

CROSS LINE^(MR)



CHAROLAS

CABLE TRAYS Cross Line Products

CROSS LINE[®]

| Clasificación | Profiles "Z", "C" e "I" | Fondo sólido, liso y perforado | Canaleta | Malla | Marino | Fibra de vidrio | Perfiles "C" y "E" |
|---------------|-------------------------|-----------------------------------|---------------------|--------------------|--|--------------------|--------------------|
| | | | | | | | |
| 5AA | | | ✓ Aluminio | | | | |
| 5BB | | | ✓ Acero galvanizado | | | | |
| 6BB | | | | ✓ Acero inoxidable | ✓ Acero galvanizado Acero inoxidable Acero pintado | | |
| 8A | ✓ Aluminio | | | | | | |
| 8B | | | | | ✓ Lámina galvanizada | | |
| 8C | ✓ Aluminio | ✓ Aluminio | | | ✓ Lámina galvanizada | | |
| 12A | ✓ Aluminio | ✓ Aluminio | | | ✓ Lámina galvanizada | | |
| 12B | Aluminio | Aluminio | Aluminio | | ✓ Lámina galvanizada | | |
| | ✓ Acero galvanizado | ✓ Acero galvanizado | ✓ Acero galvanizado | | ✓ Lámina galvanizada | | |
| | Acero inoxidable | Acero inoxidable | Acero inoxidable | | ✓ Lámina galvanizada | | |
| 12C | Aluminio | Aluminio | Aluminio | | ✓ Lámina galvanizada | | |
| | ✓ Acero galvanizado | ✓ Acero galvanizado | ✓ Acero galvanizado | | ✓ Lámina galvanizada | | |
| | Acero inoxidable | Acero inoxidable | Acero inoxidable | | ✓ Lámina galvanizada | | |
| 16A | Aluminio | Aluminio | Aluminio | | ✓ Lámina galvanizada | | |
| | ✓ Acero galvanizado | ✓ Acero galvanizado | ✓ Acero galvanizado | | ✓ Lámina galvanizada | | |
| | Acero inoxidable | Acero inoxidable | Acero inoxidable | | ✓ Lámina galvanizada | | |
| 16B | ✓ Acero galvanizado | ✓ Acero galvanizado | ✓ Acero galvanizado | | ✓ Lámina galvanizada | | |
| | Acero inoxidable | Acero inoxidable | Acero inoxidable | | ✓ Lámina galvanizada | | |
| 20A | ✓ Acero galvanizado | ✓ Acero galvanizado | ✓ Acero galvanizado | | ✓ Lámina galvanizada | | |
| | Acero inoxidable | Acero inoxidable | Acero inoxidable | | ✓ Lámina galvanizada | | |
| 20B | ✓ Aluminio | | | | | | |
| 20C | ✓ Aluminio | | | | | | |

■ Servicio pesado/
Media y baja tensión



■ Servicio mediano/
Media y baja tensión



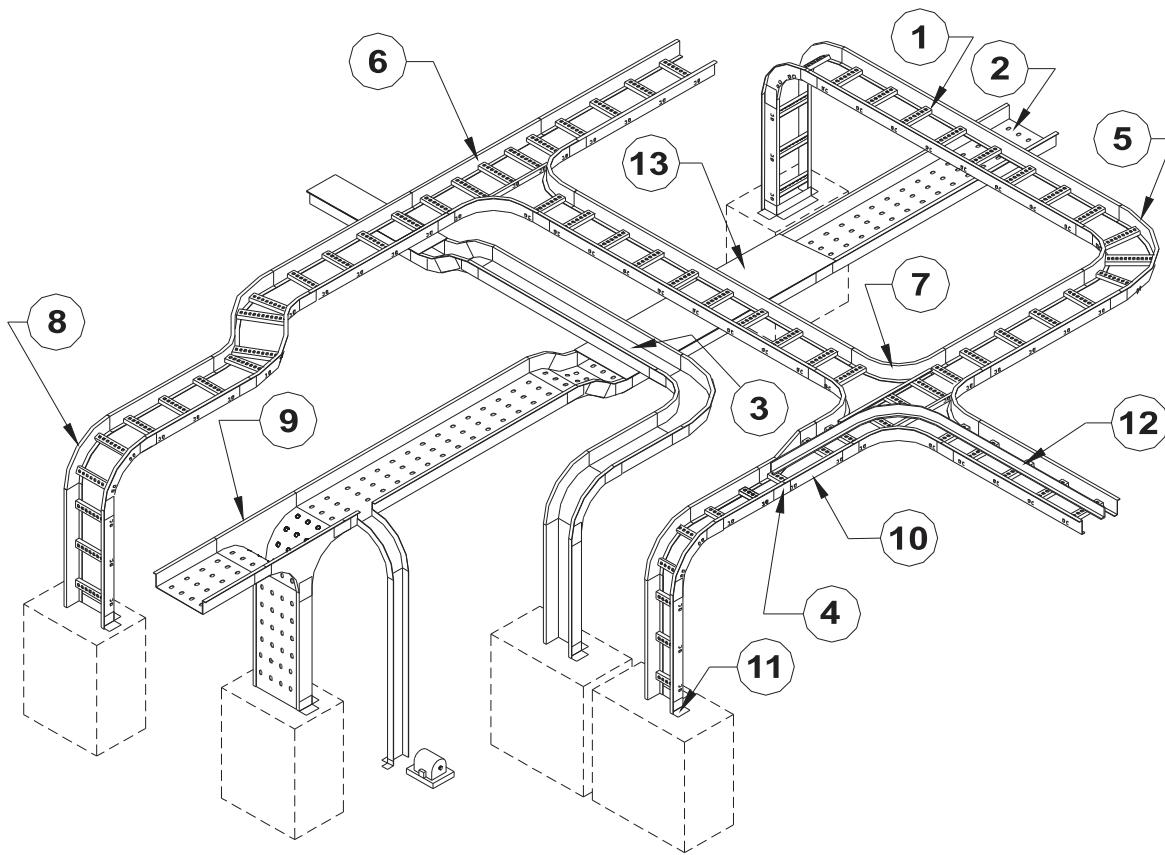
■ Servicio ligero/
Voz y datos

Sección 4 Sistemas de soportes para cables

1. Charola tipo Escalera • *Ladder Type Cable Tray*
2. Charola tipo Fondo Sólido Perforado • *Ventilated Solid Flat Trough Cable Tray*
3. Charola Tipo Fondo Sólido Liso. • *Solid Flat Trough Cable Tray*
4. Conector. • *Splice Plate*
5. Curva Horizontal. • *Horizontal Bend*
6. "T" Horizontal • *Horizontal Tee*
7. Equis Horizontal. • *Horizontal Cross*.

Section 4 Cable tray systems

8. Curva Vertical Interior y Exterior • *Outside and Inside Vertical Bend.*
9. "T" Vertical. • *Vertical Tee*
10. Reducción. • *Reducer.*
11. Conector de Charola a Caja. • *Frame Type Box Connector*
12. Barrera Separadora. • *Straight Section Barrier Strip*
13. Tapas (Cubiertas) • *Covers*



CABLE TRAYS Cross Line Products

**CROSS
LINE[®]**

Certificaciones

| |
|---|
|  <p align="center">CERTIFICADO DE CONFORMIDAD DE PRODUCTO</p> <p align="center">Certificado No. 200901004 Este Certificado sustituye al Certificado número 20090100542 Página 1 de 1</p> <p>La Asociación de Normalización y Certificación, A.C., en el ejercicio de sus funciones de Certificación de Producto acordado y aprobado en los términos de la Ley Federal sobre Metrología y Normalización (LFMN), de conformidad con los artículos 1, 2, 3 fraccionados, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 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696, 697, 698, 699, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 869, 870, 871, 872, 873, 874, 875, 876, 877, 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Se considera un sistema de soportaría tipo charola para cable a una estructura rígida y continua especialmente construida para soportar cables, tubos u otras canalizaciones, las cuales pueden ser de metal u otros materiales no combustibles.

Las charolas para cables CROSS LINE pueden usarse para soportar cables de fuerza, alumbrado, control y señalización que cuenten con aislamiento y cubierta apropiados para este tipo de instalación.

Las charolas CROSS LINE se encuentran disponibles en materiales y acabados adecuados para su instalación a la intemperie o en condiciones ambientales desfavorables.

No se permite su instalación en cubos de ascensores o en aquellos lugares donde estén expuestos a daños mecánicos severos o en áreas clasificadas de acuerdo a los artículos del 500 al 505 de la norma NOM-001 SEDE 2012, a menos que los cables estén aprobados para tal uso.

Las charolas para cables de CROSS LINE cuentan con la suficiente rigidez y resistencia mecánica para proporcionar un soporte adecuado a todo el cableado tendido dentro de ellas.

CROSS LINE cuenta con una amplia gama de charolas metálicas protegidas contra la corrosión, así como no metálicas e incluyen todos los accesorios necesarios para realizar cambios de dirección o de nivel requeridos durante la instalación.

Todas las labores de diseño y fabricación de las charolas CROSS LINE se realizan apegados a las normas tanto nacionales (NMX-J511-ANCE-2011, NOM-001 SEDE 2012) como internacionales (NEMA VE 1-2002, Nacional Electrical Code NEC).

De esta manera el cálculo de las características de un sistema de soportaría , tal como ancho, alturas, radios, distancia entre travesaños, etc. Deberá apegarse al artículo 318 de la norma NOM-001 SEDE 2012 o su similar en el código NEC.

El propósito de este catálogo de soportaría para cables es el de ayudar a Ingenieros, Proyectistas y Compradores en la selección del material idóneo que cumpla con las características obtenidas en los cálculos indicados en las normas.

Debido a nuestra política de mejora continua de nuestros productos, las especificaciones, dimensiones, así como toda información contenida en este catálogo podrá ser modificada sin previo aviso.

Estamos seguros de que las ventajas que usted encontrará en nuestro sistema de soportaría para cables, le convencerán de que:

¡¡¡EN CHAROLAS SEGUIMOS SIENDO LA MEJOR OPCIÓN!!!

A cable tray system is considered as a rigid and continuous metallic structure or other type of non-flammable materials which are built specially to support cable, pipes or others types of electrical channels.

CROSS LINE cable trays can be used as support of different cable type such as power, lighting systems, control or data signals. The cable must have the proper insulation according to the installation type.

CROSS LINE cable trays are available in materials and finishes for outdoors or hostile environment conditions.

Cable tray systems can't be installed in elevators shafts or areas exposed to mechanical damage.

Cable tray systems can't be installed in hazardous locations as indicated in articles 500 to 505 of the NEC code unless use a cable approved for this areas.

CROSS LINE cable tray systems are rigid and high mechanical resistance for a proper support of all cables contained inside.

CROSS LINE offers a wide range of cable trays like corrosion resistance metallic systems and non-metallic system, both have the necessary fitting for direction and level changes to offer a complete installation service.

The entire CROSS LINE cable tray's manufacturing processes, from design to finish are under Mexican (NMX-J511-ANCE-2011, NOM-001 SEDE 2012) as International (NEMA VE 1-2002, National Electrical Code NEC) standards.

So the calculation of cable tray parameters such as width, height, radius, distance between rungs and others, should be according to 318 article of NEC code or NOM-001 SEDE 2012 in Mexico.

This cable tray systems catalog is designed to help general engineers, project engineers and customers for a right cable tray selection, to fulfill the requirements obtained of the standard calculations.

CROSS LINE have a "continuous best product" policy, so the dimensions, specifications and all technical information showed in this catalog can change without notice.

While every effort has been made to assure the accuracy of information contained in this catalog at the time of publication, we cannot accept responsibility for inaccuracies resulting from undetected errors or omissions.

We are sure that the advantages of our cable tray system will convince you that:

IN CABLE TRAY SYSTEMS CROSS LINE IS YOUR BEST CHOICE!!!

Cargas soportadas

Los sistemas de soportería para cables CROSS LINE al ser diseñados y fabricados bajo la normativa nacional e internacional cumplen con las características de carga indicadas en dichas normas.

Para tal efecto en las siguientes páginas del catálogo se indicará la clasificación requerida por la norma NMX-J-511-ANCE-2011.

Esta norma indica que las cargas soportadas por los sistemas de soportería para cables (de manera principal los tramos rectos) deberán ser declaradas por el fabricante y/o vendedor.

Tomando en cuenta las pruebas declaradas en la norma. La cargas de trabajo admisibles (CTA) están dadas en función del sistema de apoyo, de donde: un sistema continuo de 2 o más charolas son probadas, colocando una carga uniforme a todo lo largo de la charola.

En lo correspondiente a las pruebas de carga admitidas por la norma, la prueba tipo VI da por valido que el fabricante pueda recomendar al instalador la longitud máxima entre apoyos, garantizando así el trabajo mecánico del soporte para cable.

Asimismo la posición de las uniones con respecto al soporte es un factor que el vendedor podrá recomendar al instalador cuando sea un caso desfavorable en la obra.

La carga de seguridad del sistema es la carga destructiva dividida entre un factor de seguridad mínimo de 1.5.

Opcionalmente podrá aplicarse una carga concentrada al centro de la distancia entre apoyos, la magnitud de esta carga deberá ser determinada por el cliente e informada a CROSS LINE para realizar los estudios de factibilidad correspondientes.

Load capacity

CROSS LINE cable tray systems are designed following the standard concepts, covering the required characteristics in load capacity.

In the catalog's following pages the classification required for the standard NMX-J-511-ANCE-2011 is shown.

This standard indicates that the system supported load (straight sections mainly) will be declared by the manufacturer and/or salesman.

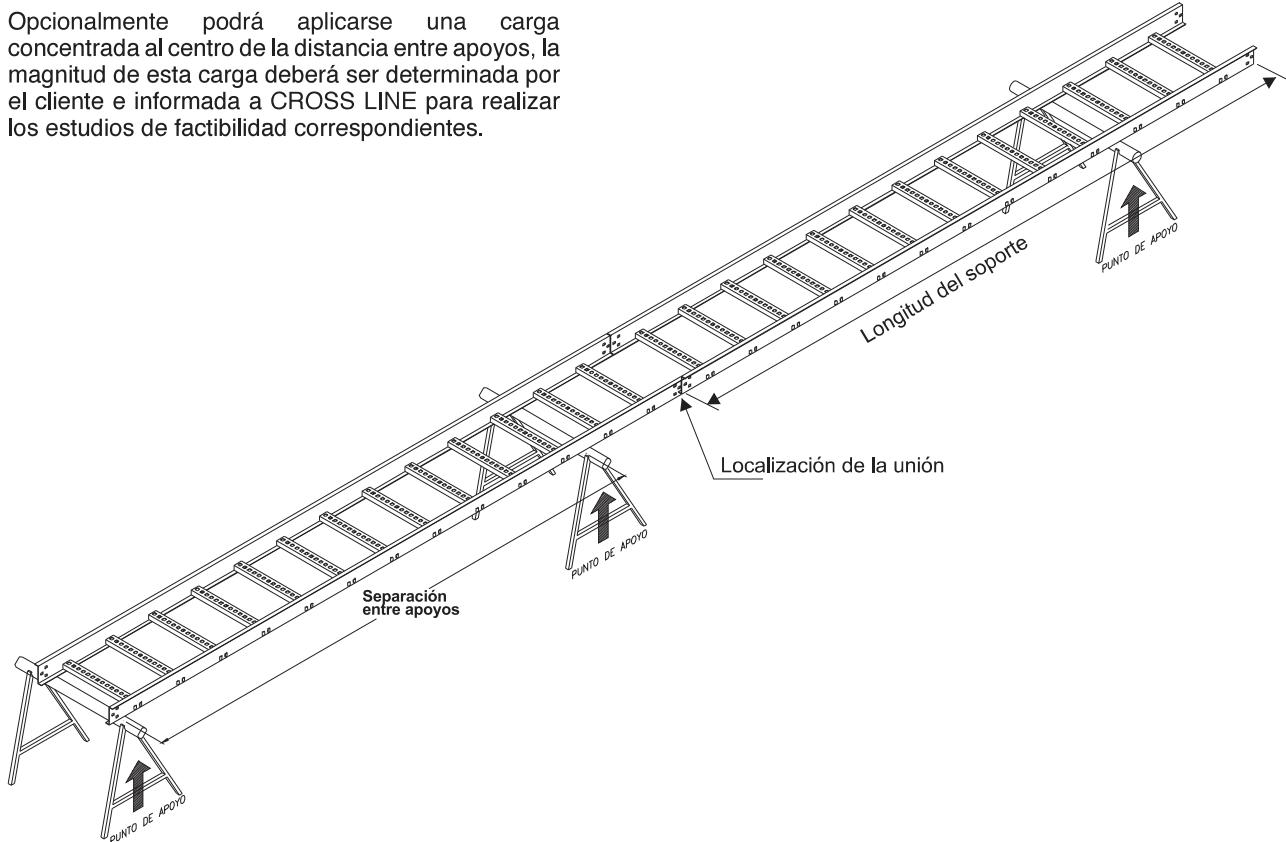
Taking into account the tests declared in the norm. The acceptable workloads (CTA) are given in function of the supporting system, where: a continuous system of 2 or more cable trays are tested, placing a uniformly distributed load all along the tray.

According to standards, admitted load tests, type III test justify the manufacturer recommend to the installer, the maximum distance between supports, guaranteeing the support mechanical work.

Also the joints position with regard to the support is a factor that the salesman can suggest to the installer when adverse work conditions.

The working load is equivalent to the destruction load divided by a 1.5 safety factor.

A concentrated static load is not included in load/ span designations but if it is required for the user it should be applied at the center of the span. If the combined load exceeds the working load, CROSS LINE technical department should be consulted.



Sección 4.1

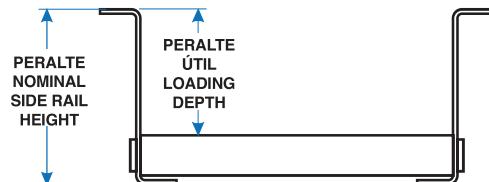
Soportes para cables tipo escalera

Section 4.1

Ladder type cable tray systems

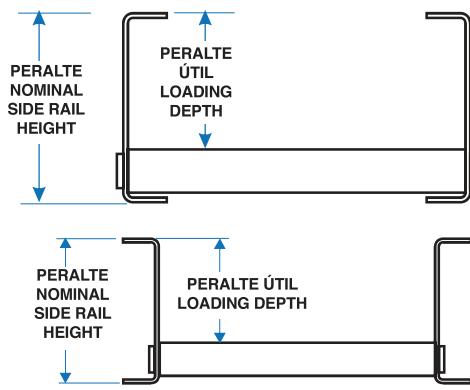
Secciones tipo "Z" • "Z" form sections

| Peralte Nominal Side rail height | Peralte Útil Loading Depth | Sufijo p/veralte Rail height Suffix | Clase NEMA NEMA Class | |
|-------------------------------------|-------------------------------|--|--------------------------|----------------|
| | | | Aluminio Aluminum | Acero Steel |
| 82.5 (3.25) | 58.1 (2.29) | 1 | 8A | 12C/16B |
| 82.5 (3.25) | 56.5 (2.22) | 1 | 8C | |
| 101.6 (4) | 75.6 (2.98) | 2 | 12A | 12C/16A |
| 101.6 (4) | 75.6 (2.98) | 2 | 12B | |
| 114.3 (4.5) | 88.3 (3.48) | 3 | 12B | 12C/16A |
| 127.0 (5) | 101.4 (3.98) | 5 | 12C | 20A |
| 152.4 (6) | 126.4 (4.98) | 6 | 16C | 20C |
| 177.8 (7) | 151.9 (5.98) | 7 | 12A | 20A |



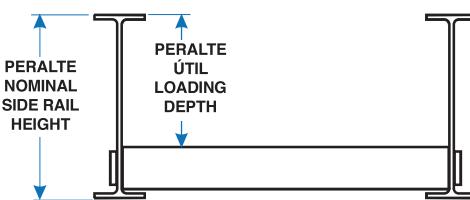
Secciones tipo "C" con ceja hacia adentro • Flange in "C" form sections

| Peralte Nominal Side rail height | Peralte Útil Loading Depth | Sufijo p/veralte Rail height Suffix | Clase NEMA NEMA Class | |
|-------------------------------------|-------------------------------|--|--------------------------|----------------|
| | | | Aluminio Aluminum | Acero Steel |
| 82.5 (3.25) | 58.1 (2.29) | 1 | 12A | 12B |
| 101.6 (4) | 75.6 (2.98) | 2 | 12B | |
| 114.3 (4.5) | 88.3 (3.48) | 3 | 12A | 12C/16A |
| 127.0 (5) | 101.4 (3.98) | 5 | 12A | |
| 152.4 (6) | 126.4 (4.98) | 6 | 16C | 20B |
| 152.4 (6) | 126.4 (4.98) | 6 | 20C | |



Secciones tipo "I" • "I" Form sections

| Peralte Nominal Side rail height | Peralte Útil Loading Depth | Sufijo p/veralte Rail height Suffix | Clase NEMA NEMA Class | |
|-------------------------------------|-------------------------------|--|--------------------------|----------------|
| | | | Aluminio Aluminum | Acero Steel |
| 101.6 (4) | 75.6 (2.98) | 2 | 8A | 12C/16A |
| 104.6 (4.120) | 78.6 (3.10) | 2 | 12B | |
| 106.7 (4.200) | 80.7 (3.17) | 2 | 12C/16A | 12C/16A |
| 127 (5) | 101.4 (3.98) | 5 | 12C/16A | |
| 152.4 (6) | 126.4 (4.98) | 6 | 12C/16A | 20B/20C |
| 152.4 (6) | 126.4 (4.98) | 6 | 20B/20C | |



Perfil "I" solo en Aluminio • I form Aluminum only

Materiales y acabados:

- A: Aluminio acabado natural
 - GI: Acero al carbón galvanizado por inmersión/ Lámina galvanizada
 - GE: Acero al carbón galvanizado electrolítico
 - T: Acero al carbón galvanizado tropicalizado
 - PVC: Acero al carbón recubierto con PVC
 - PVA: Aluminio recubierto con PVC
 - AI: Acero inoxidable
- Para materiales y acabados no indicados consulte nuestro departamento de ingeniería.
Todas las Dimensiones en mm (pulg)

Materials & finishes:

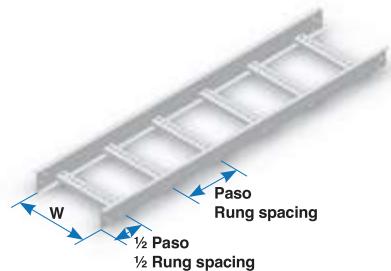
- A: AA-6063 Natural finished aluminum
 - GI: Hot dip galvanized steel / Galvanized sheet
 - GE: Electro galvanized steel
 - T: Chromium-zinc coated steel
 - PVC: PVC coated steel
 - PVA: PVC coated aluminum
 - AI: Stainless steel
- For materials and finishes not shown please consult our technical department.
Dimensions are in mm (in)

Tramo recto • Straight section

CH Z - 1209-1GI



Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte • Rail height suffix
 Paso • Rung spacing
 Ancho • Width
 Perfil tipo (ver pag 58) • Rail type (see page 58)
 Tramo recto • Straight section



| Perfil tipo Rail type | Material y acabado Material and finish | | | | | | |
|--------------------------|---|------------|------------|------------|------------|------------|------------|
| | A | GI | GE | T | PVC | PVA | AI |
| Z | 3.05 (10') | 3.66 (12') | 3.05 (10') | 3.05 (10') | 3.05 (10') | 3.05 (10') | 3.05 (10') |
| C | 3.66 (12') | 3.66 (12') | 3.05(10') | 3.05(10') | 3.05(10') | 3.05(10') | 3.05(10') |
| I | 6.10 (20') | | | | | 3.05(10') | |

Longitudes estándar en metros (pies) • Standard length in meters (feet)

Para longitudes diferentes consulte nuestro departamento de ingeniería • For other lengths please refer to our technical department

| Ancho W Width W | Paso Rung spacing | | | Paso Rung spacing | | | Paso Rung spacing | | |
|--------------------|----------------------|-----------|------------|----------------------|-----------|------------|----------------------|-----------|------------|
| | 152.4 (6) | 228.6 (9) | 304.8 (12) | 152.4 (6) | 228.6 (9) | 304.8 (12) | 152.4 (6) | 228.6 (9) | 304.8 (12) |
| 101.6 (4) | CH-0406 | CH-0409 | CH-0412 | CHC-0406 | CHC-0409 | CHC-0412 | CHI-0406 | CHI-0409 | CHI-0412 |
| 152.4 (6) | CH-0606 | CH-0609 | CH-0612 | CHC-0606 | CHC-0609 | CHC-0612 | CHI-0606 | CHI-0609 | CHI-0612 |
| 228.9 (9) | CH-0906 | CH-0909 | CH-0912 | CHC-0906 | CHC-0909 | CHC-0912 | CHI-0906 | CHI-0909 | CHI-0912 |
| 304.8 (12) | CH-1206 | CH-1209 | CH-1212 | CHC-1206 | CHC-1209 | CHC-1212 | CHI-1206 | CHI-1209 | CHI-1212 |
| 406.4 (16) | CH-1606 | CH-1609 | CH-1612 | CHC-1606 | CHC-1609 | CHC-1612 | CHI-1606 | CHI-1609 | CHI-1612 |
| 457.2 (18) | CH-1806 | CH-1809 | CH-1812 | CHC-1806 | CHC-1809 | CHC-1812 | CHI-1806 | CHI-1809 | CHI-1812 |
| 508.0 (20) | CH-2006 | CH-2009 | CH-2012 | CHC-2006 | CHC-2009 | CHC-2012 | CHI-2006 | CHI-2009 | CHI-2012 |
| 609.6 (24) | CH-2406 | CH-2409 | CH-2412 | CHC-2406 | CHC-2409 | CHC-2412 | CHI-2406 | CHI-2409 | CHI-2412 |
| 762.0 (30) | CH-3006 | CH-3009 | CH-3012 | CHC-3006 | CHC-3009 | CHC-3012 | CHI-3006 | CHI-3009 | CHI-3012 |
| 914.4 (36) | CH-3606 | CH-3609 | CH-3612 | CHC-3606 | CHC-3609 | CHC-3612 | CHI-3606 | CHI-3609 | CHI-3612 |

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Incluye 2 conectores y tornillería • Two connectors and hardware included

Pasos disponibles • Available rung spacings:

152.4 (6), 228.6 (9), 304.8(12) y 457.2 (18)

Selección de charola.

