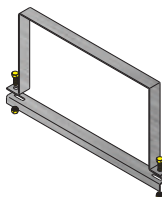
**Código T  
CODE T**

- \* Las tapas incluyen clips con tornillo para fijación
- \* Longitud para tapas para charola tipo escalera de 1.22 m
- \* Longitud para tapas para charola fondo sólido de 1.52 m
- \* Fabricado en aluminio, acero inoxidable (acabado natural) y en lámina galvanizada.
- \* La charola a dos aguas disponible únicamente para tramos rectos.



**Código 2A  
CODE 2A**

- \* Covers clanes and hadware are included
- \* Materials: aluminum, stainless steel & galvanized steel
- \* Length: 1.22 mts fadder tray
- \* Length: 1.52 mts for solid bottom cable tray



## ABRAZADERA P/TAPA HEAVY DUTY COVER CLAMP

| CAT | WIDTH |
|-----|-------|
| ART | 4"    |
|     | 6"    |
|     | 9"    |
|     | 12"   |
|     | 16"   |
|     | 18"   |
|     | 20"   |
|     | 24"   |
|     | 30"   |
|     | 36"   |

La tapa se surte con clips, y la abrazadera reforzada para tapa se vende por separado

También se fabrican los cambios de dirección, curvas horizontales, curvas verticales, Tee horizontal, Tee vertical, "X" horizontal y reducciones. Favor de agregar al final de cada clave la asignatura "-T"

Ancho de  
escalera  
width staircase

4"

6"

9"

12"

16"

18"

20"

24"

30"

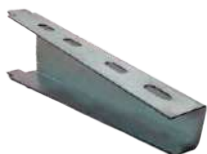
36"



## MÉNSULA DE PARED WALL CANTILEVER BRACKET

**Código MP**  
**CODE MP**

## MÉNSULA DE INSERCIÓN CANTILEVER INSERTION



**Código M**  
**CODE M**

| CLAVE DE CATALOGO<br>CODE CATALOG | ANCHO DE ESCALERA<br>WIDTH STAIRCASE |
|-----------------------------------|--------------------------------------|
| M-04                              | 4"                                   |
| M-06                              | 6"                                   |
| M-09                              | 9"                                   |
| M-12                              | 12"                                  |
| M-16                              | 16"                                  |
| M-18                              | 18"                                  |
| M-20                              | 20"                                  |
| M-24                              | 24"                                  |
| M-30                              | 30"                                  |
| M-36                              | 36"                                  |

## CLEMA CLAMP



**Código C**  
**CODE C**

**RANURA PARA  
TORNILLO  
SCREW SLOT**

**3/8" X 1**

**1/2" X 1**

- \* Materiales: Lámina de placa de Acero, Acero Inoxidable 304, 316 y 316L.
- \* Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado.

- \* Materials: Aluminium, Steel, Galvanized Steel, Stainless steel 304, 316 y 316L
- \* Finished: Electrogalvanized steel, Hot dip galvanized steel, Chromium zinc coated steel.
- \*

## CANAL HORIZONTAL PARA USO CON VARILLA HORIZONTAL CHANNEL FOR TRAPEZOID SUPPORT

- \* Materiales: Lámina de placa de Acero, Acero Inoxidable 304, 316 y 316L
- \* Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado.
- \* Materials: Steel, Stainless steel 304, 316 y 316L
- \* Finished: Electrogalvanized steel, Hot dip galvanized steel, Chromium zinc coated steel.



**Código CS**  
**CODE CS**



## CLIP "U"- FORM "U" CLAMP Código CU - CODE CU

| DIÁMETRO VARILLA<br>DIAMETER ROD<br>(D) |
|-----------------------------------------|
| 3/8"                                    |
| 1/2"                                    |



## VARILLA ROSCADA THREADED ROD



- \* Materials: Steel, Stainless steel 304
- \* Finished: Electrogalvanized steel, Hot dip galvanized steel, Chromium zinc coated steel.

- \* Materiales: Acero, Acero Inoxidable-304
- \* Acabado: Galvanizado Electrolítico, Galvanizado Tropicalizado

| CÓDIGO-CODE | DIÁMETRO<br>DIAMETER | LONGITUD              |
|-------------|----------------------|-----------------------|
| VR-250      | 1/4"                 | 1.00 m<br>y<br>3.00 m |
| VR-312      | 5/16"                |                       |
| VR-375      | 3/8"                 |                       |
| VR-500      | 1/2"                 |                       |

## CINTA CONDUCTORA /BONDING JUMPER



| CÓDIGO-CODE | DESCRIPCION                        | LONGITUD |
|-------------|------------------------------------|----------|
| CC-600A     | CINTA CONDUCTORA<br>DE 600 AMPERES | 30cm     |

## CLIP ANGULAR ANGULAR CLAMP



| BARRENO PARA TORNILLO | CÓDIGO<br>CODE |
|-----------------------|----------------|
| Screw hole            |                |
| pulg                  |                |
| 3/8"                  | CA-D           |
| 1/2"                  |                |

| BARRENO PARA TORNILLO | CÓDIGO<br>CODE |
|-----------------------|----------------|
| Screw hole            |                |
| pulg                  |                |
| 3/8"                  | CA-S           |
| 1/2"                  |                |

| ANCHO DE<br>ESCALERA<br>STAIR WIDTH |
|-------------------------------------|
| 4"                                  |
| 6"                                  |
| 9"                                  |
| 12"                                 |
| 16"                                 |
| 18"                                 |
| 20"                                 |
| 24"                                 |
| 30"                                 |
| 36"                                 |

## TRAVESAÑO HORIZONTAL HORIZONTAL RUNG

Para uso con canal  
For use with channel



Código- CODE TA

## CANAL VERTICAL VERTICAL CHANNEL

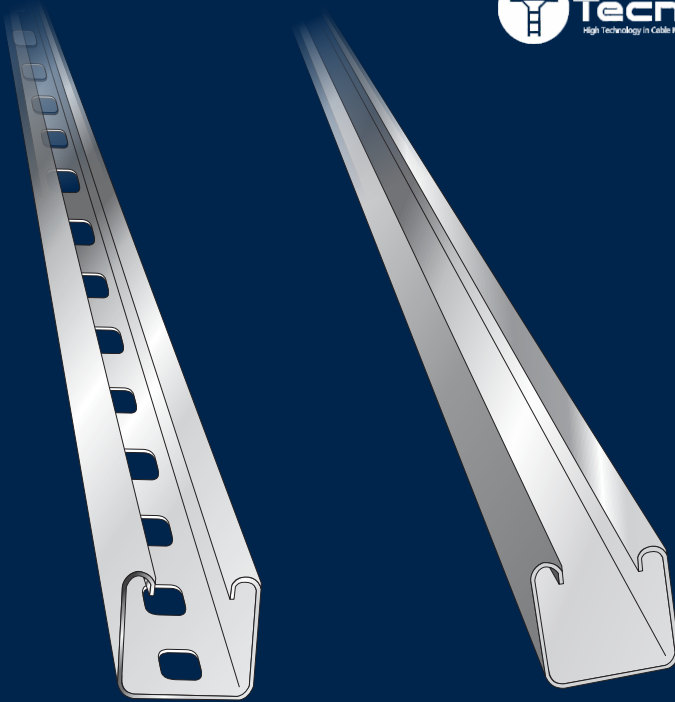


CODE - Code

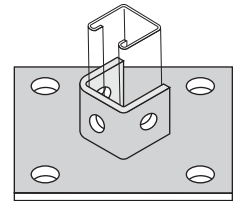
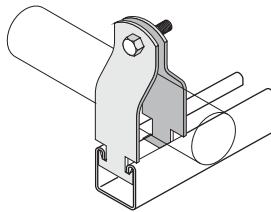
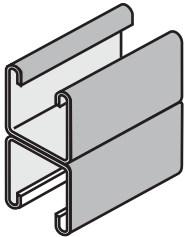
CV-01 Poco Profundo- little deep

CV-02 Profundo- deep

- \* Materiales: Lámina de placa de Acero, Acero Inoxidable 304, 316 y 316L
- \* Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado.
- \* Longitud 3.05 m
- \* Materials: Steel, Stainless steel 304
- \* Finished: Electrogalvanized steel, Hot dip galvanized steel, Chromium zinc coated steel.
- \* Length: 3.05 m



CORTE  
DE SUAJE

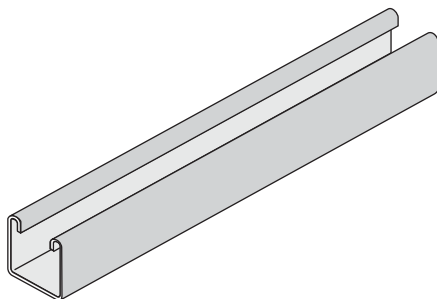


# UNICANAL

## CHANNEL UNISTRUT



## UNICANAL LISO 4X2 Y 4X4 CHANNEL STRUT 4X2 & 4X4



### UNICANAL LISO 4X2

|               |        |
|---------------|--------|
| CÓDIGO- CODE: | UL-2   |
| ANCHO- WIDTH: | 4 cm   |
| LARGO-LONG:   | 3.05 m |

### UNICANAL LISO 4X4

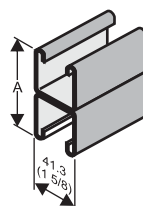
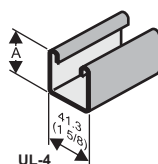
|              |      |
|--------------|------|
| CÓDIGO-CODE: | UL-4 |
| ANCHO-WIDTH: | 4 cm |

- ⊕ Materiales: Aluminio, Acero, Lámina Galvanizada, Acero inoxidable 304, 316 y 316L.
- ⊕ Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado.
- ⊕ Calibre 12,14,16 y 18
- ⊕ Materials: Aluminum, Steel, Galvanized sheet, Stainless steel 304, 316 y 316L.
- ⊕ Finishes: Electrolytic galvanized, hot-dip galvanized, Chromium zinc coated steel.
- ⊕ Caliber: 12,14,16 y 18

- ⊕ Unicanal de 4x4 y sus combinaciones
- ⊕ Longitud: 1.00m, 2.00m y 3.05m

- ⊕ Unistrut: 4x4 & combinations
- ⊕ Length: 1.00m, 2.00m y 3.05m

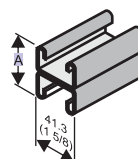
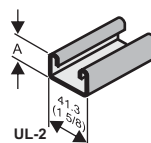
| CÓDIGO<br>CODE | PROFUNDIDAD<br>DEPTH<br>mm (in) |
|----------------|---------------------------------|
| UL-4           | 41.3 (1.625)                    |
| UL-4-D         | 82.6 (3.250)                    |



- ⊕ Unicanal de 4x2 y sus combinaciones

- ⊕ Unistrut: 4x2 & combinations
- ⊕ Length: 1.00m, 2.00m y 3.05m

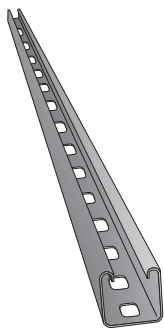
| CÓDIGO<br>CODE | PROFUNDIDAD<br>DEPTH<br>mm (pulg) |
|----------------|-----------------------------------|
| UL-2           | 20.6 (0.812)                      |
| UL-2-D         | 41.3 (1.625)                      |



## UNICANAL PERFORADO 4X2 Y 4X4 ROUND HOLE STRUT 4X2 & 4X4

- ⊕ Materiales: Aluminio, Acero, Lámina Galvanizada, Acero Inoxidable 304, 316 y 316L.
- ⊕ Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado.
- ⊕ Calibre 12,14,16 y 18

- ⊕ Materials: Aluminum, Steel, Galvanized sheet, Stainless steel 304, 316 y 316L.
- ⊕ Finishes: Electrolytic galvanized, hot-dip galvanized, Chromium zinc coated steel.
- ⊕ Caliber 12,14,16 y 18

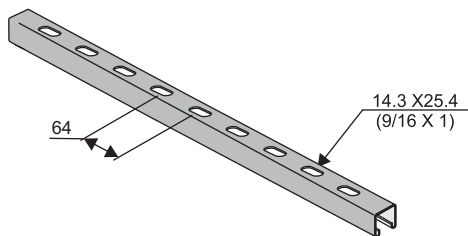


### UNICANAL PERFORADO SLOTTED STRUT 4X2

|               |        |
|---------------|--------|
| CÓDIGO-CODE:  | UP-2   |
| ANCHO-WIDTH:  | 4 cm   |
| LARGO-LENGTH: | 3.05 m |

### UNICANAL PERFORADO SLOTTED STRUT 4X4

|               |        |
|---------------|--------|
| CÓDIGO-CODE:  | UP-4   |
| ANCHO-WIDTH:  | 4 cm   |
| LARGO-LENGTH: | 3.05 m |



| CÓDIGO-CODE | DIMENSIONES<br>DIMENSIONS |
|-------------|---------------------------|
| UP-2        | 41.3 x 20.6 mm            |
| UP-4        | 41.3 x 41.3 mm            |

Material: Lámina de acero al carbono

Acabado: Galvanizado electrolítico (uso interior y uso exterior con baja humedad), Galvanizado Inmersión en Caliente (para uso interior y exterior)

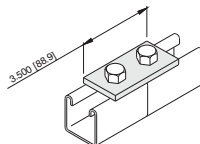
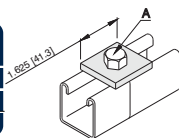
Materials: Strip steel

Finishes: Electrolytic Galvanized (indoor and outdoor use with low humidity, hot dip galvanized cindaor & outdoor use)

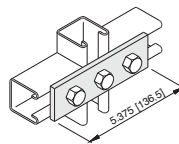
## ACCESORIO PARA ENSAMBLE DE UNICANAL FLAT PLATE FITTINGS FOR STRUT CHANNEL

### ROLDANA CUADRADA SQUARE WHASHER

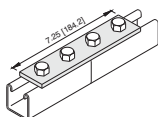
| CÓDIGO<br>CODE | ORIFICIO-ORIFICE<br>mm (pulg) | TORNILLO<br>SCREW<br>mm (pulg) |
|----------------|-------------------------------|--------------------------------|
| UL-1062        | 9.5 (3/8")                    | 7.9 (5/16")                    |
| UL-1063        | 11.1 (7/16")                  | 9.5 (3/8")                     |
| UL-1064        | 14.3 (9/16")                  | 12.7 (1/2")                    |



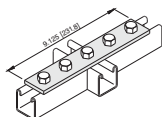
**UL-1065**  
Conector de empalme  
2 orificios  
Two holes splice plate



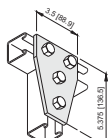
**UL-1066**  
Conector de  
empalme 3 orificios  
Three hole splice



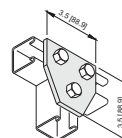
**UL-1067**  
Conector de empalme  
4 orificios  
Four hole splice plate



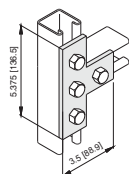
**UL-1941**  
Conector de empalme  
5 orificios  
Five hole splice plate



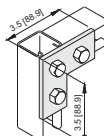
**UL-1358**  
Placa conectora 4 orificios  
Four hole tee gusset plate



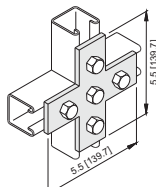
**UL-1356**  
Placa conectora 3 orificios  
Three hole tee gusset plate



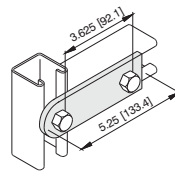
**UL-1031**  
Conector "T" 4 orificios  
Four hole tee plate



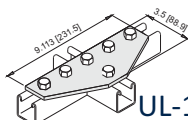
**UL-1036**  
Conector "L" 3 orificios  
Three hole corner



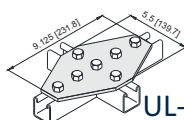
**UL-1028**  
Conector de cruz  
5 orificios  
Five hole cross plate



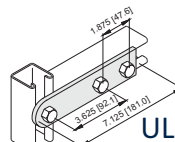
**UL-2325**  
Conector giratorio  
2 orificios  
Two hole swivel plate



**UL-1953**  
Placa conectora  
6 orificios  
Six hole tee gusset plate



**UL-1950**  
Placa conectora  
7 orificios  
Seven hole cross  
gusset plate



**UL-2324**  
Conector giratorio  
3 orificios  
Three hole swivel plate

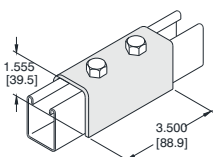
#### Specifications:

Hole Diameter: 14.3 (0.562)  
Hole spacing center to end: 20.6 (0.812)  
Spacing between center holes: 47.6 (1.875)  
Material: Strip steel  
Width: 41.3 (1.625)  
Finishes: Electrolytic galvanized, hot-dip galvanized  
Dimension inches (mm)

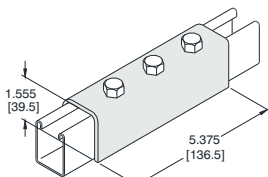
#### Especificaciones:

Diámetro de orificio: 14.3 (0.562)  
Espaciamento del centro de orificio al extremo: 20.6 (0.812)  
Espaciamento entre centro de orificios: 47.6 (1.875)  
Material: Acero al carbono  
Ancho: 41.3 (1.625)  
Acabado: Galvanizado Electrolytic, Galvanizado por Inmersión en Caliente  
Dimensiones en pulgadas (mm)

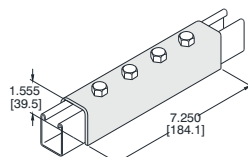
## CONEXIONES PARA UNICANAL TIPO "U" UNISTRUT FITTING "U" TYPE



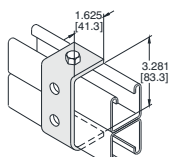
**UL-1376**  
Conector de horquilla 2 orificios  
Two hole splice clevis



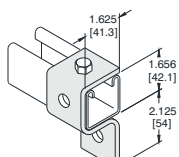
**UL-1376A**  
Conector de horquilla 3 orificios  
Three hole splice clevis



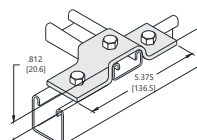
**UL-1377**  
Conector de horquilla 4 orificios  
Four hole splice clevis



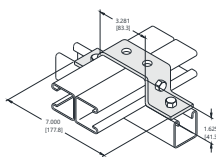
**UL-1044**  
Conector "U" 4 orificios  
Four hole clevis



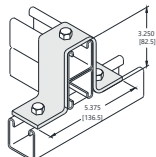
**UL-1046A**  
Conector de copa 3 orificios  
Three hole cup supportplate



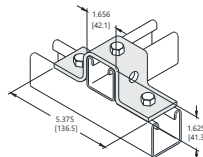
**UL-3347**  
Conector "U" 3 orificios  
Three hole "U" support



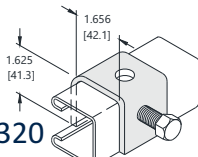
**UL-1043A**  
Conector "U" 6 orificios  
Six hole "U" support



**UL-1737**  
Conector "U" 3 orificios  
Three hole "U" support



**UL-1047**  
Conector "U" 5 orificios  
Five hole "U" support



**UL-1320**  
Conector "U" con sujetador 2 orificios  
Two stud ring connection

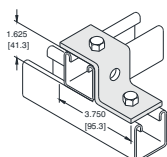
### Especificaciones:

Diámetro de orificio: 14.3 (0.562)  
Espaciamiento del centro de orificio al extremo: 20.6 (0.812)  
Espaciamiento entre centro de orificios: 47.6 (1.875)  
Material: Acero al carbono  
Ancho: 41.3 (1.625)  
Acabado: Galvanizado  
Electrolítico, Galvanizado por Inmersión en Caliente  
Dimensiones en pulgadas (mm)

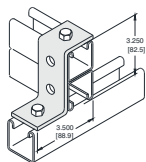
### Specifications:

