



# CATÁLOGO

DE PRODUCTOS

[atndelnorte.com](http://atndelnorte.com)



## PRESENTACIÓN

**GRUPO ATN**, empresa 100% mexicana con una trayectoria de más de 20 años de experiencia en el ramo de la fabricación de sistemas de soportería para la conducción de cable, con la más alta calidad en el mercado. Siempre comprometidos en satisfacer las necesidades de nuestros clientes basados en la aplicación de la mejora continua y cumpliendo con un excelente servicio al cliente. Se complace en presentar su catálogo, con una amplia gama de productos orientados en brindar las mejores soluciones en sus instalaciones, cumpliendo con los más estrictos estándares de calidad y las altas exigencias de nuestros clientes.

En **GRUPO ATN** estamos comprometidos en la innovación y desarrollo de nuestros productos, en proporcionar soluciones y garantizar la completa satisfacción de nuestros clientes.

*ATN GROUP, 100% Mexican company with over 20 years of experience of manufacturing cable support systems with the highest quality on the market. Always committed with meeting customer satisfaction, based on the application of continuous improvement and providing excellent customer service. ATN GROUP is pleased to present its catalogue, with a wide range of products and the objective to offer the best solutions on installations for customers. As well as meeting the strictest quality standards and the highest demands of our customers.*

*ATN GROUP is committed to the innovation and development of our products, to provide solutions and guarantee customers satisfaction.*



## CHAROLAS / CABLE TRAYS

|                                                                                                  |       |
|--------------------------------------------------------------------------------------------------|-------|
| Tramo Recto Tipo Escalera / <i>Straight Section Ladder Type</i>                                  | 8     |
| Curva Horizontal Tipo Escalera / <i>Horizontal Bend Ladder type</i>                              | 9     |
| Curva Vertical Tipo Escalera / <i>Vertical Bend Ladder type</i>                                  | 10-11 |
| T Horizontal Tipo Escalera / <i>T Horizontal Ladder type</i>                                     | 12    |
| T Vertical Tipo Escalera / <i>T Vertical Ladder Type</i>                                         | 13    |
| X Horizontal Tipo Escalera / <i>X Horizontal Ladder Type</i>                                     | 14    |
| Reducción Tipo Escalera / <i>Reducer Ladder Type</i>                                             | 15-17 |
| Derivación Tipo Escalera / <i>Wye Ladder Type</i>                                                | 18-19 |
| Curva Horizontal Ajustable Tipo Escalera / <i>Horizontal Adjustable Ladder Type Bend</i>         | 20    |
| Tramo Recto Fondo Sólido / <i>Straight section Solid Bottom</i>                                  | 21    |
| Curva Horizontal Fondo Sólido / <i>Horizontal Bend Solid Bottom</i>                              | 22    |
| Curva Vertical Fondo Sólido / <i>Vertical Bend Solid Bottom</i>                                  | 23-24 |
| T Horizontal Fondo Sólido / <i>T Horizontal Solid Bottom</i>                                     | 25    |
| T Vertical Fondo Sólido / <i>T Vertical Solid Bottom</i>                                         | 26    |
| X Horizontal Fondo Sólido / <i>X Horizontal Solid Bottom</i>                                     | 27    |
| Reducción Fondo Sólido / <i>Solid Bottom Reducer</i>                                             | 28-30 |
| Derivación Fondo Sólido / <i>Solid Bottom Wye</i>                                                | 31-32 |
| Curva Horizontal Ajustable Fondo Sólido / <i>Adjustable Horizontal Bend Solid Bottom</i>         | 33    |
| Tramo Recto Fondo Perforado / <i>Straight Section Perforated Bottom</i>                          | 34    |
| Curva Horizontal Fondo Perforado / <i>Horizontal Bend Perforated Bottom</i>                      | 35    |
| Curva Vertical Fondo Perforado / <i>Vertical Bend Perforated Bottom</i>                          | 36-37 |
| T Horizontal Fondo Perforado / <i>T Horizontal Perforated Bottom</i>                             | 38    |
| T Vertical Fondo Perforado / <i>T Vertical Perforated Bottom</i>                                 | 39    |
| X Horizontal Fondo Perforado / <i>X Horizontal Perforated Bottom</i>                             | 40    |
| Reducción Fondo Perforado / <i>Perforated Bottom Reducer</i>                                     | 41-43 |
| Derivación Fondo Perforado / <i>Perforated Bottom Wye</i>                                        | 44-45 |
| Curva Horizontal Ajustable Fondo Perforado / <i>Adjustable Horizontal Bend Perforated Bottom</i> | 46    |
| Accesorios para Charola / <i>Tray Hardware</i>                                                   | 47-52 |
| Tramo Recto Fibra de Vidrio / <i>Straight Section Fiberglass</i>                                 | 53    |
| Curva Horizontal Fibra de Vidrio / <i>Horizontal Bend Fiberglass</i>                             | 54    |
| Curva Vertical Fibra de Vidrio / <i>Vertical Bend Fiberglass</i>                                 | 55    |
| T Horizontal Fibra de Vidrio / <i>T Horizontal Fiberglass</i>                                    | 56    |
| T Vertical Fibra de Vidrio / <i>T Vertical Fiberglass</i>                                        | 57    |
| Reducción Fibra de Vidrio / <i>Fiberglass Reducer</i>                                            | 58-60 |
| Charola Tipo Malla / <i>Cable Basket Tray</i>                                                    | 61    |
| Accesorios Charola Tipo Malla / <i>Cable Basket Tray Hardware</i>                                | 62-71 |

## TUBERÍA CONDUIT / PIPE CONDUIT

|                                                                                      |    |
|--------------------------------------------------------------------------------------|----|
| Tubo Conduit Pared Delgada / <i>Thin Wall Conduit Pipe</i>                           | 73 |
| Tubo Conduit Pared Gruesa / <i>Thick Wall Conduit Pipe</i>                           | 74 |
| Codo Conduit Pared Delgada y Pared Gruesa / <i>Thin and Thick Wall Conduit Elbow</i> | 75 |
| Conector y Cople Conduit / <i>Conduit Connector and Coupling</i>                     | 76 |

## UNICANAL / CHANNEL

|                                                           |    |
|-----------------------------------------------------------|----|
| Unicanal 4x2 Sólido / <i>Strut Channel 4x2 solid</i>      | 79 |
| Unicanal 4x4 Sólido / <i>Strut Channel 4x4 solid</i>      | 79 |
| Unicanal 4x6 Sólido / <i>Strut Channel 4x6 solid</i>      | 79 |
| Unicanal 4x8 Sólido / <i>Strut Channel 4x8 solid</i>      | 79 |
| Unicanal 4x2 Perforado / <i>Strut Channel 4x2 slotted</i> | 80 |
| Unicanal 4x4 Perforado / <i>Strut Channel 4x4 slotted</i> | 80 |
| Unicanal 4x6 Perforado / <i>Strut Channel 4x6 slotted</i> | 80 |
| Unicanal 4x8 Perforado / <i>Strut Channel 4x8 slotted</i> | 80 |

## DIVISIÓN ACERO / STEEL DIVISION

|                                                                                              |         |
|----------------------------------------------------------------------------------------------|---------|
| Lámina Acanalada Rectangular / <i>Corrugated Sheet</i>                                       | 100     |
| Lámina RN-100 / <i>Sheet RN-100</i>                                                          | 101     |
| Poste Metálico Ligero y Estructural / <i>Lightweight and Structural Metal Post</i>           | 102     |
| Canal Metálico Ligero y Estructural / <i>Structural and Light Metal Channel</i>              | 103     |
| Accesorios Metálicos Ligeros y Estructurales / <i>Light and Structural Metal Accessories</i> | 104-105 |

## HERRAJES / FITTINGS

|                                            |         |
|--------------------------------------------|---------|
| Abrazadera Unicanal / <i>Channel Clamp</i> | 82      |
| Abrazadera Tipo Uña / <i>Hook Clamp</i>    | 82      |
| Abrazadera Tipo Pera / <i>Hanger Clamp</i> | 83      |
| Abrazadera Omega / <i>Omega Clamp</i>      | 83      |
| Mordaza / <i>Beam Clamp</i>                | 84      |
| Clip U / <i>U Support</i>                  | 85      |
| Varilla Roscada / <i>Threaded rod</i>      | 85      |
| Ménsula / <i>Bracket</i>                   | 85-88   |
| Canal Vertical / <i>Vertical Channel</i>   | 87      |
| Base para Poste / <i>Post Base</i>         | 89      |
| Conectores / <i>Fittings</i>               | 90-95   |
| Escuadras / <i>Corner Angle</i>            | 96      |
| Cinta Perforada / <i>Perforated Strap</i>  | 97      |
| Tuerca Con Resorte / <i>Spring Nut</i>     | 97      |
| Taquetes / <i>Anchors</i>                  | 97      |
| Cople / <i>Coupler</i>                     | 98      |
| Clema / <i>Hold-down Clamp</i>             | 98      |
| Tuerca Hexagonal / <i>Hex Nut</i>          | 98      |
| Rondanas / <i>Washers</i>                  | 98      |
| Certificación / <i>Certification</i>       | 106-109 |



# Charolas Portacable Cable Trays

Todos nuestros materiales son adquiridos a empresas certificadas bajo la norma ISO 9000, de la más alta calidad y verificados al recibo y durante el proceso, para el cumplimiento de sus necesidades

*All our material is acquired from certified companies according to ISO 9000 standards, from the highest quality and verified upon receipt and during the process, to fulfill your needs.*

ATN  
EASTCONNECT  
CABLE TRAY

### Materiales de Fabricación.

Los materiales que utilizamos para la fabricación de Charolas son:

- Acero al Carbono AISI C 1010 hr/cr
- Aluminio extrusionado 6063
- Temple 6 (Charola) y Temple 4 (Curvas)
- Aluminio Aleación 3003
- Temple H14
- Acero Inoxidable T304

### Recubrimientos.

Para incrementar la vida útil en ambientes donde por naturaleza se presentan condiciones de humedad, agua salada, etc., o exposición a químicos corrosivos, en productos fabricados de acero al carbono, se ofrecen recubrimientos anticorrosivos como:

- Galvanizado por Inmersión en Caliente después de manufactura según ASTM A123
- Galvanizado por Inmersión en caliente antes de manufactura según ASTM-A653-8

Para Productos de Aluminio y Acero Inoxidable, solo se ofrece acabado natural.

### Clasificación Aprobada.

Nuestras Charolas Portacables Tipo Escalera están clasificadas en clase NEMA 8A o clase NEMA 8C, de acuerdo a la norma NOM-003-SCFI-2014 (NMX-J-511-ANCE-2011), pruebas de Capacidad de Carga, Resistencia a la Flexión, Cámara de niebla salina y protección para conductores, en base a especificación CFE-57000-59-1996

### Manufacturing materials.

The material used for manufacturing cable trays are the following:

- Carbon steel AISI C 1010 HR/CR
- Extruded aluminum 6063
- Temple 6 (tray) and Temple 4 (curves)
- Aluminium alloy 3003
- Temper H14
- Stainless steel T304

### Coatings.

To increase lifespan in any natural environmental conditions such as humidity, salty water, etc... or exposure to corrosive chemicals, in products manufactured from Carbon Heated Steel, anticorrosive coatings are available:

- Hot Dip Galvanized after manufacturing according to ASTM A123 before manufacturing
- Hot Dip Galvanized according to ASTM A653 - 8

For aluminum products and stainless steel, we only offer natural finish.

### Approved Classification.

Our support brackets for Cable Tray Ladder Type are classified in 8A NEMA class or 8C NEMA class, according to the NOM-003-SCFI-2014 (NMX-J-511-ANCE-2011), Test Load capacity, Flexion Resistance, Salt spray and Conduct Protection, on the basis of specification CFE-57000-59-1996.

### Capacidad de Carga.

En base a la norma NMX-J-511-ANCE-2011, indica que los sistemas de soportería para cable, deben ser clasificados de acuerdo a la carga a soportar ya instalado.

La clasificación consta de un número y una letra, en donde el número indica la distancia entre apoyos (DAP) y la letra la carga de seguridad (WS) uniformemente repartida, soportada por el sistema.

La Norma acepta la siguiente distancia entre apoyos (DAP), para la clasificación:

- 5 para 1.52 m (5 pies)
- 6 para 1.83 m (6 pies)
- 8 para 2.44 m (8 pies)
- 12 para 3.66 m (12 pies)
- 16 para 4.87 m (16 pies)
- 20 para 6.10 m (20 pies)

La norma acepta las siguientes cargas de seguridad (WS) soportadas para la clasificación:

- AA para 18.6 kg/m (12.5 Lb/pie)
- BB para 37.2 kg/m (25 Lb/pie)
- A para 74.4 kg/m (50 Lb/pie)
- B para 111.6 kg/m (75 Lb/pie)
- C para 148.8 kg/m (100 Lb/pie)

### Load capacity.

Based on NMX-J-511-ANCE-2011 standard, it is indicated that support cable systems, must be classified according to the support already installed.

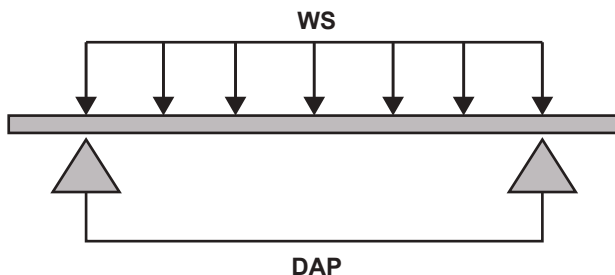
Classification consists of a number and a letter. The number indicates the distance between supports (DAP) and the letter indicates the load of security (WS) uniformly distributed, supported by the system.

The Standard takes the following distance between supports (DAP), to the clasificacion:

- 5 for 1.52 m (5 ft)
- 6 for 1.83 m (6 ft)
- 8 for 2.44 m (8 ft)
- 12 for 3.66 m (12 ft)
- 16 for 4.87 m (16 ft)
- 20 for 6.10 m (20 ft)

The Standard takes the following loads of security (WS) supported for the classification :

- AA for 18.6 kg/m (12.5 Lbs/ft)
- BB for 37.2 kg/m (25 Lbs/ft)
- A for 74.4 kg/m (50 Lbs/ft)
- B for 111.6 kg/m (75 Lbs/ft)
- C for 148.8kg/m (100 Lbs/ft)



ATN fabrica la línea de soportería en Tramo Recto con una capacidad de carga de 74.4 kg/m y 148.8 kg/m con un claro entre apoyos de clasificación 8 de 2.44 m. (Nota: esta capacidad de carga es para cables o canalizaciones).

Nuestras Charolas son fabricadas en Perfiles "Z" en Aluminio o Acero, Perfil "C" con ceja hacia adentro o hacia afuera, en Aluminio o Acero y Perfil "I" en Aluminio.

En peraltes de 3-1/4" hasta 6", anchos desde 4" hasta 36" de acuerdo a su necesidad. Y además contamos con una amplia gama de Accesorios.

## Selección del tipo de Charola necesaria.

Determinación de acuerdo a la carga a soportar:

La carga de seguridad (WS) del sistema es la carga destructiva dividida entre un factor de seguridad mínimo de 1.5, según la norma. El peso es de acuerdo a los cables a soportar.

En la práctica, la distancia entre apoyos (DAP) debe ser 2.46 m, al disminuir esta distancia disminuye la deflexión de la charola, pero no aumenta su capacidad de carga.

Determinación del peralte:

Esta característica depende del diámetro de los conductores y se debe referir al peralte útil (ver tabla 1.1).

ATN manufactures the line of supports in Straight Section with a load capacity of 74.4 kg/m (164.02 lb/in) and 148.8kg/m (328.04 lb/in) with a clearing between supports classified type 8 of 2.44 m. (Note: this load capacity is for cables or chanel). Our trays are manufactured in "Z" Profiles of Steel, or Aluminum, "C" Profiles with a flange inward or outward, in Aluminum or Steel, and "I" profiles in Aluminum.

At rail height of 3-1/4" to 6", widths from 4" up to 36" according to the need. And we also have a wide range of Hardware.

## Selection of the type of tray required.

Setting according to the load to be supported:

The security load (WS) of the system according to the standard, consists of the payload divided by a minimum safety/security factor of 1.5. system load (WS) is divided payload between a minimum of 1.5. The weight is according to the wires to withstand.

On field, the distance between supports (DAP) should be 2.46 m (8.07 in). As the distance decreases, it reduce the tray's deflection, but does not increase its load capacity.

Setting The Rail Height:

This characteristic depends on the diameter of the conductors and should refer to the useful rail height (see table 1.1)

Imagen 1.2

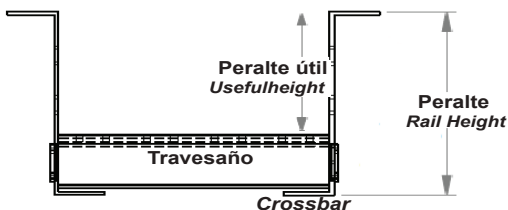


Tabla 1.1

| Peralte Rail Height | Peralte útil Usefulheight |
|---------------------|---------------------------|
| 3-1/4" (82.5 mm)    | 2.224" (56.5 mm)          |
| 4" (101.6 mm)       | 2.976" (75.6 mm)          |
| 4-1/2" (114.3 mm)   | 3.476" (88.3 mm)          |
| 5" (127 mm)         | 3.976" (101 mm)           |
| 6" (152.4 mm)       | 4.976" (126.4 mm)         |

MATERIAL Y LONGITUD CHAROLA TIPO ESCALERA 1  
CABLE TRAY SYSTEM LADDER TYPE Tabla 1.2

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

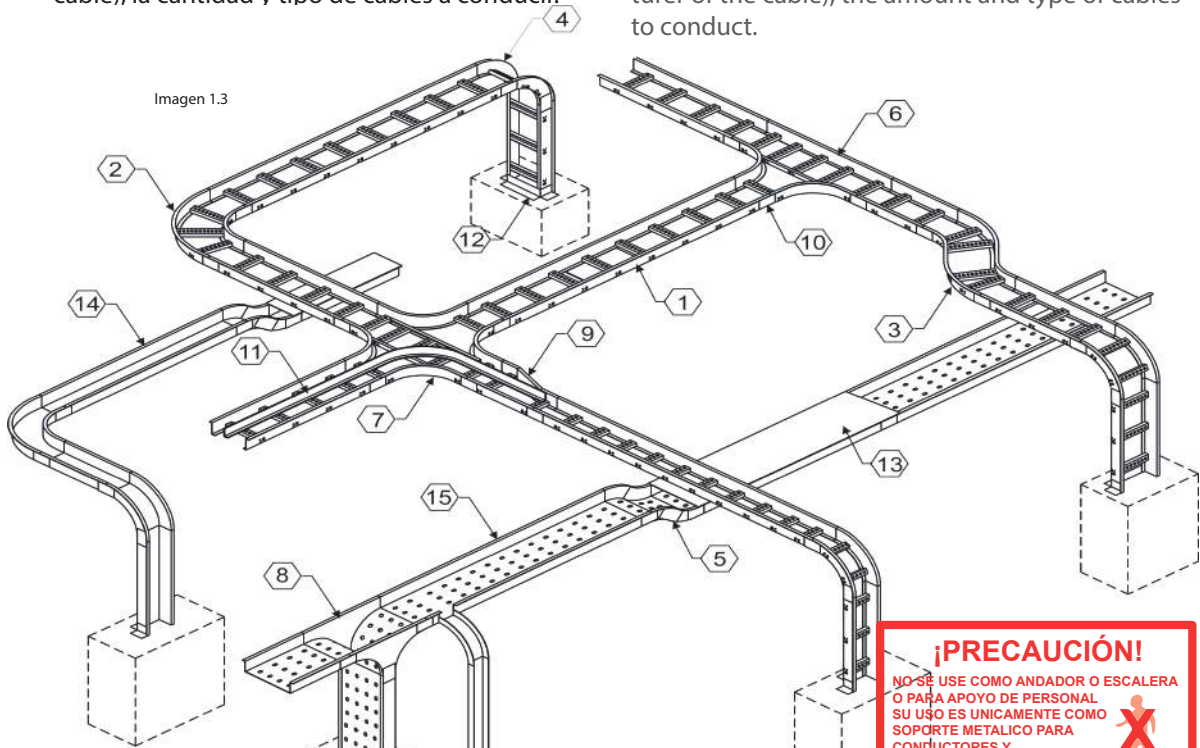
## Determinación del ancho:

El ancho de la charola depende del diámetro y del radio mínimo de curvatura de los cables conductores (estos determinados por el fabricante del cable), la cantidad y tipo de cables a conducir.

## Setting Width

The width of the tray depends on the diameter and the minimum radius curvature of the conductor wires (these are determined by the manufacturer of the cable), the amount and type of cables to conduct.

Imagen 1.3



- 1 Charola Tipo Escalera
- 2 Curva Horizontal a 90°
- 3 Curva Horizontal a 45°
- 4 Curva Vertical Exterior a 90°
- 5 Curva Vertical Exterior a 45°
- 6 T Horizontal
- 7 X Horizontal
- 8 T Vertical
- 9 Reducción Lateral
- 10 Conector
- 11 Separador
- 12 Conector de escalera a caja
- 13 Tapa Superior
- 14 Charola Fondo Sólido
- 15 Charola Fondo Perforado

- 1 Cable Tray Ladder Type
- 2 90° Horizontal Bend
- 3 45° Horizontal Bend
- 4 90° Outside Vertical Bend
- 5 45° Outside Vertical Bend
- 6 Horizontal T
- 7 Horizontal X
- 8 Vertical T
- 9 Lateral Reducers
- 10 Splice Plate
- 11 Divider Strip
- 12 Frame Type Box Connector
- 13 Straight Cover
- 14 Solid Bottom Trough Cable Tray
- 15 Ventilated Bottom Cable Tray

### ¡PRECAUCIÓN!

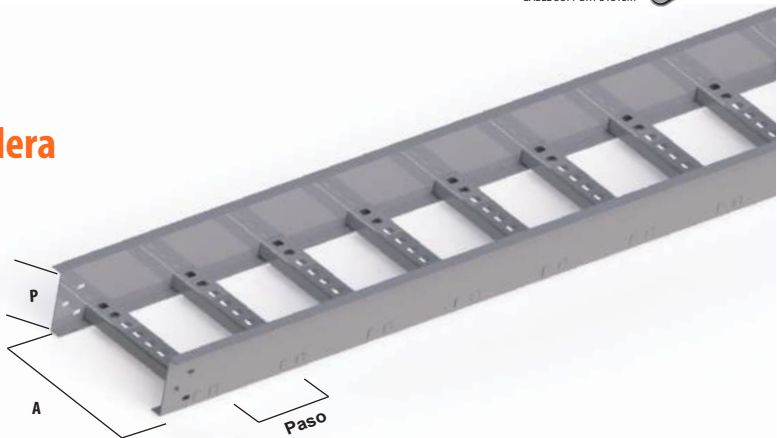
NO SE USE COMO ANDADOR O ESCALERA  
O PARA APOYO DE PERSONAL  
SU USO ES ÚNICAMENTE COMO  
SOPORTE METÁLICO PARA  
CONDUCTORES Y  
CANALIZACIONES





### Tramo Recto Tipo Escalera

#### Cable Tray Ladder Type



## Ejemplo Código: TR - 04 - 06 - P314L - Z - AL

(Example Code)

### Ancho (A)

(Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Paso

(Rung Spacing)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
18 18" (457.2 mm)

### Peralte (P)

(Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Perfil

(Rail Type)

Z  
C  
I

### Material

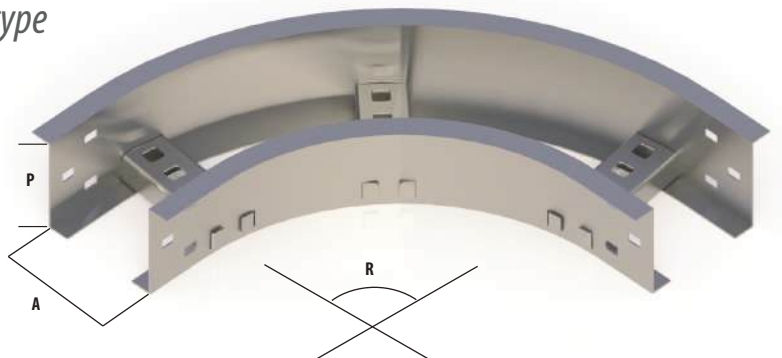
(Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel



### Curva Horizontal Tipo Escalera

#### Horizontal Bend Ladder type



### Ejemplo Código: CHE - 04 - P314L- R08 - 90 - AL

(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/ light  
P314P 3 1/4" Pesado/ heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Radio (R) (Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Grado (Degree)

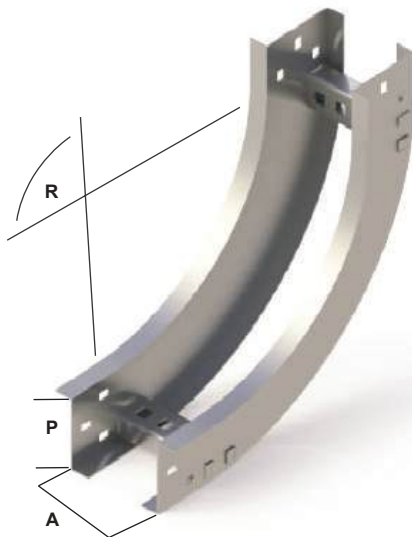
45 45°  
90 90°

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Curva Vertical Interior Tipo Escalera

#### Vertical Bend Interior Ladder Type



### Ejemplo Código: CVIE - 04 - P314L - R08 - 90 - AL

(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Radio (R) (Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Grado (Degree)

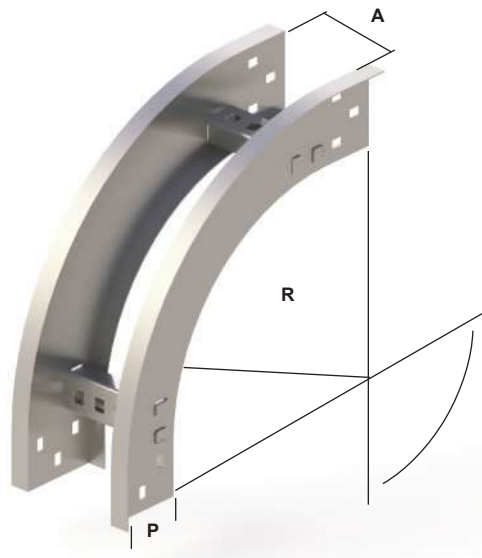
45 45°  
90 90°

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Curva Vertical Exterior Tipo Escalera

#### Vertical Bend Outside Ladder Type



**Ejemplo Código: CVEE - 04 - P314L - R08 - 90 - AL**

(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Radio (R) (Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Grado (Degree)

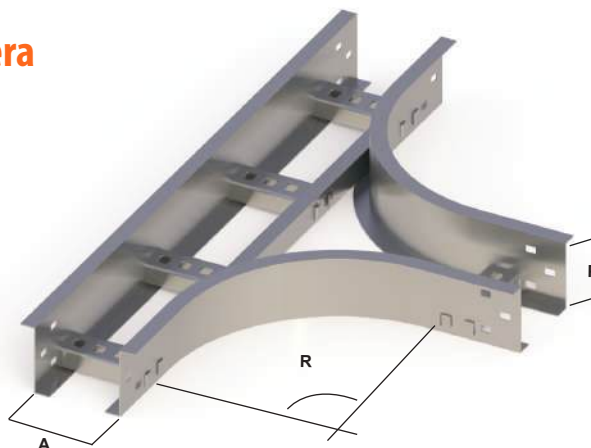
45 45°  
90 90°

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/ Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### T Horizontal Tipo Escalera

#### T Horizontal Ladder type



## Ejemplo Código: THE - 04 - P314L - R08 - AL

(Example Code)

### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Radio (R) (Radius)

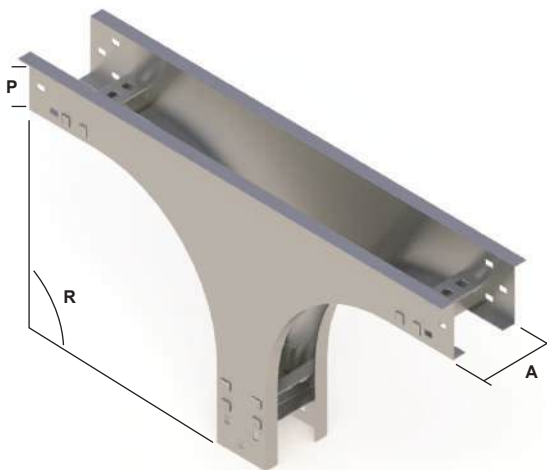
08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### T Vertical Tipo Escalera

*T Vertical Ladder type*



## Ejemplo Código: TVE - 04 - P314L - R08 - AL

(Example Code)

### Ancho (A)

(Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Peralte (P)

(Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Radio (R)

(Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

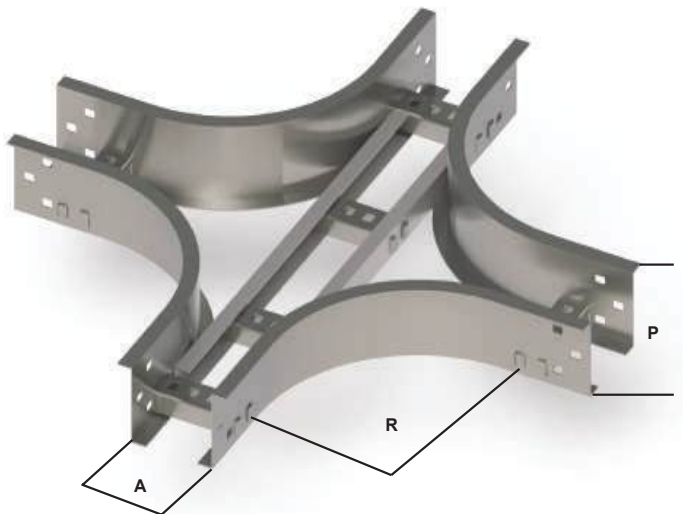
### Material

(Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### X Horizontal Tipo Escalera

#### X Horizontal Ladder type



### Ejemplo Código: XHE- 04 - P314L - R08 - AL

(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Radio (R) (Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

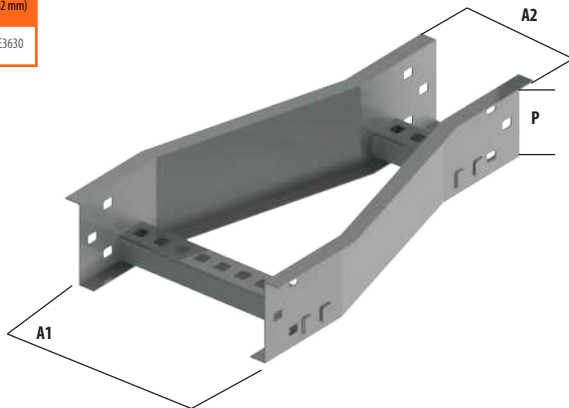
#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

## Reducción Recta Tipo Escalera Reducer straight ladder

Tabla 1.3

|                              |                   | A2 (Ancho 2) A2 (Width 2) |                  |                  |                   |                   |                   |                 |                   |                 |
|------------------------------|-------------------|---------------------------|------------------|------------------|-------------------|-------------------|-------------------|-----------------|-------------------|-----------------|
|                              |                   | 4"<br>(101.6 mm)          | 6"<br>(152.4 mm) | 9"<br>(228.6 mm) | 12"<br>(304.8 mm) | 16"<br>(406.4 mm) | 18"<br>(457.2 mm) | 20"<br>(508 mm) | 24"<br>(609.6 mm) | 30"<br>(762 mm) |
| A1 (Ancho 1)<br>A1 (Width 1) | 36"<br>(914.4 mm) | RRE3604                   | RRE3606          | RRE3609          | RRE3612           | RRE3616           | RRE3618           | RRE3620         | RRE3624           | RRE3630         |
|                              | 30"<br>(762 mm)   | RRE3004                   | RRE3006          | RRE3009          | RRE3012           | RRE3016           | RRE3018           | RRE3020         | RRE3024           |                 |
|                              | 24"<br>(609.6 mm) | RRE2404                   | RRE2406          | RRE2409          | RRE2412           | RRE2416           | RRE2418           | RRE2420         |                   |                 |
|                              | 20"<br>(508 mm)   | RRE2004                   | RRE2006          | RRE2009          | RRE2012           | RRE2016           | RRE2018           |                 |                   |                 |
|                              | 18"<br>(457.2 mm) | RRE1804                   | RRE1806          | RRE1809          | RRE1812           | RRE1816           |                   |                 |                   |                 |
|                              | 16"<br>(406.4 mm) | RRE1604                   | RRE1606          | RRE1609          | RRE1612           |                   |                   |                 |                   |                 |
|                              | 12"<br>(304.8 mm) | RRE1204                   | RRE1206          | RRE1209          |                   |                   |                   |                 |                   |                 |
|                              | 9"<br>(228.6 mm)  | RRE0904                   | RRE0906          |                  |                   |                   |                   |                 |                   |                 |
|                              | 6"<br>(152.4 mm)  | RRE0604                   |                  |                  |                   |                   |                   |                 |                   |                 |



\* Considerar tabla 1.3 de medidas para crear código de producto.  
Consider table 1.3 of measurements to create product code.