Para seleccionar adecuadamente una charola, deberá considerar los siguientes factores:

- 1) CLASE DE CHAROLA
 - a) Capacidad de carga
 - b) Espaciamiento entre soporte
 - c) Deflexión
- 2) ALTURA DE CHAROLA
 - a) Diámetro de cables
 - b) Capacidad de relleno de cables
- 3) MATERIAL / ACABADO
 - a) Medio ambiente
 - b) Apariencia
 - c) Costo de la instalación
- 4) ANCHO DE CHAROLA
 - a) Diámetro de cables
 - b) Capacidad de relleno de cables
 - c) Requerimientos para futuras expansiones

Cable trays selection

To choose adequately a cable tray you must consider the following factors:

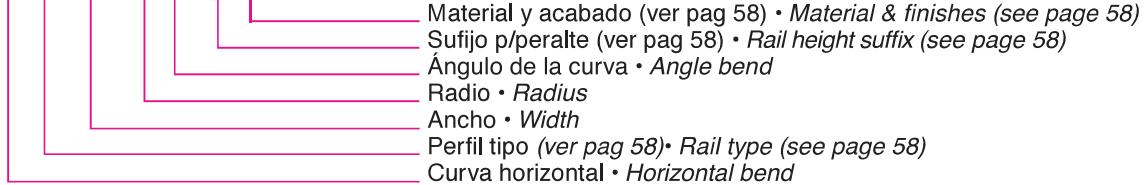
- 1) CABLE TRAY TYPE
 - a) Load capacity
 - b) Support's spaciousness
 - c) Deflection
- 2) CABLE TRAY'S HEIGHT
 - a) Cable's diameter
 - b) Cables packing capacity
- 3) MATERIAL / FINISH
 - a) Environment
 - b) Appearance
 - c) Installation Cost
- 4) CABLE TRAY'S WIDE
 - a) Cable's diameters
 - b) Cables packing capacity
 - c) Future expansion requirements

Altura de charolas • Cable tray height

| Sufijo para peralte | Peralte Nominal mm (pulg.) | Peralte Útil mm (pulg.) |
|---------------------|----------------------------|-------------------------|
| 1 | 82.5 (3 ¼") | 56.5 (2.224") |
| 2 | 101.6 (4") | 75.6 (2.976") |
| 3 | 114.3 (4 ½") | 88.3 (3.476") |
| 5 | 127.0 (5") | 101.0 (3.976") |
| 6 | 152.4 (6") | 126.4 (4.976") |

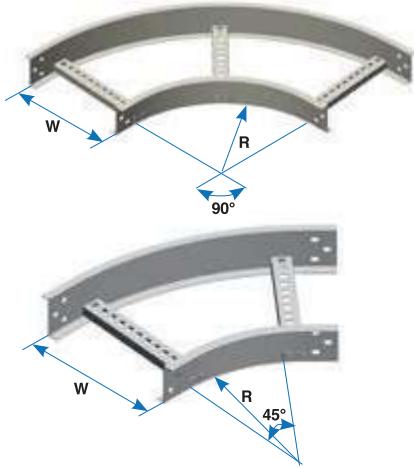
Curva horizontal a 45° y 90° • 45° & 90° Horizontal bend

VHZ-12R890-1 A

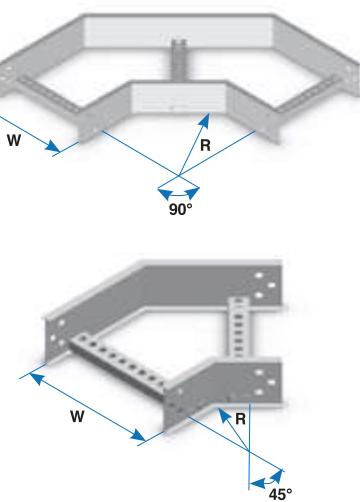


Para curvas estructurales agregar la letra "E" después del código.

Diseno radial para perfil "Z" y "C"
Radial design for "Z" & "C" rail type



Diseño estructural para perfil "Z", "C" e "I"
Segmented design for "Z", "C" & "I" rail type



Números de catálogo para curva a 90° • 90° Bend's Catalog number

| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|--------------|--------------|--------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | VH**-04R890 | VH**-04R1290 | VH**-04R2490 | VH**-04R3690 |
| 152.4 (6) | VH**-06R890 | VH**-06R1290 | VH**-06R2490 | VH**-06R3690 |
| 228.9 (9) | VH**-09R890 | VH**-09R1290 | VH**-09R2490 | VH**-09R3690 |
| 304.8 (12) | VH**-12R890 | VH**-12R1290 | VH**-12R2490 | VH**-12R3690 |
| 406.4 (16) | VH**-16R890 | VH**-16R1290 | VH**-16R2490 | VH**-16R3690 |
| 457.2 (18) | VH**-18R890 | VH**-18R1290 | VH**-18R2490 | VH**-18R3690 |
| 508.0 (20) | VH**-20R890 | VH**-20R1290 | VH**-20R2490 | VH**-20R3690 |
| 609.6 (24) | VH**-24R890 | VH**-24R1290 | VH**-24R2490 | VH**-24R3690 |
| 762.0 (30) | VH**-30R890 | VH**-30R1290 | VH**-30R2490 | VH**-30R3690 |
| 914.4 (36) | VH**-36R890 | VH**-36R1290 | VH**-36R2490 | VH**-36R3690 |

Solo radial • Radial Only

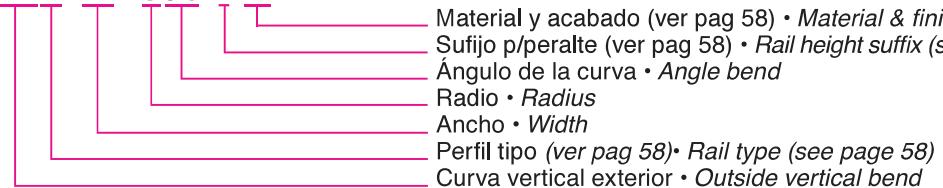
Números de catálogo para curva a 45° • 45° Bend's Catalog number

| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|--------------|--------------|--------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | VH**-04R845 | VH**-04R1245 | VH**-04R2445 | VH**-04R3645 |
| 152.4 (6) | VH**-06R845 | VH**-06R1245 | VH**-06R2445 | VH**-06R3645 |
| 228.9 (9) | VH**-09R845 | VH**-09R1245 | VH**-09R2445 | VH**-09R3645 |
| 304.8 (12) | VH**-12R845 | VH**-12R1245 | VH**-12R2445 | VH**-12R3645 |
| 406.4 (16) | VH**-16R845 | VH**-16R1245 | VH**-16R2445 | VH**-16R3645 |
| 457.2 (18) | VH**-18R845 | VH**-18R1245 | VH**-18R2445 | VH**-18R3645 |
| 508.0 (20) | VH**-20R845 | VH**-20R1245 | VH**-20R2445 | VH**-20R3645 |
| 609.6 (24) | VH**-24R845 | VH**-24R1245 | VH**-24R2445 | VH**-24R3645 |
| 762.0 (30) | VH**-30R845 | VH**-30R1245 | VH**-30R2445 | VH**-30R3645 |
| 914.4 (36) | VH**-36R845 | VH**-36R1245 | VH**-36R2445 | VH**-36R3645 |

Solo radial • Radial Only

Curva vertical exterior a 45° Y 90° • 45° & 90° Outside vertical bend

VEZ-12R890-1 A



Material y acabado (ver pag 58) • Material & finishes (see page 58)

Sufijo p/veralte (ver pag 58) • Rail height suffix (see page 58)

Ángulo de la curva • Angle bend

Radio • Radius

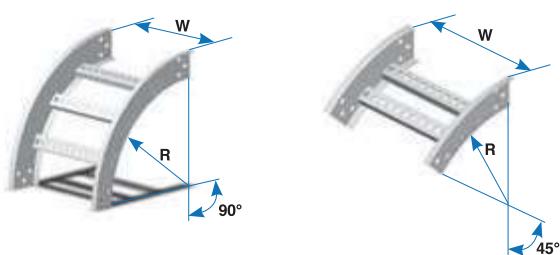
Ancho • Width

Perfil tipo (ver pag 58) • Rail type (see page 58)

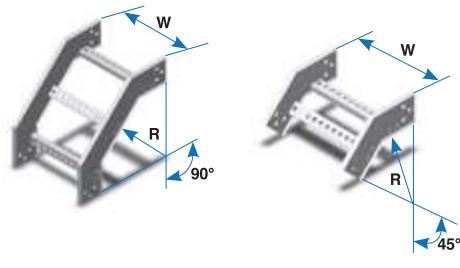
Curva vertical exterior • Outside vertical bend

Para curvas estructurales agregar la letra "E" después del código.

Diseño radial para perfil "Z" y "C"
Radial design for "Z" & "C" rail type



Diseño estructural para perfil "Z", "C" e "I"
Segmented design for "Z", "C" & "I" rail type



Números de catálogo para curva a 90° • 90° Bend's Catalog number

| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|--------------|--------------|--------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | VE**-04R890 | VE**-04R1290 | VE**-04R2490 | VE**-04R3690 |
| 152.4 (6) | VE**-06R890 | VE**-06R1290 | VE**-06R2490 | VE**-06R3690 |
| 228.9 (9) | VE**-09R890 | VE**-09R1290 | VE**-09R2490 | VE**-09R3690 |
| 304.8 (12) | VE**-12R890 | VE**-12R1290 | VE**-12R2490 | VE**-12R3690 |
| 406.4 (16) | VE**-16R890 | VE**-16R1290 | VE**-16R2490 | VE**-16R3690 |
| 457.2 (18) | VE**-18R890 | VE**-18R1290 | VE**-18R2490 | VE**-18R3690 |
| 508.0 (20) | VE**-20R890 | VE**-20R1290 | VE**-20R2490 | VE**-20R3690 |
| 609.6 (24) | VE**-24R890 | VE**-24R1290 | VE**-24R2490 | VE**-24R3690 |
| 762.0 (30) | VE**-30R890 | VE**-30R1290 | VE**-30R2490 | VE**-30R3690 |
| 914.4 (36) | VE**-36R890 | VE**-36R1290 | VE**-36R2490 | VE**-36R3690 |

Solo radial • Radial Only

Números de catálogo para curva a 45° • 45° Bend's Catalog number

| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|--------------|--------------|--------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | VE**-04R845 | VE**-04R1245 | VE**-04R2445 | VE**-04R3645 |
| 152.4 (6) | VE**-06R845 | VE**-06R1245 | VE**-06R2445 | VE**-06R3645 |
| 228.9 (9) | VE**-09R845 | VE**-09R1245 | VE**-09R2445 | VE**-09R3645 |
| 304.8 (12) | VE**-12R845 | VE**-12R1245 | VE**-12R2445 | VE**-12R3645 |
| 406.4 (16) | VE**-16R845 | VE**-16R1245 | VE**-16R2445 | VE**-16R3645 |
| 457.2 (18) | VE**-18R845 | VE**-18R1245 | VE**-18R2445 | VE**-18R3645 |
| 508.0 (20) | VE**-20R845 | VE**-20R1245 | VE**-20R2445 | VE**-20R3645 |
| 609.6 (24) | VE**-24R845 | VE**-24R1245 | VE**-24R2445 | VE**-24R3645 |
| 762.0 (30) | VE**-30R845 | VE**-30R1245 | VE**-30R2445 | VE**-30R3645 |
| 914.4 (36) | VE**-36R845 | VE**-36R1245 | VE**-36R2445 | VE**-36R3645 |

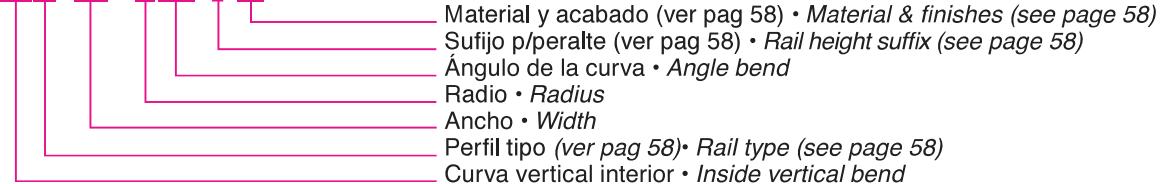
Solo radial • Radial Only

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Incluye 2 conectores y tornillería • Two connectors and hardware included

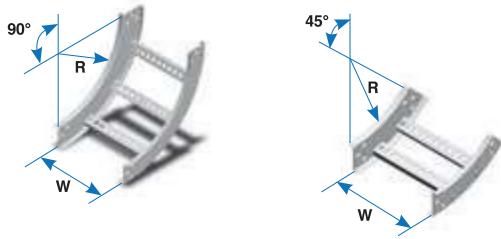
Curva vertical interior a 45° Y 90° • 45° & 90° Inside vertical bend

VIZ-12R890-1 A

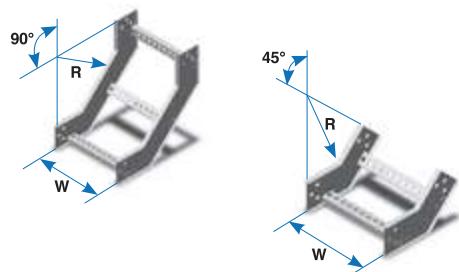


Para curvas estructurales agregar la letra "E" después del código.

Diseño radial para perfil "Z" y "C"
Radial design for "Z" & "C" rail type



Diseño estructural para perfil "Z", "C" e "I"
Segmented design for "Z", "C" & "I" rail type



Números de catálogo para curva a 90° • 90° Bend's Catalog number

| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|--------------|--------------|--------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | VI**-04R890 | VI**-04R1290 | VI**-04R2490 | VI**-04R3690 |
| 152.4 (6) | VI**-06R890 | VI**-06R1290 | VI**-06R2490 | VI**-06R3690 |
| 228.9 (9) | VI**-09R890 | VI**-09R1290 | VI**-09R2490 | VI**-09R3690 |
| 304.8 (12) | VI**-12R890 | VI**-12R1290 | VI**-12R2490 | VI**-12R3690 |
| 406.4 (16) | VI**-16R890 | VI**-16R1290 | VI**-16R2490 | VI**-16R3690 |
| 457.2 (18) | VI**-18R890 | VI**-18R1290 | VI**-18R2490 | VI**-18R3690 |
| 508.0 (20) | VI**-20R890 | VI**-20R1290 | VI**-20R2490 | VI**-20R3690 |
| 609.6 (24) | VI**-24R890 | VI**-24R1290 | VI**-24R2490 | VI**-24R3690 |
| 762.0 (30) | VI**-30R890 | VI**-30R1290 | VI**-30R2490 | VI**-30R3690 |
| 914.4 (36) | VI**-36R890 | VI**-36R1290 | VI**-36R2490 | VI**-36R3690 |

Solo radial • Radial Only

Números de catálogo para curva a 45° • 45° Bend's Catalog number

| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|--------------|--------------|--------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | VI**-04R845 | VI**-04R1245 | VI**-04R2445 | VI**-04R3645 |
| 152.4 (6) | VI**-06R845 | VI**-06R1245 | VI**-06R2445 | VI**-06R3645 |
| 228.9 (9) | VI**-09R845 | VI**-09R1245 | VI**-09R2445 | VI**-09R3645 |
| 304.8 (12) | VI**-12R845 | VI**-12R1245 | VI**-12R2445 | VI**-12R3645 |
| 406.4 (16) | VI**-16R845 | VI**-16R1245 | VI**-16R2445 | VI**-16R3645 |
| 457.2 (18) | VI**-18R845 | VI**-18R1245 | VI**-18R2445 | VI**-18R3645 |
| 508.0 (20) | VI**-20R845 | VI**-20R1245 | VI**-20R2445 | VI**-20R3645 |
| 609.6 (24) | VI**-24R845 | VI**-24R1245 | VI**-24R2445 | VI**-24R3645 |
| 762.0 (30) | VI**-30R845 | VI**-30R1245 | VI**-30R2445 | VI**-30R3645 |
| 914.4 (36) | VI**-36R845 | VI**-36R1245 | VI**-36R2445 | VI**-36R3645 |

Solo radial • Radial Only

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Incluye 2 conectores y tornillería • Two connectors and hardware included

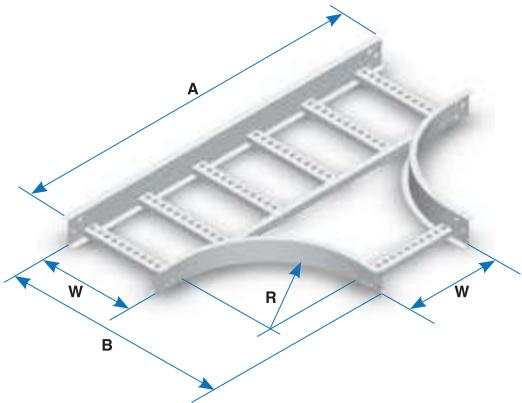
"T" Horizontal • Horizontal tee

THZ-12R8-1 A

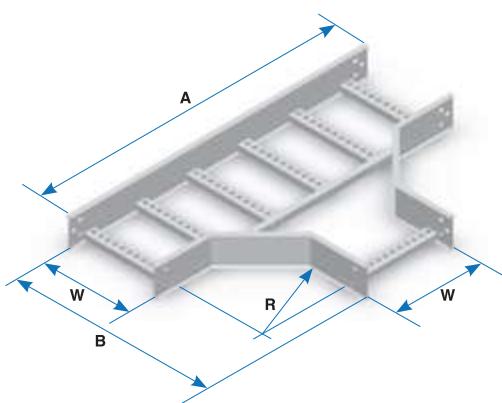
Material y acabado (ver pag 58) • *Material & finishes (see page 58)*
 Sufijo p/peralte (ver pag 58) • *Rail height suffix (see page 58)*
 Radio • *Radius*
 Ancho • *Width*
 Perfil tipo (ver pag 58) • *Rail type (see page 58)*
 "T" Horizontal • *Horizontal "T"*

Para curvas estructurales agregar la letra "E" después del código.