Hole Diameter: 14.3 (0.562)  
Hole spacing center to end: 20.6 (0.812)  
Spacing between center holes: 47.6 (1.875)  
Materials: Carbon Steel  
Width: 41.3 (1.625)  
Finished: Electrogalvanized steel, Hot dip galvanized steel  
Dimension inches (mm)

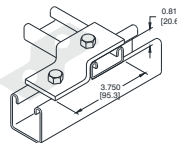
## CONEXIONES PARA UNICAL TIPO "Z" UNISTRUT FITTING "Z" TYPE



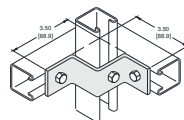
**UL-1045**  
Conector "Z" 3 orificios  
Three hole "Z" support



**UL-1453**  
Conector "Z" 4 orificios  
Four hole "Z"

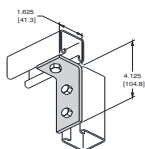


**UL-3345**  
Conector "Z" 2 orificios  
Two hole "Z"

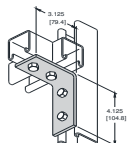


**UL-1736**  
Conector 3 orificios  
Three hole shelf corner

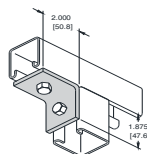
## CONEXIONES PARA UNICAL ANGULARES A 90° ANGULAR FITTINGS



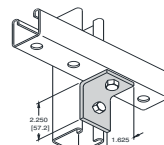
**UL-1326**  
Conector angular 90°  
3 orificios  
Three hole corner



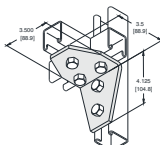
**UL-1325**  
Conector angular 90°  
4 orificios  
Four hole corner



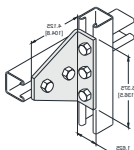
**UL-1026**  
Conector angular 90°  
2 orificios  
Two hole corner angle



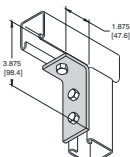
**UL-1068**  
Conector angular 90°  
2 orificios  
Two hole corner angle



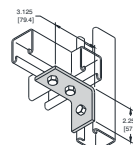
**UL-2235**  
Conector angular 90° tipo  
trapezio 5 orificios  
Five hole gusseted three  
way shelf angle



**UL-1728**  
Conector angular 90° tipo  
trapezio 5 orificios  
Five hole gusseted  
shelf angle



**UL-1346**  
Conector angular 90°  
3 orificios  
Three hole  
corner angle



**UL-1458**  
Conector angular 90°  
3 orificios  
Three hole  
corner angle

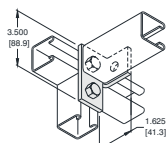
### Especificaciones:

Diámetro de orificio: 14.3 (0.562)  
Espaciamiento del centro de orificio al  
extremo: 20.6 (0.812)  
Espaciamiento entre centro de orificios: 47.6  
(1.875)  
Material: Acero al carbono  
Ancho: 41.3 (1.625)  
Acabado: Galvanizado Electrolítico,  
Galvanizado por Inmersión en Caliente  
Dimensiones en pulgadas (mm)

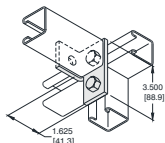
### Specifications:

Hole Diameter: 14.3 (0.562)  
Hole spacing center to end: 20.6 (0.812)  
Spacing between center holes: 47.6 (1.875)  
Materials: Carbon Steel  
Width: 41.3 (1.625)  
Finished: Electro galvanized steel, Hot dip  
galvanized steel  
Dimension inches (mm)

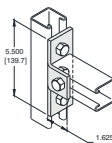
## CONEXIONES ANGULARES PARA UNICANAL A 90° 90° ANGULAR FITTINGS FOR STRUT CHANNEL



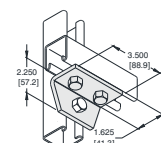
**UL-1037**  
Conector angular 90°  
izquierdo 3 orificios  
Three hole (left hand)  
offset bent angle



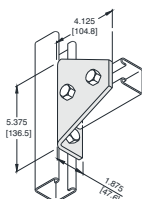
**UL-1038**  
Conector angular 90°  
derecho 3 orificios  
Three hole (right hand)  
offset bent angle



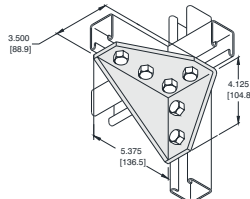
**UL-1033**  
Conector "T" angular 90°  
derecho 4 orificios  
Four hole (right hand)  
offset bent tee



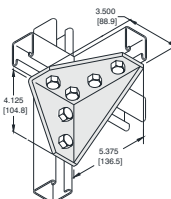
**UL-1357**  
Conector angular 90° tipo  
trapezio 3 orificios



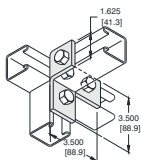
**UL-1727**  
Conector angular 90° tipo  
trapezio 4 orificios  
Four hole gusseted corner



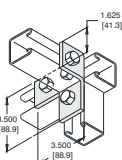
**UL-1956**  
Conector de esquina reforzado  
derecho 6 orificios  
Six hole (right hand) gusseted  
corner connection



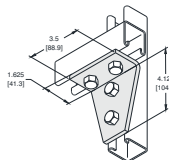
**UL-1957**  
Conector de esquina  
reforzado izquierdo 6 orificios  
Six hole (left hand) gusseted  
corner connetion



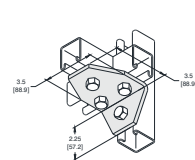
**UL-1035**  
Conector "T" angular  
90° derecho 4 orificios  
Four hole (right hand)  
Offset bent  
Tee angleangle.



**UL-1034**  
Conector "T" angular 90°  
izquierdo 4 orificios  
Four hole (left hand)  
offset bent  
teeangleangle



**UL-1359**  
Conector angular 90° tipo  
trapezio 4 orificios  
Four hole gusseted  
shelf angle



**UL-1579**  
Conector angular 90° tipo  
trapezio 4 orificios  
Four hole gusseted  
three way shelf angle

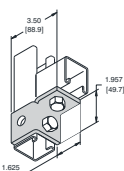
### Especificaciones:

Diámetro de orificio: 14.3 (0.562)  
Espaciamento del centro de orificio al extremo:  
20.6 (0.812)  
Espaciamento entre centro de orificios: 47.6  
(1.875)  
Material: Acero al carbono  
Ancho: 41.3 (1.625)  
Acabado: Galvanizado Electrolítico, Galvanizado  
por Inmersión en Caliente  
Dimensiones en pulgadas (mm)

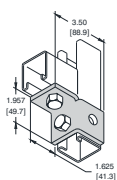
### Specifications:

Hole Diameter: 14.3 (0.562)  
Hole spacing center to end: 20.6 (0.812)  
Spacing between center holes: 47.6 (1.875)  
Materials: Carbon Steel  
Width: 41.3 (1.625)  
Finished: Electro galvanized steel, Hot dip  
galvanized steel  
Dimension inches (mm)

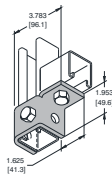
## CONEXIONES EN FORMA DE "ALA" WING FITTINGS



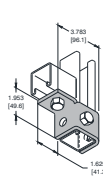
**UL-2341R**  
Conector de ala derecha  
3 orificios  
Right wing connector  
3 hole



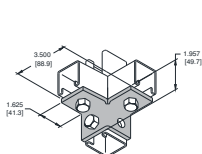
**UL-2341L**  
Conector de ala izquierda  
3 orificios  
Three hole single corner  
connection (left hand)



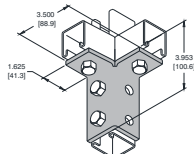
**UL-2472R**  
Conector de ala derecha  
4 orificios  
Right wing connector  
4 hole



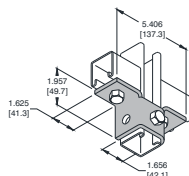
**UL-2472L**  
Conector de ala izquierda  
4 orificios  
four hole single corner  
connection (left hand)



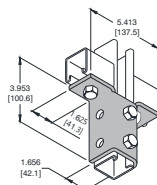
**UL-2223**  
Conector de esquina  
doble 4 orificios  
Four hole double  
corner connection



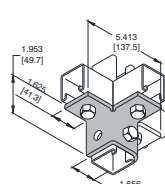
**UL-2224**  
Conector de esquina doble  
6 orificios  
Six hole double  
corner connection



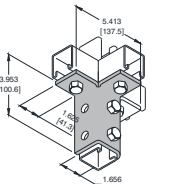
**UL-2345**  
Conector de 2 alas  
5 orificios  
Five hole double  
wing connection



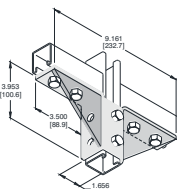
**UL-2246**  
Conector de esquina  
doble 4 orificios  
Four hole double  
corner connection



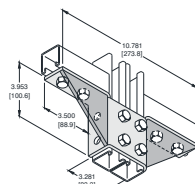
**UL-2227**  
Conector de 3 alas  
6 orificios  
Six hole triple wing  
connection



**UL-2228**  
Conector de 3 alas  
9 orificios  
Nine hole triple wing  
connection



**UL-2348**  
Conector de 2 alas  
10 orificios  
Ten hole double wing  
gusseted connection



**UL-2348A**  
Conector de 2 alas  
12 orificios  
Twelve hole double wing  
gusseted connection

### Especificaciones:

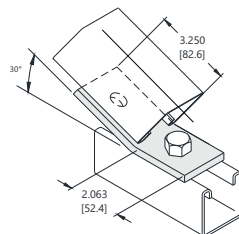
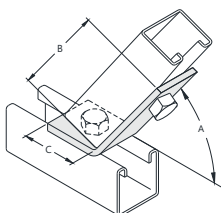
Díámetro de orificio: 14.3 (0.562)  
Espaciamento del centro de orificio al extremo: 20.6 (0.812)  
Espaciamento entre centro de orificios: 47.6 (1.875)  
Material: Acero al carbono  
Ancho: 41.3 (1.625)  
Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente  
Dimensiones en pulgadas (mm)

### Specifications:

Hole Diameter: 14.3 (0.562)  
Hole spacing center to end: 20.6 (0.812)  
Spacing between center holes: 47.6 (1.875)  
Materials: Carbon Steel  
Width: 41.3 (1.625)  
Finished: Electrogalvanized steel, Hot dip galvanized steel  
Dimension inches (mm)

## CONEXIONES ANGULARES PARA UNISTRUT ANGULAR FITTINGS FOR UNISTRUT CHANNEL

| CLAVE<br>CODE | CONECTOR ANGULAR ABIERTO 2 ORIFICIOS<br>A (ANGULO) | B mm (PULG)   | C mm (PULG)   |
|---------------|----------------------------------------------------|---------------|---------------|
| UL-2096       | 67.5°                                              | 88.9 (3.500") | 44.5 (1.752") |
| UL-2097       | 60°                                                | 85.7 (3.374") | 47.6 (1.874") |
| UL-2098       | 52.5°                                              | 82.6 (3.252") | 52.4 (2.063") |
| UL-1546       | 45°                                                | 76.2 (3.000") | 58.7 (2.311") |
| UL-2099       | 37.5°                                              | 88.9 (3.500") | 46.0 (1.811") |
| UL-2101       | 30°                                                | 82.6 (3.252") | 52.4 (2.063") |
| UL-2102       | 22.5°                                              | 84.1 (3.311") | 52.4 (2.063") |



Especificaciones (specifications):

Diametro de orificio (hole size): 14.3  
[0.562]

Espaciamiento del centro de orificio al  
extremo

(hole spacing): 20.6 [0.812]

Espaciamiento entre centro de orificios

(hole spacing): 47.6 [1.875]

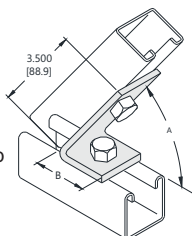
Material: acero al carbono (strip steel)

Ancho (width): 41.3 [1.625]

Acabado: galvanizado electrolítico,  
Galvanizado por inmersión en caliente.

Finishes: electrolytic galvanized, hot-dip

Dimensiones en pulgadas (dimensions  
inches) (mm)



| CLAVE- CODE | CONECTOR ANGULAR CERRADO 2 ORIFICIOS<br>A (ANGULO) | B mm (PULG)   |
|-------------|----------------------------------------------------|---------------|
| UL-2106     | 75°                                                | 66.7 (2.626") |
| UL-2108     | 60°                                                | 70.6 (2.780") |
| UL-2109     | 52.5°                                              | 73.8 (2.906") |
| UL-2110     | 37.5°                                              | 81.8 (3.220") |

## TUERCA UNICANAL CON RESORTE Y SIN RESORTE UNISTRUT WITH SPRING & WITHOUT SPRING

### Características FEATURES

- ⊕ Bisel cónico en la tuerca, facilita la manipulación del tornillo

#### NUT BEVEL, FOR EASY HANDLING OF THE SCREW

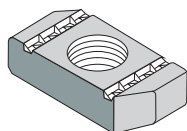
- ⊕ Bordes de conexión en forma de pirámide y ranuras estriadas cónicas, producen una conexión fuerte como una prensa entre el canal y la tuerca

#### GROOVES IN PYRAMID FORM AND GRIP FOR A STRONGEST UNION

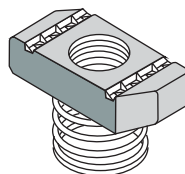
- ⊕ El resorte mantiene la tuerca en su lugar actuando como una

“tercera mano” del trabajador

#### THE SPRING REMAINS THE NUT IN ITS POSITION LIKE A “WORKER THIRD HAND”



| ESPESOR - DENSITY | CÓDIGO - CODE |
|-------------------|---------------|
| 1/4"              | UTR-1/4       |
| 5/16"             | UTR-5/16      |
| 3/8"              | UTR-3/8       |
| 1/2"              | UTR-1/2       |



- ⊕ Materiales: Lámina de placa de Acero

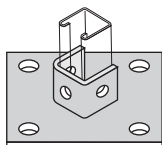
- ⊕ Material: Carbon Steel

- ⊕ Acabado: Galvanizado Electrolítico

- ⊕ Finishes: Electro galvanized zinc

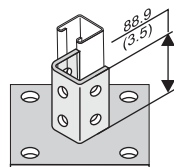
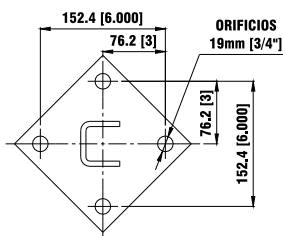


## BASES PARA POSTES UNICANAL REINFORCED POST BASE FOR STRUT CHANNEL



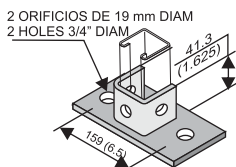
### UL-2072

Base sencilla para poste unicanal  
UL-1000  
Single post base for  
lu-1000 unicanal



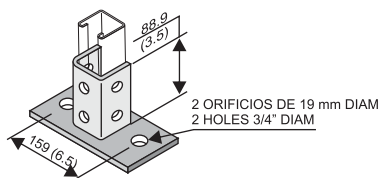
### UL-2072A

Base reforzada para poste  
unicanal UL-1000  
Reinforced post base for  
lu-1000 unicanal



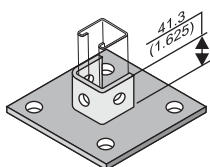
### UL-2072C

Base sencilla para poste unicanal  
UL-1000  
Single post base for  
lu-1000 unicanal



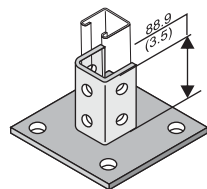
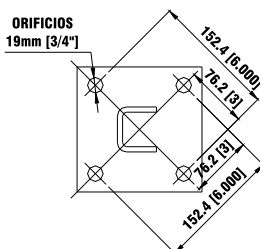
### UL-2072CA

Base reforzada para poste  
unicanal UL-1000  
Reinforced post base for  
lu-1000 unicanal



### UL-2072B

Base sencilla para poste unicanal  
UL-1000  
Single post base for  
lu-1000 unicanal



### UL-2072BA

Base reforzada para poste  
unicanal UL-1000  
Reinforced post base for  
lu-1000 unicanal

- ⊕ Material: Acero al carbono, acero inoxidable
- ⊕ Acabado: Galvanizado electrolítico, por inmersión en caliente y tropicalizado
- ⊕ Para bases de poste aplicables a otros canales consulte a nuestro departamento técnico

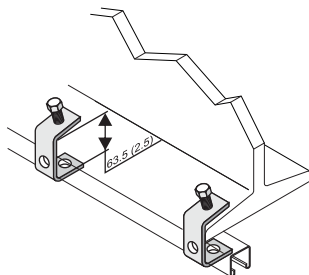
- ⊕ Material: Carbon steel, stainless steel
- ⊕ Finishes: Electrogalvanized zinc, hot dip galvanized and chromium/zinc coat
- ⊕ For other channel post base please consult our technical department

## MORDAZAS DE VIGAS PARA UNICANAL- STRUT BEAM CLAMPS

### UL-1271S

- ⊕ Mordaza de viga exterior
- ⊕ Carga recomendada 227 kg para cada mordaza
- ⊕ Aplicables para vigas con espesores de 22.2 y menores
- ⊕ Cada mordaza incluye tornillo cabeza hexagonal 1/2-13UNC x 38.1
- ⊕ Se debe utilizar en pares aplicable a canales series UL-4 y UL-2.