## Ejemplo Código: RRE- 36 - 04 - P314L - AL (Example Code)

### Ancho1 (A1) (Width 1)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Ancho2 (A2) (Width 2)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)

### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Material (Material)

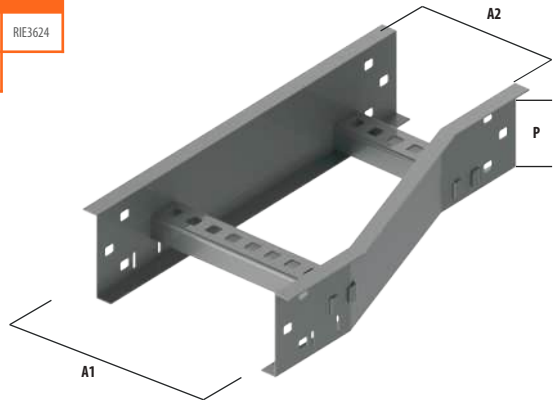
AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel



## Reducción Izquierda Tipo Escalera Left ladder type reducer

Tabla 1.4

|                              |                   | A2 (Ancho 2) A2 (Width 2) |                  |                  |                   |                   |                   |                 |                   |                 |
|------------------------------|-------------------|---------------------------|------------------|------------------|-------------------|-------------------|-------------------|-----------------|-------------------|-----------------|
|                              |                   | 4"<br>(101.6 mm)          | 6"<br>(152.4 mm) | 9"<br>(228.6 mm) | 12"<br>(304.8 mm) | 16"<br>(406.4 mm) | 18"<br>(457.2 mm) | 20"<br>(508 mm) | 24"<br>(609.6 mm) | 30"<br>(762 mm) |
| A1 (Ancho 1)<br>A1 (Width 1) | 36"<br>(914.4 mm) | RIE3604                   | RIE3606          | RIE3609          | RIE3612           | RIE3616           | RIE3618           | RIE3620         | RIE3624           | RIE3624         |
|                              | 30"<br>(762 mm)   | RIE3004                   | RIE3006          | RIE3009          | RIE3012           | RIE3016           | RIE3018           | RIE3020         | RIE3024           |                 |
|                              | 24"<br>(609.6 mm) | RIE2404                   | RIE2406          | RIE2409          | RIE2412           | RIE2416           | RIE2418           | RIE2420         |                   |                 |
|                              | 20"<br>(508 mm)   | RIE2004                   | RIE2006          | RIE2009          | RIE2012           | RIE2016           | RIE2018           |                 |                   |                 |
|                              | 18"<br>(457.2 mm) | RIE1804                   | RIE1806          | RIE1809          | RIE1812           | RIE1816           |                   |                 |                   |                 |
|                              | 16"<br>(406.4 mm) | RIE1604                   | RIE1606          | RIE1609          | RIE1612           |                   |                   |                 |                   |                 |
|                              | 12"<br>(304.8 mm) | RIE1204                   | RIE1206          | RIE1209          |                   |                   |                   |                 |                   |                 |
|                              | 9"<br>(228.6 mm)  | RIE0904                   | RIE0906          |                  |                   |                   |                   |                 |                   |                 |
|                              | 6"<br>(152.4 mm)  | RIE0604                   |                  |                  |                   |                   |                   |                 |                   |                 |



\* Considerar tabla 1.4 de medidas para crear código de producto.  
Consider table 1.4 of measurements to create product code.

## Ejemplo Código: RIE- 36 - 04 - P314L - AL (Example Code)

### Ancho1 (A1) (Width 1)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Ancho2 (A2) (Width 2)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)

### Peralte (P) (Rail Height)

P 314 L 3 1/4" Ligero/light  
P314 P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Material (Material)

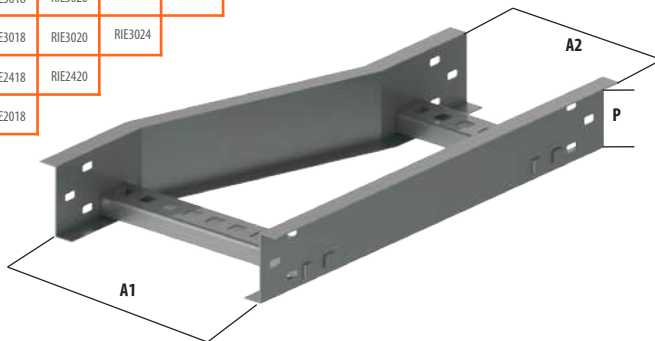
AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

## Reducción Derecha Tipo Escalera

### Reducer right ladder type

Tabla 1.5

|              | A2 (Ancho 2) |            |            |            |            |            |          |            |          |
|--------------|--------------|------------|------------|------------|------------|------------|----------|------------|----------|
|              | 4"           | 6"         | 9"         | 12"        | 16"        | 18"        | 20"      | 24"        | 30"      |
| A1 (Width 1) | (101.6 mm)   | (152.4 mm) | (228.6 mm) | (304.8 mm) | (406.4 mm) | (457.2 mm) | (508 mm) | (609.6 mm) | (762 mm) |
| 36"          | RIE3604      | RIE3606    | RIE3609    | RIE3612    | RIE3616    | RIE3618    | RIE3620  | RIE3624    | RIE3630  |
| (914.4 mm)   |              |            |            |            |            |            |          |            |          |
| 30"          | RIE3004      | RIE3006    | RIE3009    | RIE3012    | RIE3016    | RIE3018    | RIE3020  | RIE3024    |          |
| (762 mm)     |              |            |            |            |            |            |          |            |          |
| 24"          | RIE2404      | RIE2406    | RIE2409    | RIE2412    | RIE2416    | RIE2418    | RIE2420  |            |          |
| (609.6 mm)   |              |            |            |            |            |            |          |            |          |
| 20"          | RIE2004      | RIE2006    | RIE2009    | RIE2012    | RIE2016    | RIE2018    |          |            |          |
| (508 mm)     |              |            |            |            |            |            |          |            |          |
| 18"          | RIE1804      | RIE1806    | RIE1809    | RIE1812    | RIE1816    |            |          |            |          |
| (457.2 mm)   |              |            |            |            |            |            |          |            |          |
| 16"          | RIE1604      | RIE1606    | RIE1609    | RIE1612    |            |            |          |            |          |
| (406.4 mm)   |              |            |            |            |            |            |          |            |          |
| 12"          | RIE1204      | RIE1206    | RIE1209    |            |            |            |          |            |          |
| (304.8 mm)   |              |            |            |            |            |            |          |            |          |
| 9"           | RIE0904      | RIE0906    |            |            |            |            |          |            |          |
| (228.6 mm)   |              |            |            |            |            |            |          |            |          |
| 6"           | RIE0604      |            |            |            |            |            |          |            |          |
| (152.4 mm)   |              |            |            |            |            |            |          |            |          |



\* Considerar tabla 1.5 de medidas para crear código de producto.  
Consider table 1.5 of measurements to create product code.

## Ejemplo Código: RDE- 36 - 04 - P314L - AL

(Example Code)

### Ancho1 (A1) (Width 1)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Ancho2 (A2) (Width 2)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)

### Peralte (P) (Rail Height)

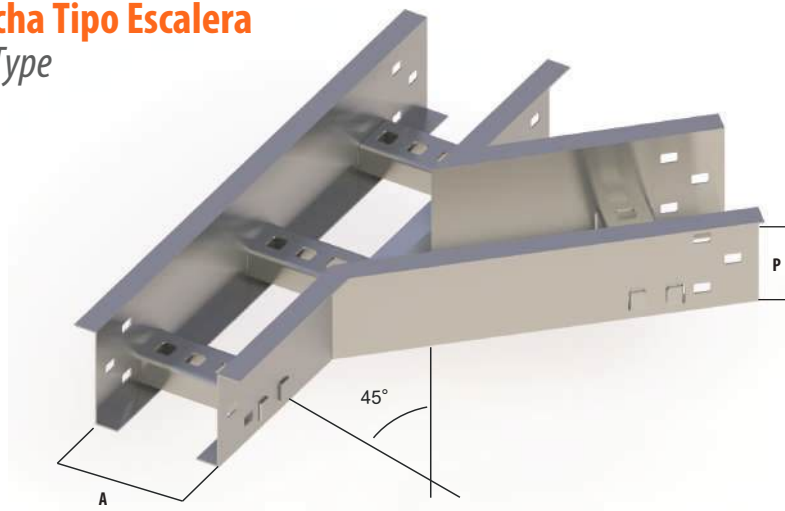
P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Derivación Derecha Tipo Escalera

*Right Wye Ladder Type*



### Ejemplo Código: DDE- 04 - P314L - AL

(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

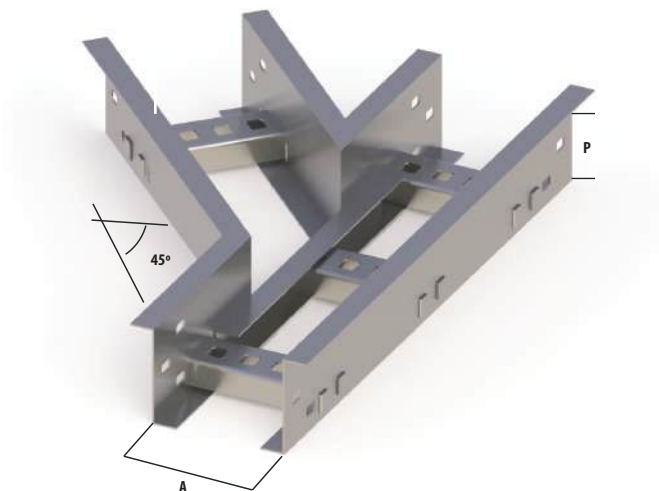
P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

## Derivación Izquierda Tipo Escalera

### Left Wye Ladder Type



## Ejemplo Código: DIE- 04 - P314L - AL

(Example Code)

### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Peralte (P) (Rail Height)

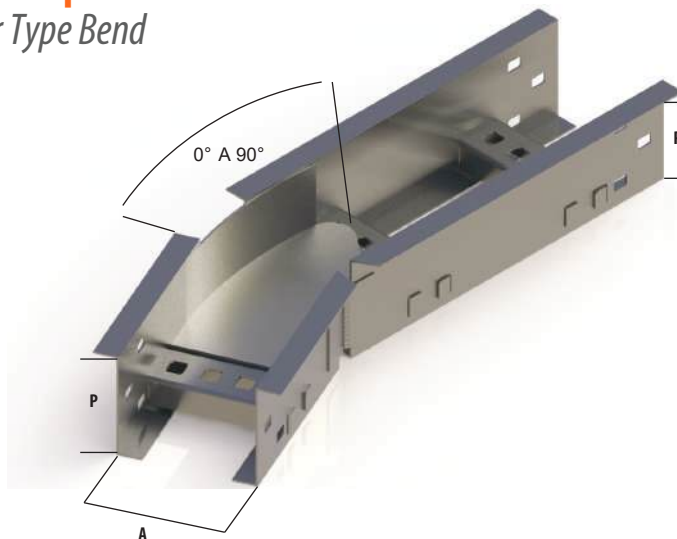
P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Curva Horizontal Ajustable Tipo Escalera

#### Horizontal Adjustable Ladder Type Bend



### Ejemplo Código: CHAE- 04 - P314L - AL

(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

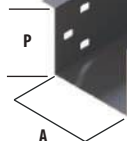
P314L 3 1/4" Ligero/light  
P314 P 3 1/4"  
Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Tramo Recto Fondo Sólido

#### Straight section Solid Bottom



## Ejemplo Código: TRFS - 06 - P314L - Z - AL

(Example Code)

### Ancho (A)

#### (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Peralte (P)

#### (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Perfil

#### (Rail Type)

Z  
C

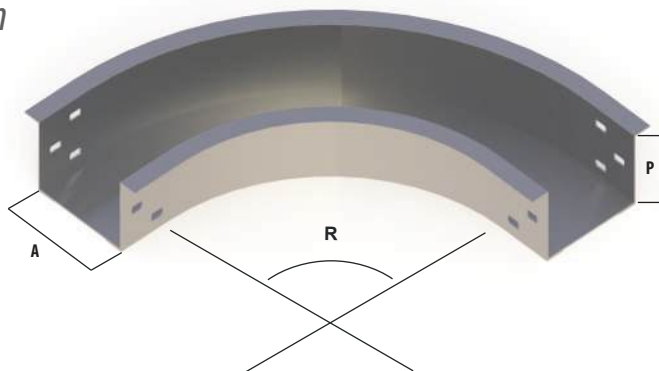
### Material

#### (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Curva Horizontal Fondo Sólido

#### Horizontal Bend Solid Bottom



### Ejemplo Código: CHFS - 04 - R08- P314L - 90 - AL

(Example Code)

#### Ancho (A)

(Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Radio (R)

(Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Peralte (P)

(Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Grado

(Degree)

45 45°  
90 90°

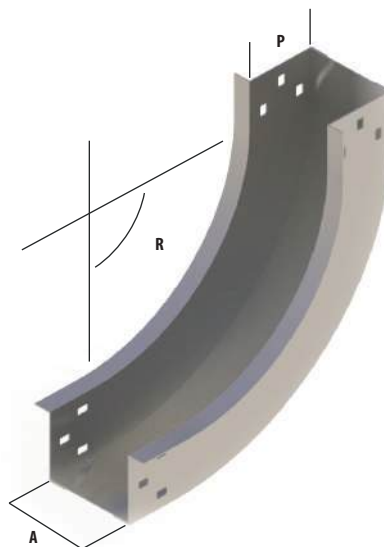
#### Material

(Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Curva Vertical Interior Fondo Sólido

#### Vertical Bend Interior Solid Bottom



## Ejemplo Código: CVIFS - 04 - R08 - P314L - 90 - AL

(Example Code)

### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Radio (R) (Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Grado (Degree)

45 45°  
90 90°

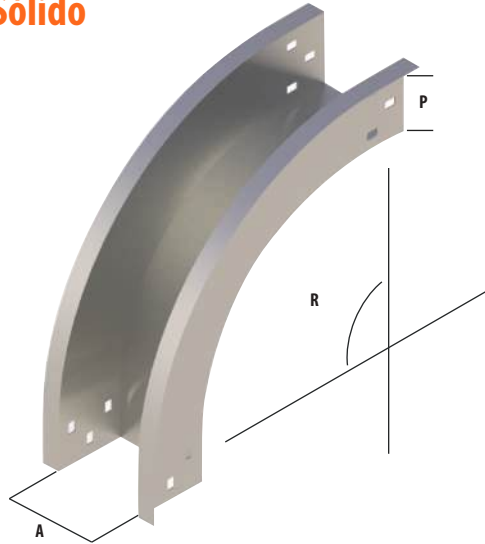
### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless  
Steel



### Curva Vertical Exterior Fondo Sólido

Vertical Bend outside solid Bottom



### Ejemplo Código: CVEFS - 04 - R08 - P314L - 90 - AL

(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Radio (R) (Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Grado (Degree)

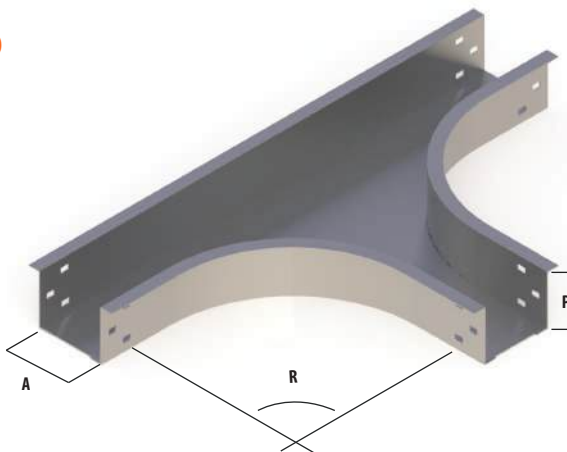
45 45°  
90 90°

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless  
Steel

### T Horizontal Fondo Sólido

*T horizontal Solid Bottom*



### Ejemplo Código: THFS - 04 - R08 - P314L - AL

(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Radio (R) (Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

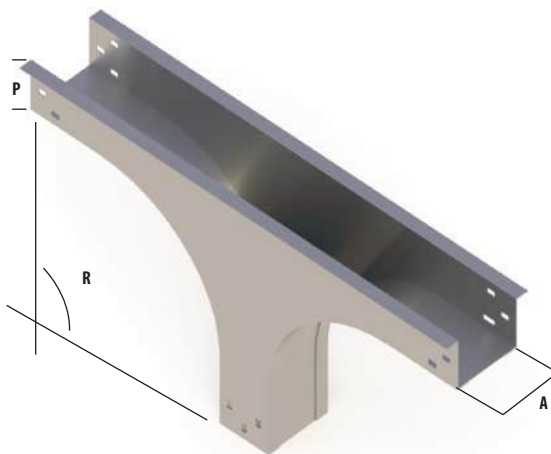
P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/ Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### T Vertical Fondo Sólido

#### T Vertical Solid Bottom



## Ejemplo Código: TVFS - 04 - R08 - P314L - AL

(Example Code)

### Ancho (A)

(Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Radio (R)

(Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

### Peralte (P)

(Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/ heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

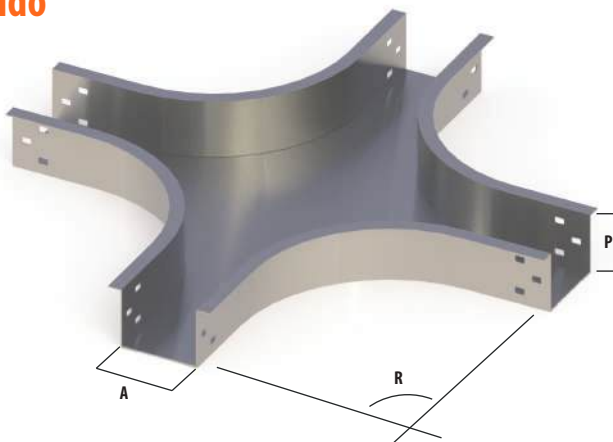
### Material

(Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/ Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### X Horizontal Fondo Sólido

#### Horizontal X Solid Bottom



## Ejemplo Código: XHFS - 04 - R08 - P314L - AL

(Example Code)

### Ancho (A)

(Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Radio (R)

(Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

### Peralte (P)

(Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Material

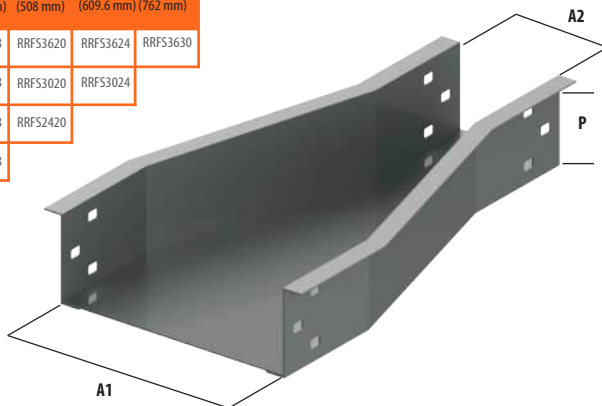
(Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/ Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

## Reducción Recta Fondo Sólido Straight Solid Bottom Reducer

Tabla 1.6

|                              | A2 (Ancho 2) A2 (Width 2) |               |               |                |                |                |              |                |              |
|------------------------------|---------------------------|---------------|---------------|----------------|----------------|----------------|--------------|----------------|--------------|
|                              | 4" (101.6 mm)             | 6" (152.4 mm) | 9" (228.6 mm) | 12" (304.8 mm) | 16" (406.4 mm) | 18" (457.2 mm) | 20" (508 mm) | 24" (609.6 mm) | 30" (762 mm) |
| A1 (Ancho 1)<br>A1 (Width 1) | 36" (914.4 mm)            | RRFS3604      | RRFS3606      | RRFS3609       | RRFS3612       | RRFS3616       | RRFS3618     | RRFS3620       | RRFS3624     |
|                              | 30" (762 mm)              | RRFS3004      | RRFS3006      | RRFS3009       | RRFS3012       | RRFS3016       | RRFS3018     | RRFS3020       | RRFS3024     |
|                              | 24" (609.6 mm)            | RRFS2404      | RRFS2406      | RRFS2409       | RRFS2412       | RRFS2416       | RRFS2418     | RRFS2420       |              |
|                              | 20" (508 mm)              | RRFS2004      | RRFS2006      | RRFS2009       | RRFS2012       | RRFS2016       | RRFS2018     |                |              |
|                              | 18" (457.2 mm)            | RRFS1804      | RRFS1806      | RRFS1809       | RRFS1812       | RRFS1816       |              |                |              |
|                              | 16" (406.4 mm)            | RRFS1604      | RRFS1606      | RRFS1609       | RRFS1612       |                |              |                |              |
|                              | 12" (304.8 mm)            | RRFS1204      | RRFS1206      | RRFS1209       |                |                |              |                |              |
|                              | 9" (228.6 mm)             | RRFS0904      | RRFS0906      |                |                |                |              |                |              |
|                              | 6" (152.4 mm)             | RRFS0604      |               |                |                |                |              |                |              |



\* Considerar tabla 1.6 de medidas para crear código de producto.  
Consider table 1.6 of measurements to create product code.

## Ejemplo Código: RRFS- 36 - 04 - P314L - AL (Example Code)

### Ancho 1 (A1) (Width 1)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Ancho 2 (A2) (Width 2)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)

### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Material (Material)

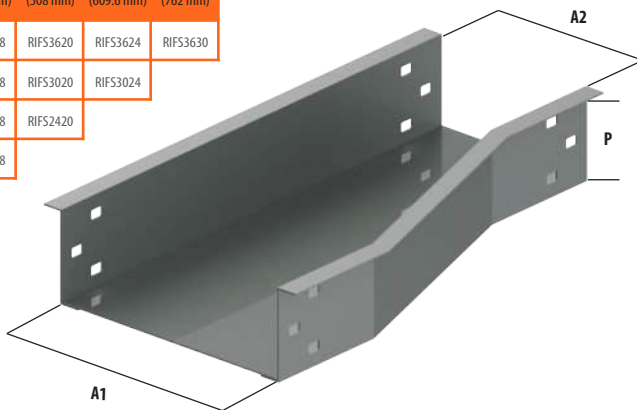
AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

## Reducción Izquierda Fondo Sólido

### Reducer left Solid Bottom

Tabla 1.7

|                              | A2 (Ancho 2) A2 (Width 2) |                  |                  |                   |                   |                   |                 |                   |                 |
|------------------------------|---------------------------|------------------|------------------|-------------------|-------------------|-------------------|-----------------|-------------------|-----------------|
|                              | 4"<br>(101.6 mm)          | 6"<br>(152.4 mm) | 9"<br>(228.6 mm) | 12"<br>(304.8 mm) | 16"<br>(406.4 mm) | 18"<br>(457.2 mm) | 20"<br>(508 mm) | 24"<br>(609.6 mm) | 30"<br>(762 mm) |
| A1 (Ancho 1)<br>A1 (Width 1) | 36"<br>(914.4 mm)         | RIFS3604         | RIFS3606         | RIFS3609          | RIFS3612          | RIFS3616          | RIFS3618        | RIFS3620          | RIFS3624        |
|                              | 30"<br>(762 mm)           | RIFS3004         | RIFS3006         | RIFS3009          | RIFS3012          | RIFS3016          | RIFS3018        | RIFS3020          | RIFS3024        |
|                              | 24"<br>(609.6 mm)         | RIFS2404         | RIFS2406         | RIFS2409          | RIFS2412          | RIFS2416          | RIFS2418        | RIFS2420          |                 |
|                              | 20"<br>(508 mm)           | RIFS2004         | RIFS2006         | RIFS2009          | RIFS2012          | RIFS2016          | RIFS2018        |                   |                 |
|                              | 18"<br>(457.2 mm)         | RIFS1804         | RIFS1806         | RIFS1809          | RIFS1812          | RIFS1816          |                 |                   |                 |
|                              | 16"<br>(406.4 mm)         | RIFS1604         | RIFS1606         | RIFS1609          | RIFS1612          |                   |                 |                   |                 |
|                              | 12"<br>(304.8 mm)         | RIFS1204         | RIFS1206         | RIFS1209          |                   |                   |                 |                   |                 |
|                              | 9"<br>(228.6 mm)          | RIFS0904         | RIFS0906         |                   |                   |                   |                 |                   |                 |
|                              | 6"<br>(152.4 mm)          | RIFS0604         |                  |                   |                   |                   |                 |                   |                 |



\* Considerar tabla 1.7 de medidas para crear código de producto.  
Consider table 1.7 of measurements to create product code.

## Ejemplo Código: RIFS- 36 - 04 - P314L - AL

(Example Code)

### Ancho1 (A1) (Width 1)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Ancho2 (A2) (Width 2)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)

### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Material (Material)

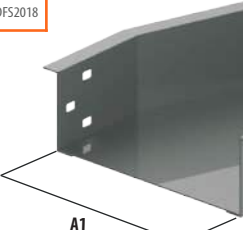
AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

## Reducción Derecha Fondo Sólido

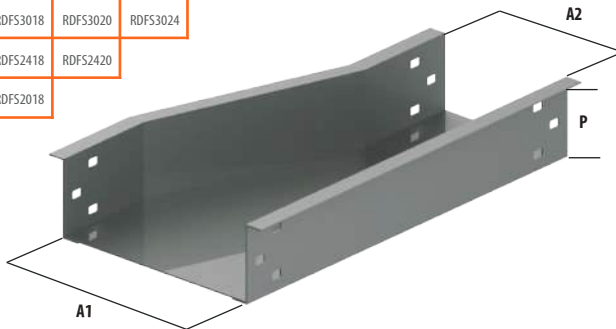
### Right reducer Solid Bottom

Tabla 1.8

|                              |                   | A2 (Ancho 2) |            |            |            | A2 (Width 2) |            |          |            |          |
|------------------------------|-------------------|--------------|------------|------------|------------|--------------|------------|----------|------------|----------|
|                              |                   | 4"           | 6"         | 9"         | 12"        | 16"          | 18"        | 20"      | 24"        | 30"      |
|                              |                   | (101.6 mm)   | (152.4 mm) | (228.6 mm) | (304.8 mm) | (406.4 mm)   | (457.2 mm) | (508 mm) | (609.6 mm) | (762 mm) |
| A1 (Ancho 1)<br>A1 (Width 1) | 36"<br>(914.4 mm) | RDFS3604     | RDFS3606   | RDFS3609   | RDFS3612   | RDFS3616     | RDFS3618   | RDFS3620 | RDFS3624   | RDFS3630 |
|                              | 30"<br>(762 mm)   | RDFS3004     | RDFS3006   | RDFS3009   | RDFS3012   | RDFS3016     | RDFS3018   | RDFS3020 | RDFS3024   |          |
|                              | 24"<br>(609.6 mm) | RDFS2404     | RDFS2406   | RDFS2409   | RDFS2412   | RDFS2416     | RDFS2418   | RDFS2420 |            |          |
|                              | 20"<br>(508 mm)   | RDFS2004     | RDFS2006   | RDFS2009   | RDFS2012   | RDFS2016     | RDFS2018   |          |            |          |
|                              | 18"<br>(457.2 mm) | RDFS1804     | RDFS1806   | RDFS1809   | RDFS1812   | RDFS1816     |            |          |            |          |
|                              | 16"<br>(406.4 mm) | RDFS1604     | RDFS1606   | RDFS1609   | RDFS1612   |              |            |          |            |          |
|                              | 12"<br>(304.8 mm) | RDFS1204     | RDFS1206   | RDFS1209   |            |              |            |          |            |          |
|                              | 9"<br>(228.6 mm)  | RDFS0904     | RDFS0906   |            |            |              |            |          |            |          |
|                              | 6"<br>(152.4 mm)  | RDFS0604     |            |            |            |              |            |          |            |          |



A1



\* Considerar tabla 1.8 de medidas para crear código de producto.  
Consider table 1.8 of measurements to create product code.