Diseño radial para perfil "Z" y "C"
Radial design for "Z" & "C" rail type



Diseño estructural para perfil "Z", "C" e "I"
Segmented design for "Z", "C" & "I" rail type



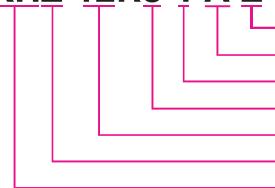
| Ancho W Width W | Radio 203.2 solo radial <i>Radius (8) radial only</i> | | | Radio 304.8 <i>Radius (12)</i> | | |
|--------------------|--|--------------|--------------|--|--------------|--------------|
| | No. de catálogo <i>Catalog number</i> | A | B | No. de catálogo <i>Catalog number</i> | A | B |
| 101.6 (4) | TH**-04R8 | 731 (28.78) | 416 (16.39) | TH**-04R12 | 864 (34) | 518 (20.39) |
| 152.4 (6) | TH**-06R8 | 782 (30.78) | 467 (18.39) | TH**-06R12 | 914 (36) | 569 (22.39) |
| 228.9 (9) | TH**-09R8 | 585 (23.03) | 543 (21.39) | TH**-09R12 | 991 (39) | 645 (25.39) |
| 304.8 (12) | TH**-12R8 | 934 (36.78) | 619 (24.39) | TH**-12R12 | 1137 (44.78) | 721 (28.39) |
| 406.4 (16) | TH**-16R8 | 1036 (40.78) | 721 (28.39) | TH**-16R12 | 1239 (48.78) | 823 (32.39) |
| 457.2 (18) | TH**-18R8 | 1086 (42.78) | 772 (30.39) | TH**-18R12 | 1290 (50.78) | 873 (34.39) |
| 508.0 (20) | TH**-20R8 | 1137 (44.78) | 823 (32.39) | TH**-20R12 | 1341 (52.78) | 924 (36.39) |
| 609.6 (24) | TH**-24R8 | 1239 (48.78) | 924 (36.39) | TH**-24R12 | 1442 (56.78) | 1026 (40.39) |
| 762.0 (30) | TH**-30R8 | 1391 (54.78) | 1077 (42.39) | TH**-30R12 | 1595 (62.78) | 1178 (46.39) |
| 914.4 (36) | TH**-36R8 | 1543 (60.78) | 1229 (48.39) | TH**-36R12 | 1747 (68.78) | 1331 (52.39) |

| Ancho W Width W | Radio 609.6 <i>Radius (24)</i> | | | Radio 914.4 <i>Radius (36)</i> | | |
|--------------------|--|--------------|--------------|--|---------------|--------------|
| | No. de catálogo <i>Catalog number</i> | A | B | No. de catálogo <i>Catalog number</i> | A | B |
| 101.6 (4) | TH**-04R24 | 1544 (60.78) | 823 (32.39) | TH**-04R36 | 2153 (84.78) | 1127 (44.39) |
| 152.4 (6) | TH**-06R24 | 1595 (62.78) | 873 (34.39) | TH**-06R36 | 2204 (86.78) | 1178 (46.39) |
| 228.9 (9) | TH**-09R24 | 1671 (65.78) | 950 (37.39) | TH**-09R36 | 2280 (89.78) | 1254 (49.39) |
| 304.8 (12) | TH**-12R24 | 1747 (68.78) | 1030 (40.39) | TH**-12R36 | 2357 (92.78) | 1331 (52.39) |
| 406.4 (16) | TH**-16R24 | 1849 (72.78) | 1127 (44.39) | TH**-16R36 | 2458 (96.78) | 1432 (56.39) |
| 457.2 (18) | TH**-18R24 | 1899 (74.78) | 1178 (46.39) | TH**-18R36 | 2509 (98.78) | 1483 (58.39) |
| 508.0 (20) | TH**-20R24 | 1950 (76.78) | 1229 (48.39) | TH**-20R36 | 2560 (100.78) | 1534 (60.39) |
| 609.6 (24) | TH**-24R24 | 2052 (80.78) | 1331 (52.39) | TH**-24R36 | 2661 (104.78) | 1635 (64.39) |
| 762.0 (30) | TH**-30R24 | 2204 (86.78) | 1483 (58.39) | TH**-30R36 | 2814 (110.78) | 1788 (70.39) |
| 914.4 (36) | TH**-36R24 | 2357 (92.78) | 1635 (64.39) | TH**-36R36 | 2966 (116.78) | 1940 (76.39) |

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)
 Incluye 2 conectores y tornillería • Two connectors and hardware included

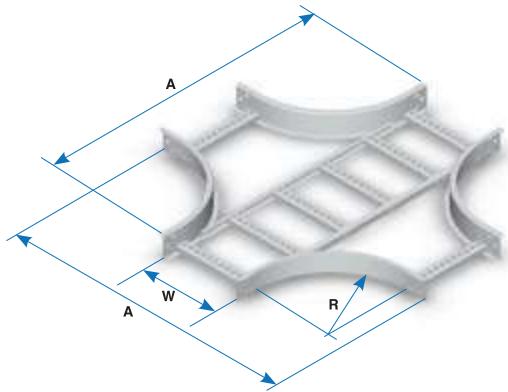
"X" Horizontal • Horizontal cross

XHZ-12R8-1 A E

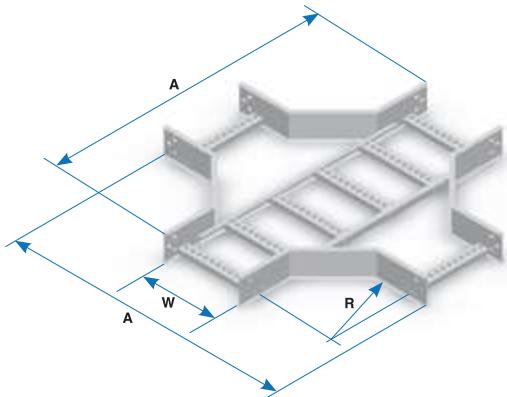


E = estructural, radial omitir • *E = segmented, avoid if radial*
 Material y acabado (ver pag 58) • *Material & finishes (see page 58)*
 Sufijo p/peralte (ver pag 58) • *Rail height suffix (see page 58)*
 Radio • *Radius*
 Ancho • *Width*
 Perfil tipo (ver pag 58) • *Rail type (see page 58)*
 "X" horizontal • *Horizontal cross*

Diseño radial para perfil "Z" y "C"
Radial design for "Z" & "C" rail type



Diseño estructural para perfil "Z", "C" e "I"
Segmented design for "Z", "C" & "I" rail type



| Ancho W Width W | Radio 203.2 solo radial <i>Radius (8) radial only</i> | | Radio 304.8 <i>Radius (12)</i> | |
|--------------------|--|--------------|--|--------------|
| | No. de catálogo <i>Catalog number</i> | A | No. de catálogo <i>Catalog number</i> | A |
| 101.6 (4) | XH**-04R8 | 731 (28.78) | XH**-04R12 | 864 (34) |
| 152.4 (6) | XH**-06R8 | 782 (30.78) | XH**-06R12 | 914 (36) |
| 228.9 (9) | XH**-09R8 | 585 (23.03) | XH**-09R12 | 991 (39) |
| 304.8 (12) | XH**-12R8 | 934 (36.78) | XH**-12R12 | 1137 (44.78) |
| 406.4 (16) | XH**-16R8 | 1036 (40.78) | XH**-16R12 | 1239 (48.78) |
| 457.2 (18) | XH**-18R8 | 1086 (42.78) | XH**-18R12 | 1290 (50.78) |
| 508.0 (20) | XH**-20R8 | 1137 (44.78) | XH**-20R12 | 1341 (52.78) |
| 609.6 (24) | XH**-24R8 | 1239 (48.78) | XH**-24R12 | 1442 (56.78) |
| 762.0 (30) | XH**-30R8 | 1391 (54.78) | XH**-30R12 | 1595 (62.78) |
| 914.4 (36) | XH**-36R8 | 1543 (60.78) | XH**-36R12 | 1747 (68.78) |

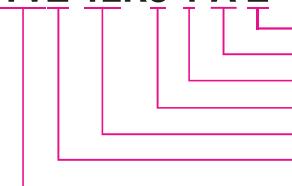
| Ancho W Width W | Radio 609,6 <i>Radius (24)</i> | | Radio 914,4 <i>Radius (36)</i> | |
|--------------------|--|--------------|--|---------------|
| | No. de catálogo <i>Catalog number</i> | A | No. de catálogo <i>Catalog number</i> | A |
| 101.6 (4) | XH**-04R24 | 1544 (60.78) | XH**-04R36 | 2153 (84.78) |
| 152.4 (6) | XH**-06R24 | 1595 (62.78) | XH**-06R36 | 2204 (86.78) |
| 228.9 (9) | XH**-09R24 | 1671 (65.78) | XH**-09R36 | 2280 (89.78) |
| 304.8 (12) | XH**-12R24 | 1747 (68.78) | XH**-12R36 | 2357 (92.78) |
| 406.4 (16) | XH**-16R24 | 1849 (72.78) | XH**-16R36 | 2458 (96.78) |
| 457.2 (18) | XH**-18R24 | 1899 (74.78) | XH**-18R36 | 2509 (98.78) |
| 508.0 (20) | XH**-20R24 | 1950 (76.78) | XH**-20R36 | 2560 (100.78) |
| 609.6 (24) | XH**-24R24 | 2052 (80.78) | XH**-24R36 | 2661 (104.78) |
| 762.0 (30) | XH**-30R24 | 2204 (86.78) | XH**-30R36 | 2814 (110.78) |
| 914.4 (36) | XH**-36R24 | 2357 (92.78) | XH**-36R36 | 2966 (116.78) |

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Incluye 2 conectores y tornillería • Two connectors and hardware included

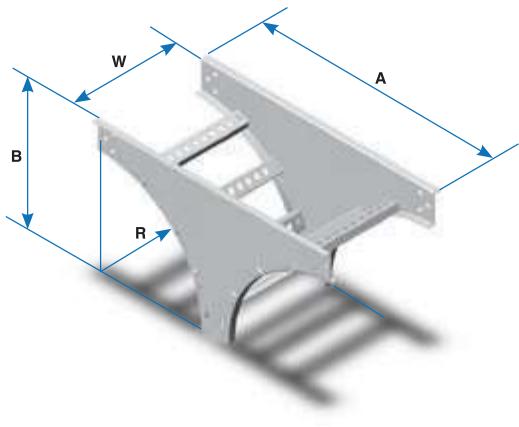
"T" Vertical • Vertical tee

TVZ-12R8-1 A E

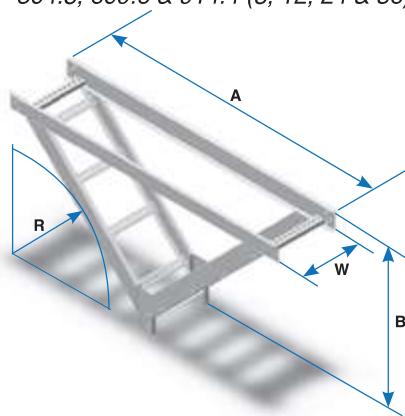


E = estructural, radial omitir • E = segmented, avoid if radial
 Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 58) • Rail height suffix (see page 58)
 Radio • Radius
 Ancho • Width
 Perfil tipo (ver pag 58) • Rail type (see page 58)
 "T" Vertical • Vertical "T"

Diseño radial para perfil "Z",
 radios 203.2 y 304.8 (8 y 12)
*Radial design for "Z" rail type,
 radius 203.2 & 304.8 (8 & 12)*



Diseño estructural para perfil "Z" y "C" radios 609.6 y 914.4 (24 y 36); perfil "I" radios 203.2, 304.8, 609.6 y 914.4 (8, 12, 24 y 36)
Segmented design for "Z" & "C" rail type radius 609.6 & 914.4 (24 & 36); "I" rail type radius 203.2, 304.8, 609.6 & 914.4 (8, 12, 24 & 36)



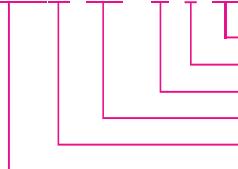
| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|------------|------------|------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | TV**-04R8 | TV**-04R12 | TV**-04R24 | TV**-04R36 |
| 152.4 (6) | TV**-06R8 | TV**-06R12 | TV**-06R24 | TV**-06R36 |
| 228.9 (9) | TV**-09R8 | TV**-09R12 | TV**-09R24 | TV**-09R36 |
| 304.8 (12) | TV**-12R8 | TV**-12R12 | TV**-12R24 | TV**-12R36 |
| 406.4 (16) | TV**-16R8 | TV**-16R12 | TV**-16R24 | TV**-16R36 |
| 457.2 (18) | TV**-18R8 | TV**-18R12 | TV**-18R24 | TV**-18R36 |
| 508.0 (20) | TV**-20R8 | TV**-20R12 | TV**-20R24 | TV**-20R36 |
| 609.6 (24) | TV**-24R8 | TV**-24R12 | TV**-24R24 | TV**-24R36 |
| 762.0 (30) | TV**-30R8 | TV**-30R12 | TV**-30R24 | TV**-30R36 |
| 914.4 (36) | TV**-36R8 | TV**-36R12 | TV**-36R24 | TV**-36R36 |

| Sufijo p/peralte Rail height suffix | Radio Radius | | | | | | | |
|--|-----------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|
| | 203.2 (8) | | 304.8 (12) | | 609.6 (24) | | 914.4 (36) | |
| | A | B | A | B | A | B | A | B |
| 1 | 489 (19.25) | 286 (11.25) | 692 (27.25) | 387 (15.25) | 1302 (51.25) | 692 (27.25) | 1911 (75.25) | 997 (39.25) |
| 2 | 508 (20) | 305 (12) | 711 (28) | 406 (16) | 1321 (52) | 711 (28) | 1930 (76) | 1016 (40) |
| 3 | 521 (20.5) | 318 (12.5) | 724 (28.5) | 419 (16.5) | 1334 (52.5) | 724 (28.5) | 1943 (76.5) | 1029 (40.5) |
| 5 | 533 (21) | 330 (13) | 737 (29) | 432 (17) | 1346 (53) | 737 (29) | 1956 (77) | 1041 (41) |
| 6 | 559 (22) | 356 (14) | 762 (30) | 457 (18) | 1372 (54) | 762 (30) | 1981 (78) | 1067 (42) |

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)
 Incluye 2 conectores y tornillería • Two connectors and hardware included

Curva vertical para soporte • Vertical support elbow

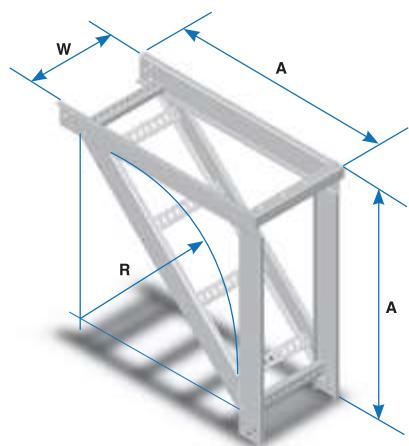
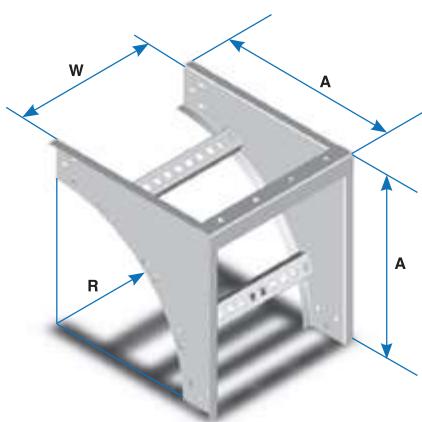
CVGZ-12R8-1 A



Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 58) • Rail height suffix (see page 58)
 Radio • Radius
 Ancho • Width
 Perfil tipo (ver pag 58) • Rail type (see page 58)
 Curva vertical para soporte • Vertical support elbow

Diseño radial para perfil "Z" y "C",
 radios 203.2 y 304.8 (8 y 12)
*Radial design for rail type Z y C,
 radius 203.2 & 304.8 (8 & 12)*

Diseño estructural para perfil "Z" y "C" radios 609.6 y
 914.4 (24 y 36); perfil "I" radios 203.2, 304.8, 609.6 y
 914.4 (8, 12, 24 y 36)
Segmented design for "Z" & "C" rail type radius 609.6 & 914.4 (24 & 36); "I" rail type radius 203.2, 304.8, 609.6 & 914.4 (8, 12, 24 & 36)



| Ancho W Width W | Radio Radius | | | | No. ganchos No. of hooks |
|--------------------|-----------------|-------------|-------------|-------------|-----------------------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) | |
| 101.6 (4) | CVG**-04R8 | CVG**-04R12 | CVG**-04R24 | CVG**-04R36 | 2 |
| 152.4 (6) | CVG**-06R8 | CVG**-06R12 | CVG**-06R24 | CVG**-06R36 | |
| 228.9 (9) | CVG**-09R8 | CVG**-09R12 | CVG**-09R24 | CVG**-09R36 | 4 |
| 304.8 (12) | CVG**-12R8 | CVG**-12R12 | CVG**-12R24 | CVG**-12R36 | |
| 406.4 (16) | CVG**-16R8 | CVG**-16R12 | CVG**-16R24 | CVG**-16R36 | 6 |
| 457.2 (18) | CVG**-18R8 | CVG**-18R12 | CVG**-18R24 | CVG**-18R36 | |
| 508.0 (20) | CVG**-20R8 | CVG**-20R12 | CVG**-20R24 | CVG**-20R36 | 8 |
| 609.6 (24) | CVG**-24R8 | CVG**-24R12 | CVG**-24R24 | CVG**-24R36 | |
| 762.0 (30) | CVG**-30R8 | CVG**-30R12 | CVG**-30R24 | CVG**-30R36 | |
| 914.4 (36) | CVG**-36R8 | CVG**-36R12 | CVG**-36R24 | CVG**-36R36 | 12 |

Dimensión "A" • "A" Dimension

| Sufijo p/peralte Rail height suffix | Radio Radius | | | |
|--|-----------------|------------|------------|------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| | A | A | A | A |
| 1 | 286 | 388 | 693 | 997 |
| 2 | 305 | 407 | 712 | 1016 |
| 3 | 317 | 419 | 724 | 1028 |
| 5 | 330 | 432 | 737 | 1041 |
| 6 | 355 | 457 | 762 | 1066 |

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)
 Incluye 2 conectores y tornillería • Two connectors and hardware included

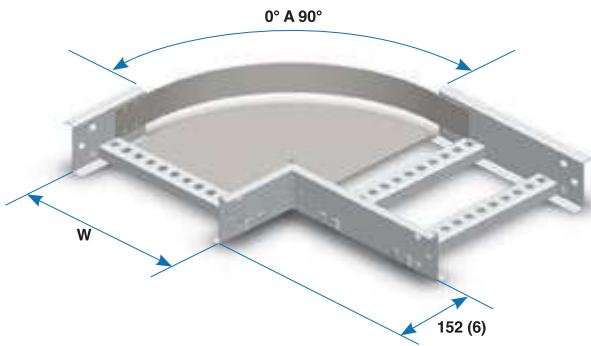
Curva horizontal ajustable • Horizontal adjustable bend

CAZ-12-1 A



Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 58) • Rail height suffix (see page 58)
 Ancho • Width
 Perfil tipo (ver pag 58) • Rail type (see page 58)
 Curva horizontal ajustable • Horizontal adjustable bend

| Ancho W Width W | No. de catálogo Catalog number |
|--------------------|-----------------------------------|
| 101.6 (4) | CA*-04 |
| 152.4 (6) | CA*-06 |
| 228.9 (9) | CA*-09 |
| 304.8 (12) | CA*-12 |
| 406.4 (16) | CA*-16 |
| 457.2 (18) | CA*-18 |
| 508.0 (20) | CA*-20 |
| 609.6 (24) | CA*-24 |
| 762.0 (30) | CA*-30 |
| 914.4 (36) | CA*-36 |



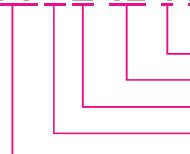
Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

No incluye cintas conductoras • Bonding jumpers not included

Incluye 2 conectores y tornillería • Two connectors and hardware included

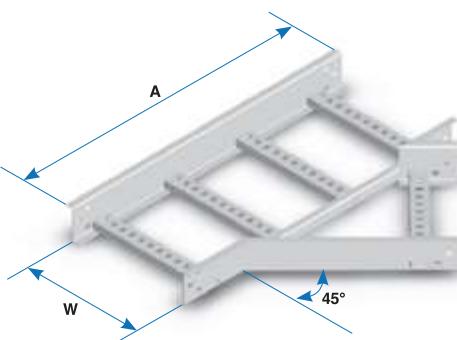
Derivación horizontal a 45° • 45° Horizontal wye branch

DY * Z-12-1 A



Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 58) • Rail height suffix (see page 58)
 Ancho • Width
 Perfil tipo (ver pag 58) • Rail type (see page 58)
 Colocar "D" para derecha o "I" izquierda • Add "D" for right or "I" for left
 Derivación horizontal a 45° • 45° horizontal wye branch

| Ancho W Width W | No. de catálogo Catalog number | A |
|--------------------|-----------------------------------|-------------|
| 101.6 (4) | DY*-04 | 463 (18.2) |
| 152.4 (6) | DY*-06 | 534 (21) |
| 228.9 (9) | DY*-09 | 642 (25.3) |
| 304.8 (12) | DY*-12 | 750 (29.5) |
| 406.4 (16) | DY*-16 | 894 (35.2) |
| 457.2 (18) | DY*-18 | 966 (38) |
| 508.0 (20) | DY*-20 | 1037 (40.8) |
| 609.6 (24) | DY*-24 | 1181 (46.5) |
| 762.0 (30) | DY*-30 | 1396 (55) |
| 914.4 (36) | DY*-36 | 1612 (63.5) |



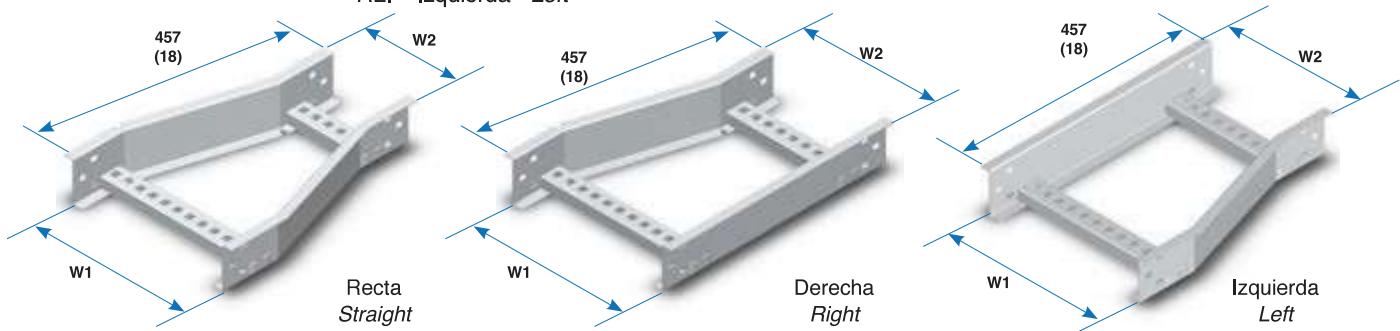
Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Incluye 2 conectores y tornillería • Two connectors and hardware included

Reducciones • Reducers

RL Z-1209-1 A


 Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 58) • Rail height suffix (see page 58)
 Ancho menor • Smaller width
 Ancho mayor • Larger width
 Perfil tipo (ver pag 58) • Rail type (see page 58)
 Reducción • Reducer
 RL = Recta • Straight
 RLD = Derecha • Right
 RLI = Izquierda • Left



Nº de catálogo reducciones rectas • Straight reducer catalog number

| Ancho W1 Width W1 | Ancho menor W2 Smaller width W2 | | | | | | | | |
|----------------------|------------------------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| | 101.6 (4) | 152.4 (6) | 228.9 (9) | 304.8 (12) | 406.4 (16) | 457.2 (18) | 508.0 (20) | 609.6 (24) | 762.0 (30) |
| 152.4 (6) | RL*-0604 | | | | | | | | |
| 228.9 (9) | RL*-0904 | RL*-0906 | | | | | | | |
| 304.8 (12) | RL*-1204 | RL*-1206 | RL*-1209 | | | | | | |
| 406.4 (16) | RL*-1604 | RL*-1606 | RL*-1609 | RL*-1612 | | | | | |
| 457.2 (18) | RL*-1804 | RL*-1806 | RL*-1809 | RL*-1812 | RL*-1816 | | | | |
| 508.0 (20) | RL*-2004 | RL*-2006 | RL*-2009 | RL*-2012 | RL*-2016 | RL*-2018 | | | |
| 609.6 (24) | RL*-2404 | RL*-2406 | RL*-2409 | RL*-2412 | RL*-2416 | RL*-2418 | RL*-2420 | | |
| 762.0 (30) | RL*-3004 | RL*-3006 | RL*-3009 | RL*-3012 | RL*-3016 | RL*-3018 | RL*-3020 | RL*-3024 | |
| 914.4 (36) | RL*-3604 | RL*-3606 | RL*-3609 | RL*-3612 | RL*-3616 | RL*-3618 | RL*-3620 | RL*-3624 | RL*-3630 |