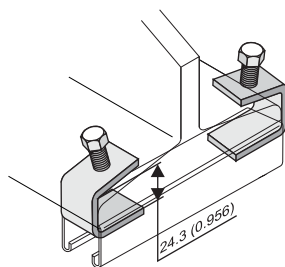
- ⊕ External beam clamp
- ⊕ design load 227 kg (500lb) each one
- ⊕ Available for 7/8" or less beam thickness
- ⊕ 38.1 Each clamp includes hex head
- ⊕ It Should be used in pairs for use in strut series UL-4 & UL-2



### UL-1272

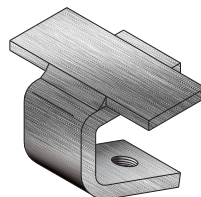
- Mordaza de viga interior
- Carga recomendada 204 kg para cada mordaza
- Aplicables para vigas con espesores de 19 y menores
- Cada mordaza incluye tornillo cabeza hexagonal 1/2-13UNC x 38.1
- Se debe utilizar en pares aplicable a todos los unicanales

- ⊕ Internal beam clamp
- ⊕ Design load 204 kg (500lb) each one
- ⊕ Available for 7/8" or less beam thickness
- ⊕ 38.1 Each clamp includes hex head
- ⊕ It Should be used in pairs for use in strut series UL-4 & UL-2

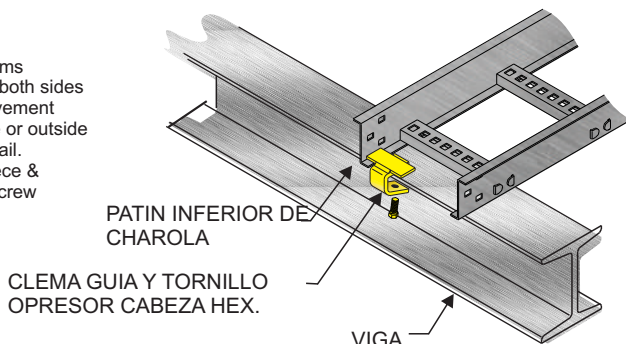


### CLEMA GUÍA PARA VIGAS UL-1249 Guide clamp for beams UL-1249

- ⊕ Es una guía para la charola
- ⊕ Permite el movimiento longitudinal de la bandeja cable
- ⊕ No se requiere perforación de campo sobre las vigas
- ⊕ Las mordazas de guías son requeridos en ambos lados de la bandeja de cable para prevenir el movimiento lateral.
- ⊕ Se puede colocar por el interior o por el exterior de la charola según el patín del perfil de la charola.
- ⊕ La mordaza guía se vende por pieza e incluye un tornillo opresor cabeza hexagonal.
- ⊕ Se requieren dos guías por apoyo



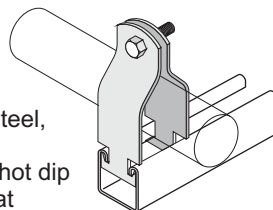
- ⊕ Guide for ladder tray
- ⊕ Allows movement of trays
- ⊕ no drilling required field on beams
- ⊕ Guide clamps are required on both sides of cable tray to avoid lateral movement
- ⊕ It could be placed on the inside or outside of cable tray according to the side rail.
- ⊕ The guide clamp is sold per piece & includes a hexagonal head setscrew
- ⊕ Two guide clamps are required for support



## ABRAZADERA UNICANAL-CLAMP STRUT CHANNEL

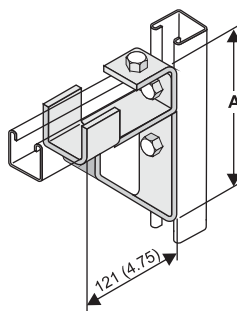
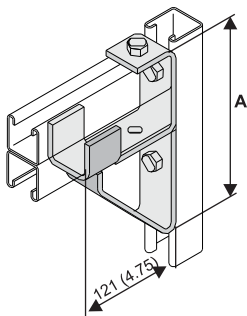
| MEDIDA-MEASURE |        |
|----------------|--------|
| 0.500"         | 1/2"   |
| 0.750"         | 3/4"   |
| 1.00"          | 1"     |
| 1.25"          | 1 1/4" |
| 1.50"          | 1 1/2" |
| 2.00"          | 2"     |
| 2.50"          | 2 1/2" |
| 3.00"          | 3"     |
| 4.00"          | 4"     |
| 5.00"          | 5"     |
| 6.00"          | 6"     |

- ⊕ Materiales: Aluminio, Lámina de placa de Acero, Acero Inoxidable 304,316 y 316L
- ⊕ Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente, Galvanizado Tropicalizado.
- ⊕ Material: carbon steel, stainless steel, aluminum
- ⊕ Finishes: electrogalvanized zinc, hot dip galvanized and chromium/zinc coat



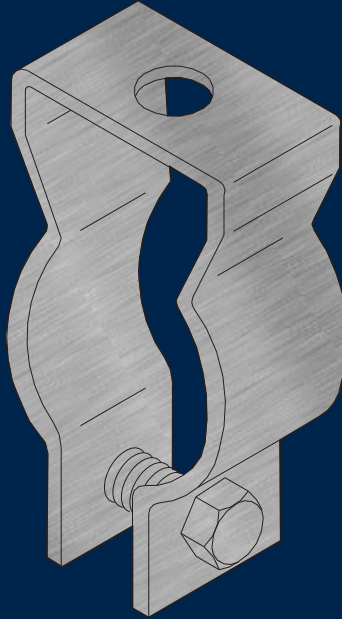
## MÉNSULAS PARA UNICANAL- STRUT BRACKETS

### MÉNSULAS DE UNIÓN (NO CARGA CANTILIVER) UNION BRACKET (NOT FOR STRENGTH)

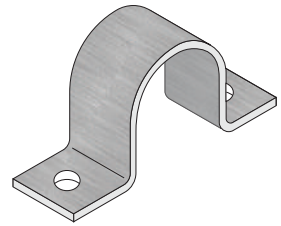
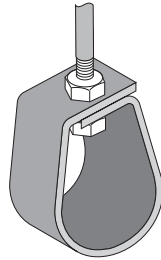


| CÓDIGO-CODE | CANAL-CHANNEL | ALTURA- HEIGHT A |
|-------------|---------------|------------------|
| UL-1075     | UL-4/UL-2-D   | 149.2 (5.875)    |
| UL-1593     | UL-4-D        | 190.5 (7.5)      |
| UL-1076     | UL-2          | 128.6 (5.06)     |

- ⊕ Material: Acero al carbono
- ⊕ Acabado: Galvanizado Electrolítico, Galvanizado por Inmersión en Caliente y tropicalizado
- ⊕ Dimensiones: mm (pulg)

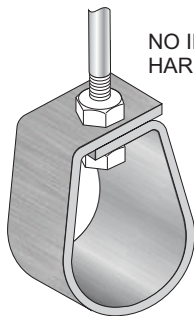


CORTE  
DE SUAJE



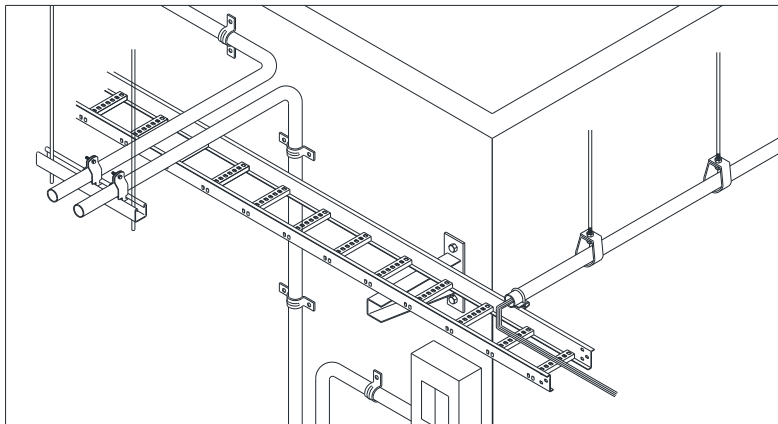
# ABRAZADERAS PIPE CLAMPS

## ABRAZADERA TIPO PERA ADJUSTABLE BAND PIPE HANGER



NO INCLUYE TORNILLERIA  
HARDWARE NOT INCLUDED

| Clave<br>Code | Diametro<br>Diameter | Varilla<br>Rod size for |
|---------------|----------------------|-------------------------|
| AP-050        | 1/2"                 | 3/8"                    |
| AP-075        | 3/4"                 |                         |
| AP-100        | 1"                   |                         |
| AP-125        | 1 1/4"               |                         |
| AP-150        | 1 1/2"               |                         |
| AP-200        | 2"                   |                         |
| AP-300        | 3"                   |                         |
| AP-400        | 4"                   |                         |



## ABRAZADERA TIPO UÑA PIPE HOOK CLAMP

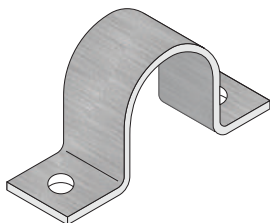


| Clave - Code | Diametro- Diameter |
|--------------|--------------------|
| AÑ-050       | 1/2"               |
| AÑ-075       | 3/4"               |
| AÑ-100       | 1"                 |
| AÑ-125       | 1 1/4"             |
| AÑ-150       | 1 1/2"             |
| AÑ-200       | 2"                 |
| AÑ-300       | 3"                 |
| AÑ-400       | 4"                 |

Material: Lámina de acero al carbono  
Acabado: Galvanizado electrolítico  
(Uso interior y uso exterior con baja humedad)

Material: Steel under  
Finishes: Electrogalvanized  
(Indoor use and outdoor use with low humidity)

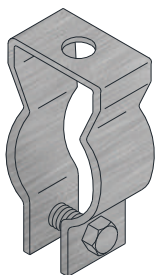
## ABRAZADERA OMEGA OMEGA TYPE CLAMP



| Clave - Code | Diametro- Diameter |
|--------------|--------------------|
| AO-050       | 1/2"               |
| AO-075       | 3/4"               |
| AO-100       | 1"                 |
| AO-125       | 1 1/4"             |
| AO-150       | 1 1/2"             |
| AO-200       | 2"                 |
| AO-300       | 3"                 |
| AO-400       | 4"                 |

NO INCLUYE TORNILLERIA  
HARDWARE NOT INCLUDED

## ABRAZADERA TIPO CLIP CLAMPS C TYPE

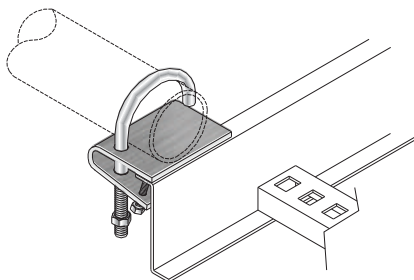


| Clave - Code | Diametro- Diameter |
|--------------|--------------------|
| PE-GUI-1/2   | 1/2"               |
| PE-GUI-3/4   | 3/4"               |
| PE-GUI-1     | 1"                 |
| PE-GUI-1 1/4 | 1 1/4"             |
| PE-GUI-1 1/2 | 1 1/2"             |
| PE-GUI-2     | 2"                 |
| PE-GUI-3     | 3"                 |
| PE-GUI-4     | 4"                 |

INCLUYE TORNILLERIA  
HARDWARE INCLUDED



## ABRAZADERA DE CHAROLA A TUBO CONDUIT TO CABLE TRAY CLAMP

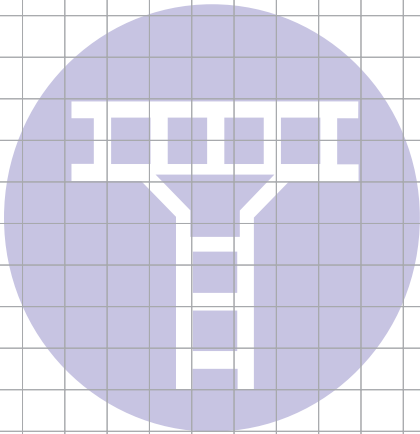


INCLUYE TORNILLERIA  
HARDWARE INCLUDED

| Clave - Code | Diametro Diameter |
|--------------|-------------------|
| ACHTUB-050   | 1/2"              |
| ACHTUB-075   | 3/4"              |
| ACHTUB-100   | 1"                |
| ACHTUB-125   | 1 1/4"            |
| ACHTUB-150   | 1 1/2"            |
| ACHTUB-200   | 2"                |
| ACHTUB-300   | 3"                |
| ACHTUB-400   | 4"                |

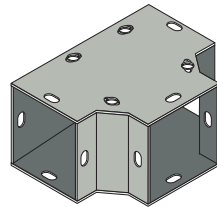
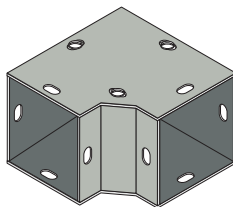
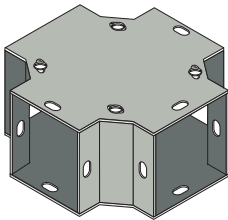
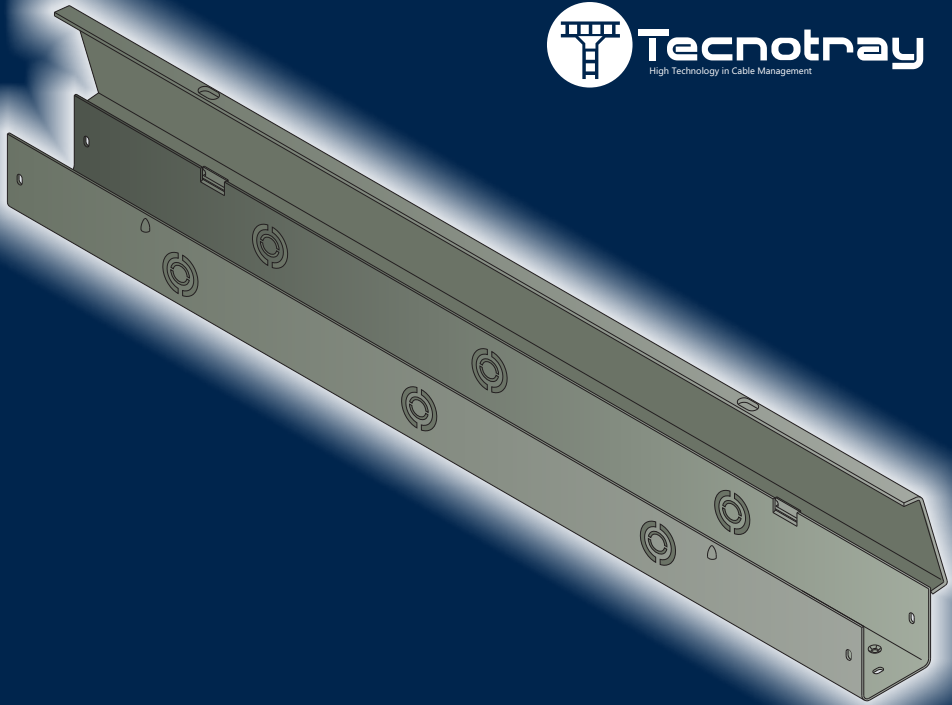
Material: Lámina de acero al carbono  
Acabado: Galvanizado electrolítico  
(Uso interior y uso exterior con baja humedad)

Material: Steel under  
Finishes: Electrogalvanized  
(Indoor use and outdoor use with low humidity)





**Tecnotray**  
High Technology in Cable Management



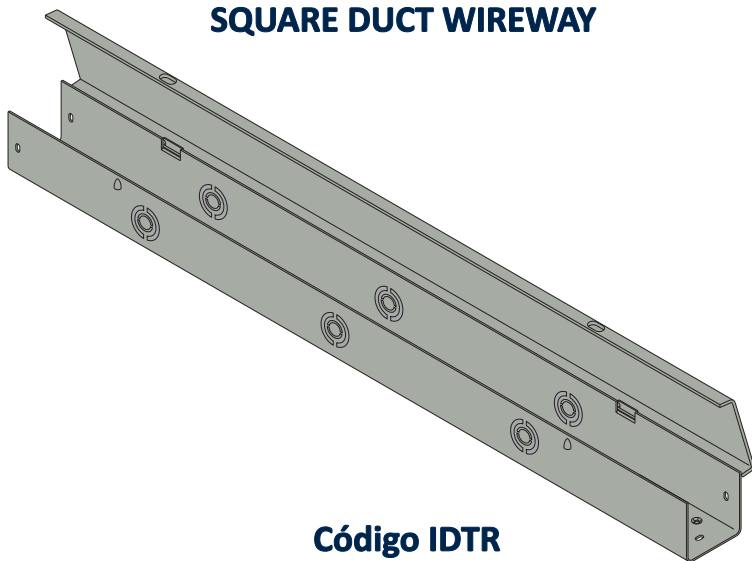
CORTE  
DE SUAJE

# DUCTO CUADRADO EMBISAGRADO SQUARE DUCT WIREWAY



## DUCTO CUADRADO EMBISAGRADO

### SQUARE DUCT WIREWAY



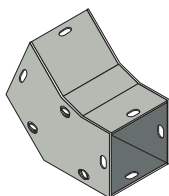
### Código IDTR

### Code IDTR

- \* Materiales: Acero al carbón con pintura (Otros: Lámina pregalvanizada, aluminio, acero inoxidable 304 y 316)
  - \* Acabado: Pintura electro-estática
  - \* Incluye cople con tornillería
  - \* Longitud 1.52m (Otros: 60cm, 1.00m y 3.00m)
  - \* Colores de línea: Blanco, gris
  - \* Colores bajo pedido: Verde, Azul, Rojo, Anaranjado, Amarillo
  - \* Para otras dimensiones consulte nuestro departamento de ventas
- 
- \* Material: Carbon steel with paint ( Other: Pre-galvanized Foil, aluminum, stainless steel 304 and 316 )
  - \* Finishes: Electrostatic painting
  - \* It includes coupling with screws
  - \* Longitud 1.52m (others: 60cm, 1.00m y 3.00m)
  - \* Colors online: White & gray
  - \* Colors on request: Green, blue, red, orange & yellow
  - \* for other dimensions see our sales department

| CÓDIGO<br>CODE | ANCHO CENTRAL<br>WIDTH CENTRAL |             | EMPAQUE<br>PACKING |
|----------------|--------------------------------|-------------|--------------------|
|                | cm                             | pulg-inches |                    |
| IDTR-065       | 6.5 x 6.5                      | 2.5 x 2.5   | 6 piezas           |
| IDTR-100       | 10 x 10                        | 4 x 4       | 4 piezas           |
| IDTR-150       | 15 x 15                        | 6 x 6       | 4 piezas           |
| IDTR-200       | 20 x 20                        | 8 x 8       | 1 piezas           |

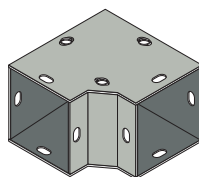
## CODO A 45° Y A 90° 45° & 90° ELBOW



**Código IDC-45°**  
Code IDC-45°

| CÓDIGO<br>CODE | ANCHO - WIDTH<br>(W) cm |
|----------------|-------------------------|
| IDC-065-45     | 6.5 x 6.5               |
| IDC-100-45     | 10 x 10                 |
| IDC-150-45     | 15 x 15                 |

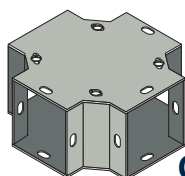
- \* Materiales: Lámina pregalvanizada, aluminio, acero inoxidable 304,316 y 316L
- \* Acabado: Pintura electroestática
- \* Incluye cople con tornillería
- \* Colores de línea: Blanco y gris
- \* Colores bajo pedido: Verde, azul, rojo, anaranjado y amarillo
- \*



**Código IDC-90°**  
Code IDC-90°

| CÓDIGO<br>CODE | ANCHO - WIDTH<br>(W) cm |
|----------------|-------------------------|
| IDC-065-90     | 6.5 x 6.5               |
| IDC-100-90     | 10 x 10                 |
| IDC-150-90     | 15 x 15                 |

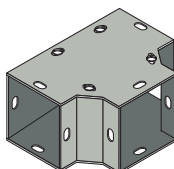
- \* Material: Galvanized sheet, aluminum, finished stainless steel 304,316 y 316L.
- \* Finishes: Electrostatic painting
- \* Cople connector and hardware included
- \* Colors online: White & gray
- \* Colors on request: Green, blue, red, orange & yellow



**"X"**

**Código IDX**  
Code IDX

| CÓDIGO  | ANCHO WIDTH<br>(W) cm |
|---------|-----------------------|
| IDX-065 | 6.5 x 6.5             |
| IDX-100 | 10 x 10               |
| IDX-150 | 15 x 15               |

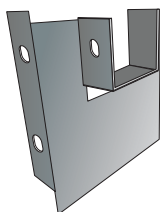


**"T"**

**Código IDT**  
Code IDT

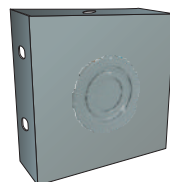
| CÓDIGO  | ANCHO WIDTH<br>(W) cm |
|---------|-----------------------|
| IDT-065 | 6.5 x 6.5             |
| IDT-100 | 10 x 10               |
| IDT-150 | 15 x 15               |

## REDUCCIÓN REDUCER



| ANCHO - WIDTH<br>(W1) cm | ANCHO - WIDTH<br>(W2) pulg | CODIGO<br>CODE |
|--------------------------|----------------------------|----------------|
| 6.5                      | 10                         | IDRE-6510      |
|                          | 15                         | IDRE-6515      |
| 10                       | 15                         | IDRE-1015      |

## PLACA CIERRE BLIND END

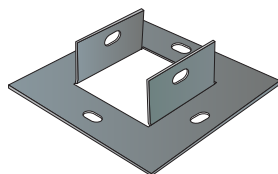


| ANCHO WIDTH<br>(W) cm | CÓDIGO<br>CODE |
|-----------------------|----------------|
| 6.5 x 6.5             | IDPC-065       |
| 10 x 10               | IDPC-100       |
| 15 x 15               | IDPC-150       |