## Ejemplo Código: RDFS- 36 - 04 - P314L - AL

(Example Code)

### Ancho1 (A1) (Width 1)

06 6" (152.4 mm)  
09 9" (22.86 mm)  
12 12" (30.48 mm)  
16 16" (40.64 mm)  
18 18" (45.72 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Ancho2 (A2) (Width 2)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)

### Peralte (P) (Rail Height)

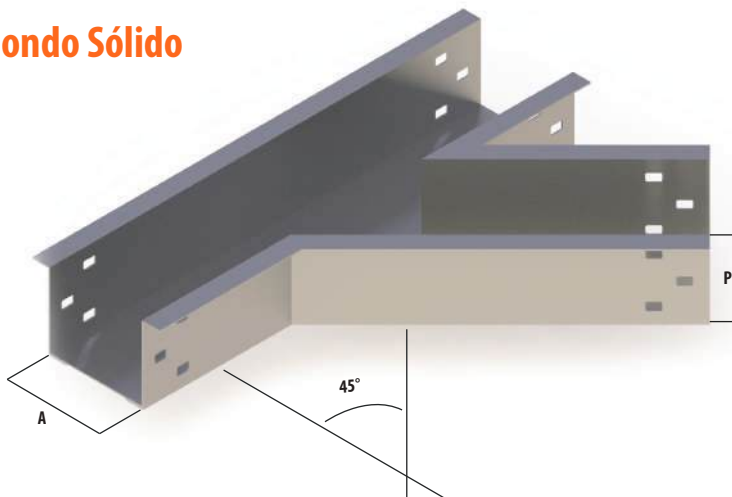
P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Derivación Derecha Fondo Sólido

#### Right Wye Solid Bottom



### Ejemplo Código: DDFS- 36 - P314L - AL

(Example Code)

#### Ancho (A) (Width)

- 06 6" (152.4 mm)
- 09 9" (228.6 mm)
- 12 12" (304.8 mm)
- 16 16" (406.4 mm)
- 18 18" (457.2 mm)
- 20 20" (508.0 mm)
- 24 24" (609.6 mm)
- 30 30" (762.0 mm)
- 36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

- P314L 3 1/4" Ligero/light
- P314P 3 1/4" Pesado/heavy
- P4 4"
- P412 4 1/2"
- P5 5"
- P6 6"

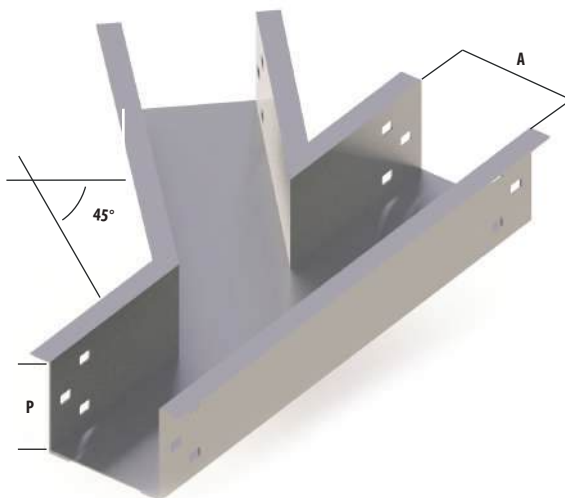
#### Material (Material)

- AL Aluminio/Aluminum
- PG Pregalvanizado/Pregalvanized
- GI Galvanizado por Inmersión/  
Hot Dip Galvanized
- IN Acero Inoxidable/ Stainless Steel



### Derivación Izquierda Fondo Sólido

#### Left Wye Solid Bottom



### Ejemplo Código: DIFS- 36 - P314L - AL

(Example Code)

#### Ancho (A) (Width)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

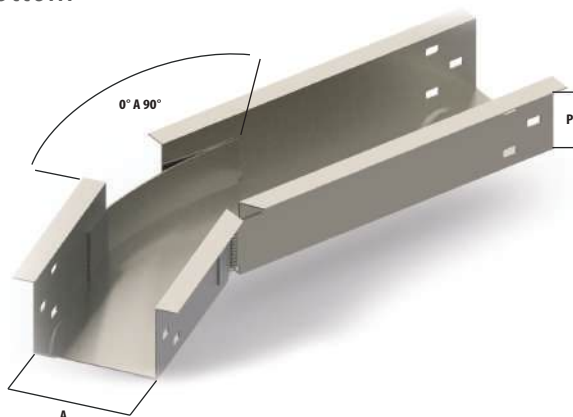
P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

## Curva Horizontal Ajustable Fondo Sólido

Horizontal Bend Adjustable Solid Bottom



### Ejemplo Código: CHAFS- 04 - P314L - AL

(Example Code)

#### Ancho (A) (Width)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Tramo recto Fondo Perforado

*Straight section Perforated Bottom*



### Ejemplo Código: TRFP - 04 - P314L - Z - AL

*(Example Code)*

#### Ancho (A)

*(Width)*

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P)

*(Rail Height)*

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Perfil

*(Rail Type)*

Z  
C

#### Material

*(Material)*

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Curva Horizontal Fondo Perforado

#### Horizontal Bend Perforated Bottom



**Ejemplo Código: CHFP - 04 - R08 - P314L - 90 - AL**  
(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Radio (R) (Radius)

08 8" (152.4 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Grado (Degree)

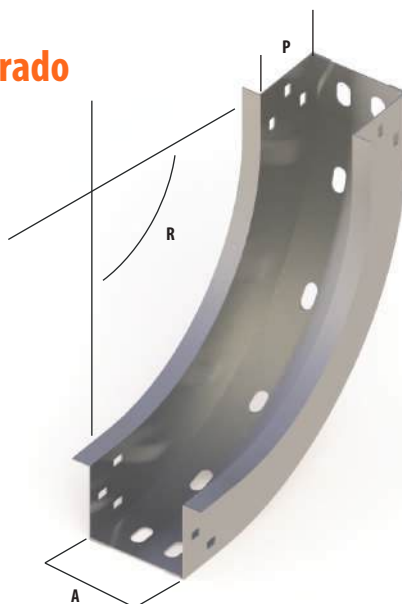
45 45°  
90 90°

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/ Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Curva Vertical Interior Fondo Perforado

#### Vertical Bend Inside Perforated Bottom



### Ejemplo Código: CVIFP - 04 - R08 - P314L - 90 - AL

(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Radio (R) (Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Grado (Degree)

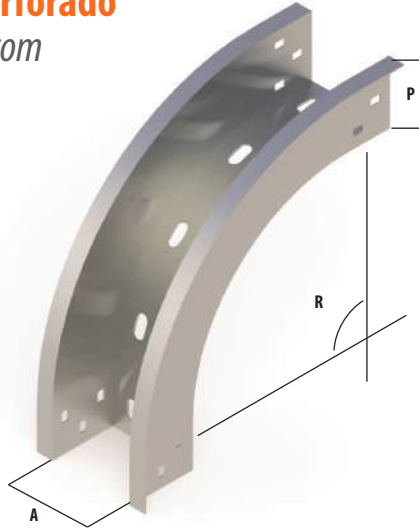
45 45°  
90 90°

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/ Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Curva Vertical Exterior Fondo Perforado

#### Vertical Bend Outside Perforated Bottom



**Ejemplo Código: CHFP - 04 - R08 - P314L - 90 - AL**  
(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Radio (R) (Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Grado (Degree)

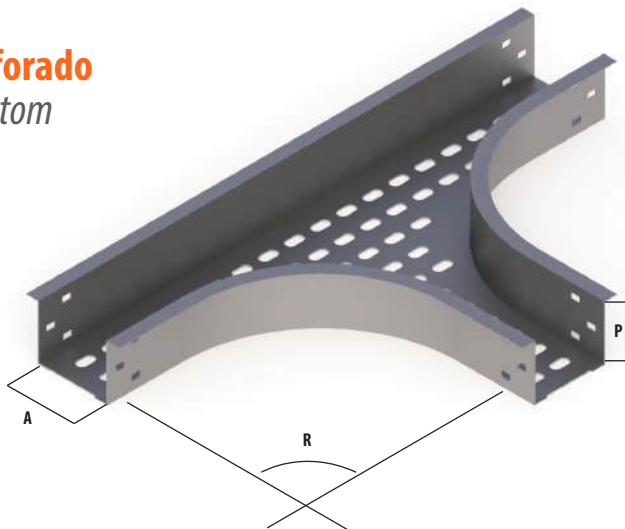
45 45°  
90 90°

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/ Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### T Horizontal Fondo Perforado

#### T Horizontal Perforated Bottom



### Ejemplo Código: THFP- 04 - R08 - P314L - AL

(Example Code)

#### Ancho (A)

(Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Radio (R)

(Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Peralte (P)

(Rail Height)

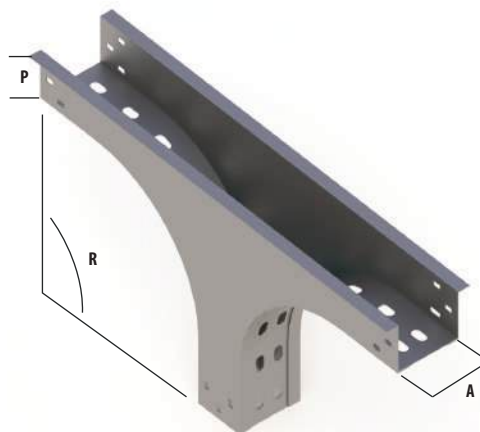
P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Material

(Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless  
Steel

**T Vertical Fondo Perforado**  
*T Vertical Bottom Perforated*



**Ejemplo Código: TVFP - 04 - R08 - P314L - AL**

(Example Code)

**Ancho (A)**  
(Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

**Radio (R)**  
(Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

**Peralte (P)**  
(Rail Height)

P314L 3 1/4" Ligero/light  
P314L 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

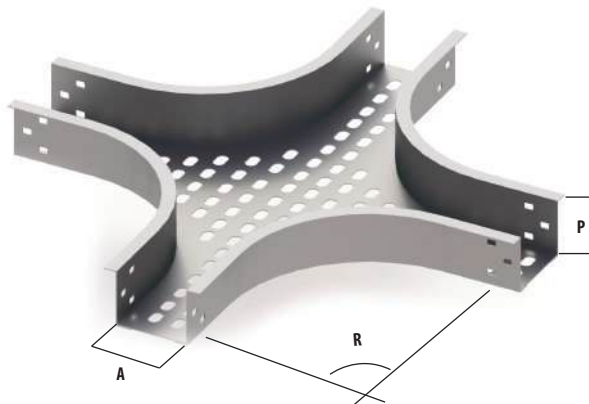
**Material**  
(Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel



## X Horizontal Fondo Perforado

X Horizontal Bottom Perforated



### Ejemplo Código: XHFP- 04 - R08 - P314L - AL

(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Radio (R) (Radius)

08 8" (203.2 mm)  
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

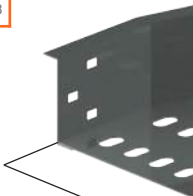
#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless  
Steel

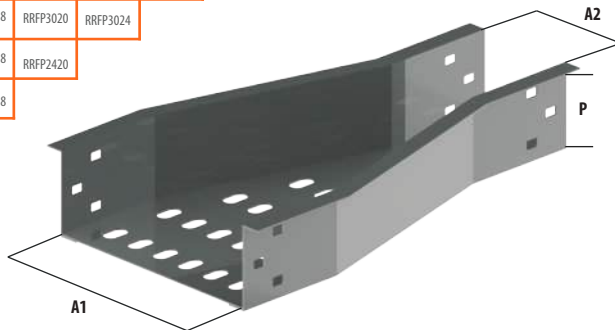
## Reducción Recta Fondo Perforado Straight Reducer Bottom Perforated

Tabla 1.9

|                              |                   | A2 (Ancho 2)     |                  |                  |                   | A2 (Width 2)      |                   |                 |                   |                 |
|------------------------------|-------------------|------------------|------------------|------------------|-------------------|-------------------|-------------------|-----------------|-------------------|-----------------|
|                              |                   | 4"<br>(101.6 mm) | 6"<br>(152.4 mm) | 9"<br>(228.6 mm) | 12"<br>(304.8 mm) | 16"<br>(406.4 mm) | 18"<br>(457.2 mm) | 20"<br>(508 mm) | 24"<br>(609.6 mm) | 30"<br>(762 mm) |
| A1 (Ancho 1)<br>A1 (Width 1) | 36"<br>(914.4 mm) | RRFP3604         | RRFP3606         | RRFP3609         | RRFP3612          | RRFP3616          | RRFP3618          | RRFP3620        | RRFP3624          | RRFP3630        |
|                              | 30"<br>(762 mm)   | RRFP3004         | RRFP3006         | RRFP3009         | RRFP3012          | RRFP3016          | RRFP3018          | RRFP3020        | RRFP3024          |                 |
|                              | 24"<br>(609.6 mm) | RRFP2404         | RRFP2406         | RRFP2409         | RRFP2412          | RRFP2416          | RRFP2418          | RRFP2420        |                   |                 |
|                              | 20"<br>(508 mm)   | RRFP2004         | RRFP2006         | RRFP2009         | RRFP2012          | RRFP2016          | RRFP2018          |                 |                   |                 |
|                              | 18"<br>(457.2 mm) | RRFP1804         | RRFP1806         | RRFP1809         | RRFP1812          | RRFP1816          |                   |                 |                   |                 |
|                              | 16"<br>(406.4 mm) | RRFP1604         | RRFP1606         | RRFP1609         | RRFP1612          |                   |                   |                 |                   |                 |
|                              | 12"<br>(304.8 mm) | RRFP1204         | RRFP1206         | RRFP1209         |                   |                   |                   |                 |                   |                 |
|                              | 9"<br>(228.6 mm)  | RRFP0904         | RRFP0906         |                  |                   |                   |                   |                 |                   |                 |
|                              | 6"<br>(152.4 mm)  | RRFP0604         |                  |                  |                   |                   |                   |                 |                   |                 |



**A1**



\* Considerar tabla 1.9 de medidas para crear código de producto.  
Consider table 1.9 of measurements to create product code.

## Ejemplo Código: RRFP- 36 - 04 - P314L - AL

(Example Code)

### Ancho1 (A1) (Width 1)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Ancho2 (A2) (Width 2)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)

### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless  
Steel

## Reducción Izquierda Fondo Perforado

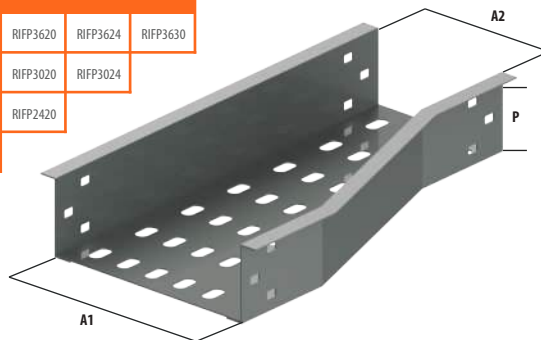
### Reducer Left Bottom Perforated

Tabla 1.10

|                              |                   | A2 (Ancho 2) A2 (Width 2) |                  |                  |                   |                   |                   |                 |                   |                 |
|------------------------------|-------------------|---------------------------|------------------|------------------|-------------------|-------------------|-------------------|-----------------|-------------------|-----------------|
|                              |                   | 4"<br>(101.6 mm)          | 6"<br>(152.4 mm) | 9"<br>(228.6 mm) | 12"<br>(304.8 mm) | 16"<br>(406.4 mm) | 18"<br>(457.2 mm) | 20"<br>(508 mm) | 24"<br>(609.6 mm) | 30"<br>(762 mm) |
| A1 (Ancho 1)<br>A1 (Width 1) | 36"<br>(914.4 mm) | RIFP3604                  | RIFP3606         | RIFP3609         | RIFP3612          | RIFP3616          | RIFP3618          | RIFP3620        | RIFP3624          | RIFP3630        |
|                              | 30"<br>(762 mm)   | RIFP3004                  | RIFP3006         | RIFP3009         | RIFP3012          | RIFP3016          | RIFP3018          | RIFP3020        | RIFP3024          |                 |
|                              | 24"<br>(609.6 mm) | RIFP2404                  | RIFP2406         | RIFP2409         | RIFP2412          | RIFP2416          | RIFP2418          | RIFP2420        |                   |                 |
|                              | 20"<br>(508 mm)   | RIFP2004                  | RIFP2006         | RIFP2009         | RIFP2012          | RIFP2016          | RIFP2018          |                 |                   |                 |
|                              | 18"<br>(457.2 mm) | RIFP1804                  | RIFP1806         | RIFP1809         | RIFP1812          | RIFP1816          |                   |                 |                   |                 |
|                              | 16"<br>(406.4 mm) | RIFP1604                  | RIFP1606         | RIFP1609         | RIFP1612          |                   |                   |                 |                   |                 |
|                              | 12"<br>(304.8 mm) | RIFP1204                  | RIFP1206         | RIFP1209         |                   |                   |                   |                 |                   |                 |
|                              | 9"<br>(228.6 mm)  | RIFP0904                  | RIFP0906         |                  |                   |                   |                   |                 |                   |                 |
|                              | 6"<br>(152.4 mm)  | RIFP0604                  |                  |                  |                   |                   |                   |                 |                   |                 |



A1



\* Considerar tabla 1.10 de medidas para crear código de producto.  
Consider table 1.10 of measurements to create product code.

## Ejemplo Código: RIFP- 36 - 04 - P314L- AL

(Example Code)

### Ancho1 (A1) (Width 1)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Ancho2 (A2) (Width 2)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)

### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless  
Steel

## Reducción Derecha Fondo Perforado

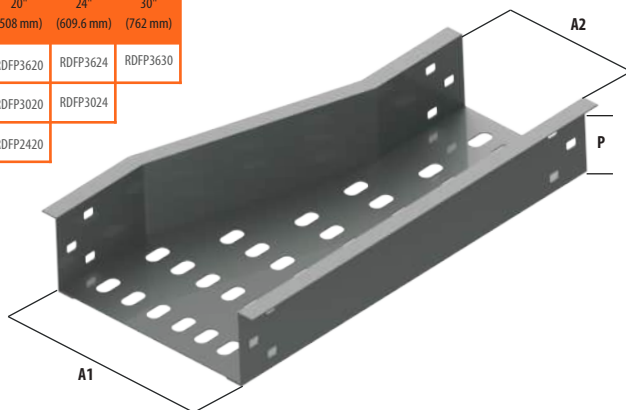
### Reducer Right Bottom Perforated

Tabla 1.11

|                           |                   | A2 (Ancho 2) A2 (Width 2) |                  |                  |                   |                    |                   |                 |                   |                 |
|---------------------------|-------------------|---------------------------|------------------|------------------|-------------------|--------------------|-------------------|-----------------|-------------------|-----------------|
|                           |                   | 4"<br>(101.6 mm)          | 6"<br>(152.4 mm) | 9"<br>(228.6 mm) | 12"<br>(304.8 mm) | 16"<br>(406.4 mm)* | 18"<br>(457.2 mm) | 20"<br>(508 mm) | 24"<br>(609.6 mm) | 30"<br>(762 mm) |
| A1 (Ancho 1) A1 (Width 1) | 36"<br>(914.4 mm) | RDFP3604                  | RDFP3606         | RDFP3609         | RDFP3612          | RDFP3616           | RDFP3618          | RDFP3620        | RDFP3624          | RDFP3630        |
|                           | 30"<br>(762 mm)   | RDFP3004                  | RDFP3006         | RDFP3009         | RDFP3012          | RDFP3016           | RDFP3018          | RDFP3020        | RDFP3024          |                 |
|                           | 24"<br>(609.6 mm) | RDFP2404                  | RDFP2406         | RDFP2409         | RDFP2412          | RDFP2416           | RDFP2418          | RDFP2420        |                   |                 |
|                           | 20"<br>(508 mm)   | RDFP2004                  | RDFP2006         | RDFP2009         | RDFP2012          | RDFP2016           | RDFP2018          |                 |                   |                 |
|                           | 18"<br>(457.2 mm) | RDFP1804                  | RDFP1806         | RDFP1809         | RDFP1812          | RDFP1816           |                   |                 |                   |                 |
|                           | 16"<br>(406.4 mm) | RDFP1604                  | RDFP1606         | RDFP1609         | RDFP1612          |                    |                   |                 |                   |                 |
|                           | 12"<br>(304.8 mm) | RDFP1204                  | RDFP1206         | RDFP1209         |                   |                    |                   |                 |                   |                 |
|                           | 9"<br>(228.6 mm)  | RDFP0904                  | RDFP0906         |                  |                   |                    |                   |                 |                   |                 |
|                           | 6"<br>(152.4 mm)  | RDFP0604                  |                  |                  |                   |                    |                   |                 |                   |                 |



A1



\* Considerar tabla 1.11 de medidas para crear código de producto.  
Consider table 1.11 of measurements to create product code.

## Ejemplo Código: RDFP- 36 - 04 - P314L - AL

(Example Code)

### Ancho1 (A1) (Width 1)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Ancho2 (A2) (Width 2)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)

### Peralte (P) (Rail Height)

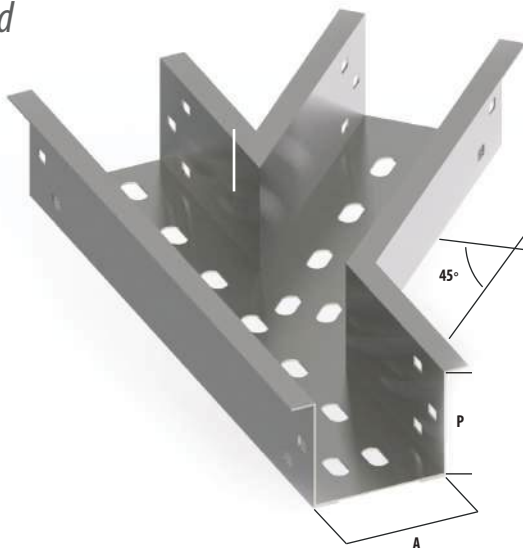
P314L 3 1/4" Ligero/ light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Derivación Derecha Fondo Perforado

#### Right Wye Bottom Perforated



### Ejemplo Código: DDFP- 36 - P314L - AL

(Example Code)

#### Ancho (A) (Width)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

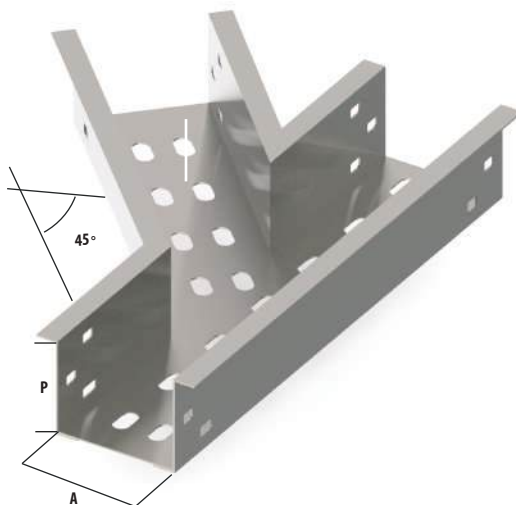
P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Derivación Izquierda Fondo Perforado

*Left Wye Bottom Perforated*



### Ejemplo Código: DIFP- 36 - P314L - AL

*(Example Code)*

#### Ancho (A) (Width)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

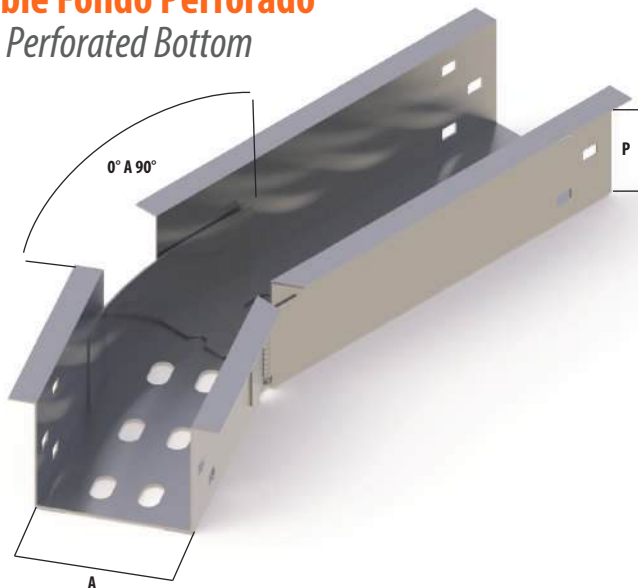
P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Curva Horizontal Ajustable Fondo Perforado

#### Horizontal Bend Adjustable Perforated Bottom



### Ejemplo Código: CHAFP- 04 - P314L - AL

(Example Code)

#### Ancho (A) (Width)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel



# Charolas

## Cable Trays



### Conector Recto para Charola

#### Straight Splice Plate

#### Ejemplo Código: CR- P314L - AL

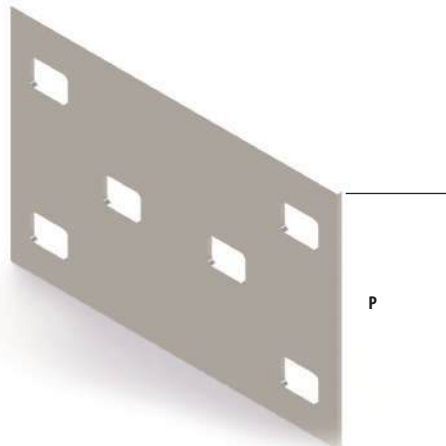
(Example Code)

##### Peralte (P) (Rail Height)

- P314L 3 1/4" Ligero/light
- P314P 3 1/4" Pesado/heavy
- P4 4"
- P412 4 1/2"
- P5 5"
- P6 6"

##### Material (Material)

- AL Aluminio/Aluminum
- PG Pregalvanizado/Pregalvanized
- GI Galvanizado por Inmersión/  
Hot Dip Galvanized
- IN Acero Inoxidable/ Stainless Steel



### Conector Z para Charola

#### Z Splice Plate

#### Ejemplo Código: CZ- P314L - AL

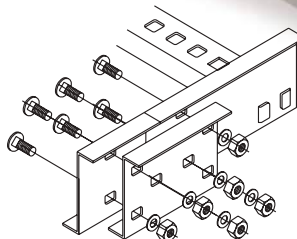
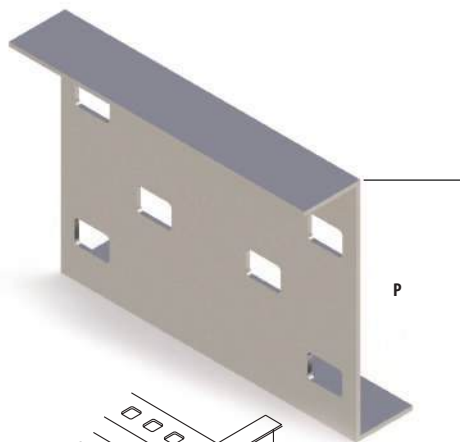
(Example Code)

##### Peralte (P) (Rail Height)

- P314L 3 1/4" Ligero/light
- P314P 3 1/4" Pesado/heavy
- P4 4"
- P412 4 1/2"
- P5 5"
- P6 6"

##### Material (Material)

- AL Aluminio/Aluminum
- PG Pregalvanizado/Pregalvanized
- GI Galvanizado por Inmersión/  
Hot Dip Galvanized
- IN Acero Inoxidable/ Stainless Steel







# Charolas

## Cable Trays



### Conector Ajustable para Charola

#### Horizontal Adjustable Connector

#### Ejemplo Código: CA - P314L - AL

(Example Code)

##### Peralte (P)

(Rail Height)

- P314L 3 1/4" Ligero/light
- P314P 3 1/4" Pesado/heavy
- P4 4"
- P412 4 1/2"
- P5 5"
- P6 6"

##### Material

(Material)

- AL Aluminio/Aluminum
- PG Pregalvanizado/Pregalvanized
- GI Galvanizado por Inmersión/  
Hot Dip Galvanized
- IN Acero Inoxidable/ Stainless Steel



P

### Elevador Ajustable para Charola

#### Vertical Adjustable Connector

#### Ejemplo Código: EA - P314L - AL

(Example Code)

##### Peralte (P)

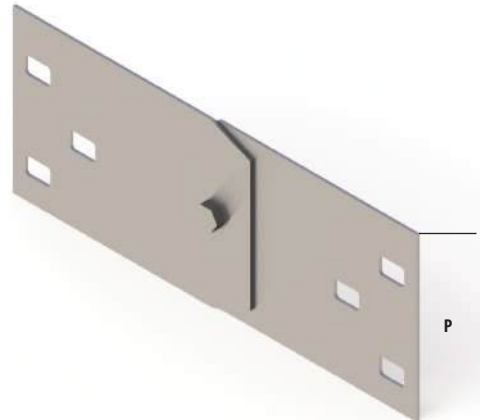
(Rail Height)