Nº de catálogo reducciones derechas • Right reducer catalog number

| Ancho W1 Width W1 | Ancho menor W2 Smaller width W2 | | | | | | | | |
|----------------------|------------------------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| | 101.6 (4) | 152.4 (6) | 228.9 (9) | 304.8 (12) | 406.4 (16) | 457.2 (18) | 508.0 (20) | 609.6 (24) | 762.0 (30) |
| 152.4 (6) | RLD*-0604 | | | | | | | | |
| 228.9 (9) | RLD*-0904 | RLD*-0906 | | | | | | | |
| 304.8 (12) | RLD*-1204 | RLD*-1206 | RLD*-1209 | | | | | | |
| 406.4 (16) | RLD*-1604 | RLD*-1606 | RLD*-1609 | RLD*-1612 | | | | | |
| 457.2 (18) | RLD*-1804 | RLD*-1806 | RLD*-1809 | RLD*-1812 | RLD*-1816 | | | | |
| 508.0 (20) | RLD*-2004 | RLD*-2006 | RLD*-2009 | RLD*-2012 | RLD*-2016 | RLD*-2018 | | | |
| 609.6 (24) | RLD*-2404 | RLD*-2406 | RLD*-2409 | RLD*-2412 | RLD*-2416 | RLD*-2418 | RLD*-2420 | | |
| 762.0 (30) | RLD*-3004 | RLD*-3006 | RLD*-3009 | RLD*-3012 | RLD*-3016 | RLD*-3018 | RLD*-3020 | RLD*-3024 | |
| 914.4 (36) | RLD*-3604 | RLD*-3606 | RLD*-3609 | RLD*-3612 | RLD*-3616 | RLD*-3618 | RLD*-3620 | RLD*-3624 | RLD*-3630 |

Nº de catálogo reducciones izquierdas • Left reducer catalog number

| Ancho W1 Width W1 | Ancho menor W2 Smaller width W2 | | | | | | | | |
|----------------------|------------------------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| | 101.6 (4) | 152.4 (6) | 228.9 (9) | 304.8 (12) | 406.4 (16) | 457.2 (18) | 508.0 (20) | 609.6 (24) | 762.0 (30) |
| 152.4 (6) | RLI*-0604 | | | | | | | | |
| 228.9 (9) | RLI*-0904 | RLI*-0906 | | | | | | | |
| 304.8 (12) | RLI*-1204 | RLI*-1206 | RLI*-1209 | | | | | | |
| 406.4 (16) | RLI*-1604 | RLI*-1606 | RLI*-1609 | RLI*-1612 | | | | | |
| 457.2 (18) | RLI*-1804 | RLI*-1806 | RLI*-1809 | RLI*-1812 | RLI*-1816 | | | | |
| 508.0 (20) | RLI*-2004 | RLI*-2006 | RLI*-2009 | RLI*-2012 | RLI*-2016 | RLI*-2018 | | | |
| 609.6 (24) | RLI*-2404 | RLI*-2406 | RLI*-2409 | RLI*-2412 | RLI*-2416 | RLI*-2418 | RLI*-2420 | | |
| 762.0 (30) | RLI*-3004 | RLI*-3006 | RLI*-3009 | RLI*-3012 | RLI*-3016 | RLI*-3018 | RLI*-3020 | RLI*-3024 | |
| 914.4 (36) | RLI*-3604 | RLI*-3606 | RLI*-3609 | RLI*-3612 | RLI*-3616 | RLI*-3618 | RLI*-3620 | RLI*-3624 | RLI*-3630 |

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Incluye 2 conectores y tornillería • Two connectors and hardware included

Sección 4.2

Soportes para cables tipo fondo sólido y fondo ventilado

Section 4.2

Solid and ventilated trough type cable tray system

Secciones tipo "Z" • Form "Z" sections

Sección típica para tramo recto
Straight typical section



Sección típica para accesorios
Fitting typical section



Secciones tipo "C" • Form "C" sections

Sección típica para tramo recto
Straight typical section



Sección típica para accesorios
Fitting typical section



| Sufijo para peralte | Peralte Nominal mm (pulg.) | Peralte Útil mm (pulg.) |
|---------------------|----------------------------|-------------------------|
| 0 | 50.8 (2") | 50.8 (2") |
| 1 | 82.5 (3 1/4") | 82.5 (3 1/4") |
| 2 | 101.6 (4") | 101.6 (4") |
| 3 | 114.3 (4 1/2") | 114.3 (4 1/2") |
| 5 | 127.0 (5") | 127.0 (5") |
| 6 | 152.4 (6") | 152.4 (6") |

Tramo recto • Straight section

CHZP-12-1 A



Material y acabado • Material & finishes

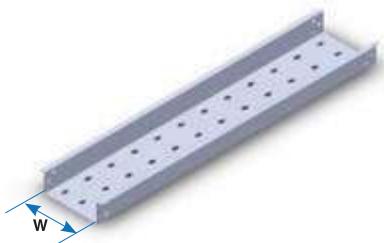
Sufijo p/peralte • Rail height suffix

Ancho • Width

Tipo de fondo • Trough type

Tramo recto • Straight section

| Ancho W Width W | Perfil tipo Z Form Z | | Perfil tipo C C Form | |
|--------------------|-------------------------|-------------------------|-------------------------|-------------------------|
| | Liso Solid | Ventilado Ventilated | Liso Solid | Ventilado Ventilated |
| 101.6 (4) | CHZL-04 | CHZP-04 | CHCL-04 | CHCP-04 |
| 152.4 (6) | CHZL-06 | CHZP-06 | CHCL-06 | CHCP-06 |
| 228.9 (9) | CHZL-09 | CHZP-09 | CHCL-09 | CHCP-09 |
| 304.8 (12) | CHZL-12 | CHZP-12 | CHCL-12 | CHCP-12 |
| 406.4 (16) | CHZL-16 | CHZP-16 | CHCL-16 | CHCP-16 |
| 457.2 (18) | CHZL-18 | CHZP-18 | CHCL-18 | CHCP-18 |
| 508.0 (20) | CHZL-20 | CHZP-20 | CHCL-20 | CHCP-20 |
| 609.6 (24) | CHZL-24 | CHZP-24 | CHCL-24 | CHCP-24 |
| 762.0 (30) | CHZL-30 | CHZP-30 | CHCL-30 | CHCP-30 |
| 914.4 (36) | CHZL-36 | CHZP-36 | CHCL-36 | CHCP-36 |



Longitud estándar 3.05 m (10 ft).
Para longitudes diferentes consulte nuestro departamento de ingeniería.

Standard lenght 3.05 m (10 ft).
For other lenghts refer to our technical department.

Incluye 2 conectores y tornillería • Two connectors and hardware included

Materiales y acabados:

A: Aluminio aleación AA 3003 acabado natural

GI: Acero al carbón galvanizado por inmersión/ Lámina galvanizada

GE: Acero al carbón Galvanizado electrolítico

T: Acero al carbón Tropicalizado

AI: Acero inoxidable

Para materiales y acabados no indicados consulte nuestro departamento de ingeniería.

Todas las dimensiones en mm (pulg)

Materials & finishes:

A: AA-3003 natural finished aluminum

GI: Hot dip galvanized steel/ Galvanized sheet

GE: Electro galvanized steel

T: Chromium-zinc coated steel

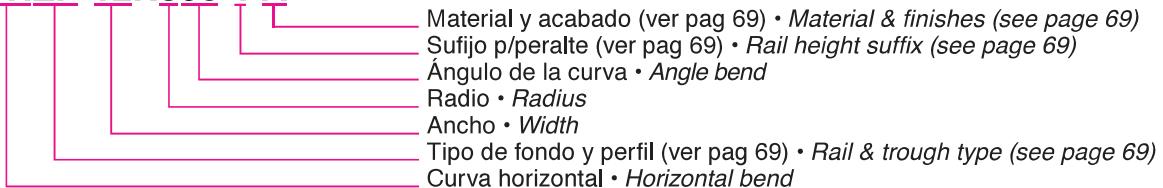
AI: Stainless steel

For materials and finishes not shown please consult our technical department.

All dimensions are in mm (in)

Curva horizontal a 45° y 90° • 45° & 90° Horizontal bend

VHZP-12R890-1 A



Números de catálogo para curva a 90° • 90° Bend's Catalog number

| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|--------------|--------------|--------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | VH**-04R890 | VH**-04R1290 | VH**-04R2490 | VH**-04R3690 |
| 152.4 (6) | VH**-06R890 | VH**-06R1290 | VH**-06R2490 | VH**-06R3690 |
| 228.9 (9) | VH**-09R890 | VH**-09R1290 | VH**-09R2490 | VH**-09R3690 |
| 304.8 (12) | VH**-12R890 | VH**-12R1290 | VH**-12R2490 | VH**-12R3690 |
| 406.4 (16) | VH**-16R890 | VH**-16R1290 | VH**-16R2490 | VH**-16R3690 |
| 457.2 (18) | VH**-18R890 | VH**-18R1290 | VH**-18R2490 | VH**-18R3690 |
| 508.0 (20) | VH**-20R890 | VH**-20R1290 | VH**-20R2490 | VH**-20R3690 |
| 609.6 (24) | VH**-24R890 | VH**-24R1290 | VH**-24R2490 | VH**-24R3690 |
| 762.0 (30) | VH**-30R890 | VH**-30R1290 | VH**-30R2490 | VH**-30R3690 |
| 914.4 (36) | VH**-36R890 | VH**-36R1290 | VH**-36R2490 | VH**-36R3690 |

Números de catálogo para curva a 45° • 45° Bend's Catalog number

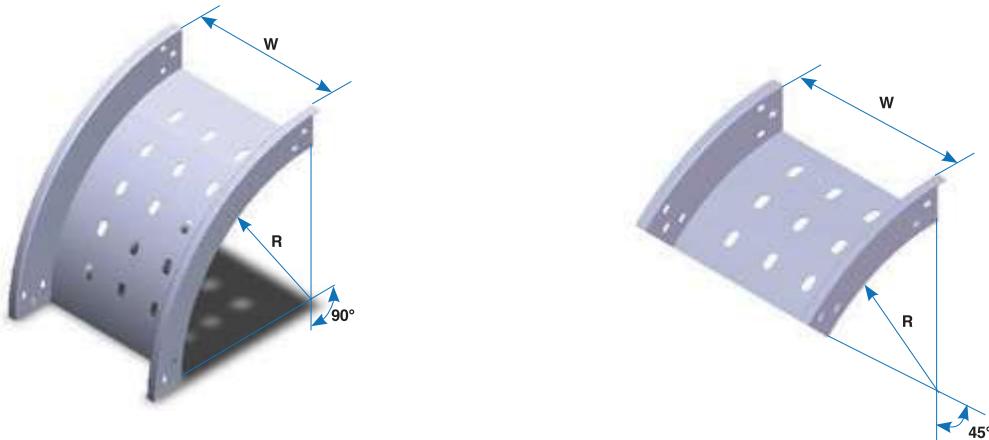
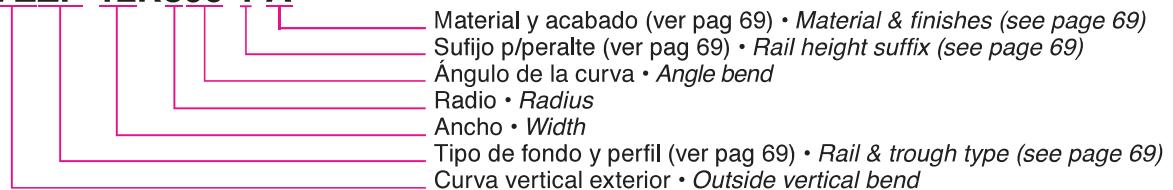
| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|--------------|--------------|--------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | VH**-04R845 | VH**-04R1245 | VH**-04R2445 | VH**-04R3645 |
| 152.4 (6) | VH**-06R845 | VH**-06R1245 | VH**-06R2445 | VH**-06R3645 |
| 228.9 (9) | VH**-09R845 | VH**-09R1245 | VH**-09R2445 | VH**-09R3645 |
| 304.8 (12) | VH**-12R845 | VH**-12R1245 | VH**-12R2445 | VH**-12R3645 |
| 406.4 (16) | VH**-16R845 | VH**-16R1245 | VH**-16R2445 | VH**-16R3645 |
| 457.2 (18) | VH**-18R845 | VH**-18R1245 | VH**-18R2445 | VH**-18R3645 |
| 508.0 (20) | VH**-20R845 | VH**-20R1245 | VH**-20R2445 | VH**-20R3645 |
| 609.6 (24) | VH**-24R845 | VH**-24R1245 | VH**-24R2445 | VH**-24R3645 |
| 762.0 (30) | VH**-30R845 | VH**-30R1245 | VH**-30R2445 | VH**-30R3645 |
| 914.4 (36) | VH**-36R845 | VH**-36R1245 | VH**-36R2445 | VH**-36R3645 |

Incluye 2 conectores y tornillería • Two connectors and hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Curva vertical exterior a 45° y 90° • 45° & 90° Outside vertical bend

VEZP-12R890-1 A



Números de catálogo para curva a 90° • 90° Bend's Catalog number

| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|--------------|--------------|--------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | VE**-04R890 | VE**-04R1290 | VE**-04R2490 | VE**-04R3690 |
| 152.4 (6) | VE**-06R890 | VE**-06R1290 | VE**-06R2490 | VE**-06R3690 |
| 228.9 (9) | VE**-09R890 | VE**-09R1290 | VE**-09R2490 | VE**-09R3690 |
| 304.8 (12) | VE**-12R890 | VE**-12R1290 | VE**-12R2490 | VE**-12R3690 |
| 406.4 (16) | VE**-16R890 | VE**-16R1290 | VE**-16R2490 | VE**-16R3690 |
| 457.2 (18) | VE**-18R890 | VE**-18R1290 | VE**-18R2490 | VE**-18R3690 |
| 508.0 (20) | VE**-20R890 | VE**-20R1290 | VE**-20R2490 | VE**-20R3690 |
| 609.6 (24) | VE**-24R890 | VE**-24R1290 | VE**-24R2490 | VE**-24R3690 |
| 762.0 (30) | VE**-30R890 | VE**-30R1290 | VE**-30R2490 | VE**-30R3690 |
| 914.4 (36) | VE**-36R890 | VE**-36R1290 | VE**-36R2490 | VE**-36R3690 |

Números de catálogo para curva a 45° • 45° Bend's Catalog number

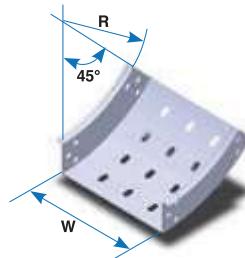
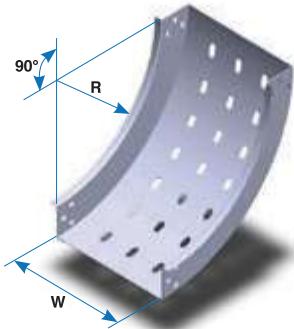
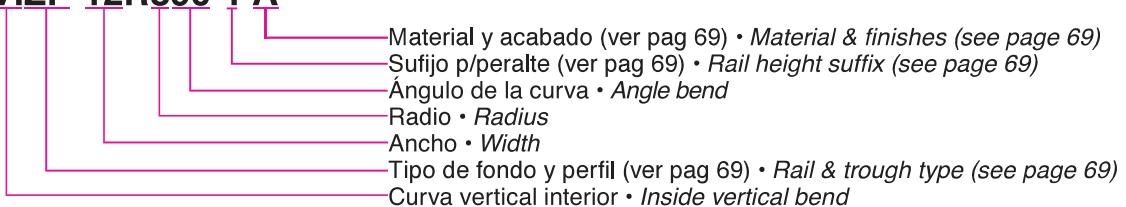
| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|--------------|--------------|--------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | VE**-04R845 | VE**-04R1245 | VE**-04R2445 | VE**-04R3645 |
| 152.4 (6) | VE**-06R845 | VE**-06R1245 | VE**-06R2445 | VE**-06R3645 |
| 228.9 (9) | VE**-09R845 | VE**-09R1245 | VE**-09R2445 | VE**-09R3645 |
| 304.8 (12) | VE**-12R845 | VE**-12R1245 | VE**-12R2445 | VE**-12R3645 |
| 406.4 (16) | VE**-16R845 | VE**-16R1245 | VE**-16R2445 | VE**-16R3645 |
| 457.2 (18) | VE**-18R845 | VE**-18R1245 | VE**-18R2445 | VE**-18R3645 |
| 508.0 (20) | VE**-20R845 | VE**-20R1245 | VE**-20R2445 | VE**-20R3645 |
| 609.6 (24) | VE**-24R845 | VE**-24R1245 | VE**-24R2445 | VE**-24R3645 |
| 762.0 (30) | VE**-30R845 | VE**-30R1245 | VE**-30R2445 | VE**-30R3645 |
| 914.4 (36) | VE**-36R845 | VE**-36R1245 | VE**-36R2445 | VE**-36R3645 |

Incluye 2 conectores y tornillería • Two connectors and hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Curva vertical interior a 45° y 90° • 45° & 90° Inside vertical bend

VIZP-12R890-1 A



Números de catálogo para curva a 90° • 90° Bend's Catalog number

| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|--------------|--------------|--------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | VI**-04R890 | VI**-04R1290 | VI**-04R2490 | VI**-04R3690 |
| 152.4 (6) | VI**-06R890 | VI**-06R1290 | VI**-06R2490 | VI**-06R3690 |
| 228.9 (9) | VI**-09R890 | VI**-09R1290 | VI**-09R2490 | VI**-09R3690 |
| 304.8 (12) | VI**-12R890 | VI**-12R1290 | VI**-12R2490 | VI**-12R3690 |
| 406.4 (16) | VI**-16R890 | VI**-16R1290 | VI**-16R2490 | VI**-16R3690 |
| 457.2 (18) | VI**-18R890 | VI**-18R1290 | VI**-18R2490 | VI**-18R3690 |
| 508.0 (20) | VI**-20R890 | VI**-20R1290 | VI**-20R2490 | VI**-20R3690 |
| 609.6 (24) | VI**-24R890 | VI**-24R1290 | VI**-24R2490 | VI**-24R3690 |
| 762.0 (30) | VI**-30R890 | VI**-30R1290 | VI**-30R2490 | VI**-30R3690 |
| 914.4 (36) | VI**-36R890 | VI**-36R1290 | VI**-36R2490 | VI**-36R3690 |

Números de catálogo para curva a 45° • 45° Bend's Catalog number

| Ancho W Width W | Radio Radius | | | |
|--------------------|-----------------|--------------|--------------|--------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | VI**-04R845 | VI**-04R1245 | VI**-04R2445 | VI**-04R3645 |
| 152.4 (6) | VI**-06R845 | VI**-06R1245 | VI**-06R2445 | VI**-06R3645 |
| 228.9 (9) | VI**-09R845 | VI**-09R1245 | VI**-09R2445 | VI**-09R3645 |
| 304.8 (12) | VI**-12R845 | VI**-12R1245 | VI**-12R2445 | VI**-12R3645 |
| 406.4 (16) | VI**-16R845 | VI**-16R1245 | VI**-16R2445 | VI**-16R3645 |
| 457.2 (18) | VI**-18R845 | VI**-18R1245 | VI**-18R2445 | VI**-18R3645 |
| 508.0 (20) | VI**-20R845 | VI**-20R1245 | VI**-20R2445 | VI**-20R3645 |
| 609.6 (24) | VI**-24R845 | VI**-24R1245 | VI**-24R2445 | VI**-24R3645 |
| 762.0 (30) | VI**-30R845 | VI**-30R1245 | VI**-30R2445 | VI**-30R3645 |
| 914.4 (36) | VI**-36R845 | VI**-36R1245 | VI**-36R2445 | VI**-36R3645 |

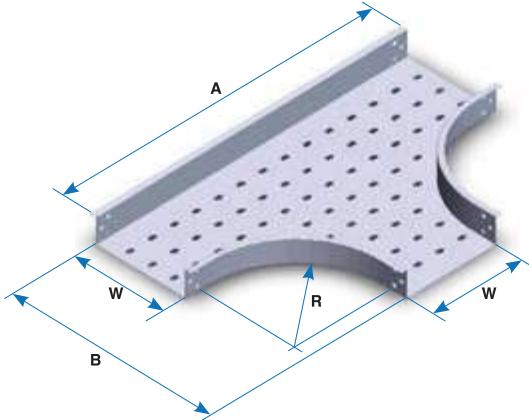
Incluye 2 conectores y tornillería • Two connectors and hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

"T" Horizontal • Horizontal tee

THZL-12R8-1 A

Material y acabado (ver pag 69) • Material & finishes (see page 69)
 Sufijo p/peralte (ver pag 69) • Rail height suffix (see page 69)
 Radio • Radius
 Ancho • Width
 Tipo de fondo y perfil (ver pag 69) • Rail & trough type (see page 69)
 "T" horizontal • Horizontal "T"



| Ancho W Width W | Radio 203.2 Solo radial Radius (8) Radial only | | | Radio 304.8 Radius (12) | | |
|--------------------|---|--------------|--------------|-----------------------------------|--------------|--------------|
| | No. de catálogo Catalog number | A | B | No. de catálogo Catalog number | A | B |
| 101.6 (4) | TH**-04R8 | 731 (28.78) | 416 (16.39) | TH**-04R12 | 864 (34) | 518 (20.39) |
| 152.4 (6) | TH**-06R8 | 782 (30.78) | 467 (18.39) | TH**-06R12 | 914 (36) | 569 (22.39) |
| 228.9 (9) | TH**-09R8 | 585 (23.03) | 543 (21.39) | TH**-09R12 | 991 (39) | 645 (25.39) |
| 304.8 (12) | TH**-12R8 | 934 (36.78) | 619 (24.39) | TH**-12R12 | 1137 (44.78) | 721 (28.39) |
| 406.4 (16) | TH**-16R8 | 1036 (40.78) | 721 (28.39) | TH**-16R12 | 1239 (48.78) | 823 (32.39) |
| 457.2 (18) | TH**-18R8 | 1086 (42.78) | 772 (30.39) | TH**-18R12 | 1290 (50.78) | 873 (34.39) |
| 508.0 (20) | TH**-20R8 | 1137 (44.78) | 823 (32.39) | TH**-20R12 | 1341 (52.78) | 924 (36.39) |
| 609.6 (24) | TH**-24R8 | 1239 (48.78) | 924 (36.39) | TH**-24R12 | 1442 (56.78) | 1026 (40.39) |
| 762.0 (30) | TH**-30R8 | 1391 (54.78) | 1077 (42.39) | TH**-30R12 | 1595 (62.78) | 1178 (46.39) |
| 914.4 (36) | TH**-36R8 | 1543 (60.78) | 1229 (48.39) | TH**-36R12 | 1747 (68.78) | 1331 (52.39) |

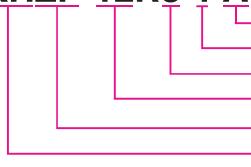
| Ancho W Width W | Radio 609.6 Radius (24) | | | Radio 914.4 Radius (36) | | |
|--------------------|-----------------------------------|--------------|--------------|-----------------------------------|---------------|--------------|
| | No. de catálogo Catalog number | A | B | No. de catálogo Catalog number | A | B |
| 101.6 (4) | TH**-04R24 | 1544 (60.78) | 823 (32.39) | TH**-04R36 | 2153 (84.78) | 1127 (44.39) |
| 152.4 (6) | TH**-06R24 | 1595 (62.78) | 873 (34.39) | TH**-06R36 | 2204 (86.78) | 1178 (46.39) |
| 228.9 (9) | TH**-09R24 | 1671 (65.78) | 950 (37.39) | TH**-09R36 | 2280 (89.78) | 1254 (49.39) |
| 304.8 (12) | TH**-12R24 | 1747 (68.78) | 1030 (40.39) | TH**-12R36 | 2357 (92.78) | 1331 (52.39) |
| 406.4 (16) | TH**-16R24 | 1849 (72.78) | 1127 (44.39) | TH**-16R36 | 2458 (96.78) | 1432 (56.39) |
| 457.2 (18) | TH**-18R24 | 1899 (74.78) | 1178 (46.39) | TH**-18R36 | 2509 (98.78) | 1483 (58.39) |
| 508.0 (20) | TH**-20R24 | 1950 (76.78) | 1229 (48.39) | TH**-20R36 | 2560 (100.78) | 1534 (60.39) |
| 609.6 (24) | TH**-24R24 | 2052 (80.78) | 1331 (52.39) | TH**-24R36 | 2661 (104.78) | 1635 (64.39) |
| 762.0 (30) | TH**-30R24 | 2204 (86.78) | 1483 (58.39) | TH**-30R36 | 2814 (110.78) | 1788 (70.39) |
| 914.4 (36) | TH**-36R24 | 2357 (92.78) | 1635 (64.39) | TH**-36R36 | 2966 (116.78) | 1940 (76.39) |