- \* Materiales: Lámina pregalvanizada, Aluminio, Acero Inoxidable 304, 316 y 316L.
- \* Acabado: Pintura electro-estática
- \* Incluye cople con tornillería
- \* Colores de línea: Blanco y gris
- \* Colores bajo pedido: Verde, azul, rojo, anaranjado y amarillo

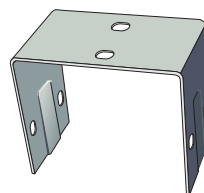
- \* Materials: Galvanized sheet, aluminum, finished stainless steel 304,316 y 316L.
- \* Finishes: Electrostatic painting
- \* Cople connector and hardware included
- \* Colors online: White & gray
- \* Colors on request: Green, blue, red, orange & yellow

## BRIDA PARA TABLERO PANEL ADAPTER



| ANCHO-WIDTH<br>(W) cm | CÓDIGO<br>CODE |
|-----------------------|----------------|
| 6.5 x 6.5             | IDBT-065       |
| 10 x 10               | IDBT-100       |
| 15 x 15               | IDBT-150       |

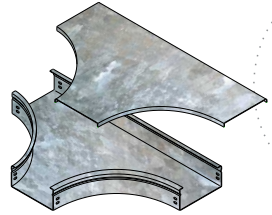
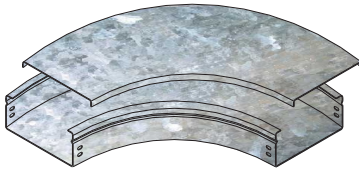
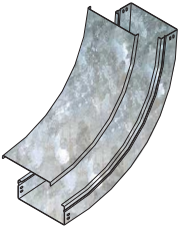
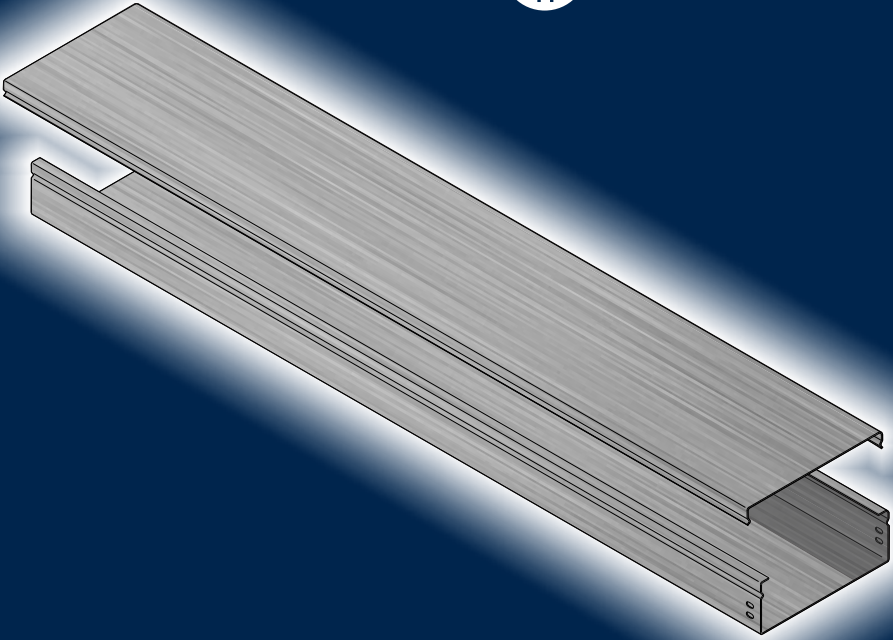
## CONECTOR CONNECTORS



| ANCHO - WIDTH<br>(W) cm | CÓDIGO<br>CODE |
|-------------------------|----------------|
| 6.5 x 6.5               | IDCN-065       |
| 10 x 10                 | IDCN-100       |
| 15 x 15                 | IDCN-150       |



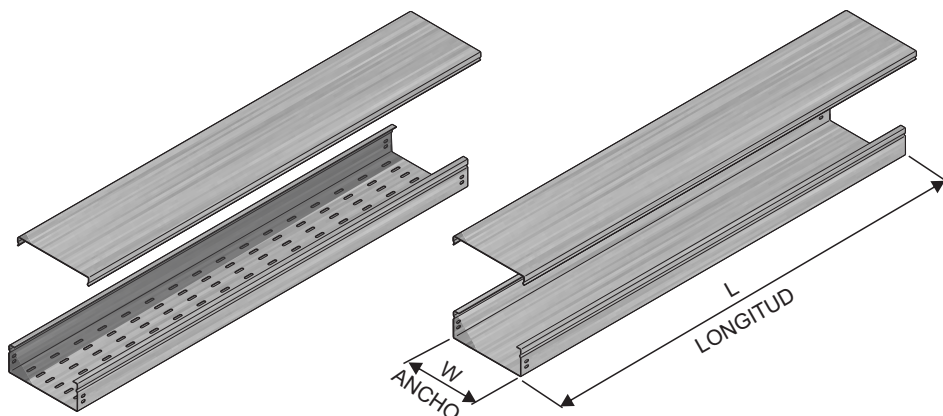
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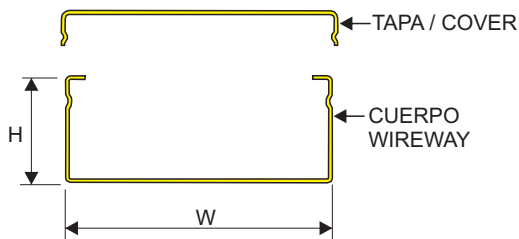
CORTE  
DE SUAJE

# **TECNODUCTO (tapa a presión) PRESSED COVER WIREWAY**

## TECNODUCTO PRESSED COVER WIREWAY



### Código TDLTR /TDPTR Code TDLTR /TDPTR



- \* Materiales: Lámina pregalvanizada, galvanizado por inmersión en caliente de acuerdo a ASTM-A-653 (Otros: aluminio, acero inoxidable 304 y 316)
- \* Acabado: natural
- \* Incluye conector con tornillería
- \* Longitud 1.52m (\*Otros: 1.00m, 2.00m y 3.00m)
- \* Material: Pre-galvanized steel, hot dip galvanized in accordance with ASTM-A653
- \* ( Other: aluminum, stainless steel 304 and 316 )
- \* Finishes: natural
- \* It includes splice plate with screws
- \* Longitud 1.52m (\*others: 1.00m 2.00m y 3.00m)

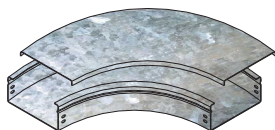
| CÓDIGO /CODE         |                      | DIMENSIONES / DIMENSIONS |                       |                                            |
|----------------------|----------------------|--------------------------|-----------------------|--------------------------------------------|
| LISO / SOLID         | PERFORADO/VENTILATED | ANCHO<br>WIDTH "H"       | PERALTE<br>HEIGHT "H" | LONGITUD<br>LENGTH "L"                     |
| TDLTR-7575x1.52*-PG  | TDPTR-7575x1.52*-PG  | 75mm                     | 75mm                  | 1.52m<br>(*others: 1.00m<br>2.00m y 3.00m) |
| TDLTR-15075x1.52*-PG | TDPTR-15075x1.52*-PG | 150mm                    | 75mm                  |                                            |
| TDLTR-30075x1.52*-PG | TDPTR-30075x1.52*-PG | 300mm                    | 75mm                  |                                            |

Incluye 1 jgo de conector con tornillería  
splice plate with hardware included

**PG** = lamina galvanizada / Pre-galvanized steel

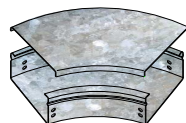
**AL** = aluminio / aluminum

**AI4** = acero inoxidable tipo 304 / stainless steel 304



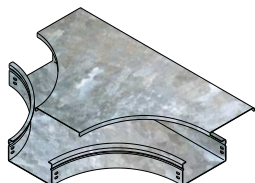
**CODO HORIZONTAL A 90°**  
**90° HORIZONTAL BEND**

| CÓDIGO<br>CODE    | ANCHO - WIDTH<br>(W) mm |
|-------------------|-------------------------|
| TDLCH-7575-90-PG  | 75                      |
| TDLCH-15075-90-PG | 150                     |
| TDLCH-30075-90-PG | 300                     |



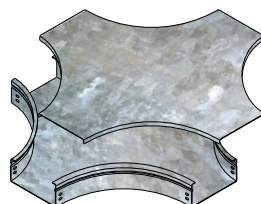
**CODO HORIZONTAL A 45°**  
**45° HORIZONTAL BEND**

| CÓDIGO<br>CODE    | ANCHO - WIDTH<br>(W) mm |
|-------------------|-------------------------|
| TDLCH-7575-45-PG  | 75                      |
| TDLCH-15075-45-PG | 150                     |
| TDLCH-30075-45-PG | 300                     |



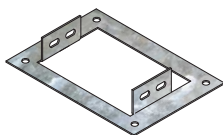
**TEE HORIZONTAL**  
**HORIZONTAL TEE**

| CÓDIGO<br>CODE | ANCHO - WIDTH<br>(W) mm |
|----------------|-------------------------|
| TDLTH-7575-PG  | 75                      |
| TDLTH-15075-PG | 150                     |
| TDLTH-30075-PG | 300                     |



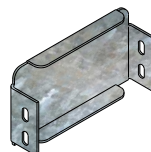
**"X" HORIZONTAL**  
**HORIZONTAL CROSS**

| CÓDIGO<br>CODE | ANCHO - WIDTH<br>(W) mm |
|----------------|-------------------------|
| TDLXH-7575-PG  | 75                      |
| TDLXH-15075-PG | 150                     |
| TDLXH-30075-PG | 300                     |



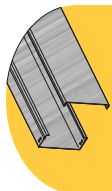
**BRIDA / FRAME TYPE BOX**

| CÓDIGO<br>CODE | ANCHO - WIDTH<br>(W) mm |
|----------------|-------------------------|
| TDB-75-PG      | 75                      |
| TDB-75-PG      | 150                     |
| TDB-75-PG      | 300                     |



**PLACA CIERRE / BLIND END**

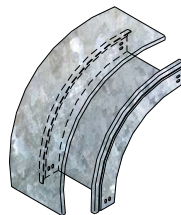
| CÓDIGO<br>CODE | ANCHO - WIDTH<br>(W) mm |
|----------------|-------------------------|
| TDPC-75-PG     | 75                      |
| TDPC-150-PG    | 150                     |
| TDPC-300-PG    | 300                     |





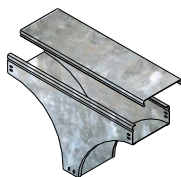
**CODO VERTICAL INTERIOR A 90°/45°**  
**90°/45° VERTICAL INSIDE BEND**

| CÓDIGO<br>CODE    | ANCHO - WIDTH<br>(W) mm |
|-------------------|-------------------------|
| TDLVI-7575-90-PG  | 75                      |
| TDLVI-15075-90-PG | 150                     |
| TDLVI-30075-90-PG | 300                     |



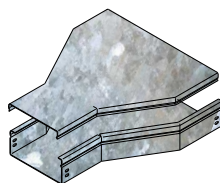
**CODO VERTICAL EXTERIOR A 90°/45°**  
**90°/45° VERTICAL OUTSIDE BEND**

| CÓDIGO<br>CODE    | ANCHO - WIDTH<br>(W) mm |
|-------------------|-------------------------|
| TDLVE-7575-45-PG  | 75                      |
| TDLVE-15075-45-PG | 150                     |
| TDLVE-30075-45-PG | 300                     |



**TEE VERTICAL**  
**VERTICAL TEE**

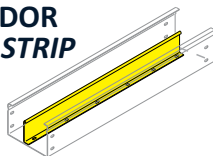
| CÓDIGO<br>CODE | ANCHO - WIDTH<br>(W) mm |
|----------------|-------------------------|
| TDLTV-7575-PG  | 75                      |
| TDLTV-15075-PG | 150                     |
| TDLTV-30075-PG | 300                     |



**REDUCCION**  
**REDUCER**

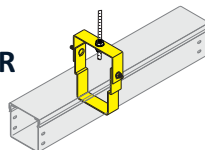
| CÓDIGO<br>CODE | ANCHO - WIDTH<br>(W) mm |
|----------------|-------------------------|
| TDLRR-7575-PG  | 75                      |
| TDLRR-15075-PG | 150                     |
| TDLRR-30075-PG | 300                     |

**SEPARADOR**  
**BARRIER STRIP**

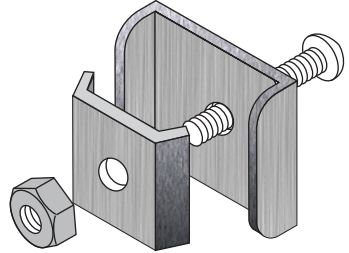
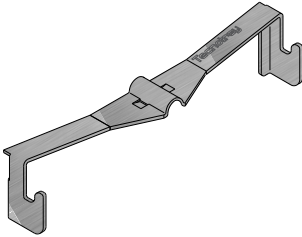
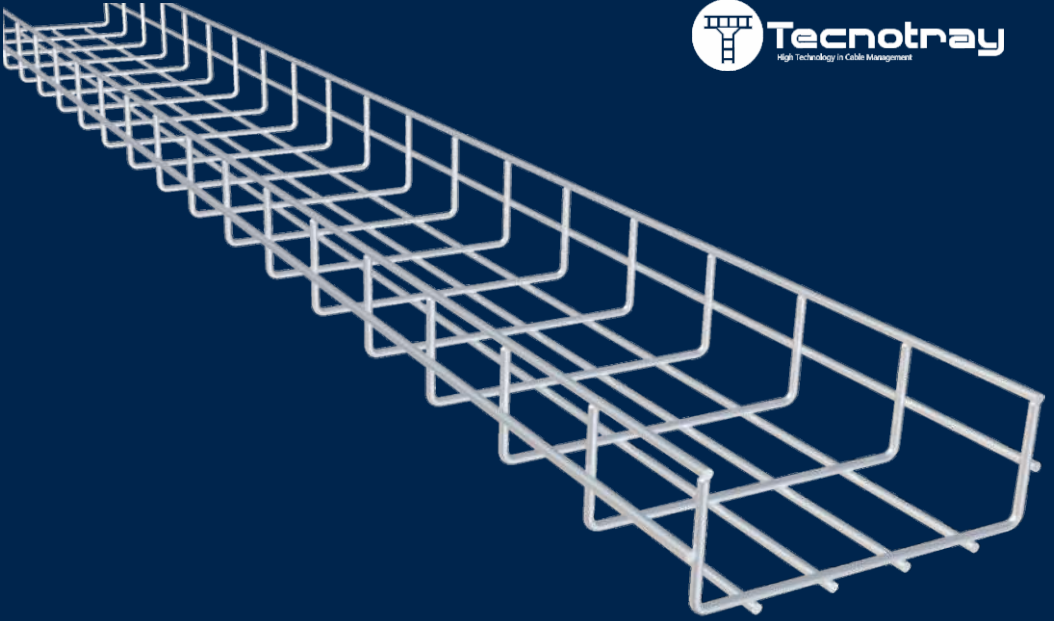


| CÓDIGO / CODE | LONGITUD / LENGTH |
|---------------|-------------------|
| TDS-1.52-PG   | 1.52m             |

**COLGADOR**  
**HANGER**



| CÓDIGO<br>CODE | ANCHO - WIDTH<br>(W) mm |
|----------------|-------------------------|
| TDCG-75-PG     | 75                      |
| TDCG-150-PG    | 150                     |



CORTE  
DE SUAJE

# CHAROLA TIPO MALLA

## CABLE TRAY SYSTEM WIRE MESH TYPE



## Usos y Características

TECNOMALLA es un sistema de soporte para cable cuya característica principal es la ligereza de su construcción, de igual forma son soportes que se catalogan dentro de un rango de baja capacidad de carga (ver "Cargas Mecánicas"), su construcción permite el alojamiento de cables de voz y datos, cableado de redes, de energía, sonido.

El uso de este tipo de charola se recomienda para zonas de instalación donde no existan grandes cantidades de polvo o exposiciones de salpicaduras, así como en lugares donde pueda ser expuesto a daños mecánicos severos. Se recomiendan lugares cerrados y donde se requiera de una ventilación favorable, como: plafones de oficinas, pisos falsos, cuartos "IT", Shelters, uso interior en gabinetes. No se permite el uso de este sistema como andador o servicio de escalera; así como en cubos de elevadores.

## Materiales de Fabricación

La charola TECNOMALLA se fabrica con alambre de acero al carbono de elevada resistencia mecánica a la tracción y ésta puede presentarse con los siguientes acabados y/o materiales:

- \* **GALVANIZADO ELECTROLÍTICO.** Para este galvanizado es recomendable cuando las inclemencias y los agentes ambientales son moderados (no se recomienda usarse en ambientes corrosivos o mojados) obteniéndose espesores de 5 a 12 micras.
- \* **GALVANIZADO POR INMERSIÓN EN CALIENTE.** Para este galvanizado es recomendable cuando los agentes ambientales son severos obteniéndose espesores a de  $27\mu$  (micras) como mínimo.
- \* **ACERO INOXIDABLE.** Las charolas de malla que se manufacturan con alambre de acero inoxidable se fabrican tomando en cuenta la calidad "ANSI 304" proporcionando una excelente protección anticorrosiva en ambientes de agresividad muy severa, especialmente en industrias químicas, alimentarias y salinas.

## CODIFICACIÓN DE MATERIALES Y ACABADOS

Agregar al final de cada catálogo la codificación del material

AL: Aluminio (Aluminum Association)

GIC: Acero al Carbono Galvanizado por Inmersión en Caliente según ASTM A 123

EZ: Acero al Carbono Galvanizado Electrolítico según ASTM B 633

T: Acero al Carbono Tropicalizado

INOX: Acero Inoxidable Acabado Natural

## Uses and Characteristics

TECNOMALLA (TECNOMESH) is a cable support system whose main characteristic is the lightness of its construction, they are also supports cataloged within a range of low loading capacity (see "Mechanical Loads"), its construction allows to hold voice and data cables, network, power, sound cabling.

The use of this type of tray is recommended for installation areas where there are not large amounts of dust or exposure to splashes, as well as at places where it may be exposed to severe mechanical damages. It is recommended for closed places, where favorable venting is required, such as: office ceilings, false floor, "IT" rooms, Shelters, inside use in cabinets. This system is not allowed to be used as corridor or ladder service; as well as in elevator cubes.

## Manufacturing Materials

TECNOMALLA tray is manufactured with carbon steel wire of high mechanical resistance to traction, and it may have the following finishing types and/or materials:

- \* **ELECTROLITIC GALVANIZED:** This galvanized material is recommendable when conditions and environmental agents are moderate (it is not recommended to use it in corrosive or wet environments) so getting thicknesses from 5 to 12 microns.
- \* **GALVANIZED BY HOT DIP.** This galvanized material is recommendable when environmental agents are severe, so getting thicknesses of  $27\mu$  (microns) as a minimum.
- \* **STAINLESS STEEL.** Mesh trays that are manufactured with stainless steel wire are manufactured taking into account "ANSI 304" quality, providing an excellent anti-corrosive protection in very severe aggressiveness environments, especially in chemical, food and saline industries.