- P314L 3 1/4" Ligero/light
- P314P 3 1/4" Pesado/heavy
- P4 4"
- P412 4 1/2"
- P5 5"
- P6 6"

##### Material

(Material)

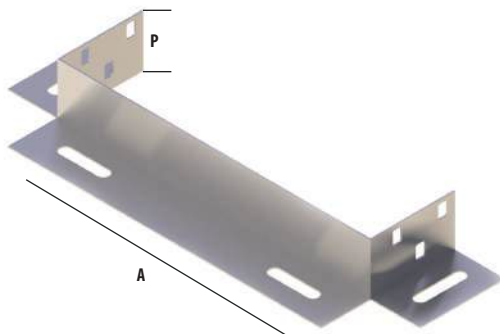
- AL Aluminio/Aluminum
- PG Pregalvanizado/Pregalvanized
- GI Galvanizado por Inmersión/  
Hot Dip Galvanized
- IN Acero Inoxidable/ Stainless Steel



P

### Conector a Caja para Charola

Connector to Box Tray



### Ejemplo Código: CC- 04 - P314L - AL

(Example Code)

#### Ancho (A) (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

#### Material (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel

### Tapa Terminal para Charola

#### Blind End

#### Ejemplo Código: TT - 04 - P314L - AL

(Example Code)

##### Ancho (A)

##### (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

##### Peralte (P)

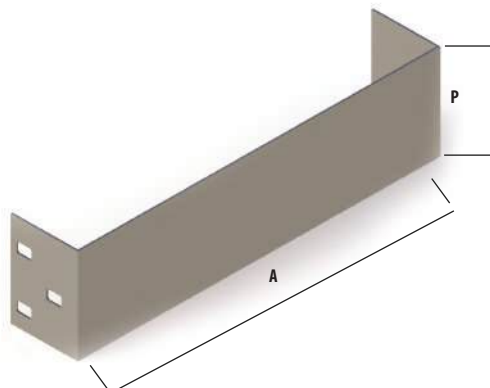
##### (Rail Height)

P314L 3 1/4" Ligero/light  
P314P 3 1/4" Pesado/heavy  
P4 4"  
P412 4 1/2"  
P5 5"  
P6 6"

##### Material

##### (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel



### Bajante de Cable para Charola

#### Drop-Out

#### Ejemplo Código: BDC- 04 - R2 - AL

(Example Code)

##### Ancho (A)

##### (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

##### Radio (R)

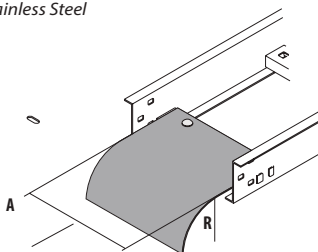
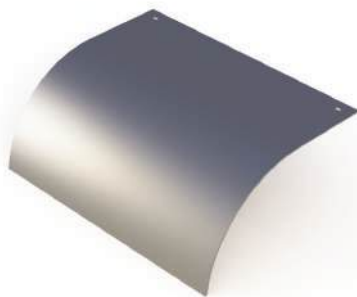
##### (Radius)

R2 2" (50 mm)  
R5 5" (127 mm)

##### Material

##### (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel



### Separador Tramo Recto para Charola

#### Straight Divider Strip

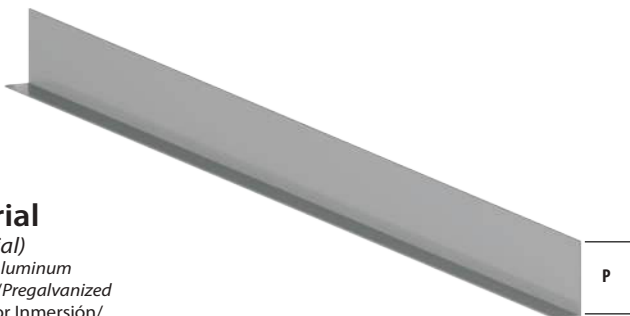
**Ejemplo Código: STR - P314L - AL**  
(Example Code)

#### Peralte (P) (Rail Height)

**P314L** 3 1/4" Ligero/light  
**P314P** 3 1/4" Pesado/heavy  
**P4** 4"  
**P412** 4 1/2"  
**P05** 5"  
**P06** 6"

#### Material (Material)

**AL** Aluminio/Aluminum  
**PG** Pregalvanizado/Pregalvanized  
**GI** Galvanizado por Inmersión/  
Hot Dip Galvanized  
**IN** Acero Inoxidable/ Stainless Steel



### Tapa Plana Perfil Z para Charola

#### Flat Cover Type

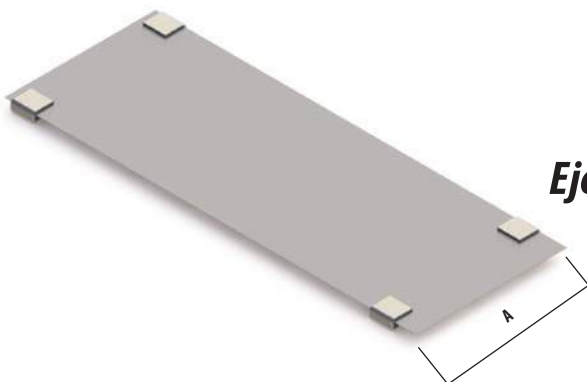
**Ejemplo Código: TP - 04 - AL**  
(Example Code)

#### Ancho (A) (Width)

**04** 4" (101.6 mm)  
**06** 6" (152.4 mm)  
**09** 9" (228.6 mm)  
**12** 12" (304.8 mm)  
**16** 16" (406.4 mm)  
**18** 18" (457.2 mm)  
**20** 20" (508 mm)  
**24** 24" (609.6 mm)  
**30** 30" (762.0 mm)  
**36** 36" (914.4 mm)

#### Material (Material)

**AL** Aluminio/Aluminum  
**PG** Pregalvanizado/Pregalvanized  
**GI** Galvanizado por Inmersión/  
Hot Dip Galvanized  
**IN** Acero Inoxidable/ Stainless Steel  
**FRP** Fibra de vidrio resina  
poliéster/ Polyester fiberglass  
**FRV** Fibra de vidrio resina  
vinilíster/ Vinyl ester fiberglass



### Tapa 2 Aguas Perfil Z para Charola

#### Peaket Cover Type

#### Ejemplo Código: TA - 04 - AL

(Example Code)

##### Ancho (A)

##### (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

##### Material

##### (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel



### Tapa con Ceja para Charola

#### Lid with eyebrow for tray

#### Ejemplo Código: TC - 04 - AL

(Example Code)

##### Ancho (A)

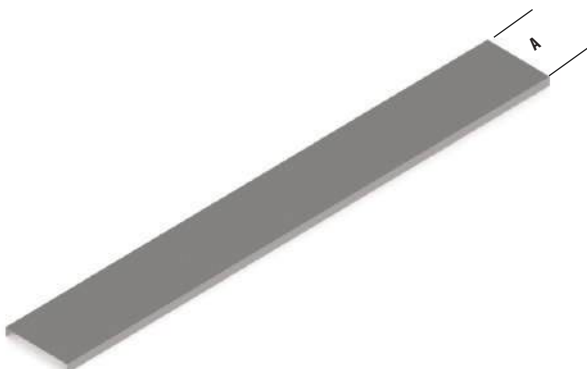
##### (Width)

04 4" (101.6 mm)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

##### Material

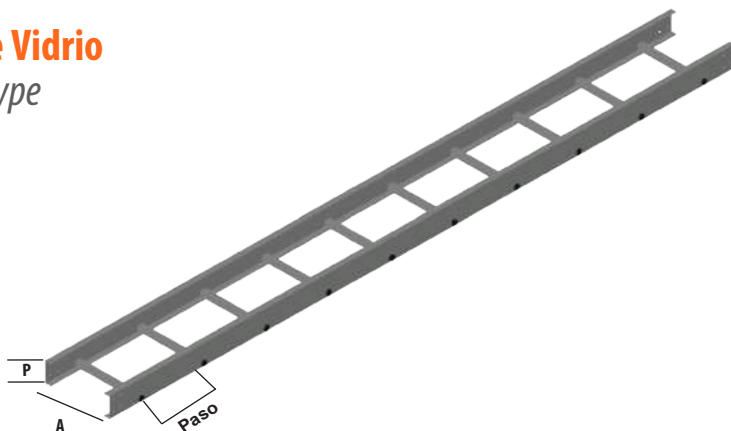
##### (Material)

AL Aluminio/Aluminum  
PG Pregalvanizado/Pregalvanized  
GI Galvanizado por Inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless Steel



### Tramo recto Tipo Fibra de Vidrio

#### Straight Section Fiberglass Type



### Ejemplo Código: TR - 06 - P6 - P3 - L3 - E1 - FV

(Example Code)

#### Ancho (A) (Width)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
18 18" (457.2 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Paso

(Rung Spacing)  
06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
18 18" (457.2 mm)

#### Peralte (P) (Rail Height)

P3 3"  
P4 4"  
P6 6"  
P8 8"

#### Longitud (L) (Length)

L3 3.05 m  
L6 6 m

#### Espesor (E) (Gauge)

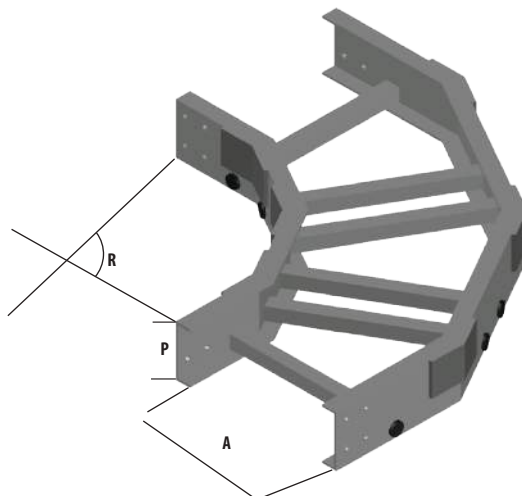
E1 1/4  
E3 3/16

#### Material (Material)

FV Fibra de vidrio/Fiberglass

### Curva Horizontal Fibra de Vidrio

#### Horizontal Bend Fiberglass



### Ejemplo Código: CHE - 06 - P3 - R12 - 45 - FV

(Example Code)

#### Ancho (A) (Width)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P3 3"  
P4 4"  
P6 6"  
P8 8"

#### Radio (R) (Radius)

12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Grado (Degree)

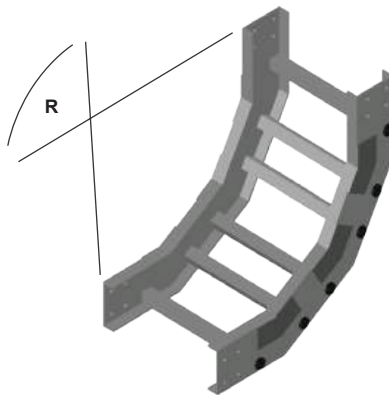
45 45°  
90 90°

#### Material (Material)

FV Fibra de vidrio/Fiberglass

### Curva Vertical Interior y Exterior Fibra de Vidrio

#### Vertical Bend Interior and Outside Fiberglass



### Ejemplo Código: CV - E - 04 - P4- R12 - 45 - FV

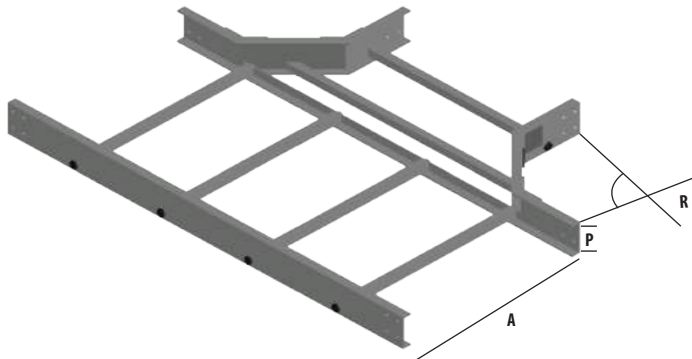
(Example Code)

| Tipo<br>(Type)      | Ancho<br>(Width)  | Peralte<br>(Rail Height) | Radio<br>(Radius) | Grado<br>(Degree) | Material<br>(Material)        |
|---------------------|-------------------|--------------------------|-------------------|-------------------|-------------------------------|
| E Exterior/Outside  | 06 6" (152.4 mm)  | P4 4"                    | 12 12" (304.8 mm) | 45 45°            | FV Fibra de vidrio/Fiberglass |
| I Interior/Interior | 09 9" (228.6 mm)  | P6 6"                    | 24 24" (609.6 mm) | 90 90°            |                               |
|                     | 12 12" (304.8 mm) |                          | 36 36" (914.4 mm) |                   |                               |
|                     | 16 16" (406.4 mm) |                          |                   |                   |                               |
|                     | 18 18" (457.2 mm) |                          |                   |                   |                               |
|                     | 20 20" (508.0 mm) |                          |                   |                   |                               |
|                     | 24 24" (609.6 mm) |                          |                   |                   |                               |
|                     | 30 30" (762.0 mm) |                          |                   |                   |                               |
|                     | 36 36" (914.4 mm) |                          |                   |                   |                               |



## T Horizontal Tipo Fibra de Vidrio

T Horizontal Fiberglass



### Ejemplo Código: THE - 06 - P4 - R12 - FV

(Example Code)

#### Ancho (A) (Width)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P) (Rail Height)

P4 4"  
P6 6"

#### Radio (R) (Radius)

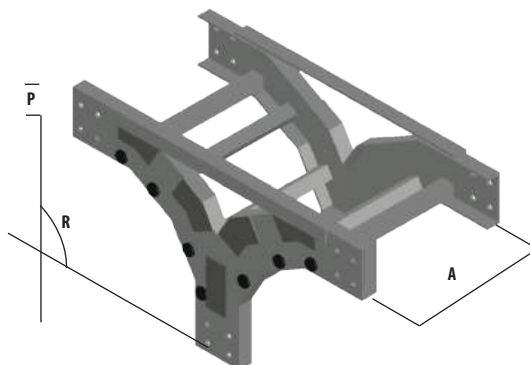
12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Material (Material)

FV Fibra de vidrio/Fiberglass

### T Vertical Tipo Fibra de Vidrio

#### T Vertical Fiberglass type



### Ejemplo Código: TVE - 06 - P4- R12 - FV

(Example Code)

#### Ancho (A)

(Width)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

#### Peralte (P)

(Rail Height)

P4 4"  
P6 6"

#### Radio (R)

(Radius)

12 12" (304.8 mm)  
24 24" (609.6 mm)  
36 36" (914.4 mm)

#### Material

(Material)

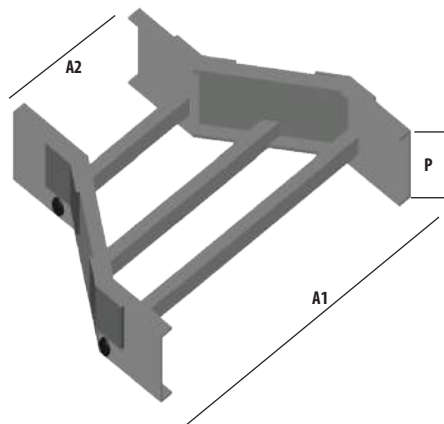
FV Fibra de vidrio/Fiberglass

## Reducción Recta Tipo Fibra de vidrio

### Straight fiberglass type reducer

Tabla 1.12

|                              | A2 (Ancho 2) A2 (Width 2) |            |            |            |            |          |            |           |
|------------------------------|---------------------------|------------|------------|------------|------------|----------|------------|-----------|
|                              | 6"                        | 9"         | 12"        | 16"        | 18"        | 20"      | 24"        | 30"       |
|                              | (152.4 mm)                | (228.6 mm) | (304.8 mm) | (406.4 mm) | (457.2 mm) | (508 mm) | (60.96 mm) | (76.2 mm) |
| A1 (Ancho 1)<br>A1 (Width 1) | 36"<br>(914.4 mm)         | RR3606     | RR3609     | RR3612     | RR3616     | RR3618   | RR3620     | RR3624    |
|                              | 30"<br>(762 mm)           | RR3006     | RR3009     | RR3012     | RR3016     | RR3018   | RR3020     | RR3024    |
|                              | 24"<br>(609.6 mm)         | RR2406     | RR2409     | RR2412     | RR2416     | RR2418   | RR2420     | RR2424    |
|                              | 20"<br>(508 mm)           | RR2006     | RR2009     | RR2012     | RR2016     | RR2018   | RR2020     |           |
|                              | 18"<br>(457.2 mm)         | RR1806     | RR1809     | RR1812     | RR1816     | RR1818   |            |           |
|                              | 16"<br>(406.4 mm)         | RR1606     | RR1609     | RR1612     | RR1616     |          |            |           |
|                              | 12"<br>(304.8 mm)         | RR1206     | RR1209     | RR1212     |            |          |            |           |
|                              | 9"<br>(228.6 mm)          | RR0906     | RR0909     |            |            |          |            |           |



\* Considerar tabla 1.12 de medidas para crear código de producto.  
Consider table 1.12 of measurements to create product code.

## Ejemplo Código: RRE- 36 - 06 - P4 - FV

(Example Code)

### Ancho1 (A1) (Width 1)

09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Ancho2 (A2) (Width 2)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)

### Peralte (P) (Rail Height)

P4 4"  
P6 6"

### Material (Material)

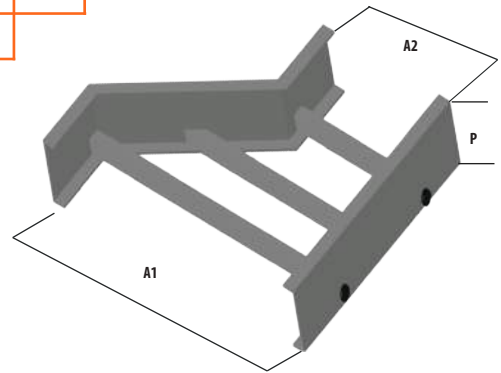
FV Fibra de vidrio/ Fiberglass

## Reducción Izquierda Tipo Fibra de Vidrio

### Left fiberglass type reducer

Tabla 1.13

|                              |                   | A2 (Ancho 2)     |                  |                   |                   | A2 (Width 2)      |                 |                   |                 |
|------------------------------|-------------------|------------------|------------------|-------------------|-------------------|-------------------|-----------------|-------------------|-----------------|
|                              |                   | 6"<br>(152.4 mm) | 9"<br>(228.6 mm) | 12"<br>(304.8 mm) | 16"<br>(406.4 mm) | 18"<br>(457.2 mm) | 20"<br>(508 mm) | 24"<br>(609.6 mm) | 30"<br>(762 mm) |
| A1 (Ancho 1)<br>A1 (Width 1) | 36"<br>(914.4 mm) | RI3606           | RI3609           | RI3612            | RI3616            | RI3618            | RI3620          | RI3624            | RI3630          |
|                              | 30"<br>(762 mm)   | RI3006           | RI3009           | RI3012            | RI3016            | RI3018            | RI3020          | RI3024            |                 |
|                              | 24"<br>(609.6 mm) | RI2406           | RI2409           | RI2412            | RI2416            | RI2418            | RI2418          |                   |                 |
|                              | 20"<br>(508 mm)   | RI2006           | RI2009           | RI2012            | RI2016            | RI2018            |                 |                   |                 |
|                              | 18"<br>(457.2 mm) | RI1806           | RI1809           | RI1812            | RI1816            |                   |                 |                   |                 |
|                              | 16"<br>(406.4 mm) | RI1606           | RI1609           | RI1612            |                   |                   |                 |                   |                 |
|                              | 12"<br>(304.8 mm) | RI1206           | RI1209           |                   |                   |                   |                 |                   |                 |
|                              | 9"<br>(228.6 mm)  | RI0906           |                  |                   |                   |                   |                 |                   |                 |



\* Considerar tabla 1.13 de medidas para crear código de producto.  
Consider table 1.13 of measurements to create product code.

## Ejemplo Código: RIE- 36 - 06 - P4 - FV

(Example Code)

**Ancho1 (A1)**  
(Width 1)

09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

**Ancho2 (A2)**  
(Width 2)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)

**Peralte (P)**  
(Rail Height)

P4 4"  
P6 6"

**Material**  
(Material)

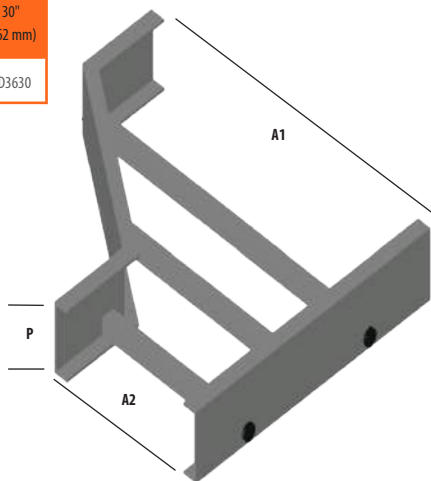
FV Fibra de vidrio/ Fiberglass

## Reducción Derecha Tipo Fibra de Vidrio

### Right fiberglass type reducer

Tabla 1.14

|                           | A2 (Ancho 2) A2 (Width 2) |               |                |                |                |              |                |              |
|---------------------------|---------------------------|---------------|----------------|----------------|----------------|--------------|----------------|--------------|
|                           | 6" (152.4 mm)             | 9" (228.6 mm) | 12" (304.8 mm) | 16" (406.4 mm) | 18" (457.2 mm) | 20" (508 mm) | 24" (609.6 mm) | 30" (762 mm) |
| A1 (Ancho 1) A1 (Width 1) | 36" (914.4 mm)            | RD3606        | RD3609         | RD3612         | RD3616         | RD3618       | RD3620         | RD3624       |
|                           | 30" (762 mm)              | RD3006        | RD3009         | RD3012         | RD3016         | RD3018       | RD3020         | RD3024       |
|                           | 24" (609.6 mm)            | RD2406        | RD2409         | RD2412         | RD2416         | RD2418       | RD2420         |              |
|                           | 20" (508 mm)              | RD2006        | RD2009         | RD2012         | RD2016         | RD2018       |                |              |
|                           | 18" (457.2 mm)            | RD1806        | RD1809         | RD1812         | RD1816         |              |                |              |
|                           | 16" (406.4 mm)            | RD1606        | RD1609         | RD1612         |                |              |                |              |
|                           | 12" (304.8 mm)            | RD1206        | RD1209         |                |                |              |                |              |
|                           | 9" (228.6 mm)             | RD0906        |                |                |                |              |                |              |



\* Considerar tabla 1.14 de medidas para crear código de producto.  
Consider table 1.14 of measurements to create product code.

## Ejemplo Código: RIE- 36 - 06 - P4 - FV

(Example Code)

### Ancho1 (A1) (Width 1)

09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)  
36 36" (914.4 mm)

### Ancho2 (A2) (Width 2)

06 6" (152.4 mm)  
09 9" (228.6 mm)  
12 12" (304.8 mm)  
16 16" (406.4 mm)  
18 18" (457.2 mm)  
20 20" (508.0 mm)  
24 24" (609.6 mm)  
30 30" (762.0 mm)

### Peralte (P) (Rail Height)

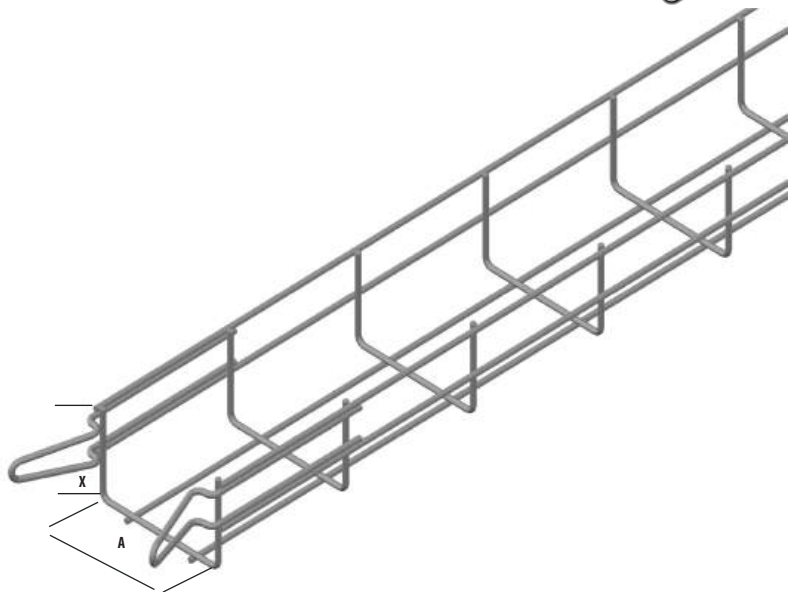
P4 4"  
P6 6"

### Material (Material)

FV Fibra de vidrio/ Fiberglass

### Charola Tipo Malla

#### Cable Basket Tray



## Ejemplo Código: EC- 30- 60 - EZ

(Example Code)

### Alto (X) (Height)

30 1" (35 mm)  
60 2.5" (60 mm)  
100 4" (100.8 mm)  
150 6" (150 mm)

### Ancho (A) (Width)

60 3" (66 mm)  
100 4" (102 mm)  
150 6" (150 mm)  
200 8" (202 mm)  
300 12" (302 mm)  
400 16" (402 mm)  
500 20" (502 mm)  
600 24" (602 mm)

### Material (Material)

**EZ** Galvanizado Electrolítico/  
Electrolytic Galvanized  
**HDG** Galvanizado por inmersión  
/ Hot Dip Galvanized  
**IN** Acero Inoxidable / Stainless  
Steel

### NOTA:

Para el alto de 30 aplica los anchos de 60 a 300  
Para el alto de 60 aplica los anchos de 100 a 600  
Para el alto de 100 aplica los anchos de 150 a 600  
Para el alto de 150 aplica los anchos de 200 a 600

### NOTE:

For the height 30 apply the widths from 60 to 300  
For the height of 60 apply the widths from 100 to 600  
For the height of 100 apply the widths from 150 to 600  
For the height of 150 apply the widths from 200 to 600

# Charolas

## Cable Trays



### Soporte a pared reforzado clic

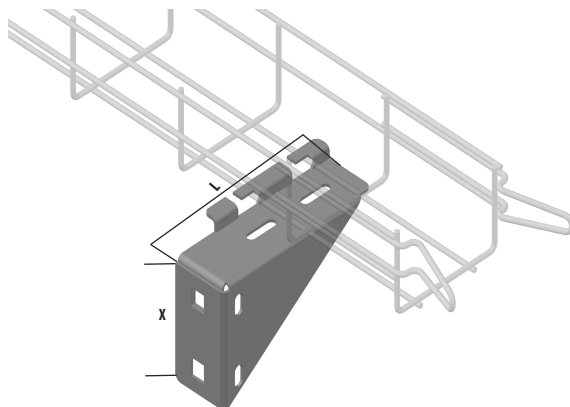
#### Reinforced fast support for wall clic

#### Ejemplo Código: SE- 100 - EZ

(Example Code)

| Alto (X)<br>(Height) | Largo (L)<br>(Length) |
|----------------------|-----------------------|
| 100 3 1/2" (86 mm)   | 100 5 1/2" (140 mm)   |
| 150 3 1/2" (86 mm)   | 150 7 1/2" (190 mm)   |
| 200 3 1/2" (86 mm)   | 200 9 1/2" (240 mm)   |
| 300 4 1/4" (110 mm)  | 300 13 1/2" (340 mm)  |
| 400 4 3/4" (120 mm)  | 400 17 1/4" (440 mm)  |
| 500 6 1/4" (160 mm)  | 500 21 1/4" (540 mm)  |
| 600 6 1/4" (160 mm)  | 600 25 1/4" (640 mm)  |

| Material<br>(Material)                                   |
|----------------------------------------------------------|
| EZ Galvanizado Electrolítico/<br>Electrolitic Galvanized |
| HDG Galvanizado por inmersión /<br>Hot Dip Galvanized    |
| IN Acero Inoxidable / Stainless<br>Steel                 |



### Soporte omega clic pared

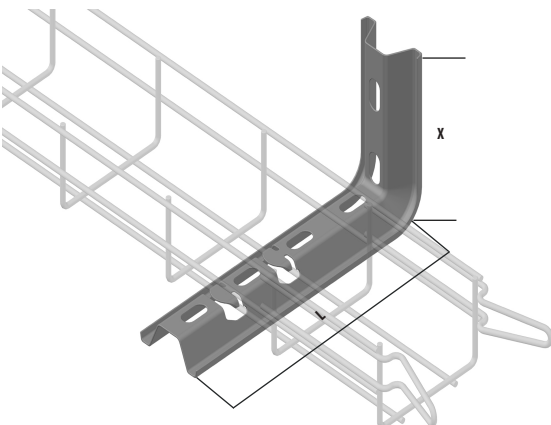
#### Clic omega support for wall

#### Ejemplo Código: SOC- 10 - EZ

(Example Code)

| Alto (X)<br>(Height) | Largo (L)<br>(Length) |
|----------------------|-----------------------|
| 4 1/2" (115 mm)      | 10 8 1/2" (215 mm)    |
|                      | 15 10 1/2" (265 mm)   |
|                      | 20 12 1/2" (315 mm)   |
|                      | 30 16 1/2" (415 mm)   |
|                      | 40 20 1/2" (515 mm)   |

| Material<br>(Material)                                   |
|----------------------------------------------------------|
| EZ Galvanizado Electrolítico/<br>Electrolitic Galvanized |
| HDG Galvanizado por inmersión /<br>Hot Dip Galvanized    |
| IN Acero Inoxidable / Stainless<br>Steel                 |