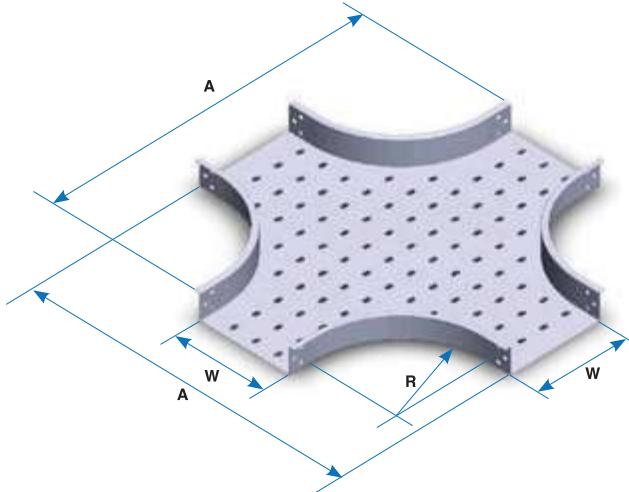
Incluye 2 conectores y tornillería • Two connectors and hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

"X" Horizontal • Horizontal cross

XHZP-12R8-1 A


 Material y acabado (ver pag 69) • *Material & finishes (see page 69)*
 Sufijo p/peralte (ver pag 69) • *Rail height suffix (see page 69)*
 Radio • *Radius*
 Ancho • *Width*
 Tipo de fondo y perfil (ver pag 69) • *Rail & trough type (see page 69)*
 "X" Horizontal • *Horizontal cross*



| Ancho W Width W | Radio 203.2 Solo radial <i>Radius (8) Radial only</i> | | Radio 304.8 <i>Radius (12)</i> | |
|--------------------|--|--------------|--|--------------|
| | No. de catálogo <i>Catalog number</i> | A | No. de catálogo <i>Catalog number</i> | A |
| 101.6 (4) | XH**-04R8 | 731 (28.78) | XH**-04R12 | 864 (34) |
| 152.4 (6) | XH**-06R8 | 782 (30.78) | XH**-06R12 | 914 (36) |
| 228.9 (9) | XH**-09R8 | 585 (23.03) | XH**-09R12 | 991 (39) |
| 304.8 (12) | XH**-12R8 | 934 (36.78) | XH**-12R12 | 1137 (44.78) |
| 406.4 (16) | XH**-16R8 | 1036 (40.78) | XH**-16R12 | 1239 (48.78) |
| 457.2 (18) | XH**-18R8 | 1086 (42.78) | XH**-18R12 | 1290 (50.78) |
| 508.0 (20) | XH**-20R8 | 1137 (44.78) | XH**-20R12 | 1341 (52.78) |
| 609.6 (24) | XH**-24R8 | 1239 (48.78) | XH**-24R12 | 1442 (56.78) |
| 762.0 (30) | XH**-30R8 | 1391 (54.78) | XH**-30R12 | 1595 (62.78) |
| 914.4 (36) | XH**-36R8 | 1543 (60.78) | XH**-36R12 | 1747 (68.78) |

| Ancho W Width W | Radio 609.6 <i>Radius (24)</i> | | Radio 914.4 <i>Radius (36)</i> | |
|--------------------|--|--------------|--|---------------|
| | No. de catálogo <i>Catalog number</i> | A | No. de catálogo <i>Catalog number</i> | A |
| 101.6 (4) | XH**-04R24 | 1544 (60.78) | XH**-04R36 | 2153 (84.78) |
| 152.4 (6) | XH**-06R24 | 1595 (62.78) | XH**-06R36 | 2204 (86.78) |
| 228.9 (9) | XH**-09R24 | 1671 (65.78) | XH**-09R36 | 2280 (89.78) |
| 304.8 (12) | XH**-12R24 | 1747 (68.78) | XH**-12R36 | 2357 (92.78) |
| 406.4 (16) | XH**-16R24 | 1849 (72.78) | XH**-16R36 | 2458 (96.78) |
| 457.2 (18) | XH**-18R24 | 1899 (74.78) | XH**-18R36 | 2509 (98.78) |
| 508.0 (20) | XH**-20R24 | 1950 (76.78) | XH**-20R36 | 2560 (100.78) |
| 609.6 (24) | XH**-24R24 | 2052 (80.78) | XH**-24R36 | 2661 (104.78) |
| 762.0 (30) | XH**-30R24 | 2204 (86.78) | XH**-30R36 | 2814 (110.78) |
| 914.4 (36) | XH**-36R24 | 2357 (92.78) | XH**-36R36 | 2966 (116.78) |

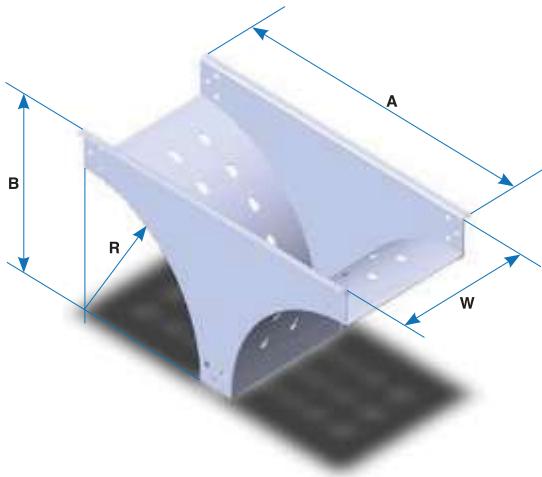
Incluye 2 conectores y tornillería • *Two connectors and hardware included*

Todas las dimensiones en mm (pulg) • *All dimensions are in mm (in)*

"T" Vertical • Vertical tee

TVZP-12R8-1 A

Material y acabado (ver pag 69) • *Material & finishes (see page 69)*
 Sufijo p/peralte (ver pag 69) • *Rail height suffix (see page 69)*
 Radio • *Radius*
 Ancho • *Width*
 Tipo de fondo y perfil (ver pag 69) • *Rail & trough type (see page 69)*
 "T" vertical • *Vertical "T"*



| Ancho W Width W | Radio <i>Radius</i> | | | |
|--------------------|------------------------|------------|------------|------------|
| | 203.2 (8) | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 101.6 (4) | TV**-04R8 | TV**-04R12 | TV**-04R24 | TV**-04R36 |
| 152.4 (6) | TV**-06R8 | TV**-06R12 | TV**-06R24 | TV**-06R36 |
| 228.9 (9) | TV**-09R8 | TV**-09R12 | TV**-09R24 | TV**-09R36 |
| 304.8 (12) | TV**-12R8 | TV**-12R12 | TV**-12R24 | TV**-12R36 |
| 406.4 (16) | TV**-16R8 | TV**-16R12 | TV**-16R24 | TV**-16R36 |
| 457.2 (18) | TV**-18R8 | TV**-18R12 | TV**-18R24 | TV**-18R36 |
| 508.0 (20) | TV**-20R8 | TV**-20R12 | TV**-20R24 | TV**-20R36 |
| 609.6 (24) | TV**-24R8 | TV**-24R12 | TV**-24R24 | TV**-24R36 |
| 762.0 (30) | TV**-30R8 | TV**-30R12 | TV**-30R24 | TV**-30R36 |
| 914.4 (36) | TV**-36R8 | TV**-36R12 | TV**-36R24 | TV**-36R36 |

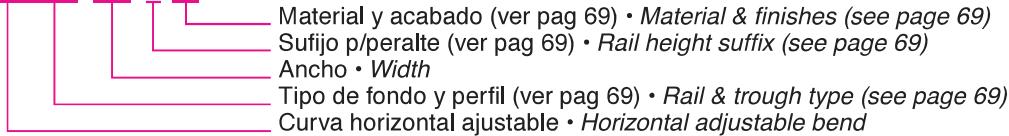
| Sufijo p/peralte Height rail suffix | Radio • <i>Radius</i> | | | | | | | |
|--|-----------------------|-------------|-------------|-------------|--------------|-------------|--------------|-------------|
| | 203.2 (8) | | 304.8 (12) | | 609.6 (24) | | 914.4 (36) | |
| | A | B | A | B | A | B | A | B |
| 1 | 489 (19,25) | 286 (11,25) | 692 (27,25) | 387 (15,25) | 1302 (51,25) | 692 (27,25) | 1911 (75,25) | 997 (39,25) |
| 2 | 508 (20) | 305 (12) | 711 (28) | 406 (16) | 1321 (52) | 711 (28) | 1930 (76) | 1016 (40) |
| 3 | 521 (20,5) | 318 (12,5) | 724 (28,5) | 419 (16,5) | 1334 (52,5) | 724 (28,5) | 1943 (76,5) | 1029 (40,5) |
| 5 | 533 (21) | 330 (13) | 737 (29) | 432 (17) | 1346 (53) | 737 (29) | 1956 (77) | 1041 (41) |
| 6 | 559 (22) | 356 (14) | 762 (30) | 457 (18) | 1372 (54) | 762 (30) | 1981 (78) | 1067 (42) |

Incluye 2 conectores y tornillería • *Two connectors and hardware included*

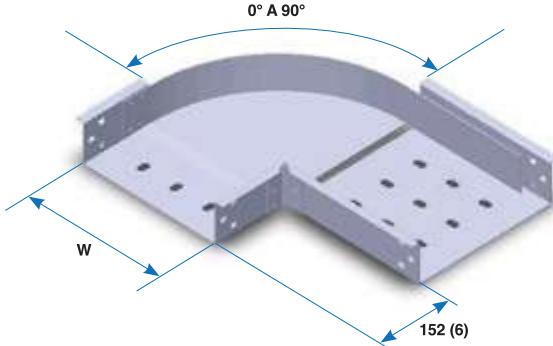
Todas las dimensiones en mm (pulg) • *All dimensions are in mm (in)*

Curva horizontal ajustable • Horizontal adjustable bend

CAZP-12-1 A



| Ancho W Width W | No. de catálogo Catalog number |
|--------------------|-----------------------------------|
| 101.6 (4) | CA**-04 |
| 152.4 (6) | CA**-06 |
| 228.9 (9) | CA**-09 |
| 304.8 (12) | CA**-12 |
| 406.4 (16) | CA**-16 |
| 457.2 (18) | CA**-18 |
| 508.0 (20) | CA**-20 |
| 609.6 (24) | CA**-24 |
| 762.0 (30) | CA**-30 |
| 914.4 (36) | CA**-36 |



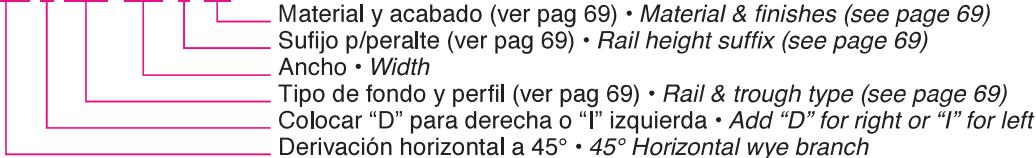
Incluye 2 conectores y tornillería • Two connectors and hardware included

No incluye cintas conductoras • Bonding jumpers not included

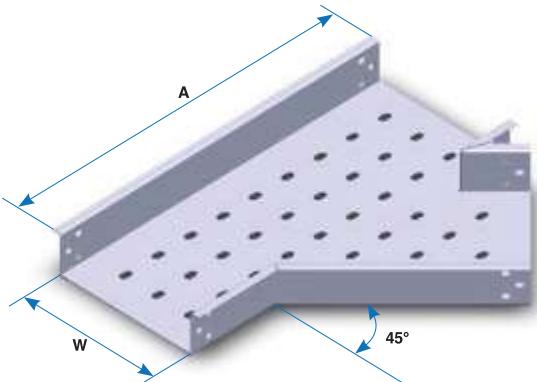
Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Derivación horizontal a 45° • 45° Horizontal wye branch

DY * ZP-12-1 A



| Ancho W Width W | No. de catálogo Catalog number | A |
|--------------------|-----------------------------------|-------------|
| 101.6 (4) | DY**-04 | 463 (18.2) |
| 152.4 (6) | DY**-06 | 534 (21) |
| 228.9 (9) | DY**-09 | 642 (25.3) |
| 304.8 (12) | DY**-12 | 750 (29.5) |
| 406.4 (16) | DY**-16 | 894 (35.2) |
| 457.2 (18) | DY**-18 | 966 (38) |
| 508.0 (20) | DY**-20 | 1037 (40.8) |
| 609.6 (24) | DY**-24 | 1181 (46.5) |
| 762.0 (30) | DY**-30 | 1396 (55) |
| 914.4 (36) | DY**-36 | 1612 (63.5) |



Incluye 2 conectores y tornillería • Two connectors and hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Reducciones • Reducers

RL ZP-1209-1 A

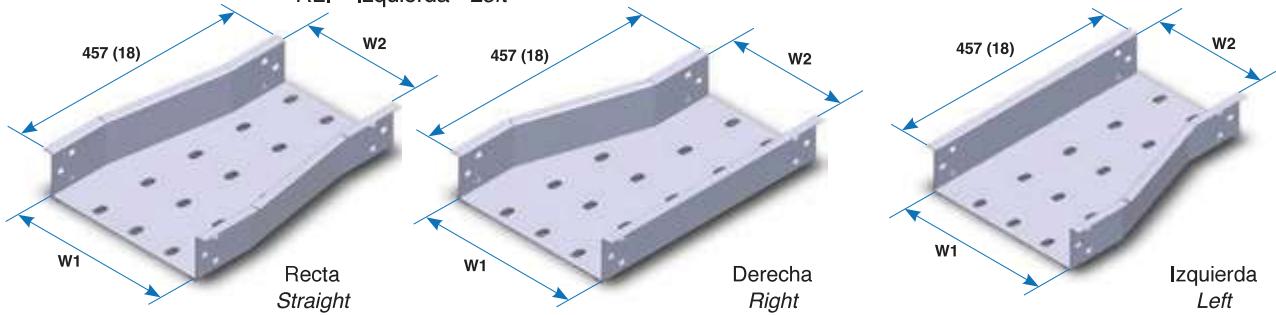
Material y acabado • Material & finishes
Sufijo p/peralte (ver pag 69) • Rail height suffix (see page 69)
Ancho menor • Smaller width
Ancho mayor • Larger width
Perfil tipo (ver pag 69) • Rail type (see page 69)

Reducción • Reducer

RL = Recta • Straight

RLD = Derecha • Right

RLI = Izquierda • Left



Nº de catálogo reducciones rectas • Straight reducer catalog number

| Ancho W1 Width W1 | Ancho menor W2 Smaller width W2 | | | | | | | | |
|----------------------|------------------------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| | 101.6 (4) | 152.4 (6) | 228.9 (9) | 304.8 (12) | 406.4 (16) | 457.2 (18) | 508.0 (20) | 609.6 (24) | 762.0 (30) |
| 152.4 (6) | RL**-0604 | | | | | | | | |
| 228.9 (9) | RL**-0904 | RL**-0906 | | | | | | | |
| 304.8 (12) | RL**-1204 | RL**-1206 | RL**-1209 | | | | | | |
| 406.4 (16) | RL**-1604 | RL**-1606 | RL**-1609 | RL**-1612 | | | | | |
| 457.2 (18) | RL**-1804 | RL**-1806 | RL**-1809 | RL**-1812 | RL**-1816 | | | | |
| 508.0 (20) | RL**-2004 | RL**-2006 | RL**-2009 | RL**-2012 | RL**-2016 | RL**-2018 | | | |
| 609.6 (24) | RL**-2404 | RL**-2406 | RL**-2409 | RL**-2412 | RL**-2416 | RL**-2418 | RL**-2420 | | |
| 762.0 (30) | RL**-3004 | RL**-3006 | RL**-3009 | RL**-3012 | RL**-3016 | RL**-3018 | RL**-3020 | RL**-3024 | |
| 914.4 (36) | RL**-3604 | RL**-3606 | RL**-3609 | RL**-3612 | RL**-3616 | RL**-3618 | RL**-3620 | RL**-3624 | RL**-3630 |

Nº de catálogo reducciones derechas • Right reducer catalog number

| Ancho W1 Width W1 | Ancho menor W2 Smaller width W2 | | | | | | | | |
|----------------------|------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 101.6 (4) | 152.4 (6) | 228.9 (9) | 304.8 (12) | 406.4 (16) | 457.2 (18) | 508.0 (20) | 609.6 (24) | 762.0 (30) |
| 152.4 (6) | RLD**-0604 | | | | | | | | |
| 228.9 (9) | RLD**-0904 | RLD**-0906 | | | | | | | |
| 304.8 (12) | RLD**-1204 | RLD**-1206 | RLD**-1209 | | | | | | |
| 406.4 (16) | RLD**-1604 | RLD**-1606 | RLD**-1609 | RLD**-1612 | | | | | |
| 457.2 (18) | RLD**-1804 | RLD**-1806 | RLD**-1809 | RLD**-1812 | RLD**-1816 | | | | |
| 508.0 (20) | RLD**-2004 | RLD**-2006 | RLD**-2009 | RLD**-2012 | RLD**-2016 | RLD**-2018 | | | |
| 609.6 (24) | RLD**-2404 | RLD**-2406 | RLD**-2409 | RLD**-2412 | RLD**-2416 | RLD**-2418 | RLD**-2420 | | |
| 762.0 (30) | RLD**-3004 | RLD**-3006 | RLD**-3009 | RLD**-3012 | RLD**-3016 | RLD**-3018 | RLD**-3020 | RLD**-3024 | |
| 914.4 (36) | RLD**-3604 | RLD**-3606 | RLD**-3609 | RLD**-3612 | RLD**-3616 | RLD**-3618 | RLD**-3620 | RLD**-3624 | RLD**-3630 |

Nº de catálogo reducciones izquierdas • Left reducer catalog number

| Ancho W1 Width W1 | Ancho menor W2 Smaller width W2 | | | | | | | | |
|----------------------|------------------------------------|------------|------------|------------|------------|------------|------------|------------|------------|
| | 101.6 (4) | 152.4 (6) | 228.9 (9) | 304.8 (12) | 406.4 (16) | 457.2 (18) | 508.0 (20) | 609.6 (24) | 762.0 (30) |
| 152.4 (6) | RLI**-0604 | | | | | | | | |
| 228.9 (9) | RLI**-0904 | RLI**-0906 | | | | | | | |
| 304.8 (12) | RLI**-1204 | RLI**-1206 | RLI**-1209 | | | | | | |
| 406.4 (16) | RLI**-1604 | RLI**-1606 | RLI**-1609 | RLI**-1612 | | | | | |
| 457.2 (18) | RLI**-1804 | RLI**-1806 | RLI**-1809 | RLI**-1812 | RLI**-1816 | | | | |
| 508.0 (20) | RLI**-2004 | RLI**-2006 | RLI**-2009 | RLI**-2012 | RLI**-2016 | RLI**-2018 | | | |
| 609.6 (24) | RLI**-2404 | RLI**-2406 | RLI**-2409 | RLI**-2412 | RLI**-2416 | RLI**-2418 | RLI**-2420 | | |
| 762.0 (30) | RLI**-3004 | RLI**-3006 | RLI**-3009 | RLI**-3012 | RLI**-3016 | RLI**-3018 | RLI**-3020 | RLI**-3024 | |
| 914.4 (36) | RLI**-3604 | RLI**-3606 | RLI**-3609 | RLI**-3612 | RLI**-3616 | RLI**-3618 | RLI**-3620 | RLI**-3624 | RLI**-3630 |

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Incluye 2 conectores y tornillería • Two connectors and hardware included

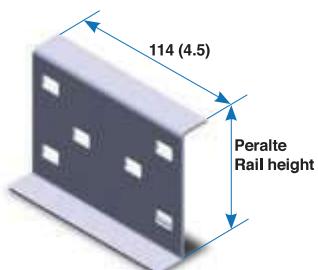
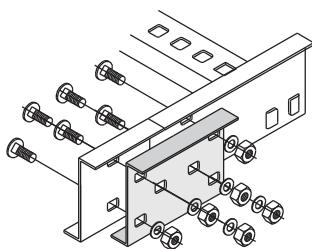
Sección 4.3 Accesorios de ensamble para charolas tipo escalera y fondo sólido

Section 4.3 Assembly fittings for ladder and solid trough type cable tray systems.