## ENCODING OF MATERIALS AND FINISHING

Add at the end of each catalog code of the material encoding

AL: Aluminum (Aluminum Association)

GIC: Galvanized Carbon Steel by Hot Dip as per ASTM A 123

EZ: Electrolytic Galvanized Carbon Steel as per ASTM B633

T: Tropicalized Carbon Steel

INOX: Natural Finishing of Stainless Steel

La Charola tipo malla también se ofrece al mercado en acero al carbono con un acabado en pintura, facilitando la identificación de circuitos; los colores y las codificaciones del mismo color que se manejan para la Tecnomalla son los siguientes:

*The mesh-type Tray is offered to the market in carbon steel with a painted finishing, making easier the circuit identification; colors and encodings of the same color managed for Tecnomalla are the following:*

| COD | COLOR          |
|-----|----------------|
| B   | Blanco / White |
| R   | Rojo / Red     |
| A   | Azul / Blue    |
| V   | Verde / Green  |
| G   | Gris / Grey    |

Las charolas porta cables tipo malla tienen por norma una clasificación para la capacidad de carga basada en la NMX-J-511-ANCE-2011 dicha carga mantiene rangos de baja capacidad de carga, aplicándoles a estas cargas un valor con se presenta a continuación:

*Mesh-type cable holding trays have, as a standard, a rating for the loading capacity based on NMX-J-5-ANCE-2011 such load keeps ranges of low loading capacity, so applying these loads with a value represented as follows:*

"AA" = 18.6 kg/m

"BB" = 37.2 kg/m

CARGA / LOAD



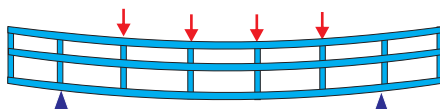
La capacidad de carga dependerá al igual que en los otros sistemas de una separación entre apoyos, dicha separación obedece a las distancias establecidas por norma, las cuales no deberán rebasarse.

*Loading capacity shall depend, just like in the other systems, of a separation between supports, and such separation is based on the distances established by the standard, which should not be surpassed.*

5 = 1.50m (5ft)

6 = 1.80m (6ft)

SEPARACIÓN ENTRE APOYOS  
SEPARATION BETWEEN SUPPORTS



## SOPORTES PARA CABLES TIPO MALLA CABLE TRAY SYSTEM WIRE MESH TYPE



**TM - 30 100 GIC**

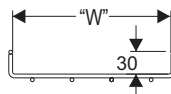
MATERIAL Y ACABADO  
ANCHO  
PERALTE  
TRAMO RECTO DE  
MALLA TECNOTRAY

- Longitud standard de la charola
- Tecnomalla: 3.00
- Todas las dimensiones son en mm

Length standard of the tray  
Tecnomalla: 3.00  
All dimensions are mm

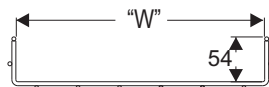
### TECNOMALLA 30

| ANCHO (W)<br>WIDTH (W) | GALVANIZADO<br>ELECTROLÍTICO<br>ELECTROGALVANIZE | GALVANIZADO POR<br>INMERSIÓN<br>HOT DIP<br>GALVANIZED STEEL | INOXIDABLE 304<br>STAINLESS 304 | INOXIDABLE 316L<br>STAINLESS 316 L |
|------------------------|--------------------------------------------------|-------------------------------------------------------------|---------------------------------|------------------------------------|
| 50                     | TM-30 50 EZ                                      | TM-30 50 GIC                                                | TM-30 50 INOX                   | TM-30 50 INOX6                     |
| 100                    | TM-30 100 EZ                                     | TM-30 100 GIC                                               | TM-30 100 INOX                  | TM-30 100 INOX6                    |
| 150                    | TM-30 150 EZ                                     | TM-30 150 GIC                                               | TM-30 150 INOX                  | TM-30 150 INOX6                    |
| 200                    | TM-30 200 EZ                                     | TM-30 200 GIC                                               | TM-30 200 INOX                  | TM-30 200 INOX6                    |
| 300                    | TM-30 300 EZ                                     | TM-30 300 GIC                                               | TM-30 300 INOX                  | TM-30 300 INOX6                    |



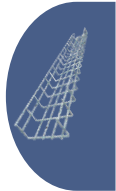
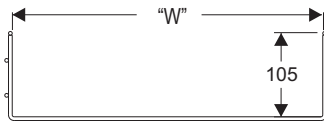
### TECNOMALLA 54

| ANCHO (W)<br>WIDTH (W) | GALVANIZADO<br>ELECTROLÍTICO<br>ELECTROGALVANIZE | GALVANIZADO POR<br>INMERSIÓN<br>HOT DIP<br>GALVANIZED STEEL | INOXIDABLE 304<br>STAINLESS 304 | INOXIDABLE 316L<br>STAINLESS 316 L |
|------------------------|--------------------------------------------------|-------------------------------------------------------------|---------------------------------|------------------------------------|
| 50                     | TM-54 50 EZ                                      | TM-54 50 GIC                                                | TM-54 50 INOX                   | TM-54 50 INOX6                     |
| 100                    | TM-54 100 EZ                                     | TM-54 100 GIC                                               | TM-54 100 INOX                  | TM-54 100 INOX6                    |
| 150                    | TM-54 150 EZ                                     | TM-54 150 GIC                                               | TM-54 150 INOX                  | TM-54 150 INOX6                    |
| 200                    | TM-54 200 EZ                                     | TM-54 200 GIC                                               | TM-54 200 INOX                  | TM-54 200 INOX6                    |
| 300                    | TM-54 300 EZ                                     | TM-54 300 GIC                                               | TM-54 300 INOX                  | TM-54 300 INOX6                    |
| 400                    | TM-54 400 EZ                                     | TM-54 400 GIC                                               | TM-54 400 INOX                  | TM-54 400 INOX6                    |
| 500                    | TM-54 500 EZ                                     | TM-54 500 GIC                                               | TM-54 500 INOX                  | TM-54 500 INOX6                    |
| 600                    | TM-54 600 EZ                                     | TM-54 600 GIC                                               | TM-54 600 INOX                  | TM-54 600 INOX6                    |



### TECNOMALLA 105

| ANCHO (W)<br>WIDTH (W) | GALVANIZADO<br>ELECTROLÍTICO<br>ELECTROGALVANIZE | GALVANIZADO POR<br>INMERSIÓN<br>HOT DIP<br>GALVANIZED STEEL | INOXIDABLE 304<br>STAINLESS 304 | INOXIDABLE 316L<br>STAINLESS 316 L |
|------------------------|--------------------------------------------------|-------------------------------------------------------------|---------------------------------|------------------------------------|
| 100                    | TM-105 100 EZ                                    | TM-105 100 GIC                                              | TM-105 100 INOX                 | TM-105 100 INOX6                   |
| 150                    | TM-105 150 EZ                                    | TM-105 150 GIC                                              | TM-105 150 INOX                 | TM-105 150 INOX6                   |
| 200                    | TM-105 200 EZ                                    | TM-105 200 GIC                                              | TM-105 200 INOX                 | TM-105 200 INOX6                   |
| 300                    | TM-105 300 EZ                                    | TM-105 300 GIC                                              | TM-105 300 INOX                 | TM-105 300 INOX6                   |
| 400                    | TM-105 400 EZ                                    | TM-105 400 GIC                                              | TM-105 400 INOX                 | TM-105 400 INOX6                   |
| 500                    | TM-105 500 EZ                                    | TM-105 500 GIC                                              | TM-105 500 INOX                 | TM-105 500 INOX6                   |
| 600                    | TM-105 600 EZ                                    | TM-105 600 GIC                                              | TM-105 600 INOX                 | TM-105 600 INOX6                   |



Conectores y tornillería no se incluyen, se venden por separado, la cantidad estará en función a los cambios de dirección según plano de instalaciones

Connectors or hardware are not include, they should be requested according with the fitting that you will make in field

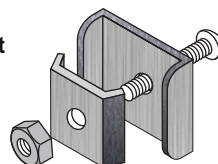
## ACCESORIOS DE ENSAMBLE SPlicing ACCESSORIES

Es la unión más simple del sistema Tecnomalla para la unión de dos charolas y consta de:

1. Unión 25
2. Unión 30
3. Juego de tornillo y tuerca de seguridad

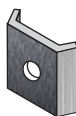
It is the simplest Tecnomalla binding system for binding two trays and comprises:

1. Union 25
2. Union 30
3. Set screw and locknut



### UNIÓN 30 CONNECTOR U-30

Código- Code U-25



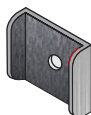
### Unión reforzada Bolstered union Washer splice kit

Los accesorios de la unión reforzada se ponen a su disposición de forma individual para los ensambles especiales que se realicen en campo.

Washer splice kit components are available individually for special assemblies in field

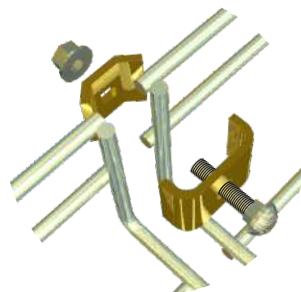
### UNIÓN 30 CONNECTOR U-30

Código-Code U-30

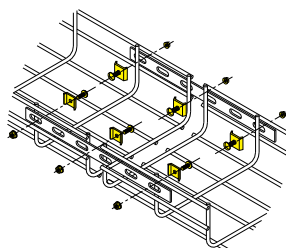


### TORNILLERÍA HARDWARE

Código TCC-1434J



| ANCHO<br>WIDTH | CANTIDAD<br>QUANTITY |    |     | ACABADOS<br>FINISHES                                                                                                                            |
|----------------|----------------------|----|-----|-------------------------------------------------------------------------------------------------------------------------------------------------|
|                | 30                   | 54 | 105 |                                                                                                                                                 |
| 50"            | 2                    | 2  |     | -Electrolítico<br>-Inmersión en caliente.<br>-Electrolitico<br>-Hot dip galvanized                                                              |
| 100"           | 3                    | 3  | 5   |                                                                                                                                                 |
| 150"           | 3                    | 3  | 5   |                                                                                                                                                 |
| 200"           | 3                    | 3  | 5   |                                                                                                                                                 |
| 300"           | 3                    | 4  | 5   | <ul style="list-style-type: none"> <li>• Inoxidable 304</li> <li>• Inoxidable 316L</li> <li>• Stainless 304</li> <li>• Stainless 316</li> </ul> |
| 400"           | 4                    | 4  | 6   |                                                                                                                                                 |
| 500"           | 5                    | 5  | 7   |                                                                                                                                                 |
| 600"           | 5                    | 5  | 7   |                                                                                                                                                 |



## CONECTOR MULTIUNIÓN Splice Bar

Códigos - Code:

MU-300 MU-300-90°

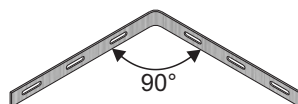
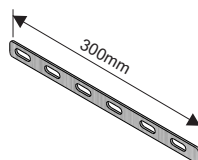
El conector unión múltiple para tramos rectos, deberá usarse con:

1. Unión-25
2. Juego de tornillo (se vende por separado)

Splice bar in straight sections should be use with

1. Conector U-25
2. Bolt

Anexar al final de la clave de catálogo la codificación del material (No incluye tornillería)



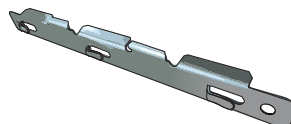
ver ensamble en pag.57

## UNIÓN CLICK Fast Connector

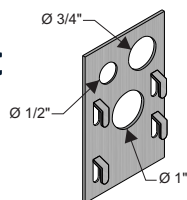
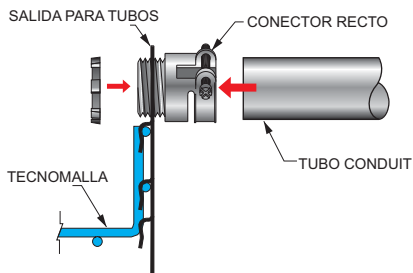
Código- Code UCM

Unión click para el ensamble de dos tramos continuos.  
No requiere tornillería para su colocación

Fast conector does not requier screws to join two straigh sections



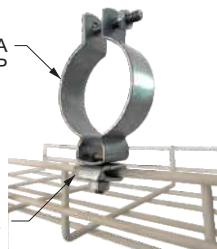
## SALIDA DE TUBO Conduit Gland Bracket



Uso con conector recto para conduit metálico flexible  
Ø 1/2"  
Ø 3/4"  
Ø 1"

ABRAZADERA TIPO CLIP

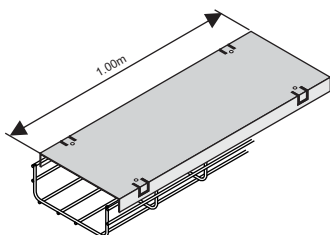
UNIÓN REFORZADA



## TAPA - Cover

La tapa se surte en tramos de 1.00 m y cuando es acabado en galvanizado se parte de lámina pregalvanizada, no se fabrican tapas para accesorios.

*The cover is supplied in pieces of 1.00 m and when finishing is galvanized, it starts from a pre-galvanized plate, no covers are manufactured for accessories, since they are assembled on field from straight pieces.*



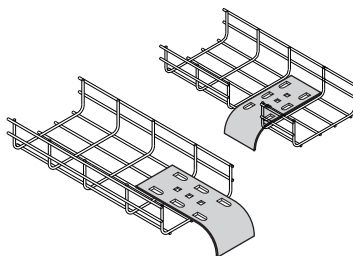
| CÓDIGO<br>CODE | ANCHO<br>CHAROLA<br>WIDTH TRAY |
|----------------|--------------------------------|
| TPM-50         | 50                             |
| TPM-100        | 100                            |
| TPM-150        | 150                            |
| TPM-200        | 200                            |
| TPM-300        | 300                            |
| TPM-400        | 400                            |
| TPM-500        | 500                            |
| TPM-600        | 600                            |

## BAJADA PARA CABLES DROP OUT

**Código - Code BCM-10R50**

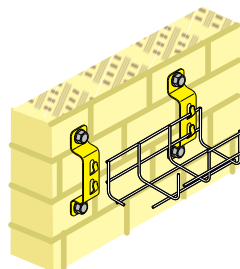
BAJADA DE CABLES  
ANCHO 10 cm Y RADIO  
DE CURVATURA 5 cm

Width 10 cm & Radio 5 cm



## SOPORTE 60 - SUPPORT 60

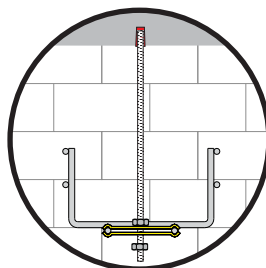
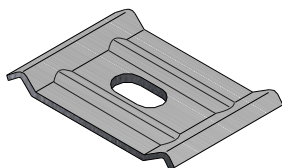
**Código- Code S60**



## ACCESORIOS DE SOPORTES COLGANTES DE SERVICIO LIGERO ACCESSORIES FOR HANGING SUPPORTS OF LIGHT DUTY

### SUSPENSIÓN CENTRAL Central Hanging Plate

Código- Code : SCL-38



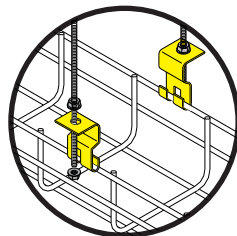
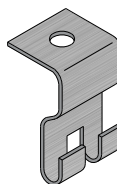
No incluye varilla ni tornillería  
ROD NOT INCLUDED

### CLIP COLGANTE - Hanging Clamp

Código CC

El soporte "Suspensión Colgante" se usa con central se usa con 1 varilla, 2 tuercas y 2 rondanas planas de 3/8" no incluidas (se venden por separado).

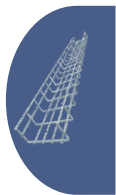
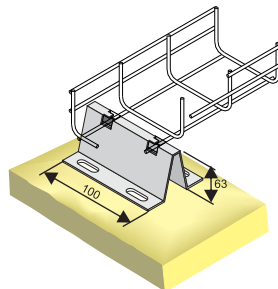
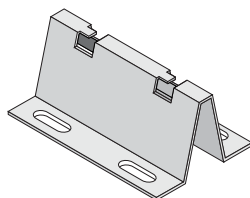
*THE "Hanger Clamp" support is used with a center, it is used with 1 rod, 2 nuts and 2 3/8" flat washers not included (sold separately).*



### SOPORTE PARA PISO.-. Floor Support

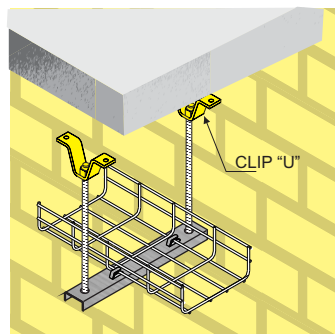
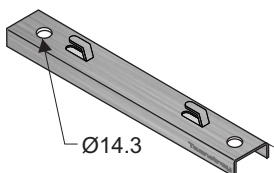
Código- Code SPTM-100

- \* Soporte para fijación de Tecnomalla al piso, fabricada en acero con los siguientes acabados: / Support for finishing Tecnomalla to the floor, manufactured in steel with the following finishing:
- \* Lámina galvanizada / Galvanized plate
- \* Acero inoxidable 304 / Stainless steel 304
- \* Acero inoxidable 316 / Stainless steel 316



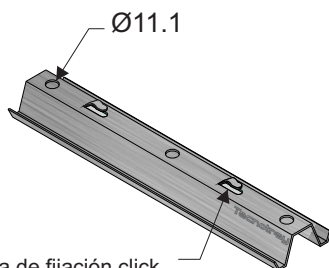
## CANAL HORIZONTAL PARA TIPO MALLA Horizontal Channel

| CÓDIGO<br>CODE | ANCHO<br>CHAROLA |
|----------------|------------------|
| CTMCK-100      | 100              |
| CTMCK-150      | 150              |
| CTMCK-200      | 200              |
| CTMCK-300      | 300              |
| CTMCK-400      | 400              |
| CTMCK-500      | 500              |
| CTMCK-600      | 600              |



Se usan varillas de 1/2", tuercas, contratueras y rondanas planas de 1/2" no incluidas (se venden por separado)

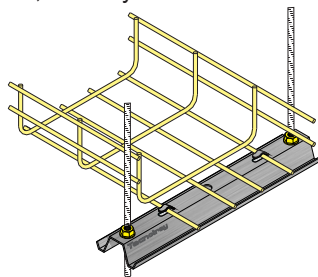
## SUSPENSIÓN CLICK Click Hanger



Sistema de fijación click

### Tipo Trapecio (uso con 2 varillas)

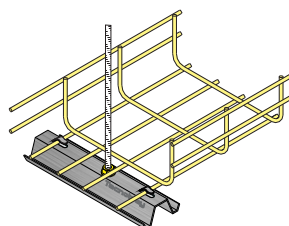
Tipo trapecio para uso con dos varillas de 3/8", tuerca y contratuerca de 3/8"



| ANCHO<br>CHAROLA | CÓDIGO- CODE |            |
|------------------|--------------|------------|
|                  | 1 VARILLA    | 2 VARILLAS |
| 100              | SCCK-100     | SCK-100    |
| 150              |              | SCK-150    |
| 200              | SCCK-200     | SCK-200    |
| 300              | SCCK-300     | SCK-300    |
| 400              |              | SCK-400    |
| 500              |              | SCK-500    |
| 600              |              | SCK-600    |

### Tipo Central (uso con 1 varilla)

Tipo colgante para uso con una varilla al centro de 3/8", tuerca y contratuerca de 3/8"

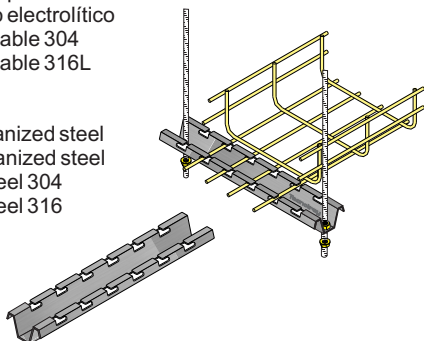


No incluye tornillería para fijación al piso

## CANAL HORIZONTAL DENTADO Channel Horizontal Support

### Código - Code: CUD

- ⊕ Acabados:
- ⊕ Galvanizado por inmersión en caliente
- ⊕ Galvanizado electrolítico
- ⊕ Acero inoxidable 304
- ⊕ Acero inoxidable 316L
- ⊕ Aluminio
  
- ⊕ Hot dip galvanized steel
- ⊕ Electrogalvanized steel
- ⊕ Stainless steel 304
- ⊕ Stainless steel 316
- ⊕ Aluminum



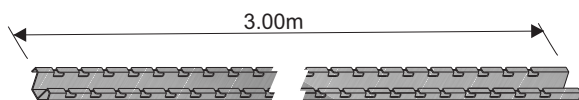
| CÓDIGO<br>CODE | ANCHO<br>WIDTH | LONGITUD<br>"L" |
|----------------|----------------|-----------------|
| CUD-100        | 100            | 200             |
| CUD-150        | 150            | 250             |
| CUD-200        | 200            | 300             |
| CUD-300        | 300            | 400             |
| CUD-400        | 400            | 500             |
| CUD-500        | 500            | 600             |
| CUD-600        | 600            | 700             |

*Nota: Al final del número de catálogo indicar material y acabado (ver codificación de acabados)*

*Note: At the end of the catalog number, indicate material and finishing (see finishing encoding)*

## CANAL UNIVERSAL DENTADO Channel Universal Support

| CÓDIGO   | ANCHO mm<br>"W" |
|----------|-----------------|
| CUD-3000 | 3.00            |

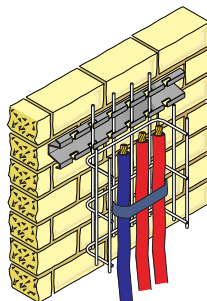
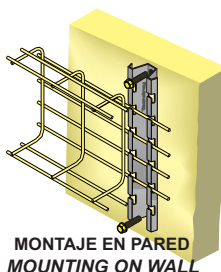
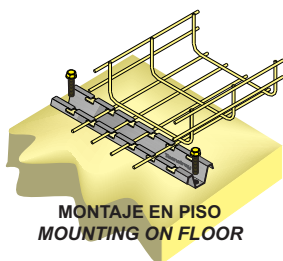


El canal universal dentado puede solicitarlo en su presentación de 3.00m para hacer los cortes que usted crea convenientes para la instalación de la charola tipo malla.