### Soporte omega clic techo

*Clic omega support for ceiling*

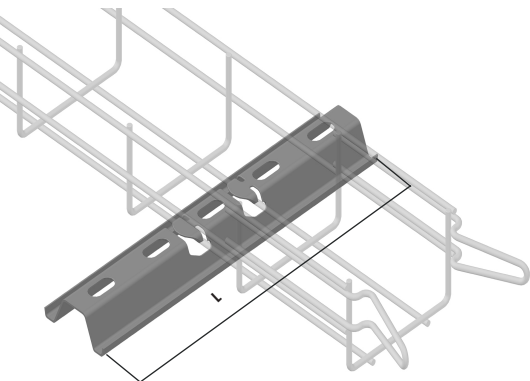
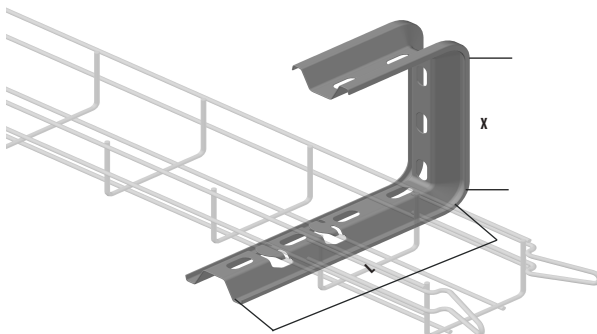
#### Ejemplo Código: SOPC- 10 - SG

(Example Code)

**Alto (X)**  
(Height)  
7" (180 mm)

**Largo (L)**  
(Length)  
10 8 1/2" (215 mm)  
15 10 1/2" (265 mm)  
20 12 1/2" (315 mm)  
30 16 1/2" (415 mm)

**Material**  
(Material)  
SG Pregalvanizado/  
Pregalvanized  
HDG Galvanizado por inmersión /  
Hot Dip Galvanized  
IN Acero Inoxidable / Stainless  
Steel



### Soporte omega clic suspensión

*Clic omega suspension*

#### Ejemplo Código: SOA- 10 - SG

(Example Code)

**Largo (L)**  
(Length)  
10 10" (250 mm)  
15 12" (300 mm)  
20 14" (350 mm)  
30 18" (450 mm)  
40 22" (550 mm)  
50 26" (650 mm)  
60 30" (750 mm)

**Material**  
(Material)  
SG Pregalvanizado/  
Pregalvanized  
HDG Galvanizado por inmersión /  
Hot Dip Galvanized  
IN Acero Inoxidable / Stainless  
Steel



### Soporte a pared

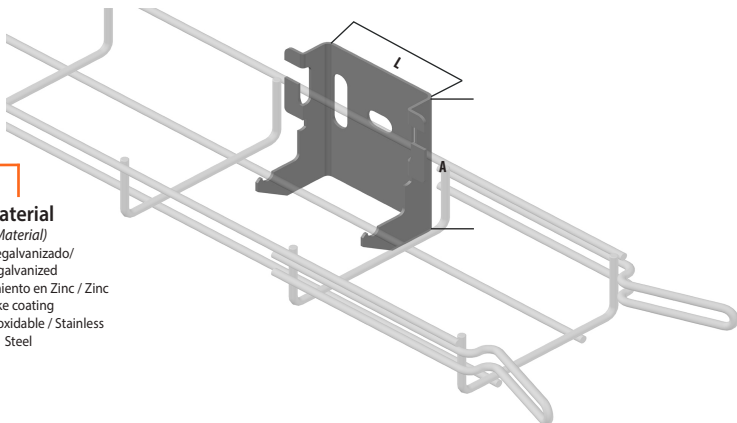
#### Wall support

**Ejemplo Código: PS - 30 - SG**  
(Example Code)

**Ancho (A)**  
(Width)  
2 1/2" (180 mm)

**Largo (L)**  
(Length)  
30 3" (75 mm)

**Material**  
(Material)  
**SG** Pregalvanizado/  
Pregalvanized  
**ZF** Recubrimiento en Zinc / Zinc  
flake coating  
**IN** Acero Inoxidable / Stainless  
Steel



### Soporte a pared caja derivación

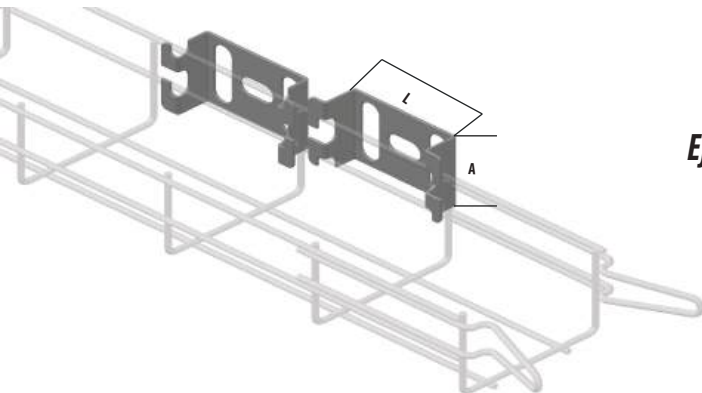
#### Wall support derivation box

**Ejemplo Código: PS - 60 - SG**  
(Example Code)

**Ancho (A)**  
(Width)  
2" (50 mm)

**Largo (L)**  
(Length)  
60 2 3/4" (70 mm)

**Material**  
(Material)  
**SG** Pregalvanizado/  
Pregalvanized  
**ZF** Recubrimiento en Zinc / Zinc  
flake coating  
**IN** Acero Inoxidable / Stainless  
Steel



# Charolas

## Cable Trays



### Pequeño soporte

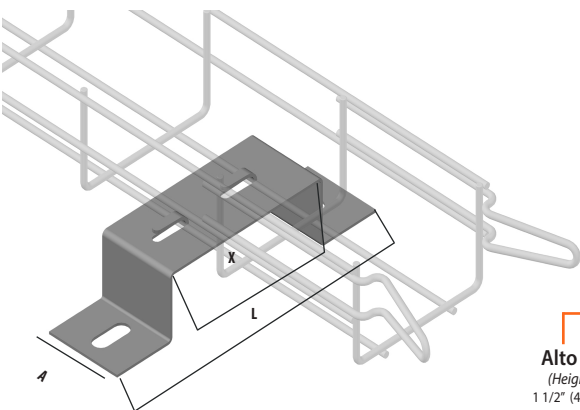
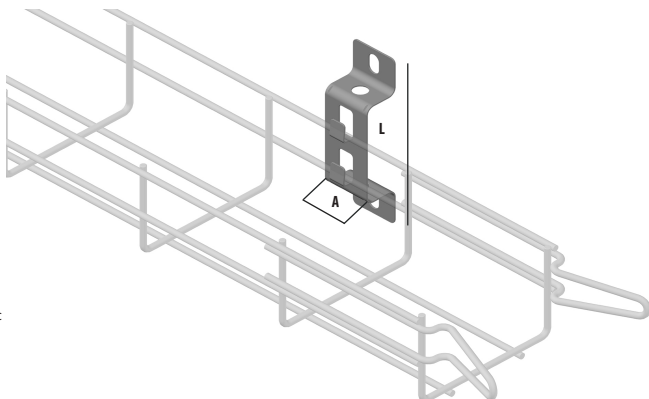
#### Small support

**Ejemplo Código: SE - SG**  
(Example Code)

**Ancho (A)**  
(Width)  
1 1/4" (30 mm)

**Largo (L)**  
(Length)  
4" (110 mm)

**Material**  
(Material)  
**SG** Pregalvanizado/  
Pregalvanized  
**ZF** Recubrimiento en Zinc / Zinc  
flake coating  
**IN** Acero Inoxidable / Stainless  
Steel



### Soporte pared distanciador

#### Spacer ground support

**Ejemplo Código: SD - 60 - SG**  
(Example Code)

**Alto (X)**  
(Height)  
1 1/2" (40 mm)

**Ancho (A)**  
(Width)  
2" (50 mm)

**Largo (L)**  
(Length)  
60 3" (80 mm)  
100 4 1/2" (112 mm)  
150 6 1/4" (162 mm)  
200 8 1/4" (212 mm)  
300 12 1/4" (312 mm)  
400 16 1/4" (412 mm)  
500 20 1/4" (512 mm)  
600 24 1/4" (612 mm)

**Material**  
(Material)  
**SG** Pregalvanizado/  
Pregalvanized  
**ZF** Recubrimiento en Zinc / Zinc  
flake coating  
**IN** Acero Inoxidable / Stainless  
Steel

# Charolas

## Cable Trays



### Caja de Derivación

#### Derivation Box

**Ejemplo Código: DB - 30 - SG**

(Example Code)

**Ancho (A)**  
(Width)

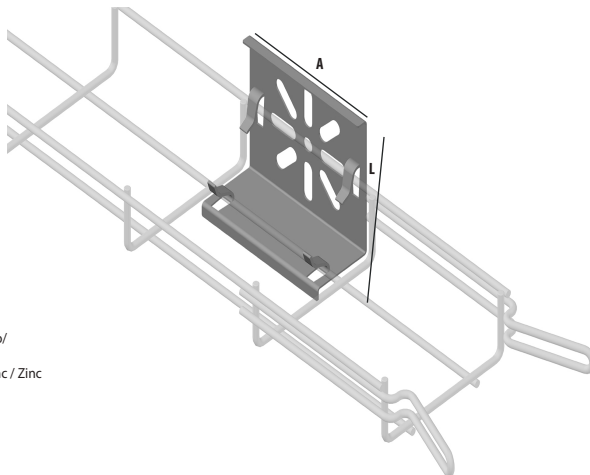
30 2 3/4" (70 mm)  
100 3 3/4" (95 mm)

**Largo (L)**  
(Length)

30 3 1/2" (90 mm)  
100 2 3/4" (70 mm)

**Material**  
(Material)

SG Pregalvanizado/  
Pregalvanized  
ZF Recubrimiento en Zinc / Zinc  
flake coating



### Separador clic

#### Clic tray divider plate

**Ejemplo Código: SEP - 30 - SG**

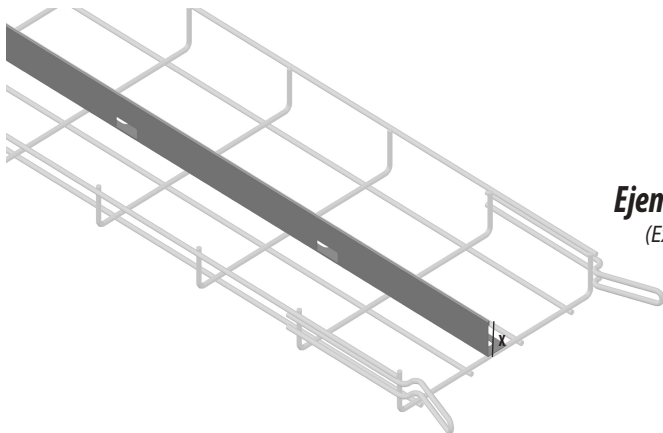
(Example Code)

**Alto (X)**  
(Height)

30 1 1/4" (30 mm)  
60 2" (50 mm)  
100 3 1/2" (90 mm)

**Material**  
(Material)

SG Pregalvanizado/  
Pregalvanized  
HDG Galvanizado por inmersión/  
Hot Dip Galvanized  
IN Acero Inoxidable/ Stainless  
Steel  
ZF Recubrimiento en Zinc / Zinc  
flake coating



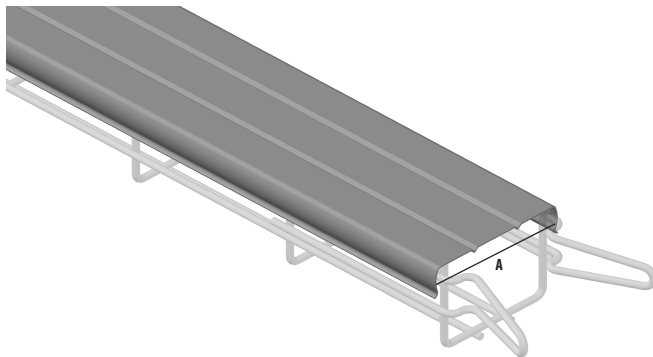
# Charolas

## Cable Trays



### Tapa clic

Includes C-Sep coupler



#### Ejemplo Código: DB - 30 - SG

(Example Code)

##### Ancho (A)

(Width)

60 3" (76 mm)  
100 4" (102 mm)  
150 6" (152 mm)  
200 8" (203 mm)  
300 12" (304 mm)  
400 16" (406 mm)  
500 20" (508 mm)  
600 24" (609 mm)

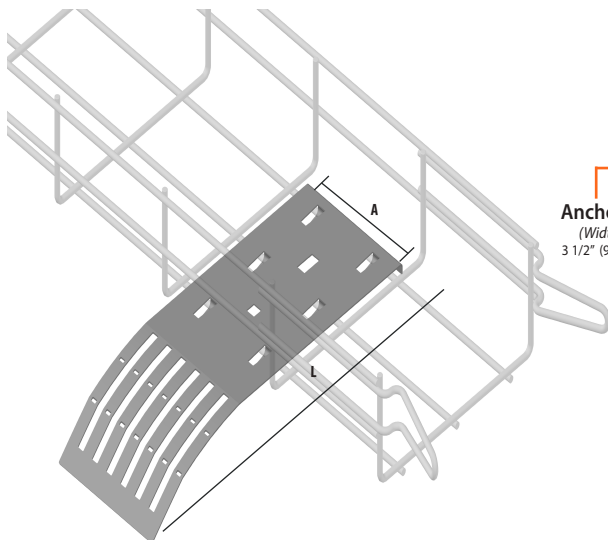
##### Material

(Material)

SG Pregalvanizado/  
Pregalvanized  
HDG Galvanizado por inmersión/  
Hot Dip Galvanized

### Salida de cables clic

Cable drop-out plate



#### Ejemplo Código: SC - SG

(Example Code)

##### Ancho (A)

(Width)

3 1/2" (90 mm)

##### Largo (L)

(Length)

9" (230 mm)

##### Material

(Material)

SG Pregalvanizado/  
Pregalvanized  
IN Acero Inoxidable / Stainless  
Steel  
ZF Recubrimiento en Zinc / Zinc  
flake coating

# Charolas

## Cable Trays



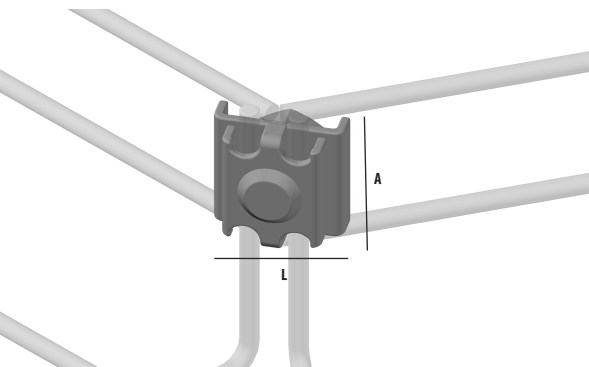
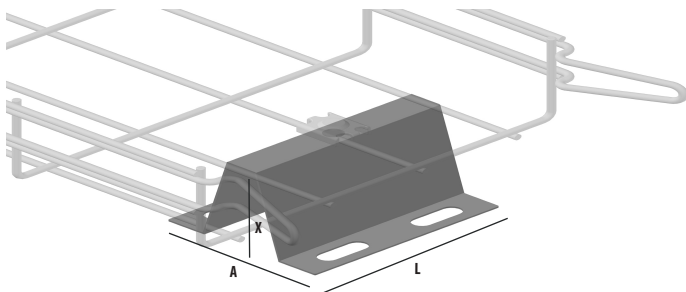
### Soporte a suelo

#### Ground support

#### Ejemplo Código: SAS - SG

(Example Code)

| Alto (X)<br>(Height) | Ancho (A)<br>(Width) | Largo (L)<br>(Length) | Material<br>(Material)                           |
|----------------------|----------------------|-----------------------|--------------------------------------------------|
| 2 1/4" (60 mm)       | 3 1/4" (80 mm)       | 4" (100 mm)           | SG Pregalvanizado/<br>Pregalvanized              |
|                      |                      |                       | IN Acero Inoxidable / Stainless<br>Steel         |
|                      |                      |                       | ZF Recubrimiento en Zinc / Zinc<br>flake coating |



### Unión Universal

#### Guide plate for profiles

#### Ejemplo Código: UU - SG

(Example Code)

| Ancho (A)<br>(Width) | Largo (L)<br>(Length) | Material<br>(Material)                           |
|----------------------|-----------------------|--------------------------------------------------|
| 1" (25 mm)           | 1" (25 mm)            | SG Pregalvanizado/<br>Pregalvanized              |
|                      |                       | IN Acero Inoxidable / Stainless<br>Steel         |
|                      |                       | ZF Recubrimiento en Zinc / Zinc<br>flake coating |

### Tope pared soporte omega

#### Omega Spacer Support

#### Ejemplo Código: ENT - SG

(Example Code)

**Ancho (A)**

(Width)

3/4" (20 mm)

**Largo (L)**

(Length)

1 1/2" (40 mm)

**Material**

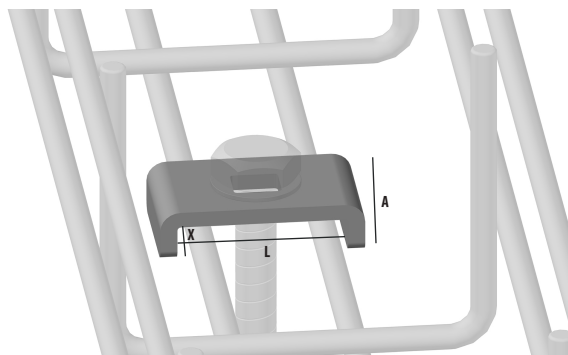
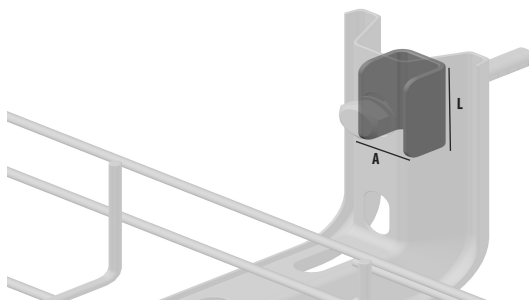
(Material)

**SG** Pregalvanizado/

Pregalvanized

**IN** Acero Inoxidable / Stainless Steel

**ZF** Recubrimiento en Zinc / Zinc flake coating



### Contra Placa

#### Hold Down Plate

#### Ejemplo Código: CP - SG

(Example Code)

**Alto (X)**

(Height)

1/4" (8 mm)

**Ancho (A)**

(Width)

3/4" (20 mm)

**Largo (L)**

(Length)

1 1/4" (30 mm)

**Material**

(Material)

**IN** Acero Inoxidable / Stainless Steel

**ZF** Recubrimiento en Zinc / Zinc flake coating

### Soporte omega clic lineal

#### Lineal omega click support

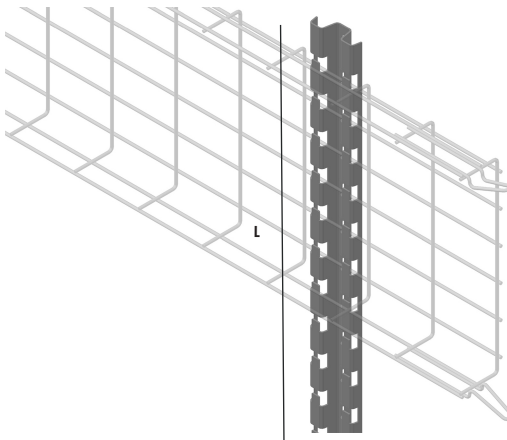
**Ejemplo Código: SOAL - 1 - SG**  
(Example Code)

**Largo (L)**  
(Length)

- 1 40" (1000 mm)
- 2 80" (2000 mm)
- 3 120" (3000 mm)

**Material**  
(Material)

- SG Pregalvanizado/ Pregalvanized
- IN Acero Inoxidable / Stainless Steel
- HDG Inmersión en Caliente / Hot dip galvanized



### Soporte Suspensión

#### Derivation box

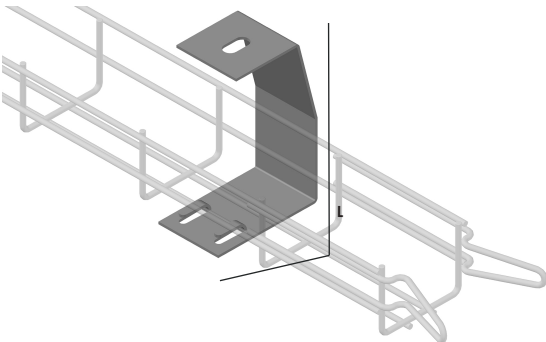
**Ejemplo Código: OHC - 60 - SG**  
(Example Code)

**Largo (L)**  
(Length)

- 60 3" (83mm)
- 100 4" (104 mm)
- 150 6" (154 mm)

**Material**  
(Material)

- SG Pregalvanizado/ Pregalvanized
- IN Acero Inoxidable / Stainless Steel



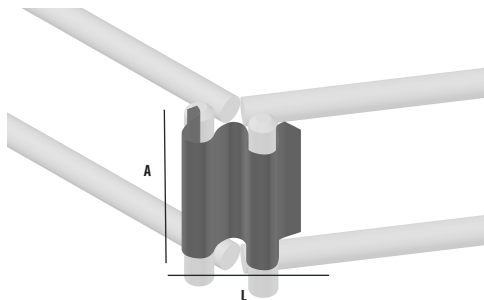
# Charolas

## Cable Trays



### Conector Mcllc

#### Mclick connector



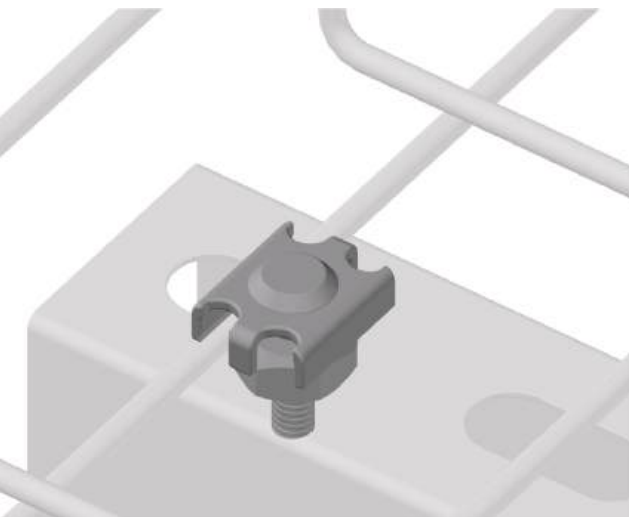
#### Ejemplo Código: MCLIC - ZF

(Example Code)

**Ancho (A)**  
(Width)  
1/2" (13 mm)

**Largo (L)**  
(Length)  
1" (23 mm)

**Material**  
(Material)  
ZF Recubrimiento en Zinc / Zinc  
flake coating



### Fijación a Soporte

#### Fitting to Support

#### Ejemplo Código: FAS - EZ

(Example Code)

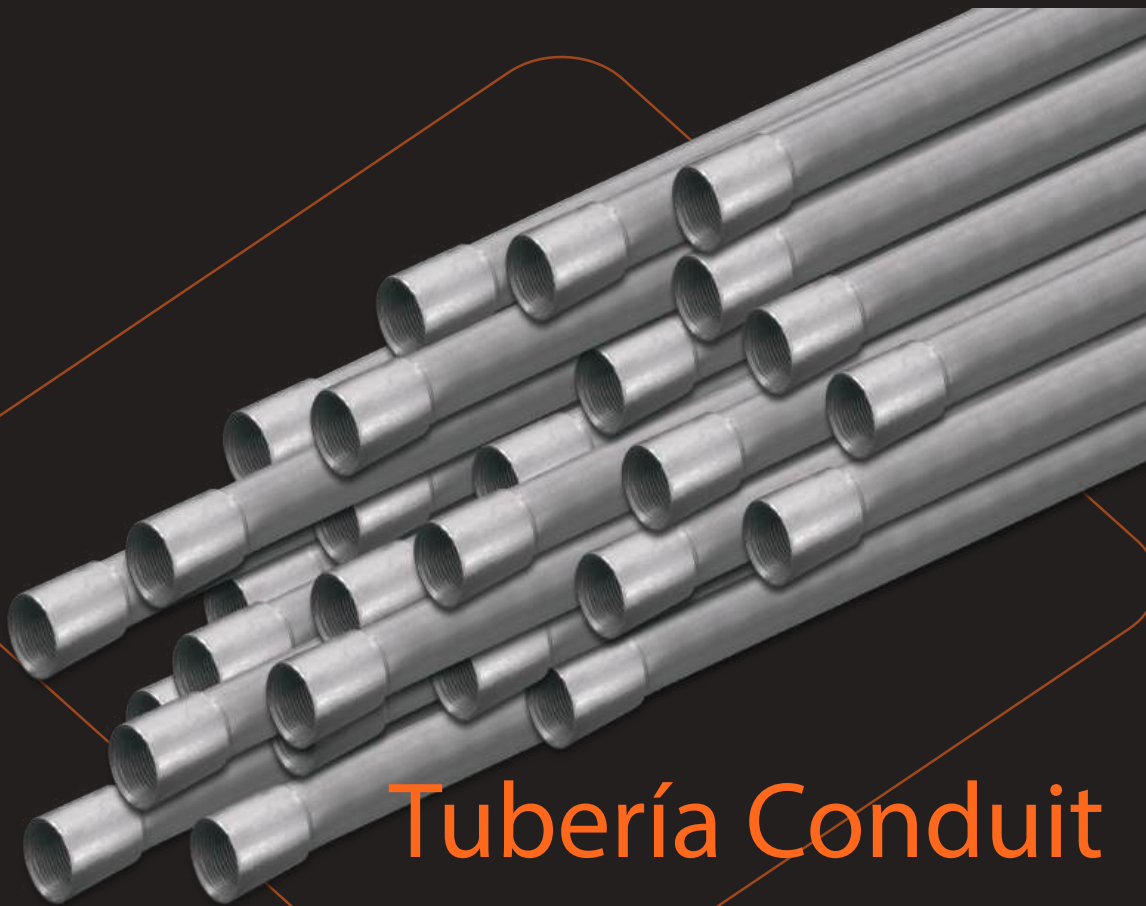
**Alto (X)**  
(Height)  
1/4" (8 mm)

**Ancho (A)**  
(Width)  
3/4" (18 mm)

**Largo (L)**  
(Length)  
1 1/4" (30 mm)

**Material**  
(Material)  
EZ Recubrimiento Electro Zinc/  
Electro Zinc coating  
IN Acero Inoxidable / Stainless  
Steel  
ZF Recubrimiento en Zinc / Zinc  
flake coating





# Tubería Conduit Pipe Conduit

## **Descripción:**

Tubería Conduit pared gruesa y delgada de acero con recubrimiento de zinc interior y exterior en primera calidad. Acabado liso, sin filos, escamas o incrustaciones.

## **Aplicaciones:**

Tubería para la conducción de cables, especializada en instalaciones eléctricas interiores y exteriores para uso doméstico, comercial e industrial

## **Características y Propiedades:**

El Tubo Conduit de acero galvanizado protege los conductores eléctricos de los elementos, facilita el tendido de instalaciones y evita incendios en condiciones de corto circuitos y arcos eléctricos. Son fabricados con lámina de acero recubierta en zinc por inmersión en caliente de primera calidad. El tubo es soldado y es libre de filos que puedan dañar el aislamiento de los conductores eléctricos. La calidad es evaluada constantemente asegurando características y dimensiones en todos los lotes.

## **Description:**

Pipe conduit thick and thin steel wall with zinc coating inside and outside in first quality. Smooth finish, no sharp edges, flakes or inlays.

## **Applications:**

Piping for cable conduction, specializing in indoor and outdoor electrical installations for domestic, commercial and industrial use.

## **Features and properties:**

The conduit of galvanized steel protects the electrical conductors of the elements, facilitates the laying of installations and avoids fires in conditions of short circuits and electrical arcs. They are made of top-quality hot dipped zinc coated steel sheet. The tube is welded and is free of sharp edges that can damage the insulation of the electric conductors. The quality is evaluated constantly assuring characteristics and dimensions in all the lots.

# Tubería Conduit

## Pipe Conduit

## Tubería Conduit Pared Delgada

### Thin Wall Conduit Pipe

Tabla 2.1

| Código<br>Code | Diametro Nominal<br>(DN)<br>Nominal diameter | Diametro Exterior<br>(DE)<br>Outer diameter | Espesor de Pared<br>(E)<br>Wall thickness | Peso por Pieza<br>Weight per piece |
|----------------|----------------------------------------------|---------------------------------------------|-------------------------------------------|------------------------------------|
| TCPD12         | 1/2"<br>(16 mm)                              | 0.706"<br>(18 mm)                           | 0.04"<br>(1.06 mm)                        | 1.358 kg                           |
| TCPD34         | 3/4"<br>(21 mm)                              | 0.922"<br>(23.5 mm)                         | 0.04"<br>(1.06 mm)                        | 1.8 kg                             |
| TCPD1          | 1"<br>(27 mm)                                | 1.163"<br>(29.5 mm)                         | 0.06"<br>(1.52 mm)                        | 3.223 kg                           |
| TCPD114        | 1-1/4"<br>(35 mm)                            | 1.51"<br>(38.3 mm)                          | 0.06"<br>(1.52 mm)                        | 4.237 kg                           |
| TCPD112        | 1-1/2"<br>(41 mm)                            | 1.74"<br>(44.3 mm)                          | 0.06"<br>(1.52 mm)                        | 4.91 kg                            |
| TCPD2          | 2"<br>(53 mm)                                | 2.196"<br>(55.8 mm)                         | 0.06"<br>(1.52 mm)                        | 6.244 kg                           |

Se identifican con etiqueta en color Verde  
Longitud de 3 m

They are identified with green color label  
length of 3 m



# Tubería Conduit

## Pipe Conduit



## Tubería Conduit Pared Gruesa

### Conduit pipe thick Wall

Tabla 2.2

| Código<br>Code | Diametro Nominal<br>(DN)<br>Nominal diameter | Diametro Exterior<br>(DE)<br>Outer diameter | Espesor de Pared<br>(E)<br>Wall thickness | Peso por Pieza<br>Weight per piece |
|----------------|----------------------------------------------|---------------------------------------------|-------------------------------------------|------------------------------------|
| TCPG12         | 1/2"<br>(16 mm)                              | 0.803"<br>(20.4 mm)                         | 0.060"<br>(1.52 mm)                       | 2.183 kg                           |
| TCPG34         | 3/4"<br>(21 mm)                              | 1.000"<br>(25.4 mm)                         | 0.060"<br>(1.52 mm)                       | 2.747 kg                           |
| TCPG1          | 1"<br>(27 mm)                                | 1.260"<br>(32.0 mm)                         | 0.075"<br>(1.90 mm)                       | 4.290 kg                           |
| TCPG114        | 1-1/4"<br>(35 mm)                            | 1.594"<br>(40.5 mm)                         | 0.075"<br>(1.90 mm)                       | 5.548 kg                           |
| TCPG112        | 1-1/2"<br>(41 mm)                            | 1.826"<br>(46.4 mm)                         | 0.075"<br>(1.90 mm)                       | 6.396 kg                           |
| TCPG2          | 2"<br>(53 mm)                                | 2.318"<br>(58.9 mm)                         | 0.090"<br>(2.28 mm)                       | 9.765 kg                           |

Se identifican con etiqueta en color Amarillo

Roscado en ambos extremos, con cople en un extremo y tapa plástica en el otro extremo, para proteger la rosca.