AZ-4.5 1 A

Conejero tipo "Z" • "Z" Form splice plate

Material y acabado (ver pag 58) • Material & finishes (see page 58)
Sufijo p/peralte (ver pag 59) • Rail height suffix (see page 59)
Largo en pulg. • Length in inches
Conejero tipo z • Z form connector



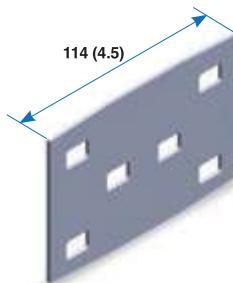
Aplicable solo para productos perfil tipo Z • Use only with products Z rail side form
Tornillería incluida • Hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

AR-4.5 1 A

Conejero recto • Straight splice plate

Material y acabado (ver pag 58) • Material & finishes (see page 58)
Sufijo p/peralte (ver pag 59) • Rail height suffix (see page 59)
Largo en pulg. • Length in inches
Conejero recto • Straight connector



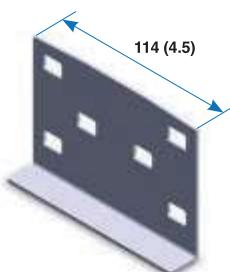
Tornillería incluida • Hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

AL-4.5 1 A

Conejero tipo "L" • "L" Form splice plate

Material y acabado (ver pag 58) • Material & finishes (see page 58)
Sufijo p/peralte (ver pag 59) • Rail height suffix (see page 59)
Largo en pulg. • Length in inches
Conejero tipo L • L form connector



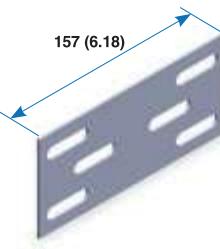
Tornillería incluida • Hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

AE-1 A

Conejero de expansión • Expansion connector

Material y acabado (ver pag 58) • Material & finishes (see page 58)
Sufijo p/peralte (ver pag 59) • Rail height suffix (see page 59)
Conejero de expansión • Expansion connector

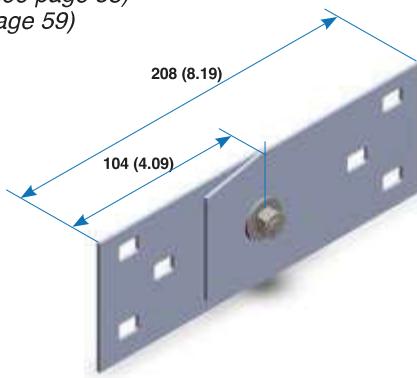


Tornillería incluida • Hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Elevador ajustable • Vertical adjustable connector**EA-1 A**

Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 59) • Rail height suffix (see page 59)
 Elevador ajustable • Vertical adjustable connector

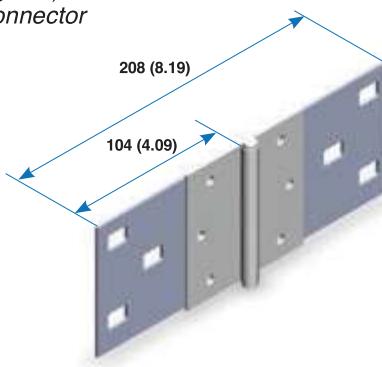


No incluye cintas conductoras • Bonding jumpers not included

Tornillería incluida • Hardware included

Conecotor horizontal ajustable • Horizontal adjustable connector**AH-1 A**

Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 59) • Rail height suffix (see page 59)
 Conecotor horizontal ajustable • Horizontal adjustable connector

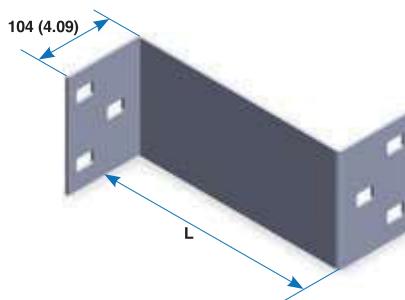


No incluye cintas conductoras • Bonding jumpers not included

Conecotor reductor • Reducer connector**ARR - 3 - 1 A**

Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 59) • Rail height suffix (see page 59)
 Diferencia de anchos ver tabla • Width difference see table
 Conecotor reductor • Reducer connector

| No. de catálogo <i>Catalog number</i> | L mm (pulg) |
|--|----------------|
| ARR-1 | 76.2 (3") |
| ARR-2 | 152.4(6") |
| ARR-3 | 228.6(9") |
| ARR-4 | 304.8(12") |
| ARR-5 | 381.0(15") |
| ARR-6 | 457.2(18") |
| ARR-7 | 609.6(24") |
| ARR-8 | 762.0(30") |



Medidas de reducción de línea.

La reducción se puede fabricar en cualquier medida solicitada

Tornillería incluida • Hardware included

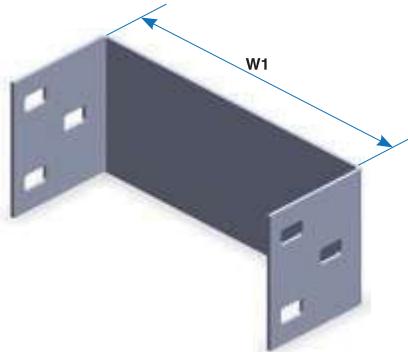
Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

PTR-09-1 A

Tapa terminal • Blind end

Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 59) • Rail height suffix (see page 59)
 Ancho de la charola • Cable tray width
 Tapa terminal • Blind end

| Ancho de Charola Tray Width | W1 |
|--------------------------------|-------------|
| 101.6 (4) | 106 (4.19) |
| 152.4 (6) | 157 (6.19) |
| 228.9 (9) | 233 (6.19) |
| 304.8 (12) | 309 (12.19) |
| 406.4 (16) | 411 (16.19) |
| 457.2 (18) | 462 (18.19) |
| 508.0 (20) | 513 (20.19) |
| 609.6 (24) | 614 (24.19) |
| 762.0 (30) | 767 (30.19) |
| 914.4 (36) | 919 (36.19) |



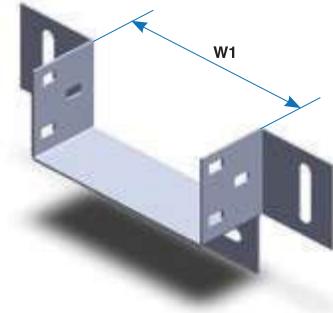
Tornillería incluida • Hardware included

ACC-09-1 A

Conector de charola a caja • Frame type box connector

Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 59) • Rail height suffix (see page 59)
 Ancho de la charola • Cable tray width
 Conector charola a caja • Frame type box connector

| Ancho de Charola Tray Width | W1 |
|--------------------------------|-------------|
| 101.6 (4) | 106 (4.19) |
| 152.4 (6) | 157 (6.19) |
| 228.9 (9) | 233 (6.19) |
| 304.8 (12) | 309 (12.19) |
| 406.4 (16) | 411 (16.19) |
| 457.2 (18) | 462 (18.19) |
| 508.0 (20) | 513 (20.19) |
| 609.6 (24) | 614 (24.19) |
| 762.0 (30) | 767 (30.19) |
| 914.4 (36) | 919 (36.19) |



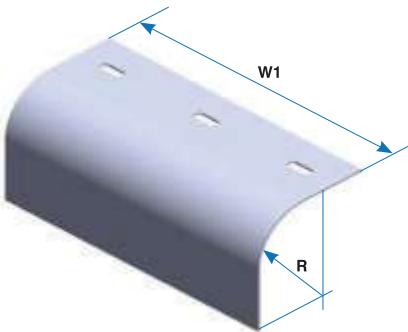
Tornillería incluida • Hardware included

BC-509-1 A

Bajada para cable • Drop-out

Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 59) • Rail height suffix (see page 59)
 Ancho de la charola • Cable tray width
 Radio de la bajada • Drop-out radius
 Bajada para cables • Drop-out

| Ancho de Charola Tray Width | Radio 50,8 Radius (2) | Radio 127 Radius (5) |
|--------------------------------|--------------------------|-------------------------|
| 101.6 (4) | BC-204 | BC-504 |
| 152.4 (6) | BC-206 | BC-506 |
| 228.9 (9) | BC-209 | BC-509 |
| 304.8 (12) | BC-212 | BC-512 |
| 406.4 (16) | BC-216 | BC-516 |
| 457.2 (18) | BC-218 | BC-518 |
| 508.0 (20) | BC-220 | BC-520 |
| 609.6 (24) | BC-224 | BC-524 |
| 762.0 (30) | BC-230 | BC-530 |
| 914.4 (36) | BC-236 | BC-536 |



Tornillería no incluida • Hardware not included

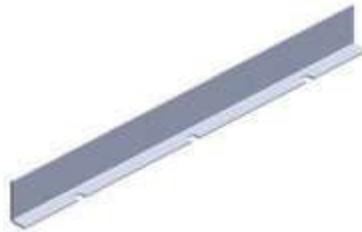
Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Barreras separadoras tramo recto • Straight divider strip

BSCH-1 A 3.05m



Longitud de la charola en metros (3.05m y 3.66m) • Cable tray length in meters (3.05m and 3.66m)
 Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 58) • Rail height suffix (see page 58)
 Barrera separadora para tramo recto • Straight divider strip



Incluye 5 clemas Clamp-112 con tornillería • Five hold down Clamp-112 and hardware included

Barreras separadoras accesorios horizontales • Horizontal fittings divider strip

BSH-72-1 A



Material y acabado (ver pag 58) • Material & finishes (see page 58)
 Sufijo p/peralte (ver pag 58) • Rail height suffix (see page 58)
 Longitud de la barrera en pulgadas (48" y 72") • Divider strip length in inches (48" and 72")
 Barrera separadora para curva horizontal • Horizontal fitting divider strip



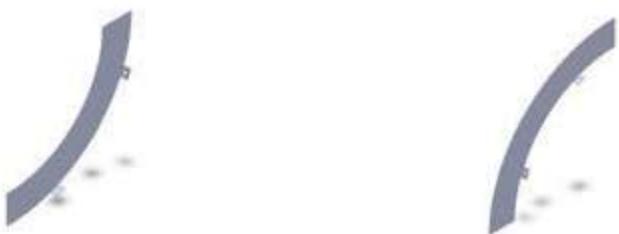
Incluye 3 clemas Clamp-112 con tornillería • Three hold down Clamp-112 and hardware included

Barreras separadoras accesorios verticales • Vertical fittings divider strip

BSVEC-04R08901 A



No de catálogo de la curva a la que se colocara la barrera.
Catalog number of the vertical fitting
 Barrera separadora para curva vertical • Vertical fitting divider strip

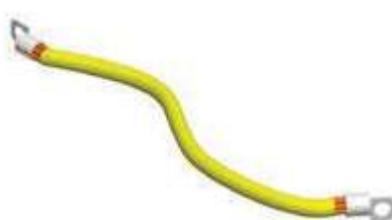


Incluye clemas Clamp-112 con tornillería • Hold down Clamp-112 and hardware included

Cintas conductoras • Bonding jumpers

Para su selección y aplicación consulte NOM-001-SEDE-2012 artículos 318-6A y 318-7, además de NEMA VE-2
For application and selection, see NEC CODE 318-6A & 318-7, also NEMA VE-2

| No de catálogo <i>Catalog number</i> | Capacidad <i>Capacity</i> |
|---|------------------------------|
| CC-99NI | 600 AMP. MAX. |
| CC-9940 | 1600 AMP. MAX |



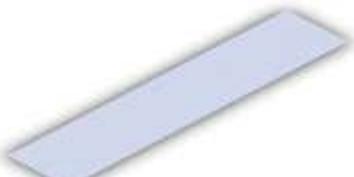
Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Tapas para tramo recto • Straight covers

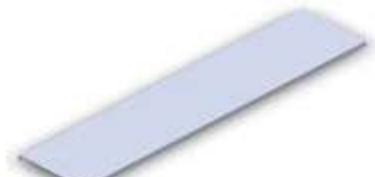
TRCV-CHCP-12-1A

No de catálogo de la pieza a cubrir • *Covered product catalog number*

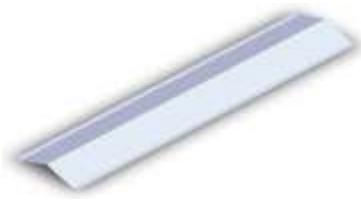
Tipo de tapa • *Cover type*



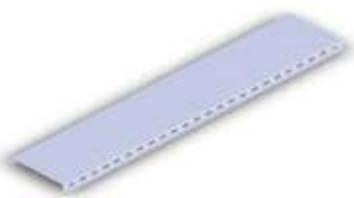
Tapa recta tipo "TR"
Flat cover "TR" type



Tapa con ceja tipo "TRC"
Flanged cover "TRC" type



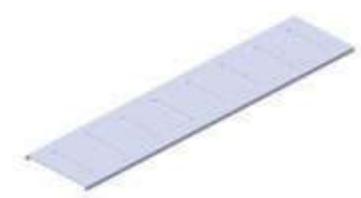
Tapa a dos aguas tipo "TA"
Peaked cover "TA" type



Tapa sombrero tipo "TSS"
Domed cover "TSS" type



Tapa recta con ventilación tipo "TRV"
Flat vented cover "TRV" type



Tapa con ceja con ventilación tipo "TRCV"
Flanged and vented cover "TRCV" type

Las tapas se surten en juegos de 3 tapas de 1219 mm (4 ft) e incluyen 12 clips de sujeción

Covers are supplied in sets of 3 covers of 1219 mm (4 ft) 12 cover clamps are included

Para otras longitudes consulte nuestro departamento de ingeniería

For other lengths or designs please consult our technical department

Las tapas para accesorios solo se fabrican en tipo recto e incluyen clips necesarios.

Only flat type is supplied for fitting covers and cover clamps needed are included

Las tapas para charola tipo fondo sólido se surten en juegos de 2 tapas de 1525 mm (5 ft) e incluyen 8 clips
Solid trough type cable tray covers are supplied in sets of 2 covers of 1525 mm (5 ft) 8 cover clamps are included.

Clips de sujeción para tapas • Cover clamps

CST-14-GI

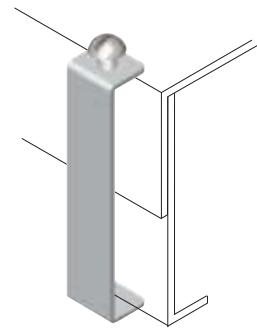
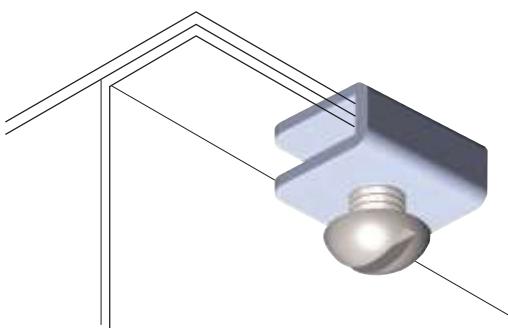
Material y acabado (ver pag 58) • *Material & finishes (see page 58)*
Clip normal • *Standard clamp*

CSTSC-14-1GI

Material y acabado (ver pag 58) • *Material & finishes (see page 58)*
Sufijo p/veralte (ver pag 58) • *Rail height suffix (see page 58)*
Clip largo • *Large clamp*

Para charolas perfiles tipo "Z", "C" afuera, e "I"
For products with rail type "Z", "C" flanged out, & "I"

Para charolas perfiles tipo "C"
For products with rail type "C"



Sección 4.4

Accesorios de montaje

Section 4.4

Supports and brackets

Ménsula para montaje en pared • Wall cantilever bracket

MPPI-09-GI

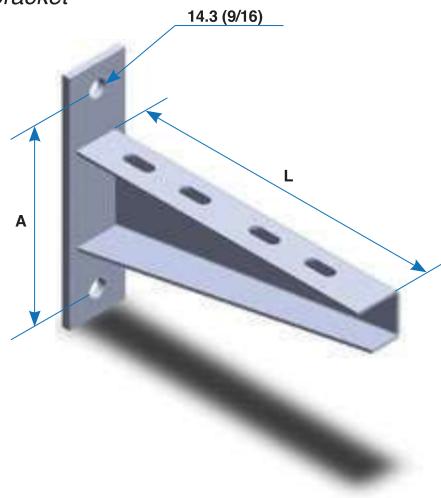
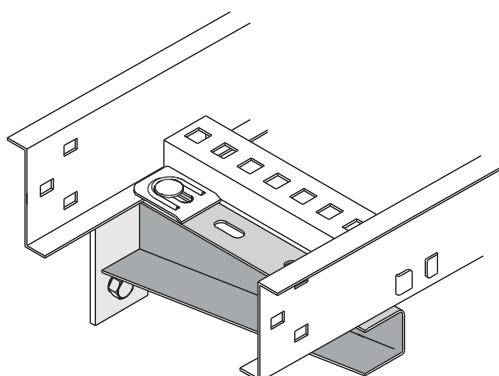
Material y acabado • Material & finishes

Ancho de la charola • Cable tray width

Colocar esta letra para charolas con perfil tipo "C" hacia fuera, e "I"

Use this letter for "C" flanged out & "I" rail trays

Ménsula para pared • Wall supported bracket



| Ancho de charola Tray width | A | Para perfil tipo Z, C, I (ligero) (ver pag 58) For Z, C, I rail type (see page 58) | | Para perfil tipo "C" hacia afuera, e "I" (pesado) (ver pag 58) For "C" flanged out & "I" rail type (see page 58) | | Carga soportada Load capacity |
|--------------------------------|------------|---|----------|---|----------|----------------------------------|
| | | No de catálogo Catalog number | L | No de catálogo Catalog number | L | |
| 101.6 (4) | 120 (4.75) | MPP-04 | 127 (5) | MPPI-04 | 152 (6) | 705 kg (1550 lb) |
| 152.4 (6) | | MPP-06 | 178 (7) | MPPI-06 | 203 (8) | 665 kg (1460 lb) |
| 228.9 (9) | | MPP-09 | 254 (10) | MPPI-09 | 279 (11) | 645 kg (1420 lb) |
| 304.8 (12) | | MPP-12 | 330 (13) | MPPI-12 | 356 (14) | 550 kg (1215 lb) |
| 406.4 (16) | 158 (6.22) | MPP-16 | 432 (17) | MPPI-16 | 457 (18) | 505 kg (1115 lb) |
| 457.2 (18) | | MPP-18 | 483 (19) | MPPI-18 | 508 (20) | 450 kg (990 lb) |
| 508.0 (20) | | MPP-20 | 533 (21) | MPPI-20 | 559 (22) | 385 kg (850 lb) |
| 609.6 (24) | | MPP-24 | 635 (25) | MPPI-24 | 660 (26) | 325 kg (717 lb) |
| 762.0 (30) | | MPP-30 | 787 (31) | MPPI-30 | 813 (32) | 275 kg (607 lb) |
| 914.4 (36) | | MPP-36 | 940 (37) | MPPI-36 | 965 (38) | 225 kg (496 lb) |

No incluye tornillería ni sistemas de fijación. • Hardware, clamps or anchoring system are not included

La carga soportada muestra la capacidad de la ménsula, CROSS LINE no se hace responsable de fallas atribuibles a los sistemas de anclaje o el sustrato de apoyo.

Las cargas soportadas están basadas en un factor de seguridad de 2.5.

The load shown indicates bracket's load capacity. CROSS LINE is not responsible for failures caused by the anchoring system or wall materials.

Load capacities are based in a 2.5 safety factor.

Materiales y acabados:

GI: Acero al carbón galvanizado por inmersión en caliente

GE: Acero al carbón galvanizado electrolítico

T: Acero al carbón tropicalizado

PVC: Acero al carbón recubierto con PVC

AI: Acero inoxidable

Para materiales y acabados no indicados consulte nuestro departamento de ingeniería

Todas las dimensiones en mm (pulg)

Materials & finishes:

GI: Hot dip galvanized steel

GE: Electro galvanized steel

T: Chromium-zinc coated steel

PVC: PVC coated steel

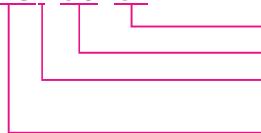
AI: Stainless steel

For materials and finishes not shown please consult our technical department

All dimensions are in mm (in)

CROSS
LINE[®]

MCI-09-GI



Ménsula para montaje en canal • Channel cantilever bracket

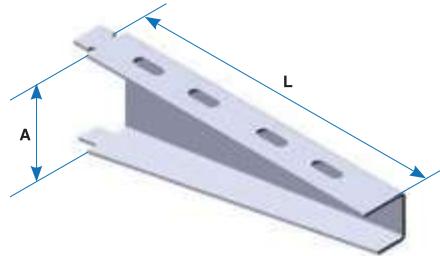
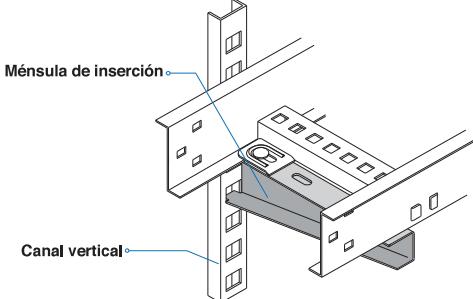
Material y acabado (ver pag 83) • Material & finishes (see page 83)

Ancho de la charola • Cable tray width

Colocar esta letra para charolas con perfil tipo "C" hacia fuera, e "I"

Use this letter for "C" flange out & "I" rail trays

Ménsula para canal • Channel cantilever bracket



Para perfil tipo Z, C, I (ligero)
(ver pag 58)
For Z, C, I rail type
(see page 58)

Para perfil tipo "C" hacia afuera, e "I" (pesado)
(ver pag 58)
For "C" flanged out & "I" rail type
(see page 58)

| Ancho de charola Tray width | A | No de catálogo Catalog number | L | No de catálogo Catalog number | L | Carga soportada Load capacity |
|--------------------------------|------------|----------------------------------|----------|----------------------------------|----------|----------------------------------|
| 101.6 (4) | 79 (3.1) | MC-04 | 127 (5) | MCI-04 | 152 (6) | 345 kg (762 lb) |
| 152.4 (6) | | MC-06 | 178 (7) | MCI-06 | 203 (8) | 325 kg (717 lb) |
| 228.9 (9) | | MC-09 | 254 (10) | MCI-09 | 279 (11) | 315 kg (695 lb) |
| 304.8 (12) | | MC-12 | 330 (13) | MCI-12 | 356 (14) | 270 kg (596 lb) |
| 406.4 (16) | 158 (6.22) | MC-16 | 432 (17) | MCI-16 | 457 (18) | 245 kg (540 lb) |
| 457.2 (18) | | MC-18 | 483 (19) | MCI-18 | 508 (20) | 220 kg (485 lb) |
| 508.0 (20) | | MC-20 | 533 (21) | MCI-20 | 559 (22) | 190 kg (420 lb) |
| 609.6 (24) | | MC-24 | 635 (25) | MCI-24 | 660 (26) | 160 kg (353 lb) |
| 762.0 (30) | | MC-30 | 787 (31) | MCI-30 | 813 (32) | 135 kg (298 lb) |
| 914.4 (36) | | MC-36 | 940 (37) | MCI-36 | 965 (38) | 110 kg (243 lb) |

La carga soportada muestra la capacidad de la ménsula,
CROSS LINE no se hace responsable de fallas atribuibles
a los sistemas de anclaje o el sustrato de apoyo.

Las cargas soportadas están basadas en un factor de
seguridad de 2.5.

The load shown indicates bracket's load capacity
assembled with a vertical channel, CROSS LINE is not
responsible for failures caused by the anchoring system or
wall materials.

Load capacities are based in a 2.5 safety factor.