Los arreglos que pueden generarse con este canal son: la fijación a muro y a piso. Debido a los espacios limitados en obra, usted puede hacer instalaciones mas compactas.

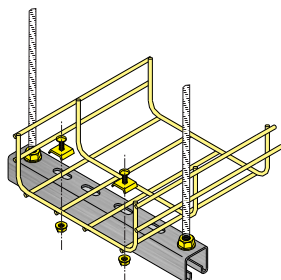
*The universal channel support may be ordered in its presentation of 3.00m in order to make the cuts deemed convenient for the installation of the mesh-type tray.*

*Arrangements that may be generated with this channel are: fixing to a wall and to the floor. Due to limited spaces in a construction work, you may perform more compact installations.*

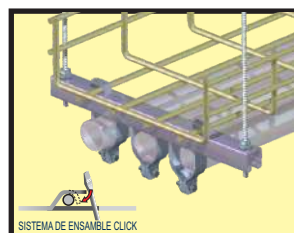
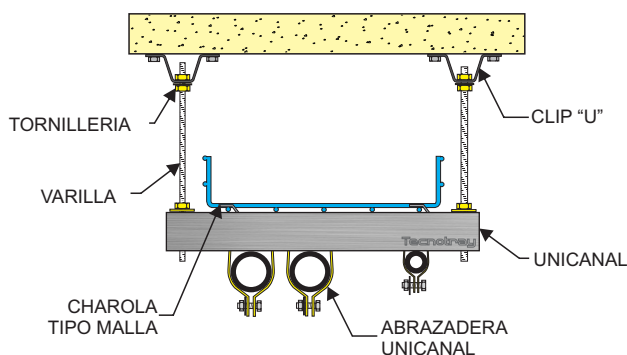




## SUSPENSIÓN UNICANAL Strut For Trapeze Hanger

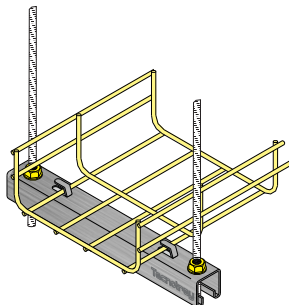


| CÓDIGO<br>CODE | ANCHO<br>WIDTH |
|----------------|----------------|
| SU-100         | 100            |
| SU-150         | 150            |
| SU-200         | 200            |
| SU-300         | 300            |
| SU-400         | 400            |
| SU-500         | 500            |
| SU-600         | 600            |



Los soportes vienen troquelados para colocar varillas de ½" en los extremos, la tornillería y las abrazaderas se venden por separado.

## UNICANAL CLICK Click Strut For Trapeze Hanger



| CÓDIGO<br>CODE | ANCHO<br>WIDTH |
|----------------|----------------|
| SUCK-100       | 100            |
| SUCK-150       | 150            |
| SUCK-200       | 200            |
| SUCK-300       | 300            |
| SUCK-400       | 400            |
| SUCK-500       | 500            |
| SUCK-600       | 600            |

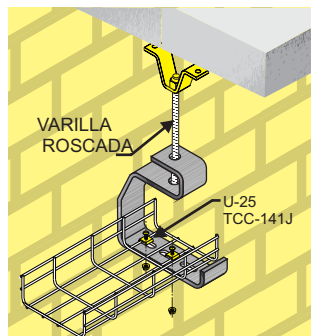
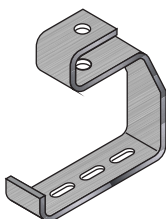
## SUSPENSIÓN GANCHO COLGANTE Hanger Support

Usa varillas de ½, tuercas, contratuercas y rondanas planas de ½" no incluidas (se venden por separado).

La fijación de la charola se llevará a cabo con la unión-25 y un juego de tornillo de 1/4"x1" de longitud.

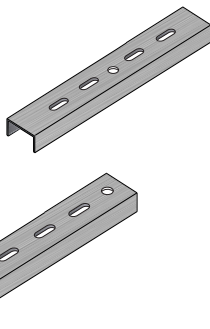
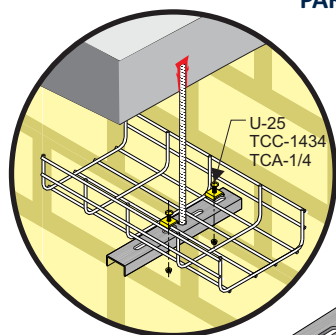
*Use ½ rods, nuts, locknuts and ½" flat washers, not included (sold separately).*

*Fixing of the tray shall be carried out with Union-25 and a set of ¼" screw x 1" length.*



## CANAL DE SOPORTE CENTRAL Channel for Support

**PARA USO CON 2 VARILLAS**  
*FOR USING WITH 2 RODS*



**PARA USO CON 1 VARILLA**  
*FOR USING WITH 1 ROD*

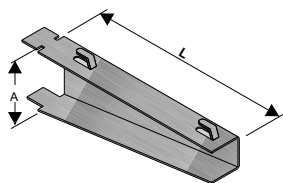
| CÓDIGO<br>CODE | ANCHO<br>WIDTH |
|----------------|----------------|
| CCM-100        | 100            |
| CCM-200        | 200            |
| CCM-300        | 300            |

| CÓDIGO<br>CODE | ANCHO<br>CHAROLA |
|----------------|------------------|
| CTM-100        | 100              |
| CTM-150        | 150              |
| CTM-200        | 200              |
| CTM-300        | 300              |
| CTM-400        | 400              |
| CTM-500        | 500              |
| CTM-600        | 600              |

El canal de soporte central se usa con 1 varilla, 2 tuercas y 2 rondanas planas de 3/8" no incluidas (se venden por separado); la fijación de la charola se llevará a cabo con la unión -25 y un juego de tornillería de 1/4".

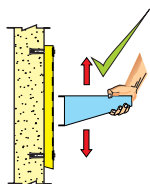
*The channel for support is used with 1 rod, 2 nuts and 2-3/8" flat washers, not included (sold separately); fixation of the tray shall be carried out with link-25 and a set of ¼" screws.*

## SOPORTES A PARED MÉNSULA DE INSERCIÓN CLICK Insertion Bracket Click



| CÓDIGO<br>CODE | W<br>ANCHO<br>WIDTH<br>mm | A<br>ALTURA<br>mm | L<br>LONG. DE LA BASE<br>mm | CARGA<br>SOPORTADA<br>kg |
|----------------|---------------------------|-------------------|-----------------------------|--------------------------|
| MICK-100       | 100                       | 79                | 127                         | 345                      |
| MICK-150       | 150                       |                   | 177.8                       | 325                      |
| MICK-200       | 200                       |                   | 254                         | 315                      |
| MICK-300       | 300                       |                   | 330.2                       | 270                      |
| MICK-400       | 400                       | 117               | 431.8                       | 245                      |
| MICK-500       | 500                       |                   | 533.4                       | 190                      |
| MICK-600       | 600                       |                   | 635                         | 160                      |

Las ventajas que podemos encontrar en una instalación que cuente con una ménsula de inserción son: / The advantages you may find in an installation having an insertion bracket are:



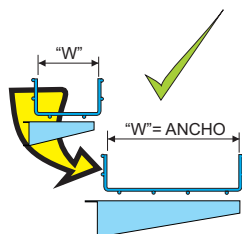
Una vez instalado el canal vertical, la ménsula se ajusta a diferentes alturas, esto es cuando se tienen cambios de nivel no previstos.

Once having installed the vertical channel, the bracket is adjusted at different heights, this is when there are unforeseen level changes.



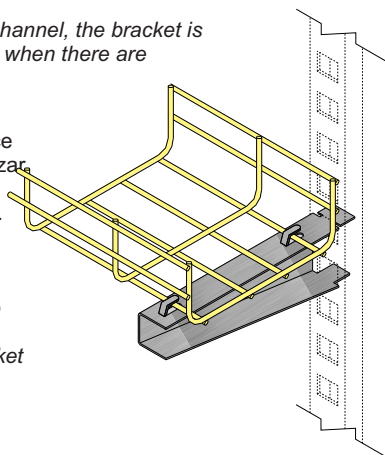
Al poder ajustar su altura, se reduce el tiempo ya que no tiene que realizar nuevas preparaciones, sino solo trasladar manualmente la ménsula.

When it is not possible to adjust height, time is reduced because no new preparations have to be done, but you should only move the bracket manually.



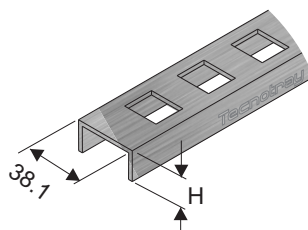
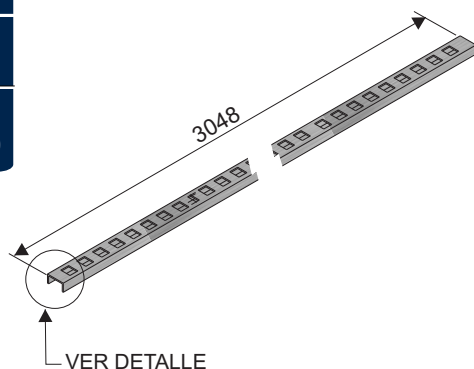
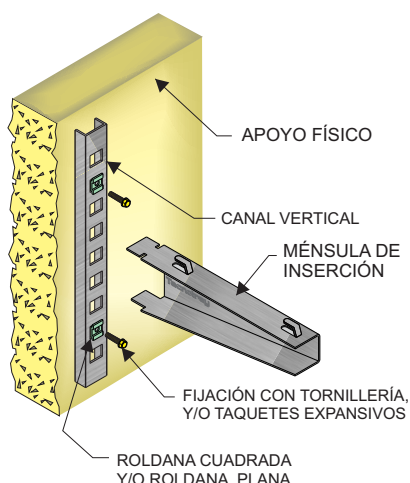
El apoyo sobre el canal vertical nos permite realizar cambios de ancho de las ménsulas, sin tener que hacer otro barrenado o fijar otro tipo de anclaje (solo quite la ménsula y coloque otra de mayor tamaño).

The support on the vertical channel will allow us to make changes in width of the brackets without having to do another drilling or fixing other type of anchor (just remove the bracket and place another one of greater size).

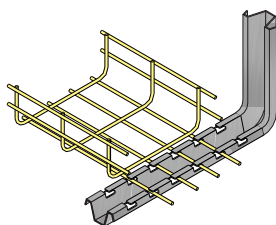


## CANAL VERTICAL Vertical Channel

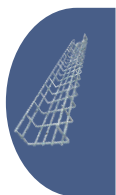
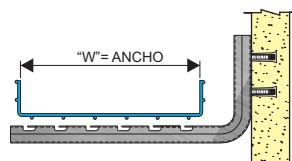
| DESCRIPCIÓN                     | CÓDIGO | "H"          |
|---------------------------------|--------|--------------|
| CANAL VERTICAL<br>POCO PROFUNDO | CV-01  | 19 (3/4")    |
| CANAL VERTICAL<br>PROFUNDO      | CV-02  | 31.8 (11/2") |



## MÉNSULA TIPO "L" DENTADA Bracket "L"

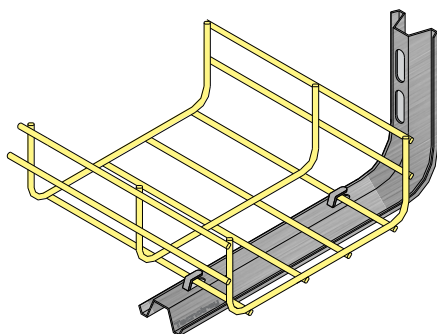


| CÓDIGO  | ANCHO mm<br>"W" |
|---------|-----------------|
| MLD-100 | 100             |
| MLD-150 | 150             |
| MLD-200 | 200             |
| MLD-300 | 300             |
| MLD-400 | 400             |

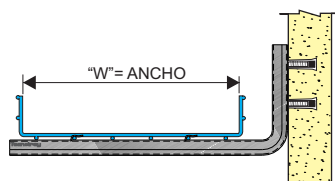


Nota: Al final del número de catálogo indicar material y acabado (ver codificación de acabados)

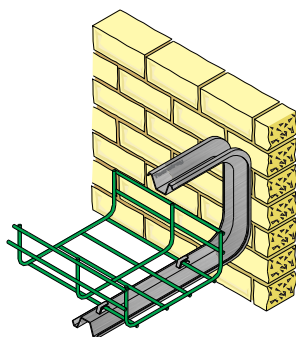
## MÉNSULA OMEGA CLICK TIPO "L" Omega Bracket Click "L"



| CÓDIGO  | ANCHO<br>WIDTH<br>mm "W" |
|---------|--------------------------|
| MOL-100 | 100                      |
| MOL-150 | 150                      |
| MOL-200 | 200                      |
| MOL-300 | 300                      |
| MOL-400 | 400                      |

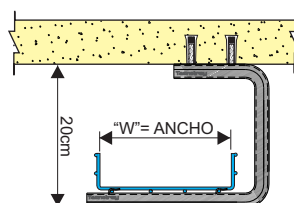
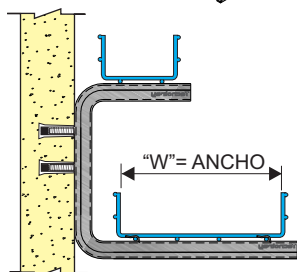


## MÉNSULA OMEGA CLICK TIPO "C" A TECHO Omega Bracket Click "L" to roof



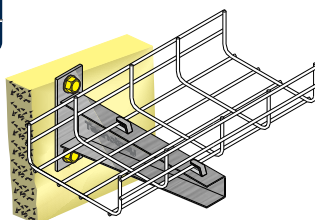
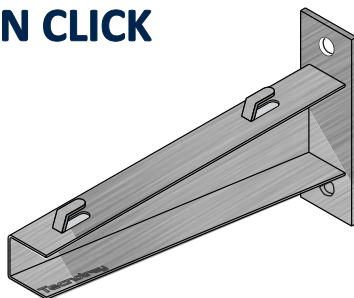
| CÓDIGO  | ANCHO<br>WIDTH<br>mm "W" |
|---------|--------------------------|
| MOC-100 | 100                      |
| MOC-150 | 150                      |
| MOC-200 | 200                      |
| MOC-300 | 300                      |
| MOC-400 | 400                      |

Nota: Al final del número de catálogo indicar material y acabado (ver condificación de acabados)



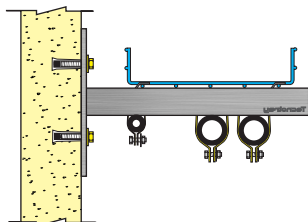
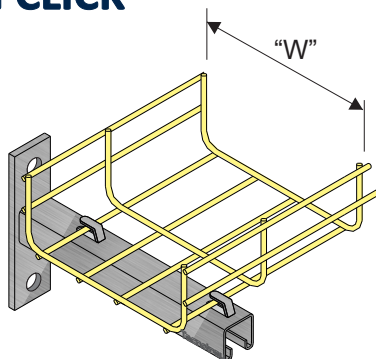
## MÉNSULA PARED Y CON CLICK Wall Bracket &Click

| CÓDIGO   | ANCHO<br>CHAROLA |
|----------|------------------|
| MPCK-100 | 100              |
| MPCK-150 | 150              |
| MPCK-200 | 200              |
| MPCK-300 | 300              |
| MPCK-400 | 400              |
| MPCK-500 | 500              |
| MPCK-600 | 600              |



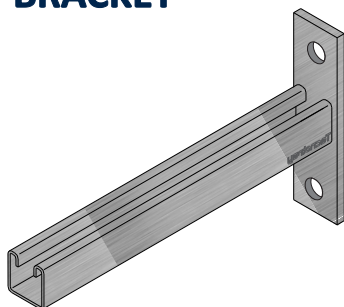
## BRAZO UNICANAL UNIÓN CLICK Bracket Strut Joint Click

| CÓDIGO<br>CODE | ANCHO<br>WIDTH |
|----------------|----------------|
| BUCK-100       | 100            |
| BUCK-150       | 150            |
| BUCK-200       | 200            |
| BUCK-300       | 300            |
| BUCK-400       | 400            |
| BUCK-500       | 500            |
| BUCK-600       | 600            |

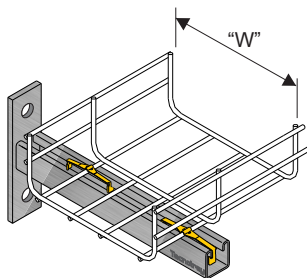


El brazo unicanal es un soporte que tiene la ventaja de llevar dos instalaciones de diferente tipo en el mismo soporte, por la parte superior se deberá instalar la charola tipo malla y por la parte inferior podrá fijarse la tubería conduit con abrazaderas unicanal marca TECNOTRAY.

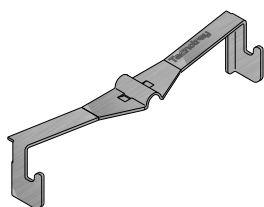
## BRAZO UNICANAL STRUT BRACKET



| CÓDIGO<br>CODE | ANCHO<br>WIDTH |
|----------------|----------------|
| BU-100         | 100            |
| BU-150         | 150            |
| BU-200         | 200            |
| BU-300         | 300            |
| BU-400         | 400            |
| BU-500         | 500            |
| BU-600         | 600            |



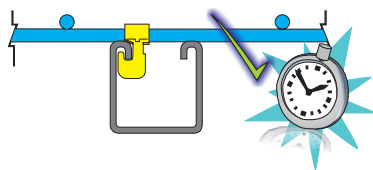
## CLIP DE FIJACIÓN A UNICANAL STRUT MOUNTING CLIP



**FMU**

No requiere tornillería, sin herramienta especial, tiempos óptimos de instalación, colocación manual.

Fabricado de acero al carbono con un acabado en galvanizado electrolítico



Cuando se trata de soportería con unicanal Mca. TECNOTRAY. (Ver catálogo de unicanal) El clip de fijación de charola tipo malla A Unicanal, es un accesorio que le permite una mayor rapidez en las instalaciones que cualquier otro dispositivo.