Longitud de 3 m

*They are identified with a yellow threaded label on both ends, with Cople on one end and plastic cap on the other end, to protect the thread.*

*Length of 3 m*



# Tubería Conduit

## Pipe Conduit

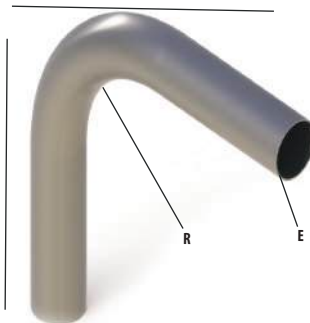


### Codo Conduit Pared Delgada 90°

#### Thin wall elbow Conduit 90°

Tabla 2.3

| Código<br>Code | Medida<br>Measurement | Desarrollo<br>Development | Radio (R)<br>Radius  | Espesor de Pared<br>(E)<br>Wall thickness | Peso por Pieza<br>Weight per piece |
|----------------|-----------------------|---------------------------|----------------------|-------------------------------------------|------------------------------------|
| CCPD12         | 1/2"<br>(16 mm)       | 11"<br>(279.4 mm)         | 4.248"<br>(107.9 mm) | 0.04"<br>(1.06 mm)                        | 0.15 kg                            |
| CCPD34         | 3/4"<br>(21 mm)       | 12.5"<br>(317.5 mm)       | 4.5"<br>(114.3 mm)   | 0.04"<br>(1.06 mm)                        | 0.25 kg                            |
| CCPD1          | 1"<br>(27 mm)         | 14.5"<br>(368.3 mm)       | 5.748"<br>(146 mm)   | 0.06"<br>(1.52 mm)                        | 0.45 kg                            |
| CCPD114        | 1 1/4"<br>(35 mm)     | 16.5"<br>(419.1 mm)       | 7.248"<br>(184.1 mm) | 0.06"<br>(1.52 mm)                        | 0.65 kg                            |
| CCPD112        | 1 1/2"<br>(41 mm)     | 19.252"<br>(489 mm)       | 8.248"<br>(209.5 mm) | 0.06"<br>(1.52 mm)                        | 0.8 kg                             |
| CCPD2          | 2"<br>(53 mm)         | 23.622"<br>(600 mm)       | 9.5"<br>(241.3 mm)   | 0.06"<br>(1.52 mm)                        | 1.25 kg                            |



### Codo Conduit Pared Gruesa 90°

#### Conduit elbow thick Wall 90°

Tabla 2.4

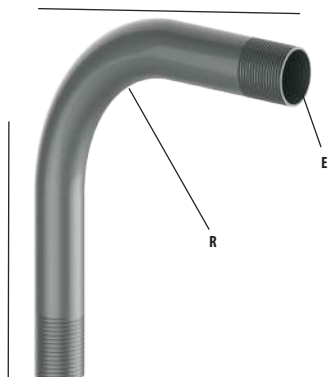
| Código<br>Code | Medida<br>Measurement | Desarrollo<br>Development | Radio<br>Radio       | Espesor de Pared<br>Wall thickness | Peso por Pieza<br>Weight per piece |
|----------------|-----------------------|---------------------------|----------------------|------------------------------------|------------------------------------|
| CCPG12         | 1/2"<br>(16 mm)       | 11"<br>(279.4 mm)         | 4.248"<br>(107.9 mm) | 0.06"<br>(1.52 mm)                 | 0.18 kg                            |
| CCPG34         | 3/4"<br>(21 mm)       | 12.5"<br>(317.5 mm)       | 4.5"<br>(114.3 mm)   | 0.06"<br>(1.52 mm)                 | 0.27 kg                            |
| CCPG1          | 1"<br>(27 mm)         | 14.5"<br>(368.3 mm)       | 5.748"<br>(146 mm)   | 0.075"<br>(1.9 mm)                 | 0.517 kg                           |
| CCPG114        | 1 1/4"<br>(35 mm)     | 16.5"<br>(419.1 mm)       | 7.248"<br>(184.1 mm) | 0.075"<br>(1.9 mm)                 | 0.81 kg                            |
| CCPG112        | 1 1/2"<br>(41 mm)     | 19.252"<br>(489 mm)       | 8.248"<br>(209.5 mm) | 0.075"<br>(1.9 mm)                 | 0.99 kg                            |
| CCPG2          | 2"<br>(53 mm)         | 23.622"<br>(600 mm)       | 9.5"<br>(241.3 mm)   | 0.09"<br>(2.28 mm)                 | 1.8 kg                             |

Se identifican con etiqueta en color Amarillo

Roscado en ambos extremos.

They are identified with a yellow label.

Threaded on both ends.



# Tubería Conduit

## Pipe Conduit



## Conector Conduit

### Conduit Connector

**Ejemplo Código: CC - 12 - AL**  
(Example Code)

#### Medida (Measurement)

12 1/2" (12.5 mm)

34 3/4" (19 mm)

1 1" (25 mm)

114 1 1/4" (32 mm)

112 1 1/2" (38 mm)

2 2" (50 mm)

#### Material (Material)

AL Aluminio/ Aluminum

AC Acero/ Steel



M

## Cople Conduit

### Conduit Coupling

**Ejemplo Código: CCP- 13MM - 12 - AL**  
(Example Code)

#### Medida (Measurement)

13-12 1/2" (12.5 mm)

19-34 3/4" (19 mm)

25-1 1" (25 mm)

32-114 1 1/4" (32 mm)

38-112 1 1/2" (38 mm)

50-2 2" (50 mm)

#### Material (Material)

AL Aluminio/ Aluminum

AC Acero/ Steel



M



# Unicanales Unichannel

Un sistema de uni-channel para soportería, ayuda a formar estructuras que tomarían horas en soldarse, se arman fácilmente en minutos. Su tuerca de seguridad hace esto posible aun en sitios de difícil accesos. Ya que no requiere de herramientas especiales. El sistema es ideal como soporte de tuberías, instalaciones de sistemas de iluminación, soporte de charolas para cable, mesas de trabajo y otras aplicaciones industriales.

Los componentes del sistema unicanal para soportería son: el unicanal, la tuerca resorte y sus diferentes conexiones y bases. (Ver sección de Herrajes).

Características del unicanal para soportería: ambos lados abiertos del canal están doblados a 180°, no solo son la clave de la extraordinaria resistencia de los unicanales sino que también son necesarios para el acoplamiento de abrazaderas, tuercas unicanal. Se fabrican en diferentes tipos de espesores Cal. 18, 16, 14, y 12.

Materiales disponibles del unicanal para soportería: lamina pre galvanizado, lamina galvanizada por inmersión en caliente, lamina de acero inoxidable y aluminio. Según la norma ASTM A 123, ASTM A 633.

*A Channel support system helps forming structures that would take hours to weld, easy assembly in minutes. Its safety nut makes this possible even in hard-to-reach places. No special tools are required. The system is ideal for pipe support, lighting system installations, cable tray support, worktables and other industrial applications.*

*The components of the Channel support system are: the uni-channel, the spring nut and its different connections and bases. (See Hardware section).*

*Characteristics of Channel: both open sides of the channel are bent at 180°, not only are they the key to the extraordinary strength of the Channel, but they are also necessary for the coupling of the clamps and the channel nuts. They are manufactured in different thicknesses of 18, 16, 14, and 12 gauge.*

*Available materials for Channel support systems: pre-galvanized sheet, hot dipped galvanized sheet, stainless steel sheet and aluminum sheet. According to ASTM A 123, ASTM A 633.*

## Materiales de Fabricación.

Los materiales que utilizamos para la fabricación de Unicanales son:

- Acero al Carbono
- Aluminio extrusionado
- Acero Inoxidable

## Aplicaciones.

- Estanterías
- Canceles móviles
- Vitrinas
- Soportes para alumbrado
- Soportes eléctricos
- Soportes mecánicos
- Soportes estructurales

## Manufacturing materials.

The material used for the unistrut manufacturing are:

- Carbon steel
- Extruded aluminum
- Stainless steel

## Applications.

- Racks and shelving
- Modulate walls
- Show case
- Lighting Support
- Electrical Support
- Mechanical Applications
- Structural Support





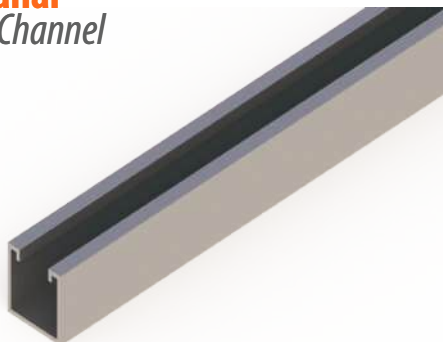
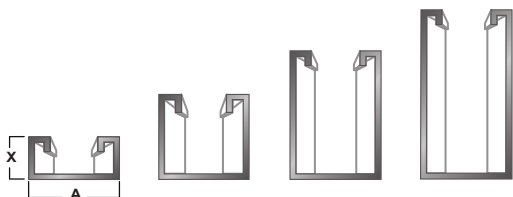
# Unicanal Sólido

## Strut Channel Solid



### Unicanal

#### Strut Channel



### Ejemplo Código: U - 4 2 - S - E - PG

(Example Code)

**Ancho (A)**  
(Width)

4 41.3 mm (1 5/8")

**Alto (X)**  
(Height)

2 20.6 mm (13/16")

4 41.3 mm (1 5/8")

6 61.9 mm (2 7/16")

8 82.6 mm (3 1/4")

**Fondo Sólido**  
(Solid)

**Espesor**  
(Gauge)

E Eléctrico (Cal. 18 1.21mm)

C Comercial (Cal. 16 1.52 mm)

I Industrial (Cal. 14 1.90 mm)

8 82.6 mm (3 1/4")

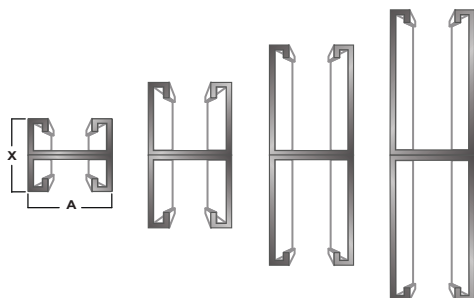
**Material**  
(Material)

PG Pregalvanizado/Pregalvanized

AL Aluminio/Aluminum

GI Galvanizado por Inmersión/  
Hot Dip Galvanized

IN Acero Inoxidable/ Stainless  
Steel



### Unicanal Doble

#### Strut Dual



### Ejemplo Código: U - 4 2 - SD - E - PG

(Example Code)

**Ancho (A)**  
(Width)

4 41.3 mm (1 5/8")

**Alto (X)**  
(Height)

2 41.3 mm (1 5/8")

4 82.6 mm (3 1/4")

6 123.8 mm (4 7/8")

8 165.2 mm (6 1/2")

**Fondo Sólido Doble**  
(SolidDouble)

**Espesor**  
(Gauge)

E Eléctrico (Cal. 18 1.21mm)

C Comercial (Cal. 16 1.52 mm)

I Industrial (Cal. 14 1.90 mm)

8 82.6 mm (3 1/4")

**Material**  
(Material)

AL Aluminio/Aluminum

PG Pregalvanizado/Pregalvanized

GI Galvanizado por Inmersión/  
Hot Dip Galvanized

IN Acero Inoxidable/ Stainless  
Steel



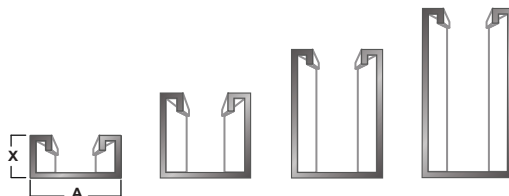
# Unicanal Perforado

## Strut Channel Slotted



### Unicanal

#### Strut Channel



### Ejemplo Código: U - 4 2 - P - E - PG

(Example Code)

#### Ancho (A)

##### (Width)

4 41.3 mm (1 5/8")

#### Alto (X)

##### (Height)

2 20.6 mm (13/16")

4 41.3 mm (1 5/8")

6 61.9 mm (2 7/16")

8 82.6 mm (3 1/4")

#### Fondo Perforado

##### (Slotted)

#### Espesor

##### (Gauge)

E Eléctrico (Cal. 18 1.21mm)

C Comercial (Cal. 16 1.52 mm)

I Industrial (Cal. 14 1.90 mm)

8 82.6 mm (3 1/4")

#### Material

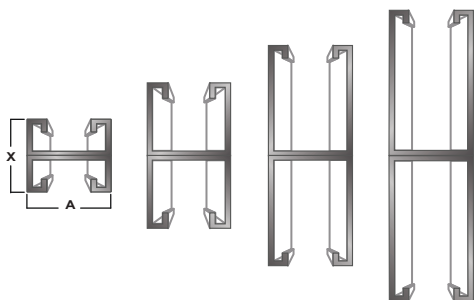
##### (Material)

AL Aluminio/Aluminum

PG Pregalvanizado/Pregalvanized

GI Galvanizado por Inmersión/  
Hot Dip Galvanized

IN Acero Inoxidable/ Stainless  
Steel



### Unicanal Doble

#### Strut Dual

### Ejemplo Código: U - 4 2 - PD - E - PG

(Example Code)

#### Ancho (A)

##### (Width)

4 41.3 mm (1 5/8")

#### Alto (X)

##### (Height)

2 41.3 mm (1 5/8")

4 82.6 mm (3 1/4")

6 123.8 mm (4 7/8")

8 165.2 mm (6 1/2")

#### Fondo Perforado

##### Doble

##### (Slotted dual)

#### Espesor

##### (Gauge)

E Eléctrico (Cal. 18 1.21mm)

C Comercial (Cal. 16 1.52 mm)

I Industrial (Cal. 14 1.90 mm)

R Reforzado (Cal. 12 2.66  
mm)

#### Material

##### (Material)

AL Aluminio/Aluminum

PG Pregalvanizado/Pregalvanized

GI Galvanizado por Inmersión/  
Hot Dip Galvanized

IN Acero Inoxidable/ Stainless  
Steel



# Herrajes Iron work

Nuestra amplia gama de productos de la línea de herrajes, están destinados para complementar su Sistema de Unicanal y sus instalaciones de tubería conduit.

Productos desde Abrazaderas del tipo Unicanal, Pera y Uña, Mordazas, Ménsulas, Clip U, Base para poste, Conectores, Escuadras, Canal Vertical y demás accesorios.

Las especificaciones de cada uno de ellos las encontrara a detalle en las siguientes páginas.

*Our wide range of products from the fittings line are designed to complement your unichannel system and conduit piping installations.*

*Products from unichannel, pear and nail type clamps, clamps, brackets, U-Clip, pole Base, connectors, squares, Vertical channel and other accessories.*

*The specifications of each one of them will find them in detail in the following pages.*

### Abrazadera Unicanal

#### Channel Clamp

**Ejemplo Código: AU- 12 - PG - AL**  
(Example Code)

#### Medida (M)

(Measurement)

- 12 1/2" (12.5 mm)
- 34 3/4" (19 mm)
- 1 1" (25 mm)
- 114 1 1/4" (32 mm)
- 112 1 1/2" (38 mm)
- 2 2" (50 mm)
- 212 2 1/2" (60 mm)
- 3 3" (75 mm)
- 4 4" (100 mm)
- 6 6" (150 mm)

#### Tipo de pared (P)

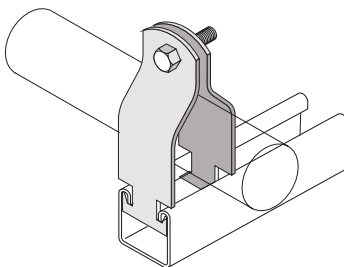
(Rail Type)

- PD Pared Delgada/ Thin wall
- PG Pared Gruesa/ Thick wall

#### Material

(Material)

- AI Aluminio/ Aluminium
- GE Galvanizado Electrolítico/Electrolitic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized
- IN Acero Inoxidable/Stainless Steel



### Abrazadera Tipo Uña

#### Hook Clamp

**Ejemplo Código: AUÑ- 12 - G - AL**  
(Example Code)

#### Medida

(Measurement)

- 12 1/2" (12.5 mm)
- 34 3/4" (19 mm)
- 1 1" (25 mm)
- 114 1 1/4" (32 mm)
- 112 1 1/2" (38 mm)
- 2 2" (50 mm)

#### Tipo de pared

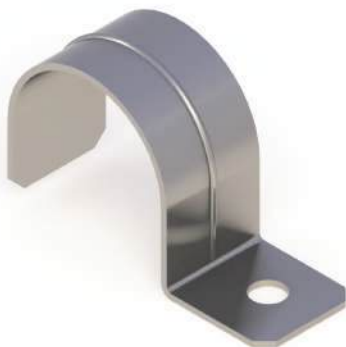
(Rail Type)

- PD Pared Delgada/ Thin wall
- PG Pared Gruesa/ Thick wall

#### Material

(Material)

- AI Aluminio/ Aluminium
- GE Galvanizado Electrolítico/Electrolitic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized
- IN Acero Inoxidable/Stainless Steel



### Abrazadera Tipo Pera

#### Hanger Clamp

**Ejemplo Código: AP - 12 - AL**  
(Example Code)

**Medida**  
(Measurement)  
12 1/2" (12.5 mm)  
34 3/4" (19 mm)  
1 1" (25 mm)  
114 1 1/4" (32 mm)  
112 1 1/2" (38 mm)  
2 2" (50 mm)  
212 2 1/2" (60 mm)  
3 3" (75 mm)  
4 4" (100 mm)  
6 6" (150 mm)  
8 8" (200 mm)

**Material**  
(Material)  
Al Aluminio/ Aluminium  
GE Galvanizado Electrolítico/Electrolitic  
Galvanized  
GI Galvanizado por inmersión/Hot Dip  
Galvanized  
IN Acero Inoxidable/Stainless Steel



### Abrazadera Tipo Omega

#### Omega Clamp

**Ejemplo Código: A0 - 13 - 12 - LN**  
(Example Code)



**Medida**  
(Measurement)  
13 - 13 1/2" (13 mm)  
19 - 34 3/4" (19 mm)  
25 - 1 1" (25 mm)  
32 - 114 1 1/4" (32 mm)  
38 - 112 1 1/2" (38 mm)  
50 - 2 2" (51 mm)

# Herrajes

## Iron Work



### Mordazas

#### Clamp

#### Mordaza Troquelada *Die Beam Clamp*

#### Ejemplo Código: MT- 14 - 34 - GE

(Example Code)

##### Varilla plg

(Rod Inch)

14 1/4" (6.3 mm)  
38 3/8" (3.5 mm)  
38 3/8" (3.5 mm)  
12 1/2" (12.5 mm)

##### Boca plg (B)

(Mouth Inch)

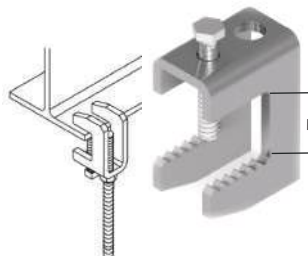
34 3/4" (19 mm)  
34 3/4" (19 mm)  
114 1 1/4" (31 mm)  
114 1 1/4" (31 mm)

##### Material

(Material)

GE Galvanizado Electrolítico/Electrolitic  
Galvanized  
TP Tropicalizada/Tropicalized

\* Considerar medida exclusiva de varilla y boca.  
Consider exclusive measure of rod and mouth.



#### Mordaza Fundida *Melt Beam Clamp*

#### Ejemplo Código: MF- 14 - 34

(Example Code)

##### Varilla plg

(Rod Inch)

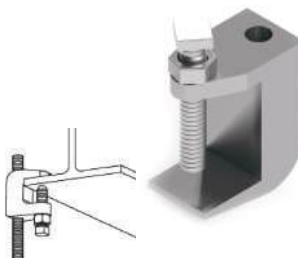
14 1/4" (6.3 mm)  
38 3/8" (3.5 mm)  
38 3/8" (3.5 mm)  
12 1/2" (12.5 mm)

##### Boca plg

(Mouth Inch)

34 3/4" (19 mm)  
34 3/4" (19 mm)  
114 1 1/4" (31 mm)  
114 1 1/4" (31 mm)

\* Considerar medida exclusiva de varilla y boca.  
Consider exclusive measure of rod and mouth.



#### Mordaza Ventana *Window Beam Clamp*

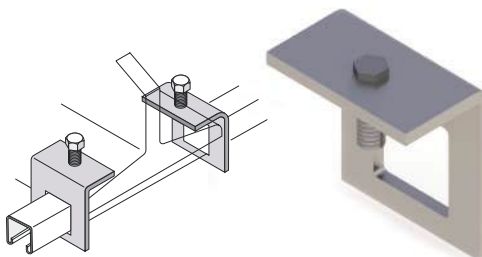
#### Ejemplo Código: MV-GE

(Example Code)

##### Material

(Material)

GE Galvanizado Electrolítico/Electrolitic  
Galvanized  
GI Galvanizado por inmersión/  
Hot Dip Galvanized



#### Mordaza Viga *Channel Beam Clamp*

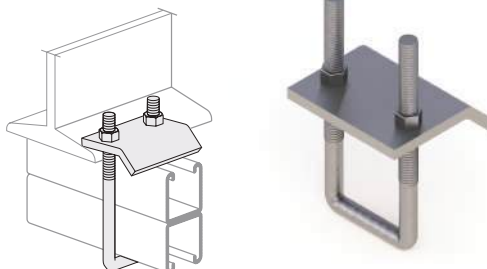
#### Ejemplo Código: 2786 - GE

(Example Code)

##### Material

(Material)

GE Galvanizado Electrolítico/Electrolitic  
Galvanized  
GI Galvanizado por inmersión/  
Hot Dip Galvanized



### Clip U U Support

#### Ejemplo Código: CU- 38 - GE

(Example Code)

##### Medida (M)

(Measure rod)

38 3/8" (9.5 mm)

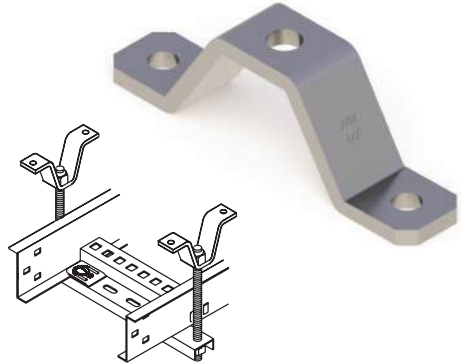
12 1/2" (12.5 mm)

##### Material

(Material)

GE Galvanizado Electrolítico/Electrolytic Galvanized

GI Galvanizado por inmersión/  
Hot Dip Galvanized



### Varilla Roscada Threaded Rod

#### Ejemplo Código: VR - 14 - GE

(Example Code)

##### Medida (M)

(Measure rod)

14 1/4" (6.25 mm)

38 3/8" (9.5 mm)

12 1/2" (12.5 mm)

##### Material

(Material)

GE Galvanizado Electrolítico/Electrolytic Galvanized



### Ménsula Unicanal Sencilla con Base Plana

Bracket single-channel flat Base

#### Ejemplo Código: MUSBP - 4 - GE

(Example Code)

##### Medida (M)

(Measure rod)

4 4" (101.6 mm)

6 6" (152.4 mm)

9 9" (228.6 mm)

12 12" (304.8 mm)

16 16" (406.4 mm)

18 18" (457.2 mm)

20 20" (508 mm)

24 24" (609.6 mm)

30 30" (762 mm)

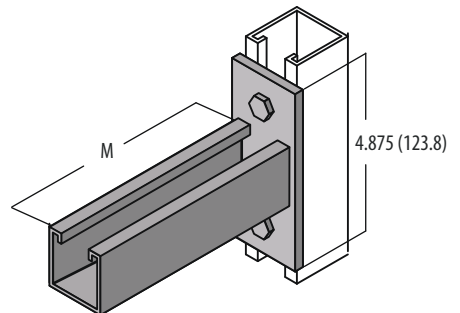
36 36" (914.4 mm)

##### Material

(Material)

GE Galvanizado Electrolítico/Electrolytic Galvanized

GI Galvanizado por inmersión/Hot Dip Galvanized



### Ménsula Unicanal Doble con Base Plana

Bracket Channel Double with Flat Base

#### Ejemplo Código: MUDBP - 4 - GE

(Example Code)

##### Medida (X)

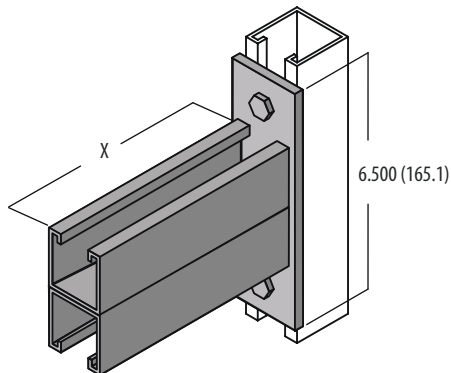
(Measure rod)

- 4 4" ( 101.6 mm)
- 6 6" ( 152.4 mm)
- 9 9" ( 228.6 mm)
- 12 12" ( 304.8 mm)
- 16 16" ( 406.4 mm)
- 18 18" ( 457.2 mm)
- 20 20" ( 508 mm)
- 24 24" ( 609.6 mm)
- 30 30" ( 762 mm)
- 36 36" ( 914.4 mm)

##### Material

(Material)

- GE Galvanizado Electrolítico/Electrolitic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized



### Ménsula Unicanal Sencilla con Base en Canal

Bracket Channel Simple with Flat Base

#### Ejemplo Código: MUSBC - 4 - GE

(Example Code)

##### Medida (X)

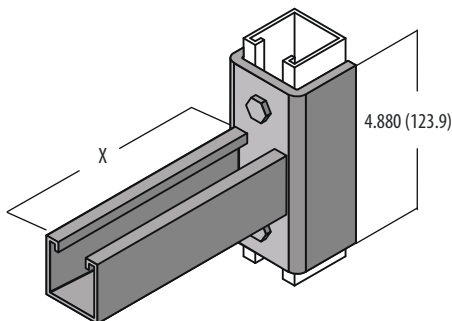
(Measure rod)

- 4 4" ( 101.6 mm)
- 6 6" ( 152.4 mm)
- 9 9" ( 228.6 mm)
- 12 12" ( 304.8 mm)
- 16 16" ( 406.4 mm)
- 18 18" ( 457.2 mm)
- 20 20" ( 508 mm)
- 24 24" ( 609.6 mm)
- 30 30" ( 762 mm)
- 36 36" ( 914.4 mm)

##### Material

(Material)

- GE Galvanizado Electrolítico/Electrolitic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized



### Ménsula Unicanal Doble con Base en Canal

#### Bracket Channel Dual Channel Based

#### Ejemplo Código: MUDBC - 4 - GE

(Example Code)

##### Medida (X)

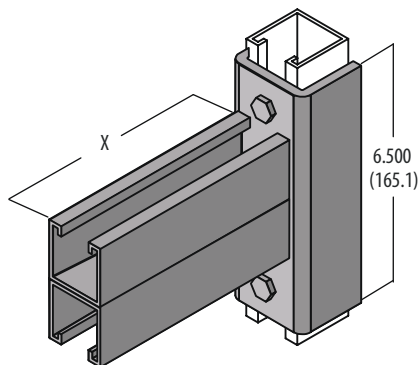
(Measure rod)

- 4 4" (101.6 mm)
- 6 6" (152.4 mm)
- 9 9" (228.6 mm)
- 12 12" (304.8 mm)
- 16 16" (406.4 mm)
- 18 18" (457.2 mm)
- 20 20" (508 mm)
- 24 24" (609.6 mm)
- 30 30" (762 mm)
- 36 36" (914.4 mm)

##### Material

(Material)

- GE Galvanizado Electrolítico/Electrolitic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized



### Ménsula para Canal Vertical

#### Channel Cantilever Bracket

#### Ejemplo Código: MCV - 4 - GE

(Example Code)

##### Medida (X)

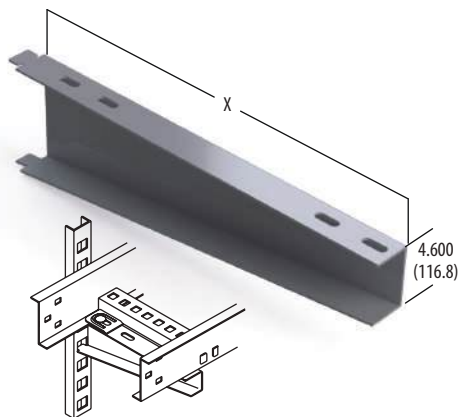
(Measure rod)