Canal vertical • Vertical "C" channel

CVPP-120-GI



Material y acabado (ver pag 83) • Material & finishes (see page 83)

Longitud del canal en pulgadas • Channel length in inches

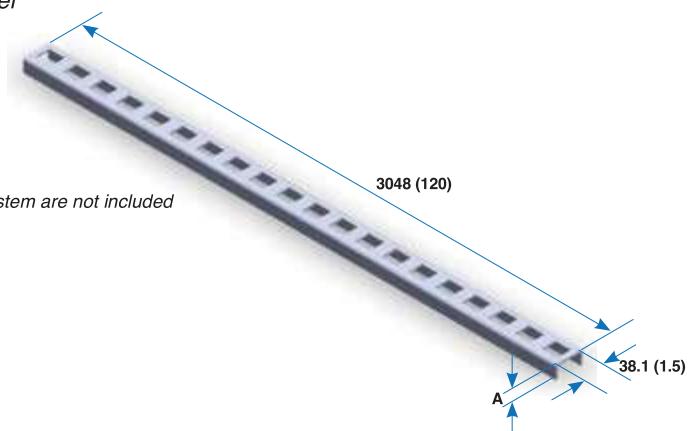
Colocar esta letra en canales con altura de 19 mm (3/4)

Use this letter for channels with 19 (3/4) height

Canal vertical • Vertical "C" channel

| No de catálogo Catalog number | A |
|----------------------------------|--------------|
| CVPP-120 | 19 (3/4) |
| CVP-120 | 31.8 (1 1/2) |

No incluye tornillería ni sistemas de fijación. • Hardware, clamps or anchoring system are not included
Todas las dimensiones en mm (pulg). • All dimensions are in mm (in)



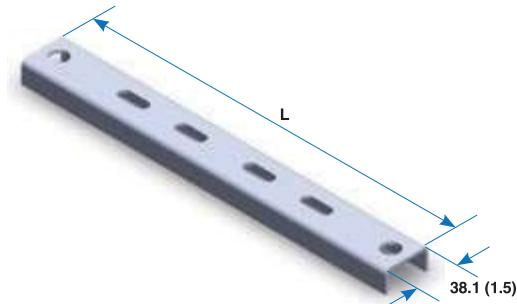
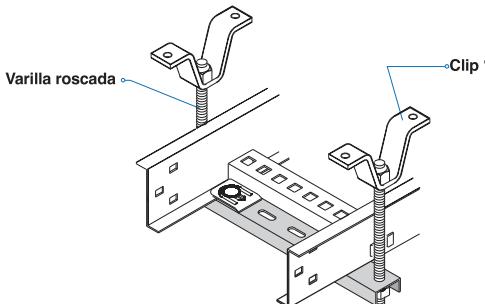
Canal horizontal para trapecio • Channel cantilever bracket

CPPV-09-GI

Material y acabado (ver pag 83) • Material & finishes (see page 83)

Ancho de la charola • Cable tray width

Canal horizontal para trapecio • Horizontal channel for support



Números de catálogo • Catalog number

| Canal poco profundo Minus deep horizontal channel | Canal horizontal profundo Deep horizontal channel | Ancho de charola Tray width | L |
|--|--|--------------------------------|--------------|
| CPPV-04 | CPV-04 | 101.6 (4) | 195 (7.69) |
| CPPV-06 | CPV-06 | 152.4 (6) | 246 (9.69) |
| CPPV-09 | CPV-09 | 228.9 (9) | 322 (12.69) |
| CPPV-12 | CPV-12 | 304.8 (12) | 398 (15.69) |
| CPPV-16 | CPV-16 | 406.4 (16) | 500 (19.69) |
| CPPV-18 | CPV-18 | 457.2 (18) | 551 (21.69) |
| CPPV-20 | CPV-20 | 508.0 (20) | 602 (23.69) |
| CPPV-24 | CPV-24 | 609.6 (24) | 703 (27.69) |
| CPPV-30 | CPV-30 | 762.0 (30) | 856 (33.69) |
| CPPV-36 | CPV-36 | 914.4 (36) | 1008 (39.69) |

No incluye tornillería, varillas, clips "U" ni sistemas de fijación • Hardware, threaded rods or anchoring systems are not included

Clip "U" • "U" Form clamp

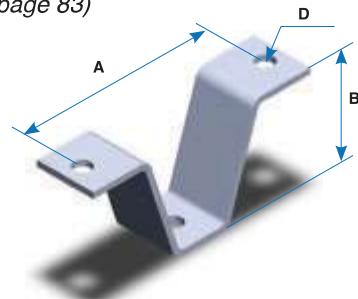
CU-38-GI

Material y acabado (ver pag 83) • Material & finishes (see page 83)

Tamaño nominal de varilla roscada • Threaded road size

Clip "U" • "U" form clamp

| Nº de catálogo Catalog number | Tamaño de varilla Road size | A | B | D |
|----------------------------------|--------------------------------|------------|-----------|-------------|
| CU-38 | 9.5 (3/8) | 110 (4.32) | 57 (2.24) | 9.5 (3/8) |
| CU-12 | 12.7 (1/2) | 133 (5.23) | 63 (2.48) | 14.3 (9/16) |
| CU-58 | 15.9 (5/8) | 143 (5.62) | 67 (2.63) | 14.3 (9/16) |



No incluye tornillería, varillas, ni sistemas de fijación • Hardware, threaded rods or anchoring systems are not included

Varilla roscada • Threaded rod

VR-38300 GE

Material y acabado (ver pag 83 excepto GI) • Material & finishes (see page 83 except GI)

Longitud en metros (solo 3m) • Length in meters (3.0m only)

Tamaño nominal • Size

Varilla roscada • Threaded rod

| Nº de catálogo Catalog number | Diámetro de varilla Rod size |
|----------------------------------|---------------------------------|
| VR-38 | 9.5 (3/8) |
| VR-12 | 12.7 (1/2) |
| VR-58 | 15.9 (5/8) |

No incluye tuercas • Nuts not included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

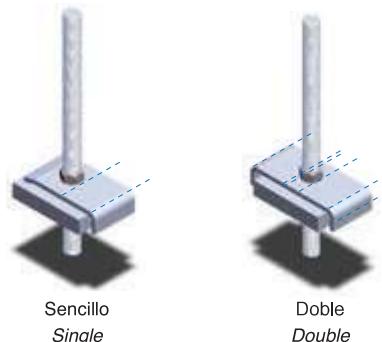


Soportes colgantes a lateral • Side rail hanging support

SDH-38-GI


 Material y acabado (ver pag 83) • *Material & finishes (see page 83)*
 Tamaño nominal de varilla roscada • *Threaded road size*
 Tipo (sencillo o doble) • *Support type (single or double)*
 Colgador a lateral • *Side rail hanger*

| Nº de catálogo Catalog number | | Diámetro de varilla Rod size |
|----------------------------------|-----------------|---------------------------------|
| Sencillo Single | Doble Double | |
| SSH-38 | SDH-38 | 9.5 (3/8) |
| SSH-12 | SDH-12 | 12.7 (1/2) |
| SSH-58 | SDH-58 | 15.9 (5/8) |

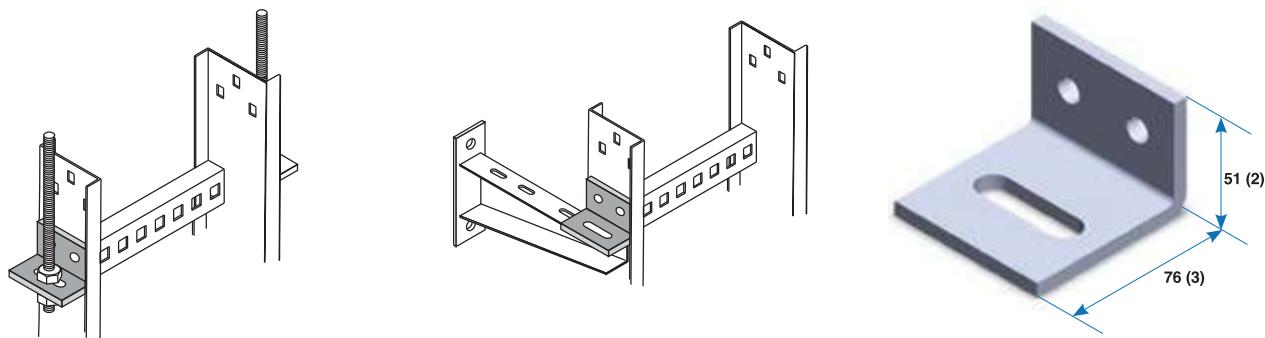


No incluye tuercas ni varilla • *Nuts or threaded rods are not included*

Soporte vertical • Vertical support

SV-1GI


 Material y acabado (ver pag 83) • *Material & finishes (see page 83)*
 Sufijo p/peralte (ver pag 58) • *Rail height suffix (see page 58)*
 Soporte vertical • *Vertical support*

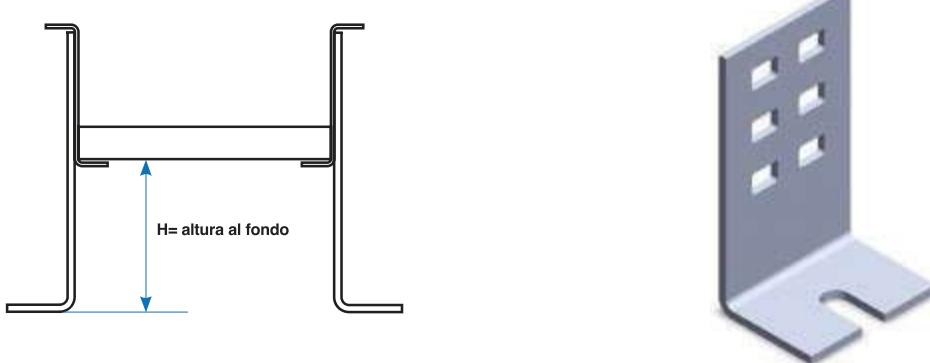


Para usarse con varilla roscada de 12.7 (1/2) no incluida • *For 12.7 (1/2) threaded rod not included*

Soporte para piso • Floor support

SP-30-1GI


 Material y acabado (ver pag 83) • *Material & finishes (see page 83)*
 Sufijo p/peralte (ver pag 58) • *Rail height suffix (see page 58)*
 Altura H al piso "mm" • *Height H from floor "mm"*
 Soporte para piso • *Floor support*



Todas las dimensiones en mm (pulg). • *All dimensions are in mm (in)*

Clema para charola • Hold-down clamp

CLAMP-112-GI

Material y acabado (ver pag 83) • *Material & finishes (see page 83)*
 Clema para charola • *Hold-down clamp*



Incluye tornillería • *Hardware included*

Clips angulares • Angular clamp

CAFA-434-GI

Material y acabado (ver pag 83) • *Material & finishes (see page 83)*
 Tipo de clip



Tipo sencillo
No. catálogo CAFC-234



Tipo reforzado
No. catálogo CAFL-334



Tipo ajustable
No. catálogo CAFC-434

Cople para varilla roscada • Threaded coupling

CVR-38-GE

Material y acabado (ver pag 83 excepto GI) • *Material & finishes (see page 83 except GI)*
 Tamaño nominal • *Size*
 Cople para varilla roscada • *Threaded coupling*

| Nº de catálogo <i>Catalog number</i> | Diámetro de varilla <i>Rod size</i> |
|---|--|
| CVR-38 | 9.5 (3/8) |
| CVR-12 | 12.7 (1/2) |
| CVR-58 | 15.9 (5/8) |



Los sistemas de apoyo mostrados en esta sección deberán ser colocados de acuerdo a la norma NEMA VE-2

Frames shown in this section should be installed under NEMA VE 2 standard

Sección 4.5

Soportería para cables tipo escalera de fibra de vidrio

El sistema de soportería para cables tipo escalera fabricado en fibra de vidrio marca CROSS LINE es ideal en instalaciones donde se necesita una alta resistencia a la corrosión y donde no se requieran materiales conductores.

Este sistema está diseñado para las condiciones más severas, brindando además el sistema más resistente mecánicamente al tener travesaños atornillados a los perfiles laterales mediante varilla rosada.

Las características que hacen del sistema de fibra de vidrio CROSS LINE, un sistema superior son:

ALTA RESISTENCIA CONTRA RAYOS ULTRAVIOLETA E INTEMPERIE.- Los componentes de poliéster reforzados con fibra de vidrio cuentan con un velo protector aplicado en las superficies exteriores para resistir las inclemencias del tiempo y la acción de los rayos ultravioleta, además, dentro de la formulación, EXCLUSIVA DE CROSS LINE, se integran estabilizadores que aumentan la resistencia, así como pigmentos especiales que sirven como pantalla contra los rayos ultravioleta.

RETARDANTE DE FUEGO.- Por pruebas realizadas en laboratorio y en campo, se demuestra que las charolas evitan la propagación del fuego y auto extinguen cualquier llama en un lapso no mayor a 15 segundos, por otro lado los humos generados durante un evento no son tóxicos a bajas exposiciones.

RESISTENCIA A LA TEMPERATURA.- Las charolas de fibra de vidrio de CROSS LINE tienen un alto grado de resistencia a los cambios de temperatura y a temperaturas extremas, pudiendo ser usadas en cualquier ambiente.

GRAN RESISTENCIA MECÁNICA.- Por su diseño, materiales y método de fabricación estas charolas son más fuertes comparadas con los sistemas metálicos.

FACILIDAD DE INSTALACIÓN.- las charolas de fibra de vidrio son fácilmente perforadas o cortadas con herramientas metálicas, ya que no necesita ser rebabeado. Sus uniones atornillables permiten remover, reponer o trasladar secciones o partes de la instalación.

Section 4.5

Fiber glass ladder type cable tray systems.

CROSS LINE's fiber glass ladder type cable tray system is the best choice for electrical installations where high corrosion resistance and non conductive materials are required.

This system is designed for the most hazardous corrosive environments, being also the most mechanically resistant system as its rungs are bolted to the side rails using threaded rods.

In the following paragraphs we explain why the CROSS LINE fiber glass system is the best choice:

HIGH UV-RAY AND WEATHERING RESISTANCE.- Our fiber glass composite products have an external surface protection veil to protect them against weathering and UV rays.

FLAME RETARDANT.- In field and lab tests, CROSS LINE's fiber glass products prevent flames spreading and it extinguishes in a no longer than 15 seconds period. Generated smoke is not toxic in low exposures.

TEMPERATURE RESISTANCE.- CROSS LINE's fiber glass systems have high temperature's changes resistance grade and can be used in any environment with a good profile.

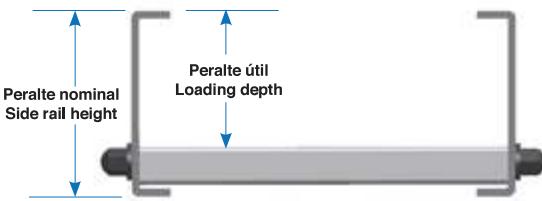
HIGH MECHANICAL RESISTANCE.- By its design, materials and manufacturing process CROSS LINE's fiber glass systems are stronger than metallic systems.

EASY INSTALLATION.- CROSS LINE's fiber glass systems can be easily drilled or cut using metal working tools does not need to be deburred. It's bolted unions facilitates jobsite removal, replacement and relocate installed parts.

The most important, CROSS LINE's cable tray systems cover all you need for a complete installation. Straight sections, fittings, connections and covers, all are included in our product line, if you don't find the accessory you need please consult our technical department..... We can make it.

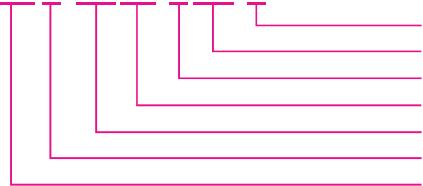
Secciones tipo "C" • "C" Form sections

| Peralte Nominal Side rail height | Peralte útil Loading depth | Perfil tipo Rail type | Sufijo p/peralte Rail height Suffix |
|-------------------------------------|-------------------------------|--------------------------|--|
| 76. (3) | 51 (2) | C, E | 3 |
| 102 (4) | 76 (3) | | 4 |
| 152 (6) | 108 (4 1/4) | | 6 |
| 203 (8) | 156 (6 1/8) | | 8 |
| 254 (10) | 206 (8 1/8) | | 10 |



Tramo recto • Straight section

CHC-1209-6FV-6



Longitud 6 = 6.10 m 3 = 3.05 m • Length 6 = 20 ft 3 = 10 ft

Fibra de vidrio • Fiber glass

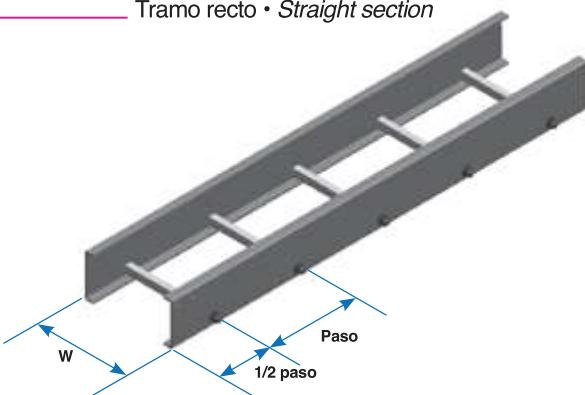
Sufijo p/peralte • Rail height suffix

Paso • Rung spacing

Ancho • Width

Perfil tipo • Rail type

Tramo recto • Straight section



Números de catálogo • Catalog number

| Ancho W Width W | Paso Rung spacing | | | |
|--------------------|----------------------|-----------|------------|------------|
| | 152.4 (6) | 228.6 (9) | 304.8 (12) | 457.2 (18) |
| 152.4 (6) | CHC-0606 | CHC-0609 | CHC-0612 | CHC-0618 |
| 228.9 (9) | CHC-0906 | CHC-0909 | CHC-0912 | CHC-0918 |
| 304.8 (12) | CHC-1206 | CHC-1209 | CHC-1212 | CHC-1218 |
| 406.4 (16) | CHC-1606 | CHC-1609 | CHC-1612 | CHC-1618 |
| 457.2 (18) | CHC-1806 | CHC-1809 | CHC-1812 | CHC-1818 |
| 508.0 (20) | CHC-2006 | CHC-2009 | CHC-2012 | CHC-2018 |
| 609.6 (24) | CHC-2406 | CHC-2409 | CHC-2412 | CHC-2418 |
| 762.0 (30) | CHC-3006 | CHC-3009 | CHC-3012 | * |
| 914.4 (36) | CHC-3606 | CHC-3609 | CHC-3612 | * |

Para longitudes diferentes consulte nuestro departamento de ingeniería. • For any other length please contact our technical department.
Incluye conectores y tornillería. • Connectors and hardware included

NOTAS :

- En anchos de 762.0 y 914.4 (30" y 36") no se fabrican en paso 457 (18")
- En pasos de 228.6 y 457.2 (9" y 18") se consideran nominales y son ajustados a la longitud de la charola.
- Las longitudes de la charola son de 3.05 m y 6.10 m (10' y 20')

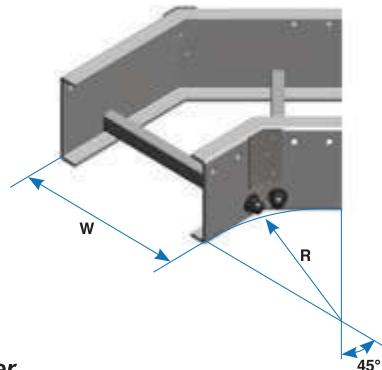
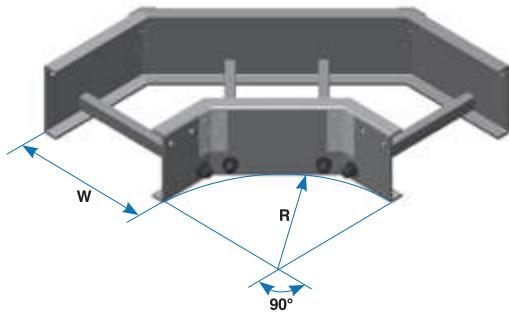
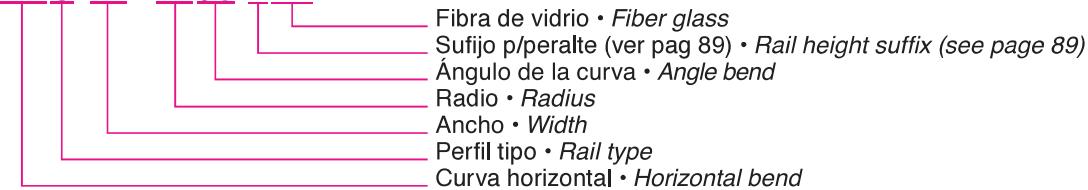
NOTES :

- 762.0 & 914.4 (30" & 36") widths are not available in 457 (18") rung spacing.
- 228.6 & 457.2 (9" & 18") rung space are considered as nominal and they will be adjusted to the straight section length.
- Straight sections are available in 3.05 m & 6.10 m (10' & 20')

Todas las dimensiones en mm (pulg). • All dimensions are in mm (in)

Curva horizontal a 45° y 90° • 45° & 90° Horizontal bend

VHC-12R1290-4FV



Números de catálogo para curva a 90° • 90° Bend's Catalog number

| Ancho W Width W | Radio Radius | | |
|--------------------|-----------------|-------------|-------------|
| | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 152.4 (6) | VHC-06R1290 | VHC-06R2490 | VHC-06R3690 |
| 228.9 (9) | VHC-09R1290 | VHC-09R2490 | VHC-09R3690 |
| 304.8 (12) | VHC-12R1290 | VHC-12R2490 | VHC-12R3690 |
| 406.4 (16) | VHC-16R1290 | VHC-16R2490 | VHC-16R3690 |
| 457.2 (18) | VHC-18R1290 | VHC-18R2490 | VHC-18R3690 |
| 508.0 (20) | VHC-20R1290 | VHC-20R2490 | VHC-20R3690 |
| 609.6 (24) | VHC-24R1290 | VHC-24R2490 | VHC-24R3690 |
| 762.0 (30) | VHC-30R1290 | VHC-30R2490 | VHC-30R3690 |
| 914.4 (36) | VHC-36R1290 | VHC-36R2490 | VHC-36R3690 |

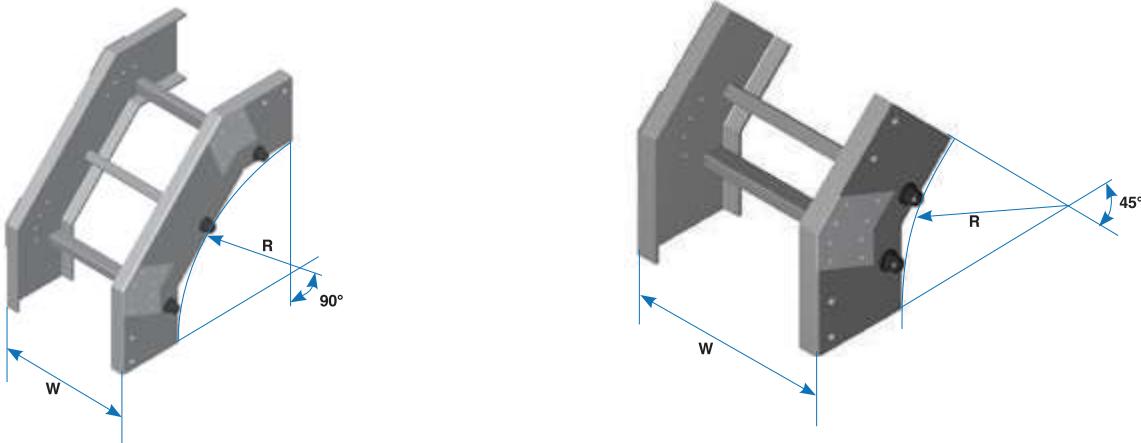
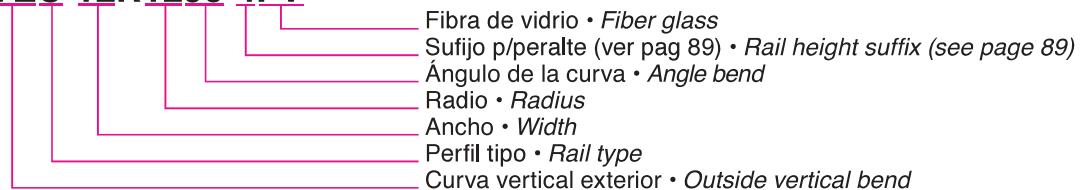
Números de catálogo para curva a 45° • 45° Bend's Catalog number

| Ancho W Width W | Radio Radius | | |
|--------------------|-----------------|-------------|-------------|
| | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 152.4 (6) | VHC-06R1245 | VHC-06R2445 | VHC-06R3645 |
| 228.9 (9) | VHC-09R1245 | VHC-09R2445 | VHC-09R3645 |
| 304.8 (12) | VHC-12R1245 | VHC-12R2445 | VHC-12R3645 |
| 406.4 (16) | VHC-16R1245 | VHC-16R2445 | VHC-16R3645 |
| 457.2 (18) | VHC-18R1245 | VHC-18R2445 | VHC-18R3645 |
| 508.0 (20) | VHC-20R1245 | VHC-20R2445 | VHC-20R3645 |
| 609.6 (24) | VHC-24R1245 | VHC-24R2445 | VHC-24R3645 |
| 762.0 (30) | VHC-30R1245 | VHC-30R2445 | VHC-30R3645 |
| 914.4 (36) | VHC-36R1245 | VHC-36R2445 | VHC-36R3645 |