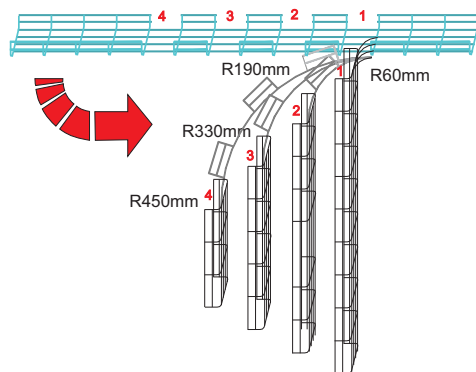
## ENSAMBLE DE ACCESORIOS FITTINGS ASSEMBLY

El formado de curvas verticales se logra al cortar las secciones laterales de la charola tipo malla, se deberán seleccionar previamente dichas secciones para generar el radio que permite hacer el cambio de dirección o librar algún elemento estructural.

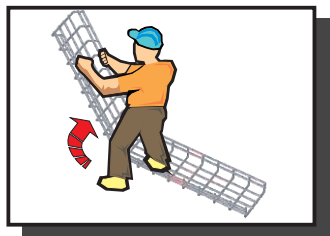
No se requiere de maquinaria especial para el formado de curvas verticales, solo la protección necesaria (guantes y botas) para doblar la varilla con la fuerza física del instalador.

*The vertical bends format is achieved by cutting the side sections of the mesh-type tray, these sections must be previously selected to generate the radius that allows the change of direction or release some structural element.*

*Special machinery is not required for the formation of vertical bends, only the necessary protection (gloves and boots) to fold the rod with the physical strength of the installer.*



## CURVAS VERTICALES Vertical Bends

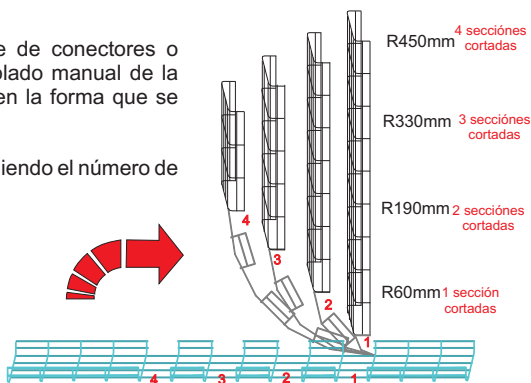


El formado de una curva vertical no requiere de conectores o accesorios de ensamble extras, ya que el doblado manual de la charola mantiene los alambres con el doblé en la forma que se requiera.

Se pueden generar los siguientes radios dependiendo el número de secciones cortadas (marcadas con números).

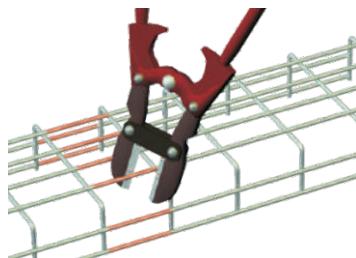
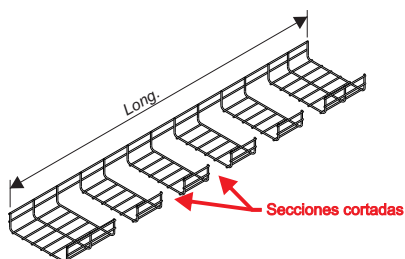
*The vertical bend format does not require extra connectors or assembly fittings, since the manual folding of the tray keeps the wires with the fold in the required shape.*

*The next radius can be generated depending on the number of sections cut (marked with numbers).*





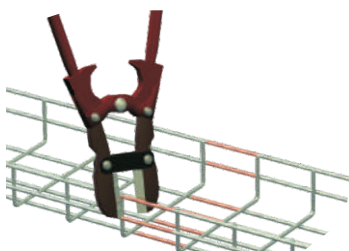
## ENSAMBLE CURVA HORIZONTAL Horizontal Bends



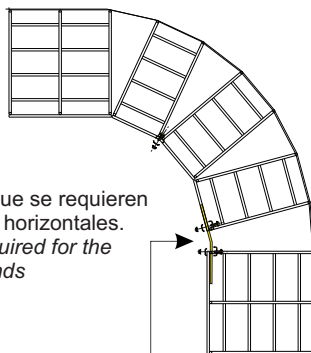
Para generar una curva se deberán cortar secciones de un tramo recto, el número de secciones a cortar se determinan en campo y está en función del ancho de la Tecnomalla.

*To generate a bend, cut sections of a straight section, the number of sections to be cut is determined in the site and it is in function of the width of the Tecnomalla.*

### 1. CORTAR / CUT

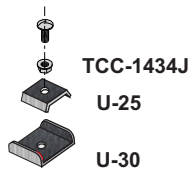
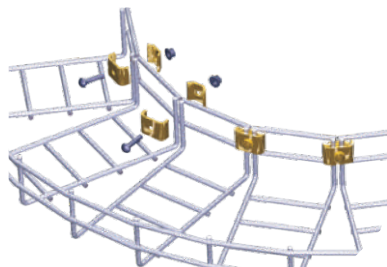


### 2. DOBLAR / BEND



Accesorios de ensamble que se requieren para el formado de curvas horizontales.  
*Assembly accessories required for the formation of horizontal bends*

### 3. UNIR / JOIN

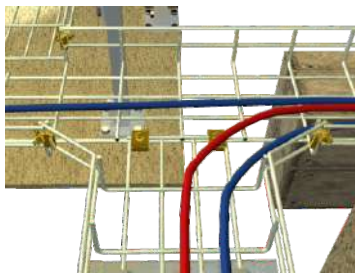
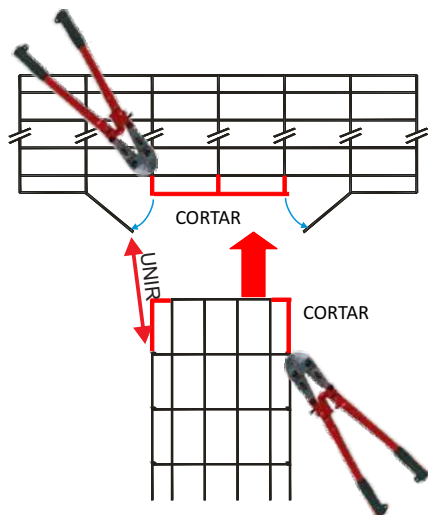


**UNIÓN MÚLTIPLE  
MULTIPLE - JUNCTION**

La unión múltiple se utiliza para hacer los ajustes de ensamble de curvas en campo.  
*The multiple-junction is used to make the bends assembly settings in site.*

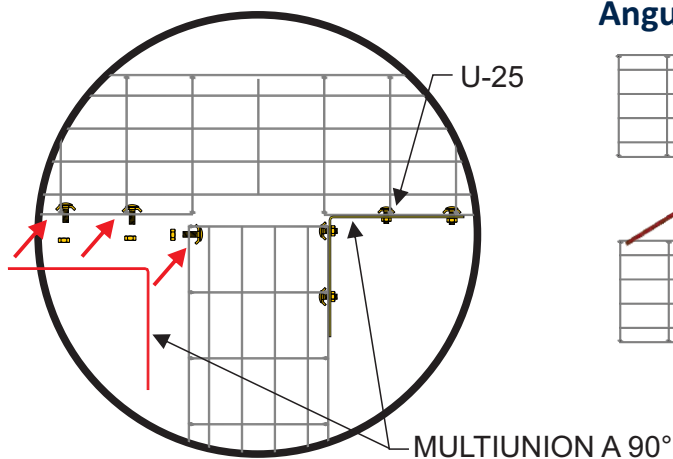
## ENSAMBLE T HORIZONTAL Horizontal Beend Tee

Ángulo abierto- Open angle

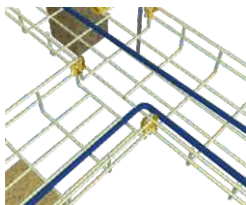
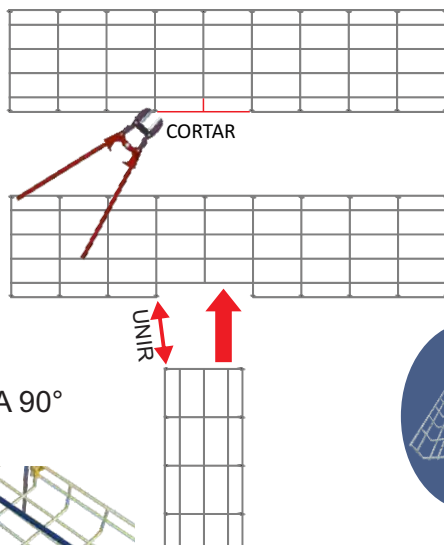


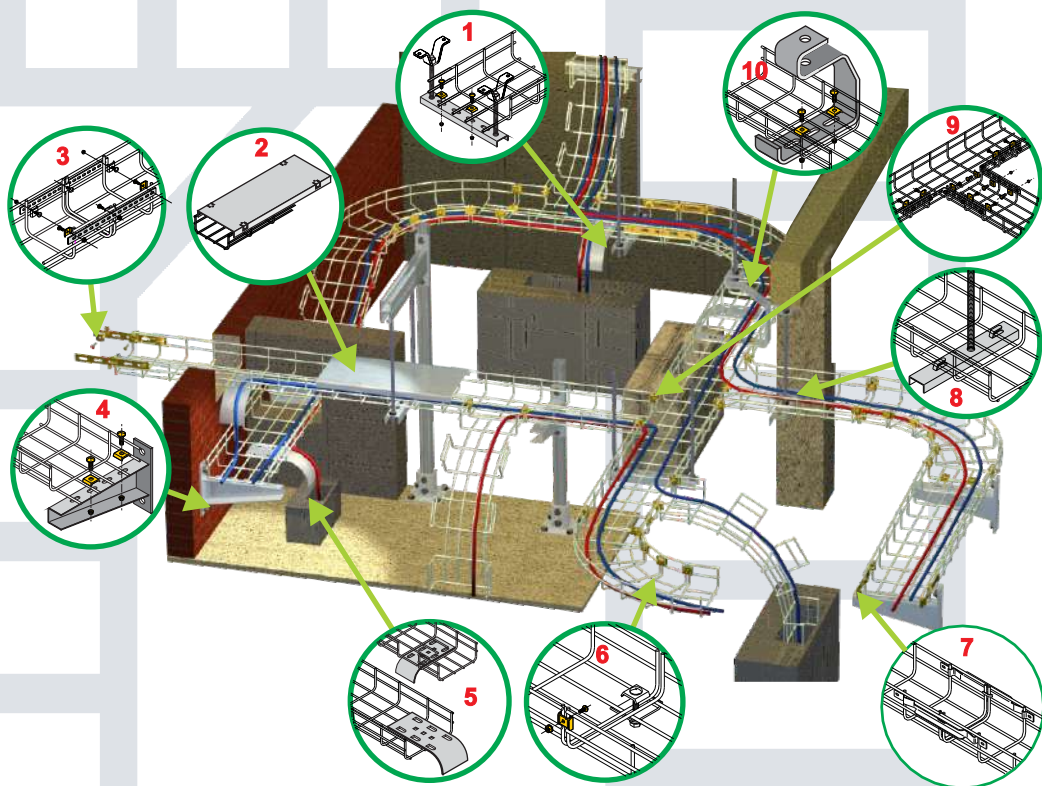
Se deberán cortar la varillas indicadas en color rojo

Ángulo cerrado- Angle closed



ENSAMBLE DE CHAROLA CON EL CONECTOR UNIÓN MÚLTIPLE A 90°, PARA FORMAR UNA TEE DEL MISMO ANCHO EN SUS TRES DERIVACIONES.





- 1.- Soporte tipo trapecio
- 2.- Tapa plana
- 3.- Multiunión
- 4.- Ménsula a pared
- 5.- Bajada para cables
- 6.- Unión reforzada
- 7.- Unión rapida
- 8.- Soporte central
- 9.- Unión "T" (Multiunión)
- 10.- Colgante

- 1.-Hanger Trapeze Support
- 2.-Cover
- 3.-Splice Bar
- 4.-Wall Bracket
- 5.-Drop Out
- 6.-Washer Splice Kit
- 7.-Fast Connector
- 8.-Central Support
- 9.-Cconnector "T"
- 10.-Hanger Support

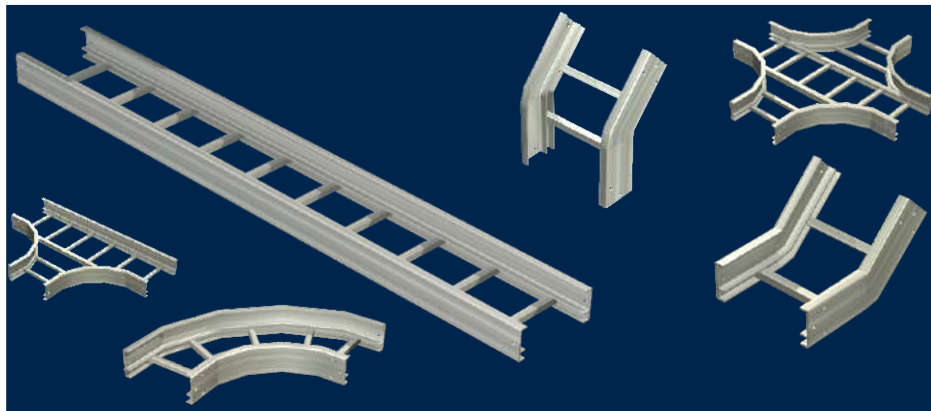
Los productos que ofrece Tecnotray cuentan con certificación y son de alta calidad



# **CHAROLA TIPO ESCALERA DE FIBRA DE VIDRIO**

**FIBER GLASS CABLE TRAY SYSTEM LADDER TYPE**

## SISTEMA DE BANDEJAS PORTA CABLES NO METÁLICO (FIBRA DE VIDRIO) System nonmetallic cable trays (FIBERGLASS)



- El sistema de bandejas porta cables tipo escalera de Tecnotray esta diseñada bajo las especificaciones de las normas publicadas por: NEMA Standard Publication No. FG1 Sistema de bandejas porta cables de Fibra de Vidrio y La Norma Oficial Mexicana NOM-001-SEDE-2012 Art. 392, bandejas porta cables.
- La norma ASTM usada comúnmente para definir las propiedades físicas de los materiales de fabricación.
- ° The cable tray system of Tecnotray FIBERGLASS ladder the designed to the specifications of the standards published by NEMA Standards Publication No.FG1 System cable trays fiberglass and the National Electric Code Article 318 cable trays.
- ° ASTM commonly used to define the physical properties of the materials of manufacture.

### Normas para cargas - Standards for loads

- Basados en un apoyo de 6 metros y bajo la norma NEMA FG1, las cargas de las bandejas porta cables se clasifican en:
- ° Based on a support of 6 meters and under the NEMA Fg1 loads of cable trays are classified as:

| CLASE | CARGA / LOAD         |
|-------|----------------------|
| A     | 74 Kg/m (50 lb/ft)   |
| B     | 112 Kg/m (75 lb/ft)  |
| C     | 149 Kg/m (100 lb/ft) |

### Especificaciones del producto - Product specifications

- Las bandejas porta cables son fabricados por sistemas de perfiles estructurales de plásticos reforzados en fibra de vidrio por el método de pultrusión en resina de elevada calidad y características excepcionales
- The cable trays are manufactured by profile systems in reinforced plastics structural fiberglass pultrusion by the method of resin of high quality and performance features.

- Se componen de los sistemas de resina poliéster o vinilester de alta resistencia que se aplica a ambientes corrosivos.
- Aplicamos un refuerzo de velo de fibra de vidrio en la superficie interior y exterior de los perfiles para mejorar la resistencia a la intemperie.
- System are composed of polyester or high resistance that is applied to corrosive environments
- The glass fiber impregnated resin have profiles that make high quality standars.
- Apply a reinforcement of fiberglass veil on the inner and outer surfaces of the profiles to improved resistance to weathering.

## Diseño estructural STRUCTURAL DESIGN

Las bandejas porta cables de tipo escalera usan perfiles principales tipo E y son E100 y E150 de estructura exterior. Los peldaños son perfiles cuadrados 25 x 25 del mismo material que los perfiles principales.

El adhesivo epóxico de unión de los perfiles principales con los peldaños permite una fijación mecánica mayor al tipo de perfil E asegurando una mejor estructura.

La altura de las escalerillas porta cables son:

The cable trays used ladder-type E and type main profiles are E100X30X4 and external structural E150X40X4, the steps are 25x25x3 square profiles of the same material as the main runners

The epoxy adhesive bonding of the main profiles with rungs allows a greater mechanical attachment to the E type of profile assuring a better structure.

| PERFIL - RAIL                       | TIPO "E" | TIPO "E" |
|-------------------------------------|----------|----------|
| PERALTE NOMINAL<br>SIDE RAIL HEIGHT | 100      | 150      |
| PERALTE UTIL<br>LOADING DEPTH       | 67       | 113      |

## Material y Calidad - Material and Quality

El sistema de soportería para cables fabricado en fibra de vidrio marca Tecnotray es un sistema diseñado para las condiciones más severas que brinda seguridad y rigidez "GRP" en su instalación comparado con los sistemas metálicos tradicionales. Las características que hacen del sistema de fibra de vidrio Tecnotray un sistema superior son:

- Alta resistencia contra rayos ultravioleta e intemperismo.
- Autoextinguibles y retardante de fuego.
- Resistencia a la temperatura
- Gran resistencia mecánica
- Facilidad de instalación.

Fiberglass Cable tray support System tecnotray Brand, is a system designed for adverse conditions with security and rigidity (GRP) in your installation compared to traditional metallic systems. The main characteristics which make fiberglass System better than other are:

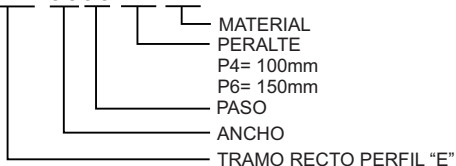
- High resistance against UV rays and weathering.
- Self-extinguishing and fire retardant.
- Temperature resistance.
- High mechanical resistance.
- Easy to install.



## CHAROLA TIPO ESCALERA DE FIBRA DE VIDRIO FIBER GLASS LADDER TYPE



### TRE-0606-P\*-FV



| ANCHO (W)<br>mm (pulg)<br>WIDTH (W) | PASO           |                |                |
|-------------------------------------|----------------|----------------|----------------|
|                                     | 152.4 (6")     | 228.6 (9")     | 304.8 (12")    |
| 152.4 (6")                          | TRE-0606-P*-FV | TRE-0609-P*-FV | TRE-0612-P*-FV |
| 228.6 (9")                          | TRE-0906-P*-FV | TRE-0909-P*-FV | TRE-0912-P*-FV |
| 304.8 (12")                         | TRE-1206-P*-FV | TRE-1209-P*-FV | TRE-1212-P*-FV |
| 406.4 (16")                         | TRE-1606-P*-FV | TRE-1609-P*-FV | TRE-1612-P*-FV |
| 457.2 (18")                         | TRE-1806-P*-FV | TRE-1809-P*-FV | TRE-1812-P*-FV |
| 508.0 (20")                         | TRE-2006-P*-FV | TRE-2009-P*-FV | TRE-2012-P*-FV |
| 609.6 (24")                         | TRE-2406-P*-FV | TRE-2409-P*-FV | TRE-2412-P*-FV |
| 762.0 (30")                         | TRE-3006-P*-FV | TRE-3009-P*-FV | TRE-3012-P*-FV |
| 914.4 (36")                         | TRE-3606-P*-FV | TRE-3609-P*-FV | TRE-3612-P*-FV |



\*Agregar 4 si es peralte de 100mm ó 6 si es peralte de 150mm.