- 4 4" (101.6 mm)
- 6 6" (152.4 mm)
- 9 9" (228.6 mm)
- 12 12" (304.8 mm)
- 16 16" (406.4 mm)
- 18 18" (457.2 mm)
- 20 20" (508 mm)
- 24 24" (609.6 mm)
- 30 30" (762 mm)
- 36 36" (914.4 mm)

##### Material

(Material)

- GE Galvanizado Electrolítico/Electrolitic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized



### Canal Vertical

#### Vertical Channel

#### Ejemplo Código: CV - TP - GE

(Example Code)

##### Altura

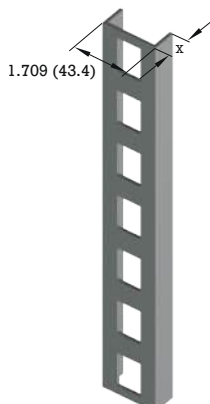
(Height)

- TP Profundo
- TPP Poco profundo

##### Material

(Material)

- GE Galvanizado Electrolítico/Electrolitic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized





### Ménsula para Montaje en Pared

Wall Cantilever Bracket

#### Canal Vertical

Vertical Channel

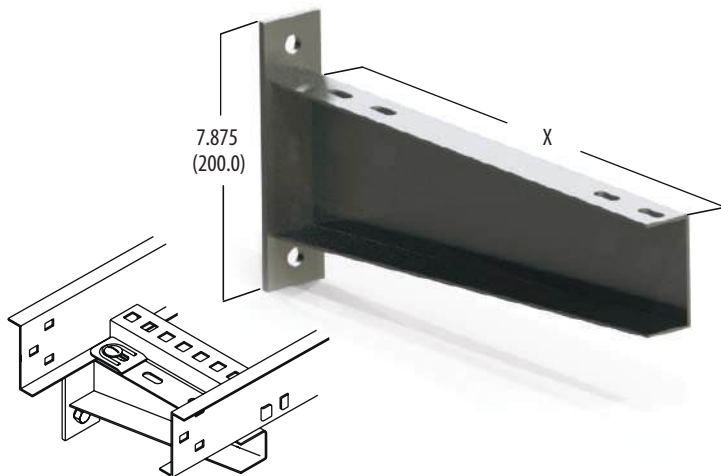
**Ejemplo Código: MMP - 4 - GE**  
(Example Code)

**Medida (X)**  
(Dimension)

- 4 4" ( 101.6 mm)
- 6 6" ( 152.4 mm)
- 9 9" ( 228.6 mm)
- 12 12" ( 304.8 mm)
- 16 16" ( 406.4 mm)
- 18 18" ( 457.2 mm)
- 20 20" ( 508 mm)
- 24 24" ( 609.6 mm)
- 30 30" ( 762 mm)
- 36 36" ( 914.4 mm)

**Material**  
(Material)

- GE Galvanizado Electrolítico/Electrolitic  
Galvanized
- GI Galvanizado por inmersión/Hot Dip  
Galvanized



### Bases para Poste Unicanal

#### Channel Post Base

### Ejemplo Código: BPU - SR1 - GE

(Example Code)

#### Tipo

(Type)

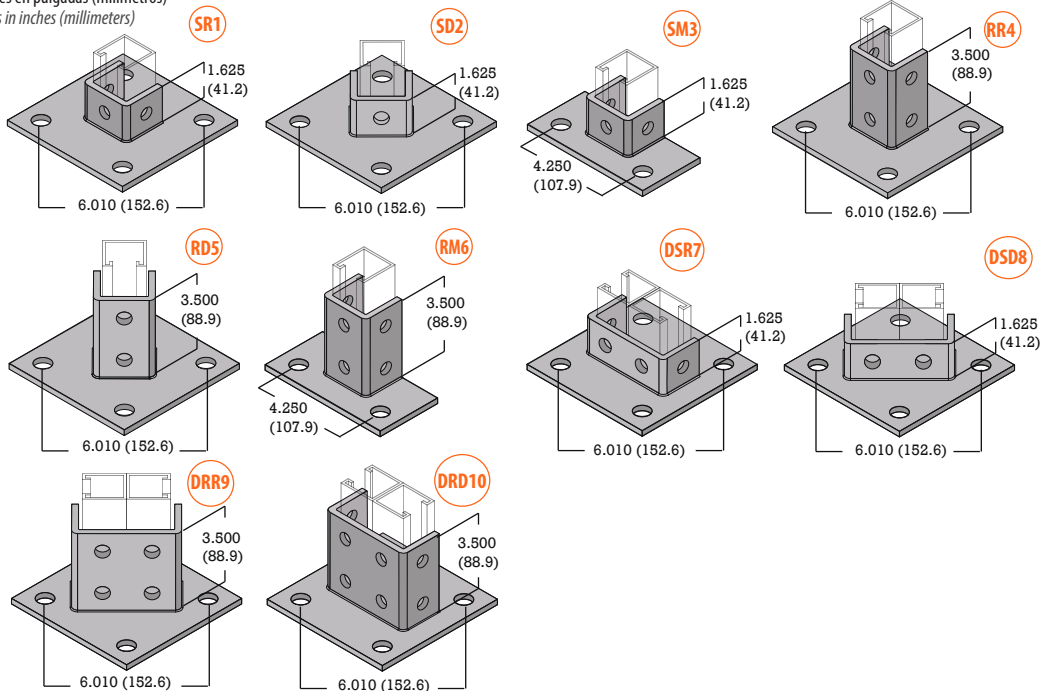
- SR1 Sencilla recta 1/ Single straight 1
- SD2 Sencilla diagonal 2/ Single diagonal 2
- SM3 Sencilla media 3/ Single media 3
- RR4 Reforzada recta 4/ Reinforced straight 4
- RD5 Reforzada diagonal 5/ Reinforced diagonal 5
- RM6 Reforzada media 6/ Reinforced media 6
- DSR7 Doble sencilla recta 7/ Double straight single
- DSD8 Doble sencilla diagonal 8/ Double diagonal single 8
- DRR9 Doble reforzado recta 9/ Double reinforced straight 9
- DRD10 Doble reforzado diagonal 10/ Double reinforced diagonal 10

#### Material

(Material)

- GE Galvanizado Electrolítico/Electrolytic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized

Dimensiones en pulgadas (milímetros)  
Dimensions in inches (millimeters)



### Conector Empalme

#### Splice Connector

**Ejemplo Código: CE- 2 - GE**  
(Example Code)

#### Tipo (Type)

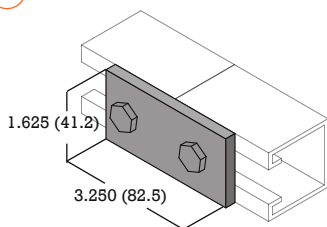
- 2 Conector empalme 2 orificios/ Splice connector 2 holes
- 3 Conector empalme 3 orificios/ Splice connector 3 holes
- 4 Conector empalme 4 orificios/ Splice connector 4 holes
- 5 Conector empalme 5 orificios/ Splice connector 5 holes

#### Material (Material)

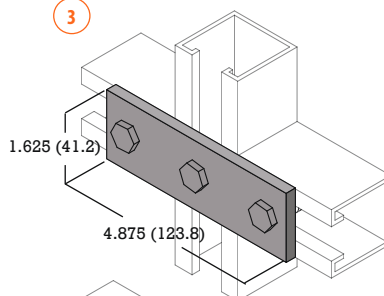
- GE Galvanizado Electrolytico/Electrolitic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized

Dimensiones en pulgadas (milímetros)  
Dimensions in inches (millimeters)

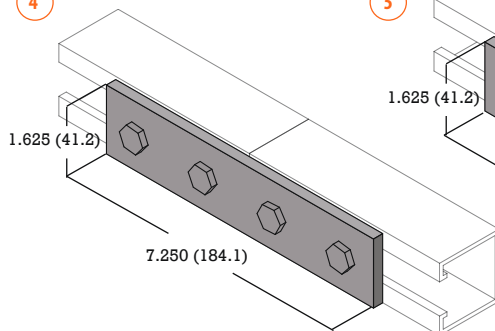
2



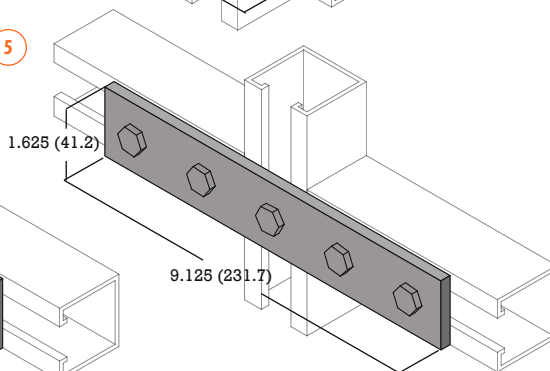
3



4



5



## Conector Empalme en Canal Channel Splice connector

### Ejemplo Código: CEC- 242 - GE

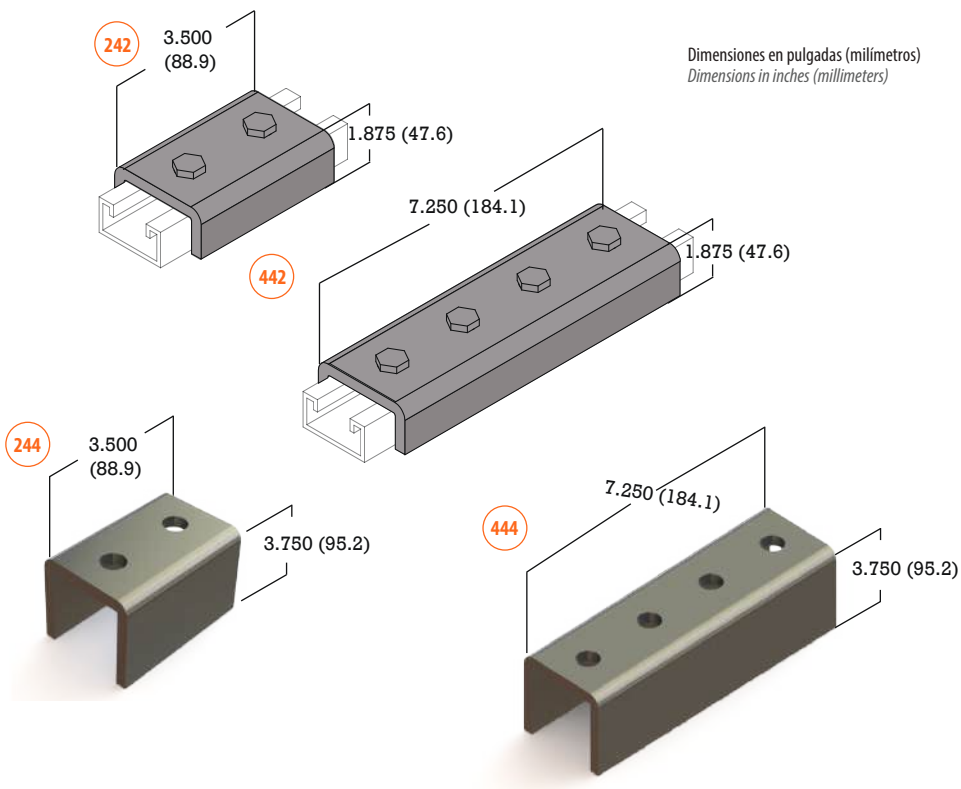
(Example Code)

#### Tipo (Type)

- 242 Canal 2 orificios p/ 4x2/ Channel 2 holes for 4x2
- 442 Canal 4 orificios p/ 4x2/ Channel 4 holes for 4x2
- 244 Canal 2 orificios p/ 4x4/ Channel 2 holes for 4x4
- 444 Canal 4 orificios p/ 4x4/ Channel 2 holes for 4x4

#### Material (Material)

- GE Galvanizado Electrolítico/Electrolytic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized



### Conector Z Z-Connector

## Ejemplo Código: CZP- 42 - GE

(Example Code)

### Tipo

(Type)

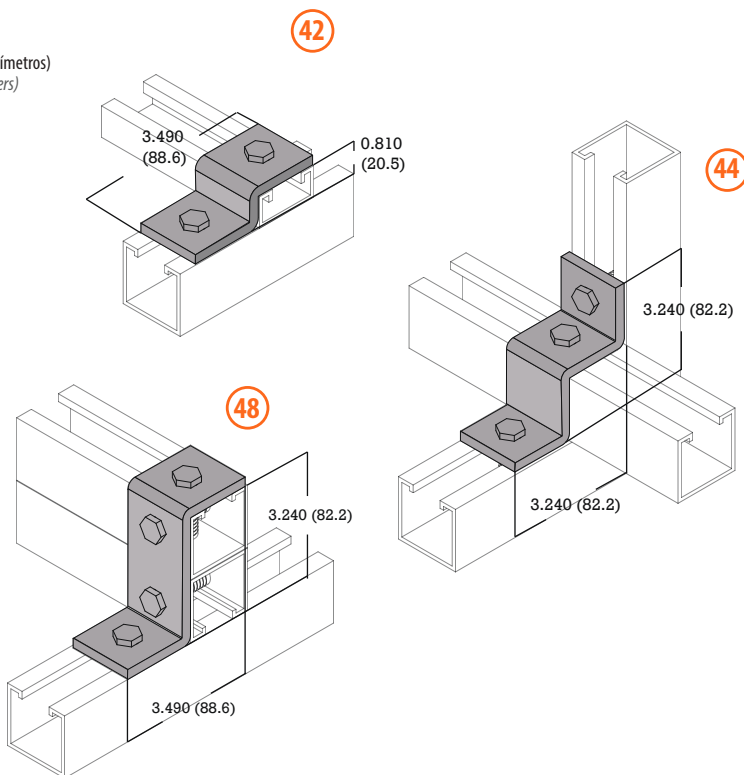
- 42 Conector Z p/ 4x2/ Z Connector for 4x2
- 44 Conector Z p/ 4x2/ Z Connector for 4x2
- 48 Conector Z p/ 4x4/ Z Connector for 4x4

### Material

(Material)

- GE Galvanizado Electrolítico/Electrolitic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized

Dimensiones en pulgadas (milímetros)  
Dimensions in inches (millimeters)



### Conectores Planos

#### Flat connectors

### Ejemplo Código: CPA-1-GE

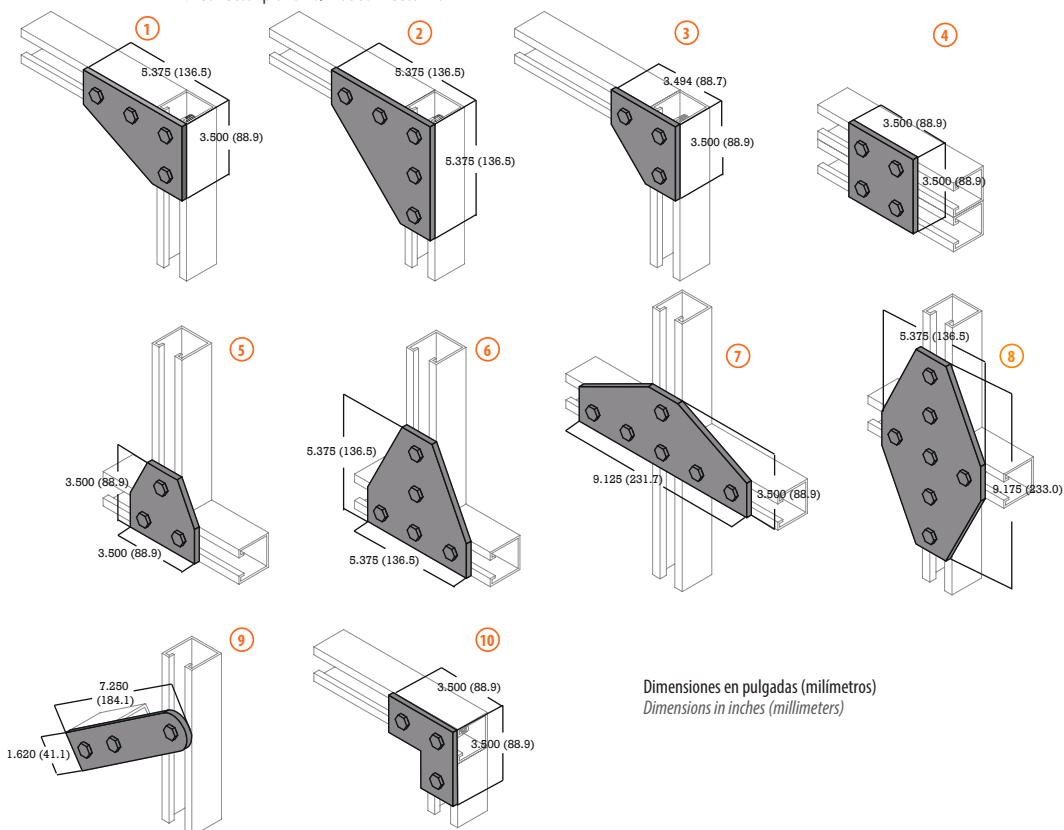
(Example Code)

#### Tipo (Type)

- 1 Conector plano 1/ Flat connector 1
- 2 Conector plano 2/ Flat connector 2
- 3 Conector plano 3/ Flat connector 3
- 4 Conector plano 4/ Flat connector 4
- 5 Conector plano 5/ Flat connector 5
- 6 Conector plano 6/ Flat connector 6
- 7 Conector plano 7/ Flat connector 7
- 8 Conector plano 8/ Flat connector 8
- 9 Conector plano 9/ Flat connector 9
- 10 Conector plano 10/ Flat connector 10

#### Material (Material)

- GE Galvanizado Electrolítico/Electrolitic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized



Dimensiones en pulgadas (milímetros)  
Dimensions in inches (millimeters)

### Conectores Angulares

#### Angular connectors

### Ejemplo Código: CAB-1 - GE

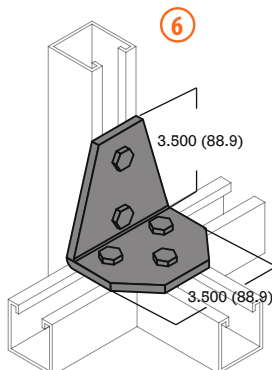
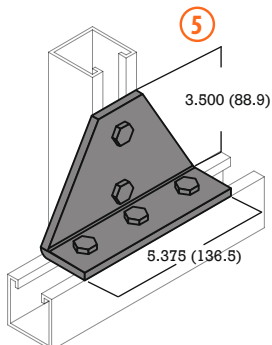
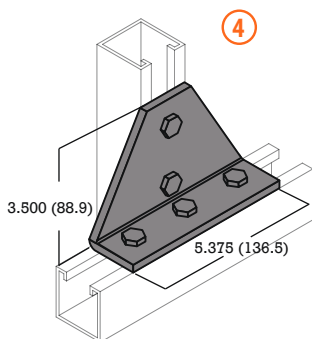
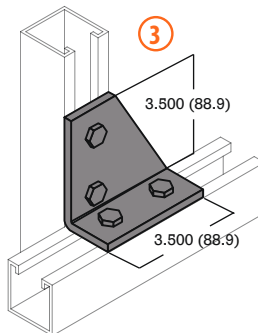
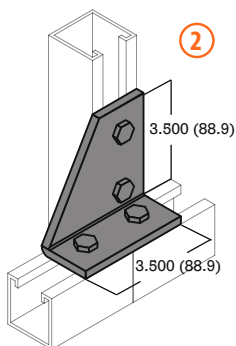
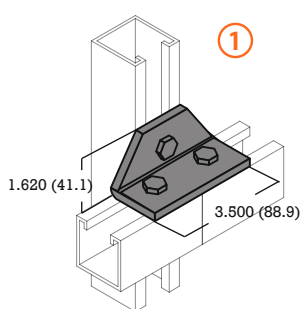
(Example Code)

#### Tipo (Type)

- 1 Conector angular 1/ Angular connector 1
- 2 Conector angular 2/ Angular connector 2
- 3 Conector angular 3/ Angular connector 3
- 4 Conector angular 4/ Angular connector 4
- 5 Conector angular 5/ Angular connector 5
- 6 Conector angular 6/ Angular connector 6

#### Material (Material)

- GE Galvanizado Electrolítico/Electrolitic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized



Dimensiones en pulgadas (milímetros)  
Dimensions in inches (millimeters)

### Conector Plano Angular

#### Angular Plane Connector

### Ejemplo Código: CPA-05-GE

(Example Code)

#### Tipo

(Type)

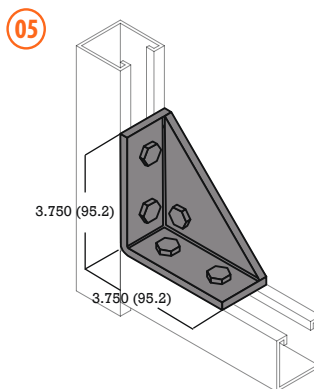
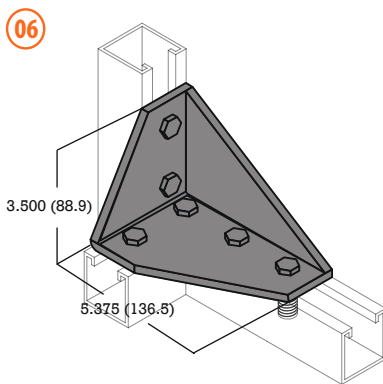
- 05 Conector plano angular 5 orificios/  
Angular plane connector 5
- 06 Conector plano angular 6 orificios/  
Angular plane connector

#### Material

(Material)

- GE Galvanizado Electrolítico/Electrolitic  
Galvanized
- GI Galvanizado por inmersión/Hot Dip  
Galvanized

Dimensiones en pulgadas (milímetros)  
Dimensions in inches (millimeters)





### Escuadras Corner Angle

#### Ejemplo Código: E-2-GE

(Example Code)

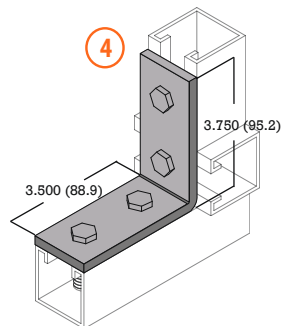
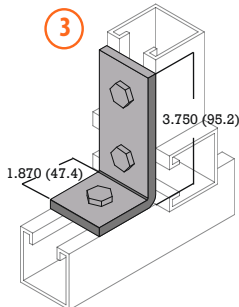
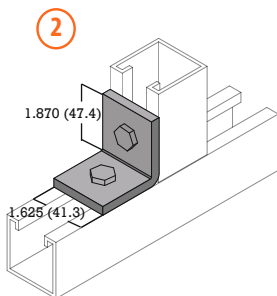
**Tipo**  
(Type)

- 2 Escuadra 2 orificios/ Corner Angle 2 orificies
- 3 Escuadra 3 orificios/ Corner Angle 3 orificies
- 4 Escuadra 4 orificios/ Corner Angle 4 orificies

**Material**  
(Material)

- GE Galvanizado Electrolítico/Electrolytic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized

Dimensiones en pulgadas (milímetros)  
Dimensions in inches (millimeters)



### Escuadra Angular Exterior e Interior Outside and Inside Corner Angle

#### Ejemplo Código: E2-E-45-GE

(Example Code)

**Tipo**  
(Type)

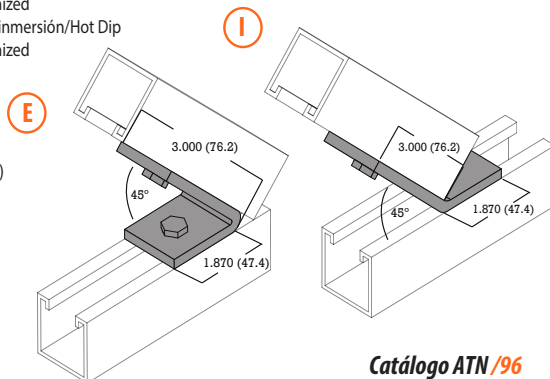
- E Escuadra angular Exterior/ Outside Angular Corner
- I Escuadra angular Interior/ Inside Angular Corner

**Angulo**  
(Angle)  
45 45°

**Material**  
(Material)

- GE Galvanizado Electrolítico/Electrolytic Galvanized
- GI Galvanizado por inmersión/Hot Dip Galvanized

Dimensiones en pulgadas (milímetros)  
Dimensions in inches (millimeters)



### Cinta Perforada

Perforated tape

Tabla 4.1

| Código<br>Code | Largo<br>Long |
|----------------|---------------|
| CP             | 25 m          |

Material Acero al Carbono Espesor. 26  
Material Carbon Steel Gauge. 26

### Tuerca con Resorte

Spring Nut

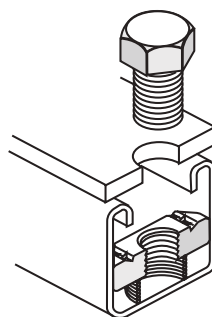
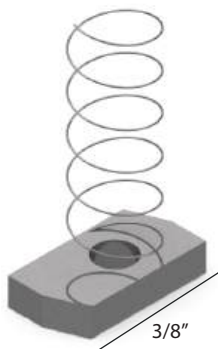


## Ejemplo Código: TR- 14

(Example Code)

Medida plg  
(Measurement inch)

- 14 1/4" (6.25mm)
- 38 3/8" (9.52 mm)
- 12 1/2" (12.5 mm)



### Taquete Expansor

Expander Anchor

## Ejemplo Código: TE- 14

(Example Code)

Medida plg  
(Measurement inch)

- 316 3/16" (4.76mm)
- 14 1/4" (6.25mm)
- 516 5/16" (7.93mm)
- 38 3/8" (9.52 mm)
- 12 1/2" (12.5 mm)

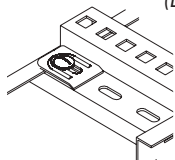


### Clema

Hold-Down Clamp

**Ejemplo Código: CL - 38 - GE**

(Example Code)



#### Medida plg

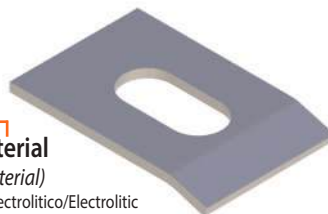
(Dimension inch)

38 3/8" (9.52 mm)  
12 1/2" (12.5 mm)

#### Material

(Material)

GE Galvanizado Electrolítico/Electrolitic Galvanized  
GI Galvanizado por inmersión/Hot Dip Galvanized



### Tuerca Hexagonal

Hex Nut

**Ejemplo Código: TH- 38**

(Example Code)



#### Medida plg

(Dimension inch)

14 1/4" (6.25mm)  
516 5/16" (7.92mm)  
38 3/8" (9.52 mm)  
12 1/2" (12.5 mm)

### Cople

Coupling

**Ejemplo Código: C- 14**

(Example Code)



#### Medida plg

(Dimension inch)

14 1/4" (6.25mm)  
38 3/8" (9.52 mm)  
12 1/2" (12.5 mm)

### Rondana Plana

Flat Washer

**Ejemplo Código: RP- 38 - GE**

(Example Code)



#### Medida plg

(Dimension inch)

316 3/16" (4.75 mm)  
14 1/4" (4.75 mm)  
516 5/16" (7.95 mm)  
38 3/8" (9.52 mm)  
12 1/2" (12.5 mm)

#### Material

(Material)

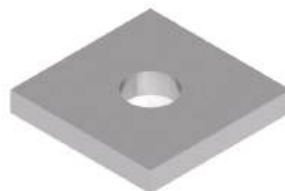
GE Galvanizado Electrolítico/Electrolitic Galvanized  
GI Galvanizado por inmersión/Hot Dip Galvanized

### Rondana Cuadrada

Square Washer

**Ejemplo Código: RC- 38 - GE**

(Example Code)



#### Medida plg

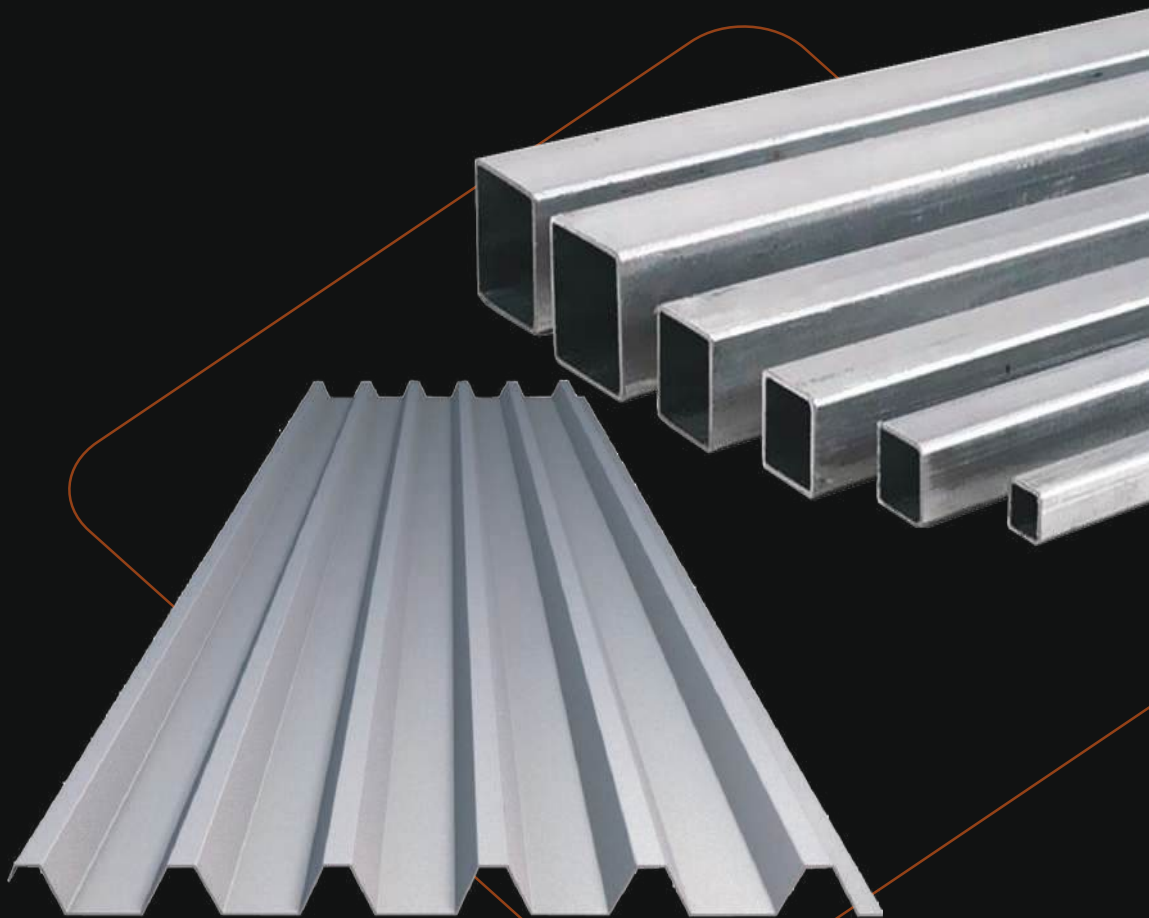
(Dimension inch)

38 3/8" (9.52 mm)  
12 1/2" (12.5 mm)

#### Material

(Material)

GE Galvanizado Electrolítico/Electrolitic Galvanized  
GI Galvanizado por inmersión/Hot Dip Galvanized



# Steel Division

En nuestra división Acero nos enfocamos en comercializar rollos de acero, lámina acanalada, Polín y PTR. Así mismo contamos con un centro de servicio con diferentes soluciones como nivelación de rollos, corte con slitter, acanalado, troquelado, corte con plasma y láser, soldadura en general y servicio de galvanizado electrolítico.

Our Steel division focus on comercializing galvanized steel rolls, corrugated sheet metals, Purlin "C/Z" and Rectangular Hollow Section (RHS). As well our service center offers different solutions such as roll leveling, slitter cutting, grooving, punching, plasma and laser cutting, general welding and electrolytic galvanized service.



# Lámina Acanalada "Rectangular" R-101 y R-72

## Corrugated Sheet R-101 and R-72



### Descripción

### Description

Perfil acanalado de configuración trapecoidal diseñado para ser utilizado como cubierta de fijación expuesta.  
Units of dimension in inches and milimeters.

### Características del producto

### Product characteristics

- Disponibles en acabados galvanizado, zintroaluminio y pintado.  
Finish available: galvanized, zintroaluminum and painted.
- Colores disponible de línea: cara exterior blanco estándar, arena estándar, rojo janitizio, verde teja todos con cara inferior fondo gris.  
Available color: Outside; white, sand, red, green and the inside gray.
- Disponible con una longitud mínima de 30 cm hasta 13 metros.  
Available length minimum 11.8" to 42.65 feet.
- Traslape longitudinal mínimo sugerido 20 cm.  
Minimum overlap suggest 7.8".
- Pendiente mínima sugerida 10%, longitud máxima de vertiente sugerida de 20 metros.  
Minimum slope suggest 10% maximum length to 65.6 feet.

### Tabla de pesos

### Weight table

#### KILO POR METRO LINEAL

Tabla 5.4 Kilogram per liner meter

| ESPESOR<br>Gauge | 3" (R-72) | 4" (R-101) |
|------------------|-----------|------------|
| 20 (0.9 mm)      | 6.797     | 9.062      |
| 22 (0.8 mm)      | 5.703     | 7.603      |
| 24 (0.6 mm)      | 4.062     | 5.416      |
| 26 (0.4 mm)      | 3.515     | 4.686      |
| 28 (0.4 mm)      | 2.968     | 3.957      |
| 30 (0.3 mm)      | 2.439     |            |
| 32 (0.25 mm)     | 2.020     |            |



Tabla 5.1

|       | ESPESOR<br>Gauge |
|-------|------------------|
| R-101 | 20 (0.9mm)       |
|       | 22 (0.8mm)       |
|       | 24 (0.6mm)       |
|       | 26 (0.5mm)       |
| R-72  | 28 (0.4mm)       |
|       | 20 (0.9mm)       |
|       | 22 (0.8mm)       |
|       | 24 (0.6mm)       |
|       | 26 (0.5mm)       |
|       | 28 (0.4mm)       |
|       | 30 (0.3mm)       |
|       | 32 (0.25mm)      |

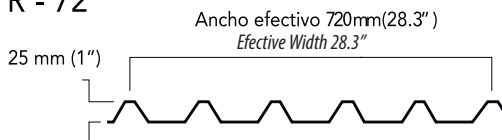
Tabla 5.2

|       | ANCHO REAL<br>Real Width |
|-------|--------------------------|
| R-72  | 803 mm                   |
| R-101 | 1070 mm                  |

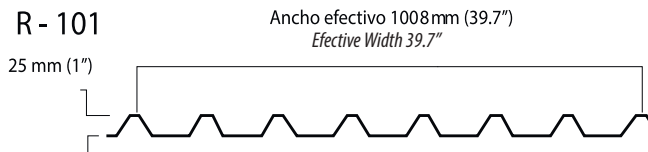
Tabla 5.3

|       | ANCHO EFECTIVO<br>Effective Width |
|-------|-----------------------------------|
| R-72  | 803 mm                            |
| R-101 | 1070 mm                           |

### R - 72



### R - 101



EJEMPLO DE TRASLAPÉ TRANSVERSAL  
Example of transverse overlap



## Descripción

### Description

Lámina ideal para cubiertas o fachadas de naves industriales donde se requiere resistencia estructural y/o diseño con pendientes bajas.

*Units of dimension in inches and milimeters.*

## Características del producto

### Product characteristics

- Disponibles en acabados galvanizado, zintroalum y pintado.

*Finish available: galvanized, zintroalum and painted.*

- Colores disponible de línea: cara exterior blanco estándar, arena estándar, rojo janitizio, verde teja todos con cara inferior fondo gris.

*Available color: Outside; white, sand, red, green and the inside gray.*

- Disponible con una longitud mínima de 30 cm hasta 13 metros.

*Available length minimum 11.8" to 42.65 feet.*

- Doble canal antisifón, por lo tanto posee excelente capacidad de drenaje.

*Double antisiphon channel, consequently it has excellent drainage capacity.*

- Traslape longitudinal mínimo sugerido 20 cm.

*Minimum overlap suggest 7.8"*

- Pendiente mínima sugerida 6%, longitud máxima de vertiente sugerida de 25 metros.

*Minimum slope suggest 6% maximum length to 82 feet.*

Tabla 5.5

| ESPESOR     |
|-------------|
| Gauge       |
| 22 (0.8mm)  |
| 24 (0.6mm)  |
| 26 (0.45mm) |

Tabla 5.6

| ANCHO REAL     |
|----------------|
| Real Widht     |
| RN-100 1060 mm |

Tabla 5.7

| ANCHO EFECTIVO  |
|-----------------|
| Effective Widht |
| RN-100 1000 mm  |

## Tabla de pesos

### Weight table

#### KILO POR METRO LINEAL

*Kilogram per liner meter*

Tabla 5.8

| ESPESOR | 4" (R-101) |
|---------|------------|
| Gauge   |            |
| 22      | 7.603      |
| 24      | 5.416      |
| 26      | 4.868      |



# Poste Metálico Ligero y Estructural

## Sheet RN-100



### Descripción

#### Description

Poste metálico galvanizado en forma "C" para formar bastidores, cuenta con tres perforaciones una en cada extremo y otra en el centro, para la colocación de instalaciones eléctricas, las cuales permiten el paso de tuberías y mangueras.

Galvanized metal pole in the form "C" to form frames, it has three perforations, one at each end and one in the center, for the placement of electrical installations, which allow the passage of pipes and hoses.

Units of dimension in inches and millimeters.

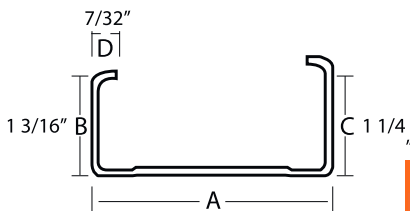
### Observaciones

#### Observations

- Tolerancia de  $\pm .001$  in.  
Tolerance of  $\pm .001$  in.
- Cantidad de piezas por atado: 12 (En calibre 20 los atados son de 6 pza)  
Pieces per bundle: 12 (20 gauge the bundle are 6 pieces)

Tabla 5.9

|             |                  | A                      | B              | C              | D             | PESO  |
|-------------|------------------|------------------------|----------------|----------------|---------------|-------|
| PRODUCTO    | ESPESOR<br>Gauge | PERALTE<br>Rail Height | PATÍN<br>Skate | PATÍN<br>Skate | CEJA<br>Stube | KG/PZ |
| POSTE 4.10  | 26 (0.45mm)      | 4.10 (1 5/8")          | 30.1 (1 3/16") | 31.7 (1 1/4")  | 5.5 (7/32")   | 1.24  |
| POSTE 4.10  | 20 (0.9mm)       | 4.10 (1 5/8")          | 30.1 (1 3/16") | 31.7 (1 1/4")  | 5.5 (7/32")   | 2.41  |
| POSTE 6.35  | 26 (0.45mm)      | 6.35 (2 1/2")          | 30.1 (1 3/16") | 31.7 (1 1/4")  | 5.5 (7/32")   | 1.52  |
| POSTE 6.35  | 20 (0.9mm)       | 6.35 (2 1/2")          | 30.1 (1 3/16") | 31.7 (1 1/4")  | 5.5 (7/32")   | 2.95  |
| POSTE 9.20  | 26 (0.45mm)      | 9.20 (3 5/8")          | 30.1 (1 3/16") | 31.7 (1 1/4")  | 5.5 (7/32")   | 1.85  |
| POSTE 9.20  | 20 (0.9mm)       | 9.20 (3 5/8")          | 30.1 (1 3/16") | 31.7 (1 1/4")  | 5.5 (7/32")   | 3.61  |
| POSTE 15.24 | 26 (0.45mm)      | 15.24 (6")             | 30.1 (1 3/16") | 31.7 (1 1/4")  | 5.5 (7/32")   | 2.67  |
| POSTE 15.24 | 20 (0.9mm)       | 15.24 (6")             | 30.1 (1 3/16") | 31.7 (1 1/4")  | 5.5 (7/32")   | 5.19  |



### PERALTE

Rail Height

Tabla 5.10

4.10 (1 5/8")

6.35 (2 1/2")

9.20 (3 5/8")

15.24 (6")



## Descripción

### Description

El canal amarre galvanizado en forma de "U" se utiliza para fijar los muros divisorios a piso y techo. Se combina habitualmente con el Poste metálico.

Galvanized "U" shaped tie channel is used to fix partition walls to floor and ceiling. It is usually combined with the Metal Post.

Units of dimension in inches and milimeters.

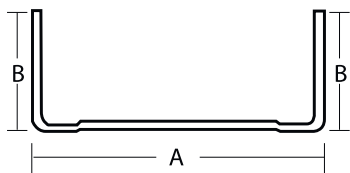
## Observaciones

### Observations

- Tolerancia de  $\pm .001$  in.  
Tolerance of  $\pm .001$  in.
- Cantidad de piezas por atado: 12 (En calibre 20 los atados son de 6 pza)  
Pieces per bundle: 12 (20 gauge the bundle are 6 pieces)

Tabla 5.11

|             |                  | LONGITUD<br>Length | A                      | B              | PESO<br>Weight |
|-------------|------------------|--------------------|------------------------|----------------|----------------|
| PRODUCTO    | ESPESOR<br>Gauge | MT. (FT)           | PERALTE<br>Rail Height | PATÍN<br>Skate | KG/PZ          |
| POSTE 4.10  | 26 (0.45mm)      | 3.05 (10")         | 4.10 (1 5/8")          | 25.4 (1")      | 1.03           |
| POSTE 4.10  | 22 (0.8mm)       | 3.05 (10")         | 4.10 (1 5/8")          | 25.4 (1")      | 1.69           |
| POSTE 6.35  | 26 (0.45mm)      | 3.05 (10")         | 6.35 (2 1/2")          | 25.4 (1")      | 1.24           |
| POSTE 6.35  | 22 (0.8mm)       | 3.05 (10")         | 6.35 (2 1/2")          | 25.4 (1")      | 2.02           |
| POSTE 9.20  | 26 (0.45mm)      | 3.05 (10")         | 9.20 (3 5/8")          | 25.4 (1")      | 1.61           |
| POSTE 9.20  | 22 (0.8mm)       | 3.05 (10")         | 9.20 (3 5/8")          | 25.4 (1")      | 2.62           |
| POSTE 15.24 | 26 (0.45mm)      | 3.05 (10")         | 15.24 (6")             | 25.4 (1")      | 2.51           |
| POSTE 15.24 | 22 (0.8mm)       | 3.05 (10")         | 15.24 (6")             | 25.4 (1")      | 4.11           |



### PERALTE Rail Height

Tabla 5.12

4.10 (1 5/8")  
6.35 (2 1/2")  
9.20 (3 5/8")  
15.24 (6")





# Accesorios metálicos ligeros estructurales para construcción



## Canal listón y estructural

El canal listón galvanizado forma omega para falso plafón.  
The galvanized slat channel forms an omega for a false plate.

### Observaciones

#### Observations

- Tolerancia de  $\pm .001$  in.  
Tolerance of  $\pm .001$  in.
- Cantidad de piezas por atado: 12 (En calibre 20 los atados son de 6 pza)  
Pieces per bundle: 12 (20 gauge the bundle are 6 pieces)

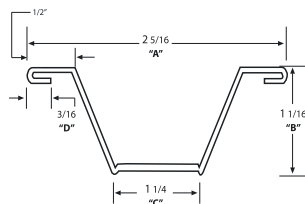


Tabla 5.13

|              |                  | LONGITUD<br>Lenght | A             | B             | C              | D             | PESO<br>Weight |
|--------------|------------------|--------------------|---------------|---------------|----------------|---------------|----------------|
| PRODUCTO     | ESPESOR<br>Gauge | MT. (FT)           | MM. (PULG)    | MM. (PULG)    | MM. (PULG)     | MM. (PULG)    | KG/PZ          |
| CANAL LISTÓN | 26 (0.45mm)      | 3.05 (10'')        | 58.7 (5/16'') | 17.5 (5/16'') | 31.7 (1 1/4'') | 4.76 (3/16'') | 1.03           |
| CANAL LISTÓN | 20 (0.90mm)      | 3.05 (10'')        | 58.7 (5/16'') | 17.5 (5/16'') | 31.7 (1 1/4'') | 4.76 (3/16'') | 2.02           |
| CANAL LISTÓN | 22 (0.80mm)      | 3.05 (10'')        | 58.7 (5/16'') | 17.5 (5/16'') | 31.7 (1 1/4'') | 4.76 (3/16'') | 1.69           |

## Ángulo de amarre

### Angle mooring

El ángulo de amarre galvanizado se utiliza para marcar el perímetro o desplante del falso plafón.

The galvanized mooring angle is used to mark the perimeter or offset of the false ceiling.

### Observaciones

#### Observations

- Tolerancia de  $\pm .001$  in.  
Tolerance of  $\pm .001$  in.
- Cantidad de piezas por atado: 12 (En calibre 20 los atados son de 6 pza)  
Pieces per bundle: 12 (20 gauge the bundle are 6 pieces)

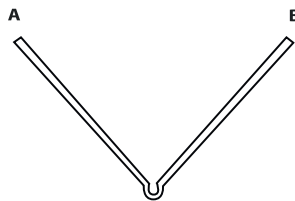


Tabla 5.14

|                  |                  | LONGITUD<br>Lenght | A          | B          | PESO<br>Weight |
|------------------|------------------|--------------------|------------|------------|----------------|
| PRODUCTO         | ESPESOR<br>Gauge | MT. (FT)           | MM. (PULG) | MM. (PULG) | KG/PZ          |
| ÁNGULO DE AMARRE | 26 (0.45mm)      | 3.05 (10'')        | 25.4(1'')  | 25.4(1'')  | 0.536          |
| ÁNGULO DE AMARRE | 26 (0.45mm)      | 2.44 (8'')         | 25.4(1'')  | 25.4(1'')  | 0.429          |

# Accesorios metálicos ligeros estructurales para construcción



## Esquinero

### Cornerback

El esquinero galvanizado se utiliza para reforzar las esquinas y dar forma estética de muros y nichos.

*Galvanized cornerback is used to reinforce corners and aesthetically shape walls and niches.*

## Observaciones

### Observations

- Tolerancia de  $\pm .001$  in.  
*Tolerance of  $\pm .001$  in.*
- Cantidad de piezas por atado: 12 (En calibre 20 los atados son de 6 pza)  
*Pieces per bundle: 12 (20 gauge the bundle are 6 pieces)*

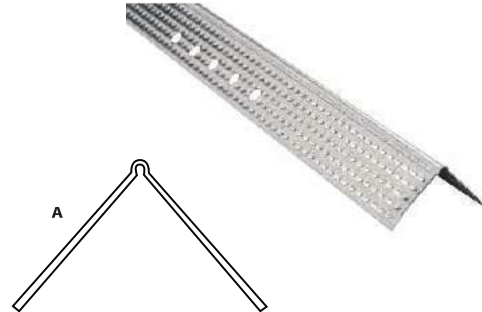


Tabla 5.15

| PRODUCTO                | ESPESOR<br>Gauge | LONGITUD<br>Lenght | A             | B             | PESO<br>Weight |
|-------------------------|------------------|--------------------|---------------|---------------|----------------|
|                         |                  | MT. (FT)           | MM. (PULG)    | MM. (PULG)    | KG/PZ          |
| ESQUINERO<br>Cornerback | 28 (0.37mm)      | 3.05 (10")         | 31.7 (1 1/4") | 31.7 (1 1/4") | 0.628          |
| ESQUINERO<br>Cornerback | 28 (0.37mm)      | 2.44 (8")          | 31.7 (1 1/4") | 31.7 (1 1/4") | 0.502          |

## Canaleta de carga estructural

### Structural load gutter

La canaleta de carga galvanizada se utiliza como soporte para el listón en el plafón.

*The galvanized gutter is used as a support for the batten in the ceiling.*

## Observaciones

### Observations

- Tolerancia de  $\pm .001$  in.  
*Tolerance of  $\pm .001$  in.*
- Cantidad de piezas por atado: 12 (En calibre 20 los atados son de 6 pza)  
*Pieces per bundle: 12 (20 gauge the bundle are 6 pieces)*

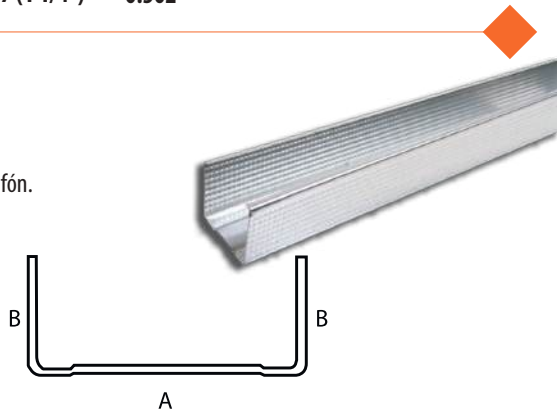
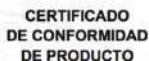


Tabla 5.16

| PRODUCTO                         | ESPESOR<br>Gauge | LONGITUD<br>Lenght | A             | B          | PESO<br>Weight |
|----------------------------------|------------------|--------------------|---------------|------------|----------------|
|                                  |                  | MT. (FT)           | MM. (PULG)    | MM. (PULG) | KG/PZ          |
| CANALETA DE CARGA<br>Load gutter | 22 (0.80mm)      | 3.05 (10")         | 38.0 (1 1/2") | 10 (2/5")  | 1.02           |
| CANALETA DE CARGA<br>Load gutter | 22 (0.60mm)      | 3.05 (10")         | 38.0 (1 1/2") | 10 (2/5")  | 0.804          |



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J. Polym. Sci. Part A: Polym. Chem.: 2009, 47, 1009–1016

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**Nombre general:** SOPORTE METÁLICO PARA CABLES

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NUEVO LEÓN

Países de origen: **MEXICO**

Accepted: 25th May 2006  
DOI: 10.1002/for[illegible]

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### Figure 2 (continued)

### Experimental Procedures

TR-3009-5-GI, ATN-TR-3009-5-GI, ATN-TR-0609-412-GI, ATN-TR-0609-412-GI,  
TR-1205-412-GI, ATN-TR-1609-412-GI, ATN-TR-1609-412-GI, ATN-TR-3009-412-GI,  
TR-2409-412-GI, ATN-TR-3009-412-GI, ATN-TR-3009-412-GI, ATN-TR-0409-5-GI,  
TR-0609-5-GI, ATN-TR-0309-5-GI, ATN-TR-1209-5-GI, ATN-TR-1609-5-GI,  
TR-1809-5-GI, ATN-TR-2009-5-GI, ATN-TR-2409-5-GI, ATN-TR-3009-5-GI,  
TR-3609-5-GI

PERALTE: 101.6 mm; 31.75 mm; 114.3 mm; 127 mm; 152.4 mm  
 ANCHO: 101.6 mm; 152.4 mm; 228.6 mm; 304.8 mm; 406.4 mm; 457.2 mm; 508 mm  
 ESPACIO ENTRE TRAVESAÑOS: 228.6 mm  
 MATERIAL: ALUMINIO, ACERO GALVANIZADO POR INMERSIÓN  
 CLASIFICACIÓN: BA, BC



### CERTIFICADO DE CONFORMIDAD DE PRODUCTO

Certificado No. 20170100174  
Página 1 de 3

La Asociación de Normación y Certificación, A.C., en su carácter de organismo de certificación de productos sometidos y aprobados en los términos de la Ley Federal sobre Metrología y Normalización (LFN), de conformidad con las cláusulas 1, 2, 3 y 4 de la Norma, A.C. AL NTA, 30 febrero 14, 22, 33, 48, 75, 76, 77, 78, 79, 80, y demás reglas y disposiciones de la misma Ley, así como de su respectivo reglamento, con número de Asociación 0110 regente a partir del 08/03/2015, en atención a la solicitud con número de referencia **2016000001** de acuerdo al procedimiento de certificación **PROCESOS-018** de ANCE, y con base en el (los) informe(s) de pruebas (s) he(s)cho(s).

**ACEROS Y TROQUELADOS DEL NORTE, S.A. DE C.V.**

|                                                   |                                                                                                                |
|---------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| Nombre genérico:                                  | SOPORE PARA CABLES TIPO CHAROLA                                                                                |
| Tipo:                                             | FORMA PERFORADO                                                                                                |
| Subtipo:                                          | NINGUNO                                                                                                        |
| Variante:                                         | ATN                                                                                                            |
| Categoría:                                        | NUOVO                                                                                                          |
| Modalidad:                                        | SEGURIDAD DE CERTIFICACIÓN CON SEGUIMIENTO DEL PRODUCTO EN PUNTO DE VENTA O EN LA COMERCIALIZACIÓN             |
| Fabricante y/o importador y/o comercializado por: | ACEROS Y TROQUELADOS DEL NORTE, S.A. DE C.V.                                                                   |
| Dirección fiscal:                                 | FRANCISCO J. MADRERO No. 1882 INT. 301 COL. LOS ALTOS MUN. ESCOBEDO C.P. 86652                                 |
| Fábrica:                                          | NUOVO LEÓN<br>FRANCISCO J. MADRERO No. 1882 INT. 301 COL. LOS ALTOS MUN. GUADALUPE C.P. 86652<br>NUOVO LEÓN    |
| País(es) de origen:                               | MEXICO                                                                                                         |
| Material:                                         | ATNTP-004C10300P0                                                                                              |
| Especificaciones:                                 | MATERIAL: ACERO PREGALVANIZADO<br>LARGO: 3.86 m<br>ANCHO: 102.4 mm<br>PERALTE: 101.6 mm<br>CLASIFICACIÓN: 12 B |



### CERTIFICADO DE CONFORMIDAD DE PRODUCTO

Certificado No. 20170100174  
Página 1 de 3

La Asociación de Normación y Certificación, A.C., en su carácter de organismo de certificación de productos sometidos y aprobados en los términos de la Ley Federal sobre Metrología y Normalización (LFN), de conformidad con las cláusulas 1, 2, 3 y 4 de la Norma, A.C. AL NTA, 30 febrero 14, 22, 33, 48, 75, 76, 77, 78, 79, 80, y demás reglas y disposiciones de la misma Ley, así como de su respectivo reglamento, con número de Asociación 0110 regente a partir del 08/03/2015, en atención a la solicitud con número de referencia **2016000001** de acuerdo al procedimiento de certificación **PROCESOS-018** de ANCE, y con base en el (los) informe(s) de pruebas (s) he(s)cho(s).

**ACEROS Y TROQUELADOS DEL NORTE, S.A. DE C.V.**

|                                                   |                                                                                                                          |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------|
| Nombre genérico:                                  | SOPORE PARA CABLES TIPO CHAROLA                                                                                          |
| Tipo:                                             | FORMA PERFORADO                                                                                                          |
| Subtipo:                                          | NINGUNO                                                                                                                  |
| Variante:                                         | ATN                                                                                                                      |
| Categoría:                                        | NUOVO                                                                                                                    |
| Modalidad:                                        | SEGURIDAD DE CERTIFICACIÓN CON SEGUIMIENTO DEL PRODUCTO EN PUNTO DE VENTA O EN LA COMERCIALIZACIÓN                       |
| Fabricante y/o importador y/o comercializado por: | ACEROS Y TROQUELADOS DEL NORTE, S.A. DE C.V.                                                                             |
| Dirección fiscal:                                 | FRANCISCO J. MADRERO No. 1882 INT. 301 COL. LOS ALTOS MUN. ESCOBEDO C.P. 86652                                           |
| Fábrica:                                          | NUOVO LEÓN<br>FRANCISCO J. MADRERO No. 1882 INT. 301 COL. LOS ALTOS MUN. GUADALUPE C.P. 86652<br>NUOVO LEÓN              |
| País(es) de origen:                               | MEXICO                                                                                                                   |
| Material:                                         | ATNTP-004C10300P0                                                                                                        |
| Especificaciones:                                 | MATERIAL: LAMINA DE ACERO PREGALVANIZADA<br>LARGO: 3.86 m<br>ANCHO: 102.4 mm<br>PERALTE: 101.6 mm<br>CLASIFICACIÓN: 12 B |

[illegible]

Follow-up Service Inspection Report  
E3051131190807182553



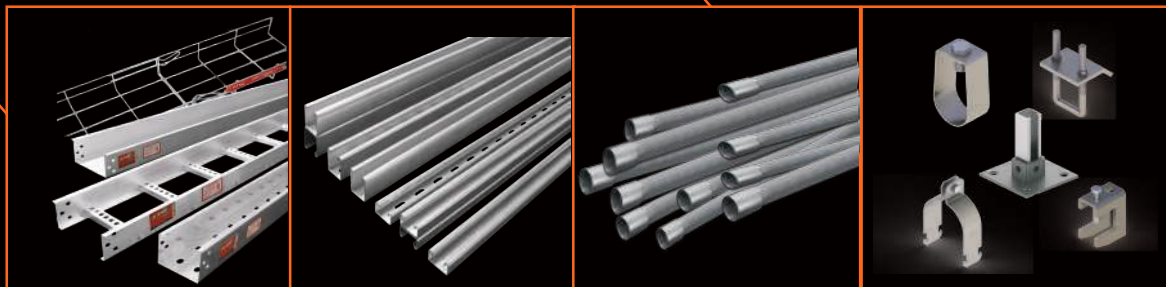
| INSPECTION DETAILS                                                                                                                     |                                                                                                                       |                         |                          |
|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------|
| Date:                                                                                                                                  | 2019-05-07                                                                                                            | File Number:            | E305113                  |
| Manufacturer's Office:                                                                                                                 | REVIS                                                                                                                 | Volume:                 | 1                        |
| Inspector's Office:                                                                                                                    | 401                                                                                                                   | Code:                   | C116N                    |
| Product Type:                                                                                                                          | Cable Trays                                                                                                           | UL File Name:           | 2016-04-01               |
| Deliverable Type:                                                                                                                      | Used                                                                                                                  | UL Rep ID:              | 00315                    |
| Party Site Number:                                                                                                                     | 044321                                                                                                                | Subscriber Factory No.: |                          |
| Manufacturer Name:                                                                                                                     | ACEROS Y TROQUELES                                                                                                    | Factory Rep Name:       | Mr. Felipe Rodriguez     |
| Manufacturer Address:                                                                                                                  | AV. FRANCISCO I. MANDERO<br>1002<br>COL. LOS ALTOS ESCOBEDO<br>NUEVO LEON MEXICO                                      | Factory Rep Phone:      | (81) 384-1215            |
|                                                                                                                                        |                                                                                                                       | Factory Rep Email:      | gerencaplan@ahondomex.co |
|                                                                                                                                        |                                                                                                                       |                         | m                        |
| Nature of Job:                                                                                                                         | With Protective Inspection                                                                                            | Sample Status:          | Samples not required     |
| UL Mark Used?                                                                                                                          | No                                                                                                                    | UL Mark Removed?        | No                       |
| Variation Notice Issued?                                                                                                               | No                                                                                                                    |                         |                          |
| Comments After Submission:                                                                                                             |                                                                                                                       |                         |                          |
| PRODUCT DOCUMENTS/PRODUCTION READY VISIT                                                                                               |                                                                                                                       |                         |                          |
| Model:                                                                                                                                 | Product:                                                                                                              | Section:                | Multiple Listed:         |
| ATNTR0504AL                                                                                                                            | Ladder Cable Trays series                                                                                             | 1                       | No                       |
| SAMPLE DOCUMENTS                                                                                                                       |                                                                                                                       |                         |                          |
| If samples are required to be sent to UL's Laboratory, indicate below. If required samples are not sent, explain in the Comments area. |                                                                                                                       |                         |                          |
| No Samples:                                                                                                                            |                                                                                                                       |                         |                          |
| Additional Comments:                                                                                                                   | If completed with acceptable results, starting today manufacturer is authorized to ship products bearing the UL mark. |                         |                          |

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