\*Add 4 if height of 100 mm or 6 if height of 150 mm .

## CURVA HORIZONTAL 45° / 90° HORIZONTAL BEND 45° / 90°

| ANCHO (W)<br>mm (pulg)<br>WIDTH (W) | RADIO             |                   |                   |
|-------------------------------------|-------------------|-------------------|-------------------|
|                                     | 304.8 (12")       | 609.6 (24")       | 914.4 (36")       |
| 152.4 (6")                          | CHE-0612-**-P*-FV | CHE-0624-**-P*-FV | CHE-0636-**-P*-FV |
| 228.6 (9")                          | CHE-0912-**-P*-FV | CHE-0924-**-P*-FV | CHE-0936-**-P*-FV |
| 304.8 (12")                         | CHE-1212-**-P*-FV | CHE-1224-**-P*-FV | CHE-1236-**-P*-FV |
| 406.4 (16")                         | CHE-1612-**-P*-FV | CHE-1624-**-P*-FV | CHE-1636-**-P*-FV |
| 457.2 (18")                         | CHE-1812-**-P*-FV | CHE-1824-**-P*-FV | CHE-1836-**-P*-FV |
| 508.0 (20")                         | CHE-2012-**-P*-FV | CHE-2024-**-P*-FV | CHE-2036-**-P*-FV |
| 609.6 (24")                         | CHE-2412-**-P*-FV | CHE-2424-**-P*-FV | CHE-2436-**-P*-FV |
| 762.0 (30")                         | CHE-3012-**-P*-FV | CHE-3024-**-P*-FV | CHE-3036-**-P*-FV |
| 914.4 (36")                         | CHE-3612-**-P*-FV | CHE-3624-**-P*-FV | CHE-3636-**-P*-FV |



\*\* colocar los grados 45° ó 90°

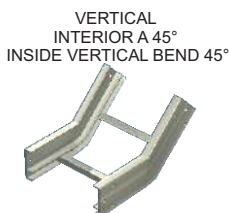
\*Agregar 4 si es peralte de 100mm ó 6 si es peralte de 150mm.

\*\*Place grade 45° & 90°

\*Add if height of 100 mm or 6 if height of 150 mm



## CURVA VERTICAL INTERIOR Y EXTERIOR 45°/90° VERTICAL OUTSIDE & INSIDE BEND



| ANCHO WIDTH<br>(W)<br>mm (pulg) | RADIO               |                     |                     |
|---------------------------------|---------------------|---------------------|---------------------|
|                                 | 304.8 (12")         | 609.6 (24")         | 914.4 (36")         |
| 152.4 (6")                      | V'E-0612-**-P***-FV | V'E-0624-**-P***-FV | V'E-0636-**-P***-FV |
| 228.6 (9")                      | V'E-0912-**-P***-FV | V'E-0924-**-P***-FV | V'E-0936-**-P***-FV |
| 304.8 (12")                     | V'E-1212-**-P***-FV | V'E-1224-**-P***-FV | V'E-1236-**-P***-FV |
| 406.4 (16")                     | V'E-1612-**-P***-FV | V'E-1624-**-P***-FV | V'E-1636-**-P***-FV |
| 457.2 (18")                     | V'E-1812-**-P***-FV | V'E-1824-**-P***-FV | V'E-1836-**-P***-FV |
| 508.0 (20")                     | V'E-2012-**-P***-FV | V'E-2024-**-P***-FV | V'E-2036-**-P***-FV |
| 609.6 (24")                     | V'E-2412-**-P***-FV | V'E-2424-**-P***-FV | V'E-2436-**-P***-FV |
| 762.0 (30")                     | V'E-3012-**-P***-FV | V'E-3024-**-P***-FV | V'E-3036-**-P***-FV |
| 914.4 (36")                     | V'E-3612-**-P***-FV | V'E-3624-**-P***-FV | V'E-3636-**-P***-FV |

\* Colocar "E" si es Exterior o "I" si es interior

\*\* Colocar los grados 45° ó 90°

\*\*\* Agregar 4 si es peralte de 100mm ó 6 si es peralte de 150mm.

\*Place "E" if exterior or "I" if inside

\*\*Place grade 45° or 90°

\*\*\*Add 4 if height of 100 mm or 6 if height of 150 mm .

## "T" HORIZONTAL HORIZONTAL TEE

| ANCHO<br>WIDTH (W)<br>mm (pulg) | RADIO             |                   |                   |
|---------------------------------|-------------------|-------------------|-------------------|
|                                 | 304.8 (12")       | 609.6 (24")       | 914.4 (36")       |
| 152.4 (6")                      | THE-0606-12-P*-FV | THE-0606-24-P*-FV | THE-0606-36-P*-FV |
| 228.6 (9")                      | THE-0909-12-P*-FV | THE-0909-24-P*-FV | THE-0909-36-P*-FV |
| 304.8 (12")                     | THE-1212-12-P*-FV | THE-1212-24-P*-FV | THE-1212-36-P*-FV |
| 406.4 (16")                     | THE-1616-12-P*-FV | THE-1616-24-P*-FV | THE-1616-36-P*-FV |
| 457.2 (18")                     | THE-1818-12-P*-FV | THE-1818-24-P*-FV | THE-1818-36-P*-FV |
| 508.0 (20")                     | THE-2020-12-P*-FV | THE-2020-24-P*-FV | THE-2020-36-P*-FV |
| 609.6 (24")                     | THE-2424-12-P*-FV | THE-2424-24-P*-FV | THE-2424-36-P*-FV |
| 762.0 (30")                     | THE-3030-12-P*-FV | THE-3030-24-P*-FV | THE-3030-36-P*-FV |
| 914.4 (36")                     | THE-3636-12-P*-FV | THE-3636-24-P*-FV | THE-3636-36-P*-FV |



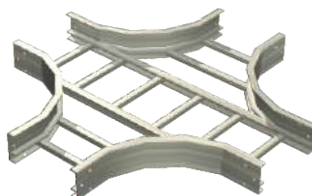
\* Agregar 4 si es peralte de 100mm ó 6 si es peralte de 150mm.

\*Add 4 if height of 100 mm or 6 if height of 150 mm .



## "X" HORIZONTAL HORIZONTAL CROSS

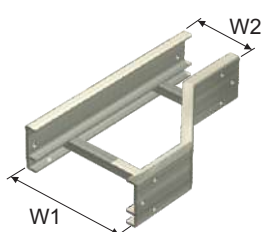
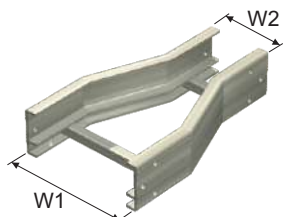
| ANCHO<br>WIDTH<br>(W)<br>mm (pulg) | RADIO             |                   |                   |
|------------------------------------|-------------------|-------------------|-------------------|
|                                    | 304.8 (12")       | 609.6 (24")       | 914.4 (36")       |
| 152.4 (6")                         | XHE-0606-12-P*-FV | XHE-0606-24-P*-FV | XHE-0606-36-P*-FV |
| 228.6 (9")                         | XHE-0909-12-P*-FV | XHE-0909-24-P*-FV | XHE-0909-36-P*-FV |
| 304.8 (12")                        | XHE-1212-12-P*-FV | XHE-1212-24-P*-FV | XHE-1212-36-P*-FV |
| 406.4 (16")                        | XHE-1616-12-P*-FV | XHE-1616-24-P*-FV | XHE-1616-36-P*-FV |
| 457.2 (18")                        | XHE-1818-12-P*-FV | XHE-1818-24-P*-FV | XHE-1818-36-P*-FV |
| 508.0 (20")                        | XHE-2020-12-P*-FV | XHE-2020-24-P*-FV | XHE-2020-36-P*-FV |
| 609.6 (30")                        | XHE-2424-12-P*-FV | XHE-2424-24-P*-FV | XHE-2424-36-P*-FV |
| 762.0 (30")                        | XHE-3030-12-P*-FV | XHE-3030-24-P*-FV | XHE-3030-36-P*-FV |
| 914.4 (36")                        | XHE-3636-12-P*-FV | XHE-3636-24-P*-FV | XHE-3636-36-P*-FV |



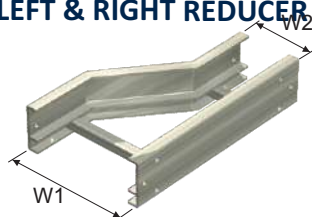
\* Agregar 4 si es peralte de 100mm ó 6 si es peralte de 150mm.

\* Add 4 if height of 100 mm or 6 if height of 150 mm .

## REDUCCIÓN RECTA STRAIGHT REDUCER



## REDUCCIÓN LATERAL IZQUIERDA/DERECHA LEFT & RIGHT REDUCER



| ANCHO<br>WIDTH<br>(W1)<br>mm (pulg) | REDUCCION - REDUCER "W2" |                |                |                |                |                |                |                |
|-------------------------------------|--------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
|                                     | 152 mm (06")             | 229 mm (09")   | 305 mm (12")   | 406.4 mm (16") | 457 mm (18")   | 508.0mm (20")  | 610 mm (24")   | 762 mm (30")   |
| 228.6 (9")                          | R'E-0906-P**FV           |                |                |                |                |                |                |                |
| 304.8 (12")                         | R'E-1206-P**FV           | R'E-1209-P**FV |                |                |                |                |                |                |
| 406.4 (16")                         | R'E-1606-P**FV           | R'E-1609-P**FV | R'E-1612-P**FV |                |                |                |                |                |
| 457.2 (18")                         | R'E-1806-P**FV           | R'E-1809-P**FV | R'E-1812-P**FV | R'E-1816-P**FV |                |                |                |                |
| 508.0 (20")                         | R'E-2006-P**FV           | R'E-2009-P**FV | R'E-2012-P**FV | R'E-2016-P**FV | R'E-2018-P**FV |                |                |                |
| 609.6 (24")                         | R'E-2406-P**FV           | R'E-2409-P**FV | R'E-2412-P**FV | R'E-2416-P**FV | R'E-2418-P**FV | R'E-2420-P**FV |                |                |
| 762.0 (30")                         | R'E-3006-P**FV           | R'E-3009-P**FV | R'E-3012-P**FV | R'E-3016-P**FV | R'E-3018-P**FV | R'E-3020-P**FV | R'E-3024-P**FV |                |
| 914.4 (36")                         | R'E-3606-P**FV           | R'E-3609-P**FV | R'E-3612-P**FV | R'E-3616-P**FV | R'E-3618-P**FV | R'E-3620-P**FV | R'E-3624-P**FV | R'E-3630-P**FV |

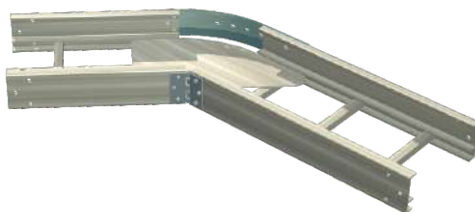
\* R= si es reducción Recta, D= si es reducción lateral Derecha, I=si es reducción lateral Izquierda

\*\*Agregar 4 si es peralte de 100mm ó 6 si es peralte de 150mm.

Add 4 if height of 100 mm or 6 if height of 150 mm.

## CURVA AJUSTABLE - ADJUSTABLE BEND

| CLAVE<br>CODE | ANCHO<br>WIDTH<br>(W) mm (pulg) |
|---------------|---------------------------------|
| CAE-06-P*-FV  | 152.4 (6")                      |
| CAE-09-P*-FV  | 228.6 (9")                      |
| CAE-12-P*-FV  | 304.8 (12")                     |
| CAE-16-P*-FV  | 406.4 (16")                     |
| CAE-18-P*-FV  | 457.2 (18")                     |
| CAE-20-P*-FV  | 508.0 (20")                     |
| CAE-24-P*-FV  | 609.6 (24")                     |
| CAE-30-P*-FV  | 762.0 (30")                     |
| CAE-36-P*-FV  | 914.4 (36")                     |

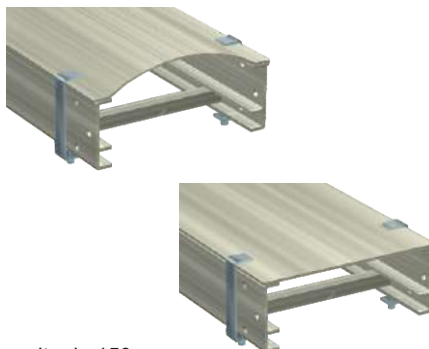
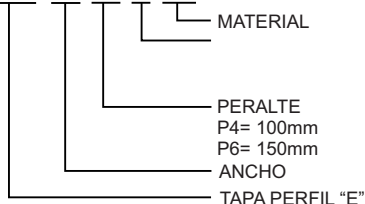


## TAPA LISA PAR CHAROLA Y A DOS AGUAS FLAT & PEAKED COVER



- ⊕ Tapas de fibra de vidrio para tramo recto de 3.05m de Longitud
- ⊕ Cada tapa de tramo recto incluye 6 clip's de sujeción de acero inoxidable, el numero de clip's para accesorios varia dependiendo las dimensiones del accesorio
- ⊕ La tapa a 2 aguas solo se fabrica para tramos rectos
- ⊕ Fiberglass covers for straight stretch of 3.05m length
- ⊕ each cap includes six straight section clamping clip's stainless steel , the number varies depending clip's accessory attachment size
- ⊕ the cover 2 waters only manufactured for straight sections

### TRE-06-P\*-T-FV



\*Agregar 4 si es peralte de 100mm ó 6 si es peralte de 150mm.

\*Add 4 if height of 100 mm or 6 if height 150mm

## CONECTORES - SPLICE PLATE



CONECTOR RECTO  
STRAIGHT SPLICE PLATE  
“CR”



CONECTOR VERTICAL  
AJUSTABLE  
VERTICAL ADJUSTABLE SPLICE PLATE  
“VA”



CONECTOR HORIZONTAL  
AJUSTABLE  
HORIZONTAL ADJUSTABLE  
SPLICE PLATE  
“HA”

LOS CONECTORES PARA CHAROLA DE FIBRA DE VIDRIO SE SUMINISTRAN CON TORNILLERÍA EN ACERO INOXIDABLE.

THE CONNECTORS FOR FIBERGLASS CHAROLA SUPPLIED WITH STAINLESS STEEL SCREWS.

HA - P\* - FV

MATERIAL

PERALTE

P4= 100mm

P6= 150mm

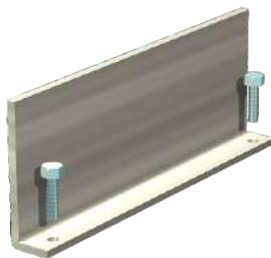
CÓDIGO DEL CONECTOR

CR=CONECTOR RECTO

VA= VERTICAL AJUSTABLE

HA= HORIZONTAL AJUSTABLE

## PLACA CIERRE - BLIND END



LA TAPA FINAL PODRÁ COLOCARSE DE AMBAS FORMAS, EN CASO DE QUE LA CHAROLA LLEVE UNA TAPA SUPERIOR SE DEBERÁ COLOCAR POR LA PARTE INFERIOR.

| CLAVE CAT.   | ANCHO (W)<br>mm (pulg) |
|--------------|------------------------|
| PCE-06-P*-FV | 152.4 (6")             |
| PCE-09-P*-FV | 228.6 (9")             |
| PCE-12-P*-FV | 304.8 (12")            |
| PCE-16-P*-FV | 406.4 (16")            |
| PCE-18-P*-FV | 457.2 (18")            |
| PCE-20-P*-FV | 508.0 (20")            |
| PCE-24-P*-FV | 609.6 (30")            |
| PCE-30-P*-FV | 762.0 (30")            |
| PCE-36-P*-FV | 914.4 (36")            |

\* Peralte de 4" y 6"

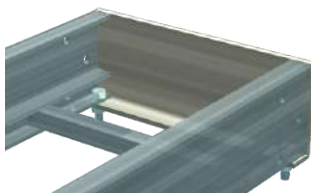
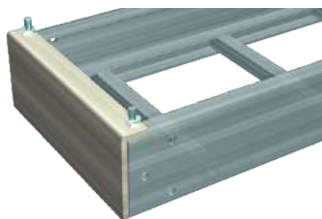
Material: Fibra de Vidrio

Incluye tornillería en Acero Inoxidable.

Size: 4" & 6"

Material: Fiber glass

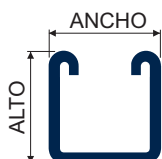
Hardware included of stainless steel.



## UNICANAL LISO Y PERFORADO 4X2 Y 4X4 PERFORATED & SOLID UNISTRUT

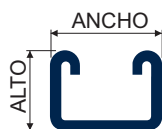
| CÓDIGO            | ANCHO | ALTO | LONGITUD |
|-------------------|-------|------|----------|
| UL-4-FV / UP-2-FV | 41.3  | 41.3 | 3.00 m   |
| UL-2-FV / UP-2-FV | 41.3  | 25.4 | 3.00 m   |

L= si es Unicanal Liso, P= si es Unicanal Perforado.



- El unicanal de fibra de vidrio, es un perfil fabricado con la misma resina de la charola
- El unicanal está diseñado para facilitar el soporte de las trayectorias de la charola porta-cables.

- Nonmetallic unistrut is manufacture with the same resin of fiberglass cable tray



- también puede trabajar como soporte de las líneas de tubería conduit

- It also is used as conduit support



## ABRAZADERA UNICANAL UNISTRUT CLAMPS

PARA USO CON FIBRA DE VIDRIO  
FOR USE WITH FIBERGLASS

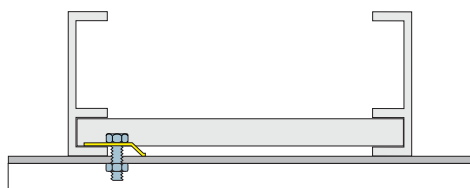
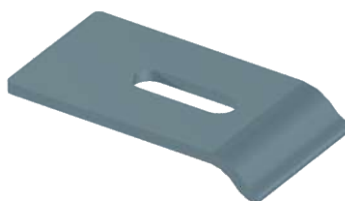
| CATALOGO  | MEDIDA |        |
|-----------|--------|--------|
| AU-050-FV | 0.500" | 1/2"   |
| AU-075-FV | 0.750" | 3/4"   |
| AU-100-FV | 1.00"  | 1"     |
| AU-125-FV | 1.25"  | 1 1/4" |
| AU-150-FV | 1.50"  | 1 1/2" |
| AU-200-FV | 2.00"  | 2"     |
| AU-300-FV | 3.00"  | 3"     |
| AU-400-FV | 4.00"  | 4"     |



## CLEMA - HOLD DOWN CLAMP

| CÓDIGO     | DIAMETRO<br>TORNILLO |
|------------|----------------------|
| CE-38-INOX | 3/8"                 |
| CE-12-INOX | 1/2"                 |

No incluye tornillería  
Hardware not included



### CE - 38 - INOX

MATERIAL

Ø TORNILLO

38= 3/8"

12= 1/2"

CÓDIGO DE CLEMA  
PARA CHAROLA DE  
FIBRA DE VIDRIO

## VARILLA ROSCADA (no metálica)

### THREADED ROD (non metallic)

PARA USO CON FIBRA DE VIDRIO  
FOR USE WITH FIBERGLASS



| CÓDIGO<br>CODE | DIÁMETRO<br>DIAMETER | LONGITUD<br>LENGTH |
|----------------|----------------------|--------------------|
| VR-375-FV      | 3/8"                 | 1.00 m             |
| VR-500-FV      | 1/2"                 | 3.00 m             |

1. See also *Shelton v. Federal Reserve Bank of St. Louis*, 134 F.3d 1008, 1012 (8th Cir. 1998) (citing *Shelton v. Federal Reserve Bank of St. Louis*, 134 F.3d 1008, 1012 (8th Cir. 1998)).



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