Incluye conectores y tornillería • Connectors and hardware included
Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Curva vertical exterior a 45° y 90° • 45° & 90° Outside vertical bend

VEC-12R1290-4FV



Números de catálogo para curva a 90° • 90° Bend's Catalog number

| Ancho W Width W | Radio Radius | | |
|--------------------|-----------------|-------------|-------------|
| | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 152.4 (6) | VEC-06R1290 | VEC-06R2490 | VEC-06R3690 |
| 228.9 (9) | VEC-09R1290 | VEC-09R2490 | VEC-09R3690 |
| 304.8 (12) | VEC-12R1290 | VEC-12R2490 | VEC-12R3690 |
| 406.4 (16) | VEC-16R1290 | VEC-16R2490 | VEC-16R3690 |
| 457.2 (18) | VEC-18R1290 | VEC-18R2490 | VEC-18R3690 |
| 508.0 (20) | VEC-20R1290 | VEC-20R2490 | VEC-20R3690 |
| 609.6 (24) | VEC-24R1290 | VEC-24R2490 | VEC-24R3690 |
| 762.0 (30) | VEC-30R1290 | VEC-30R2490 | VEC-30R3690 |
| 914.4 (36) | VEC-36R1290 | VEC-36R2490 | VEC-36R3690 |

Números de catálogo para curva a 45° • 45° Bend's Catalog number

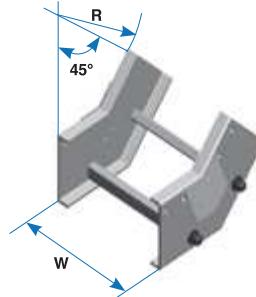
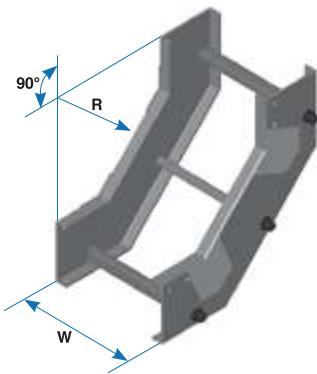
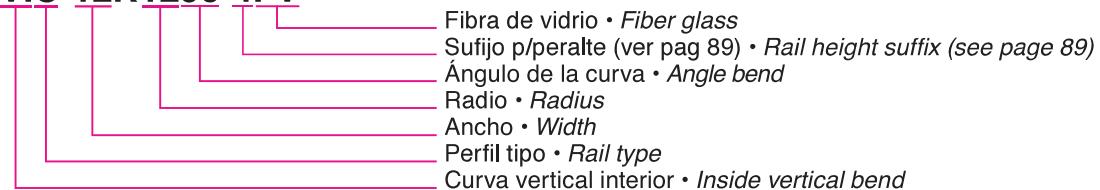
| Ancho W Width W | Radio Radius | | |
|--------------------|-----------------|-------------|-------------|
| | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 152.4 (6) | VEC-06R1245 | VEC-06R2445 | VEC-06R3645 |
| 228.9 (9) | VEC-09R1245 | VEC-09R2445 | VEC-09R3645 |
| 304.8 (12) | VEC-12R1245 | VEC-12R2445 | VEC-12R3645 |
| 406.4 (16) | VEC-16R1245 | VEC-16R2445 | VEC-16R3645 |
| 457.2 (18) | VEC-18R1245 | VEC-18R2445 | VEC-18R3645 |
| 508.0 (20) | VEC-20R1245 | VEC-20R2445 | VEC-20R3645 |
| 609.6 (24) | VEC-24R1245 | VEC-24R2445 | VEC-24R3645 |
| 762.0 (30) | VEC-30R1245 | VEC-30R2445 | VEC-30R3645 |
| 914.4 (36) | VEC-36R1245 | VEC-36R2445 | VEC-36R3645 |

Incluye conectores y tornillería • Connectors and hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Curva vertical interior a 45° y 90° • 45° & 90° Inside vertical bend

VIC-12R1290-4FV



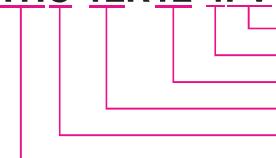
Números de catálogo para curva a 90° • 90° Bend's Catalog number

| Ancho W Width W | Radio Radius | | |
|--------------------|-----------------|-------------|-------------|
| | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 152.4 (6) | VIC-06R1290 | VIC-06R2490 | VIC-06R3690 |
| 228.9 (9) | VIC-09R1290 | VIC-09R2490 | VIC-09R3690 |
| 304.8 (12) | VIC-12R1290 | VIC-12R2490 | VIC-12R3690 |
| 406.4 (16) | VIC-16R1290 | VIC-16R2490 | VIC-16R3690 |
| 457.2 (18) | VIC-18R1290 | VIC-18R2490 | VIC-18R3690 |
| 508.0 (20) | VIC-20R1290 | VIC-20R2490 | VIC-20R3690 |
| 609.6 (24) | VIC-24R1290 | VIC-24R2490 | VIC-24R3690 |
| 762.0 (30) | VIC-30R1290 | VIC-30R2490 | VIC-30R3690 |
| 914.4 (36) | VIC-36R1290 | VIC-36R2490 | VIC-36R3690 |

Números de catálogo para curva a 45° • 45° Bend's Catalog number

| Ancho W Width W | Radio Radius | | |
|--------------------|-----------------|-------------|-------------|
| | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 152.4 (6) | VIC-06R1245 | VIC-06R2445 | VIC-06R3645 |
| 228.9 (9) | VIC-09R1245 | VIC-09R2445 | VIC-09R3645 |
| 304.8 (12) | VIC-12R1245 | VIC-12R2445 | VIC-12R3645 |
| 406.4 (16) | VIC-16R1245 | VIC-16R2445 | VIC-16R3645 |
| 457.2 (18) | VIC-18R1245 | VIC-18R2445 | VIC-18R3645 |
| 508.0 (20) | VIC-20R1245 | VIC-20R2445 | VIC-20R3645 |
| 609.6 (24) | VIC-24R1245 | VIC-24R2445 | VIC-24R3645 |
| 762.0 (30) | VIC-30R1245 | VIC-30R2445 | VIC-30R3645 |
| 914.4 (36) | VIC-36R1245 | VIC-36R2445 | VIC-36R3645 |

Incluye conectores y tornillería • Connectors and hardware included
 Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

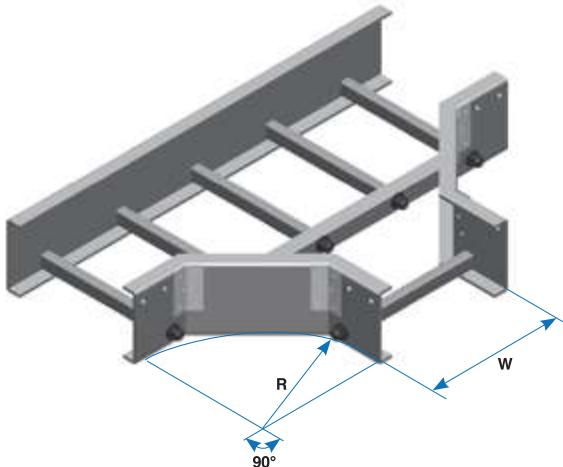
"T" Horizontal • Horizontal tee**THC-12R12-4FV**

Fibra de vidrio • Fiber glass
 Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)
 Radio • Radius
 Ancho • Width
 Perfil tipo • Rail type
 "T" horizontal • Horizontal Tee

Números de catálogo • Catalog number

| Ancho W Width W | Radio Radius | | |
|--------------------|-----------------|------------|------------|
| | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 152.4 (6) | THC-06R12 | THC-06R24 | THC-06R36 |
| 228.9 (9) | THC-09R12 | THC-09R24 | THC-09R36 |
| 304.8 (12) | THC-12R12 | THC-12R24 | THC-12R36 |
| 406.4 (16) | THC-16R12 | THC-16R24 | THC-16R36 |
| 457.2 (18) | THC-18R12 | THC-18R24 | THC-18R36 |
| 508.0 (20) | THC-20R12 | THC-20R24 | THC-20R36 |
| 609.6 (24) | THC-24R12 | THC-24R24 | THC-24R36 |
| 762.0 (30) | THC-30R12 | THC-30R24 | THC-30R36 |
| 914.4 (36) | THC-36R12 | THC-36R24 | THC-36R36 |

Incluye conectores y tornillería • Connectors and hardware included

**"X" Horizontal • Horizontal cross****XHC-12R12-4FV**

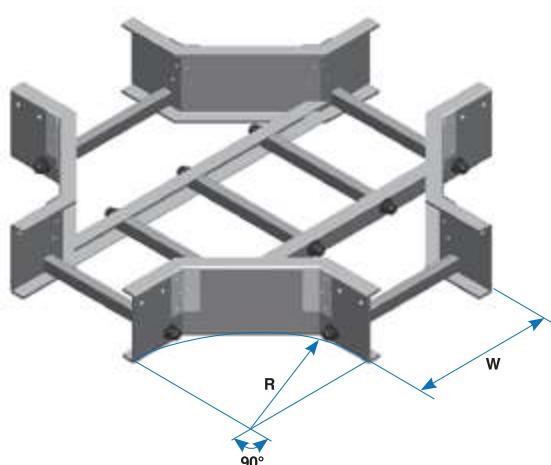
Fibra de vidrio • Fiber glass
 Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)
 Radio • Radius
 Ancho • Width
 Perfil tipo • Rail type
 "X" horizontal • Horizontal cross

Números de catálogo • Catalog number

| Ancho W Width W | Radio Radius | | |
|--------------------|-----------------|------------|------------|
| | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 152.4 (6) | XHC-06R12 | XHC-06R24 | XHC-06R36 |
| 228.9 (9) | XHC-09R12 | XHC-09R24 | XHC-09R36 |
| 304.8 (12) | XHC-12R12 | XHC-12R24 | XHC-12R36 |
| 406.4 (16) | XHC-16R12 | XHC-16R24 | XHC-16R36 |
| 457.2 (18) | XHC-18R12 | XHC-18R24 | XHC-18R36 |
| 508.0 (20) | XHC-20R12 | XHC-20R24 | XHC-20R36 |
| 609.6 (24) | XHC-24R12 | XHC-24R24 | XHC-24R36 |
| 762.0 (30) | XHC-30R12 | XHC-30R24 | XHC-30R36 |
| 914.4 (36) | XHC-36R12 | XHC-36R24 | XHC-36R36 |

Incluye conectores y tornillería • Connectors and hardware included

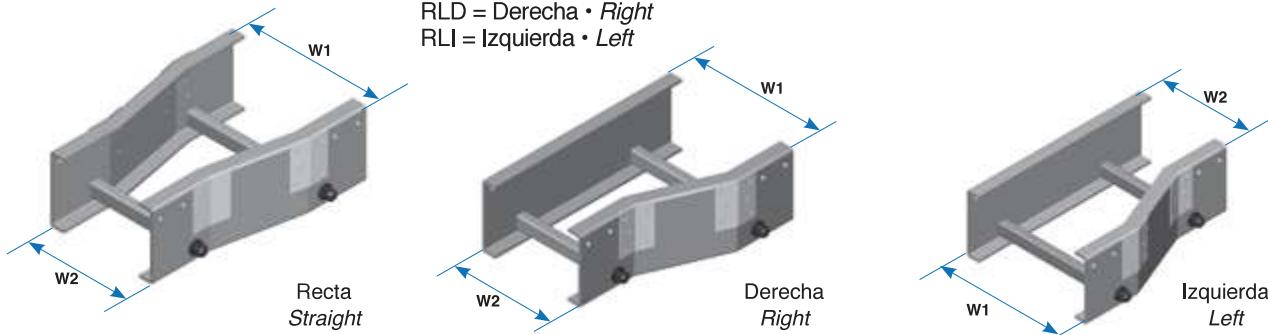
Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)



Reducciones • Reducers

RLC-1209-4FV

Fibra de vidrio • Fiber glass
 Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)
 Ancho menor • Smaller width
 Ancho mayor • Larger width
 Perfil tipo (ver pag 89) • Rail type (see page 89)
 Reducción • Reducer
 RL = Recta • Straight
 RLD = Derecha • Right
 RLI = Izquierda • Left



Nº de catálogo reducciones rectas • Straight reducer catalog number

| Ancho W1 Width W1 | Ancho menor W2 Smaller width W2 | | | | | | | |
|----------------------|------------------------------------|-----------|------------|------------|------------|------------|------------|------------|
| | 152.4 (6) | 228.9 (9) | 304.8 (12) | 406.4 (16) | 457.2 (18) | 508.0 (20) | 609.6 (24) | 762.0 (30) |
| 152.4 (6) | | | | | | | | |
| 228.9 (9) | RLC-0906 | | | | | | | |
| 304.8 (12) | RLC-1206 | RLC-1209 | | | | | | |
| 406.4 (16) | RLC-1606 | RLC-1609 | RLC-1612 | | | | | |
| 457.2 (18) | RLC-1806 | RLC-1809 | RLC-1812 | RLC-1816 | | | | |
| 508.0 (20) | RLC-2006 | RLC-2009 | RLC-2012 | RLC-2016 | RLC-2018 | | | |
| 609.6 (24) | RLC-2406 | RLC-2409 | RLC-2412 | RLC-2416 | RLC-2418 | RLC-2420 | | |
| 762.0 (30) | RLC-3006 | RLC-3009 | RLC-3012 | RLC-3016 | RLC-3018 | RLC-3020 | RLC-3024 | |
| 914.4 (36) | RLC-3606 | RLC-3609 | RLC-3612 | RLC-3616 | RLC-3618 | RLC-3620 | RLC-3624 | RLC-3630 |

Nº de catálogo reducciones derechas • Right reducer catalog number

| Ancho W1 Width W1 | Ancho menor W2 Smaller width W2 | | | | | | | |
|----------------------|------------------------------------|-----------|------------|------------|------------|------------|------------|------------|
| | 152.4 (6) | 228.9 (9) | 304.8 (12) | 406.4 (16) | 457.2 (18) | 508.0 (20) | 609.6 (24) | 762.0 (30) |
| 152.4 (6) | | | | | | | | |
| 228.9 (9) | RLDC-0906 | | | | | | | |
| 304.8 (12) | RLDC-1206 | RLDC-1209 | | | | | | |
| 406.4 (16) | RLDC-1606 | RLDC-1609 | RLDC-1612 | | | | | |
| 457.2 (18) | RLDC-1806 | RLDC-1809 | RLDC-1812 | RLDC-1816 | | | | |
| 508.0 (20) | RLDC-2006 | RLDC-2009 | RLDC-2012 | RLDC-2016 | RLDC-2018 | | | |
| 609.6 (24) | RLDC-2406 | RLDC-2409 | RLDC-2412 | RLDC-2416 | RLDC-2418 | RLDC-2420 | | |
| 762.0 (30) | RLDC-3006 | RLDC-3009 | RLDC-3012 | RLDC-3016 | RLDC-3018 | RLDC-3020 | RLDC-3024 | |
| 914.4 (36) | RLDC-3606 | RLDC-3609 | RLDC-3612 | RLDC-3616 | RLDC-3618 | RLDC-3620 | RLDC-3624 | RLDC-3630 |

Nº de catálogo reducciones izquierdas • Left reducer catalog number

| Ancho W1 Width W1 | Ancho menor W2 Smaller width W2 | | | | | | | |
|----------------------|------------------------------------|-----------|------------|------------|------------|------------|------------|------------|
| | 152.4 (6) | 228.9 (9) | 304.8 (12) | 406.4 (16) | 457.2 (18) | 508.0 (20) | 609.6 (24) | 762.0 (30) |
| 152.4 (6) | | | | | | | | |
| 228.9 (9) | RLIC-0906 | | | | | | | |
| 304.8 (12) | RLIC-1206 | RLIC-1209 | | | | | | |
| 406.4 (16) | RLIC-1606 | RLIC-1609 | RLIC-1612 | | | | | |
| 457.2 (18) | RLIC-1806 | RLIC-1809 | RLIC-1812 | RLIC-1816 | | | | |
| 508.0 (20) | RLIC-2006 | RLIC-2009 | RLIC-2012 | RLIC-2016 | RLIC-2018 | | | |
| 609.6 (24) | RLIC-2406 | RLIC-2409 | RLIC-2412 | RLIC-2416 | RLIC-2418 | RLIC-2420 | | |
| 762.0 (30) | RLIC-3006 | RLIC-3009 | RLIC-3012 | RLIC-3016 | RLIC-3018 | RLIC-3020 | RLIC-3024 | |
| 914.4 (36) | RLIC-3606 | RLIC-3609 | RLIC-3612 | RLIC-3616 | RLIC-3618 | RLIC-3620 | RLIC-3624 | RLIC-3630 |

Incluye conectores y tornillería • Connectors and hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

"T" Vertical • Vertical tee

TVC-12R12-4FV



Fibra de vidrio • Fiber glass

Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)

Radio • Radius

Ancho • Width

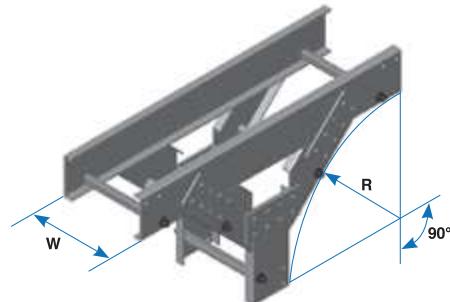
Perfil tipo • Rail type

"T" vertical • Vertical Tee

Nº de catálogo • Catalog number

| Ancho W Width W | Radio Radius | | |
|--------------------|-----------------|------------|------------|
| | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 152.4 (6) | TVC-06R12 | TVC-06R24 | TVC-06R36 |
| 228.9 (9) | TVC-09R12 | TVC-09R24 | TVC-09R36 |
| 304.8 (12) | TVC-12R12 | TVC-12R24 | TVC-12R36 |
| 406.4 (16) | TVC-16R12 | TVC-16R24 | TVC-16R36 |
| 457.2 (18) | TVC-18R12 | TVC-18R24 | TVC-18R36 |
| 508.0 (20) | TVC-20R12 | TVC-20R24 | TVC-20R36 |
| 609.6 (24) | TVC-24R12 | TVC-24R24 | TVC-24R36 |
| 762.0 (30) | TVC-30R12 | TVC-30R24 | TVC-30R36 |
| 914.4 (36) | TVC-36R12 | TVC-36R24 | TVC-36R36 |

Incluye conectores y tornillería • Connectors and hardware included



Curva vertical ajustable • Vertical adjustable bend

VAC-12R12-4FV



Fibra de vidrio • Fiber glass

Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)

Radio • Radius

Ancho • Width

Perfil tipo • Rail type

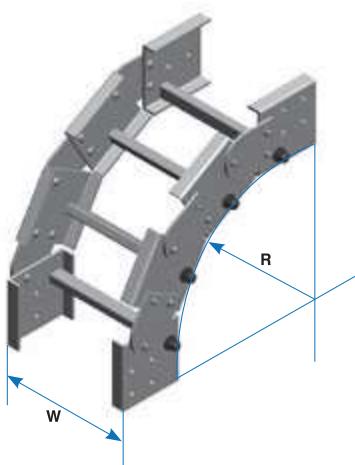
Curva vertical ajustable • Vertical adjustable bend

Nº de catálogo • Catalog number

| Ancho W Width W | Radio Radius | | |
|--------------------|-----------------|------------|------------|
| | 304.8 (12) | 609.6 (24) | 914.4 (36) |
| 152.4 (6) | VAC-06R12 | VAC-06R24 | VAC-06R36 |
| 228.9 (9) | VAC-09R12 | VAC-09R24 | VAC-09R36 |
| 304.8 (12) | VAC-12R12 | VAC-12R24 | VAC-12R36 |
| 406.4 (16) | VAC-16R12 | VAC-16R24 | VAC-16R36 |
| 457.2 (18) | VAC-18R12 | VAC-18R24 | VAC-18R36 |
| 508.0 (20) | VAC-20R12 | VAC-20R24 | VAC-20R36 |
| 609.6 (24) | VAC-24R12 | VAC-24R24 | VAC-24R36 |
| 762.0 (30) | VAC-30R12 | VAC-30R24 | VAC-30R36 |
| 914.4 (36) | VAC-36R12 | VAC-36R24 | VAC-36R36 |

Incluye conectores y tornillería • Connectors and hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)



Conectores • Connectors

AE-4FV



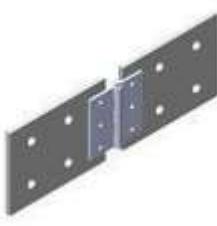
Fibra de vidrio • Fiber glass

Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)

Conejor tipo • Connector type



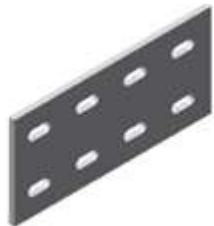
AR Tipo recto
Splice plate AR TYPE



AH Tipo horizontal ajustable
Horizontal adjustable AH TYPE



EA Tipo vertical ajustable
Vertical adjustable EA TYPE



AE Conector de expansión
Expansion connector AE TYPE

Incluye tornillería de acero inoxidable encapsulados en fibra de vidrio • Stainless steel encased in fiber glass bolts included.

Conectores verticales de ángulo fijo • Fixed angle vertical connectors

AV30-4FV

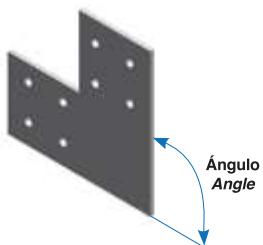


Fibra de vidrio • Fiber glass

Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)

Conejor tipo • Connector type

| Ángulo Angle | Conejor tipo Connector type |
|-----------------|--------------------------------|
| 22.5° | AV22 |
| 30° | AV30 |
| 45° | AV45 |
| 60° | AV60 |
| 90° | AV90 |



Incluye tornillería de acero inoxidable encapsulados en fibra de vidrio • Stainless steel encased in fiber glass bolts included.

Conectores horizontales de ángulo fijo • Fixed angle horizontal connectors

AHF30-4FV

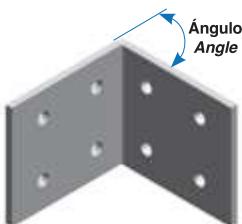


Fibra de vidrio • Fiber glass

Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)

Conejor tipo • Connector type

| Ángulo Angle | Conejor tipo Connector type |
|-----------------|--------------------------------|
| 22.5° | AHF22 |
| 30° | AHF30 |
| 45° | AHF45 |
| 60° | AHF60 |
| 90° | AHF90 |



Incluye tornillería de acero inoxidable encapsulados en fibra de vidrio • Stainless steel encased in fiber glass bolts included.

SUGERENCIA DE USO: El conector AHF90 puede ser usado en pares como CONECTOR A CAJA.

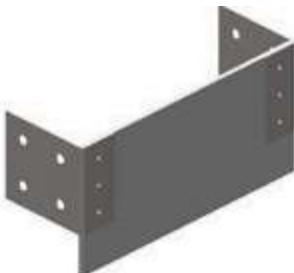
Placa terminal • Blind end**PTR-12-4FV**

Fibra de vidrio • Fiber glass

Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)

Ancho de la charola • Tray width

Tapa terminal • Blind end



Incluye tornillería de acero inoxidable encapsulados en fibra de vidrio • Stainless steel encased in fiber glass bolts included.

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Tapa recta sin ventilación • Non vented flat cover**TR THC-12R12-4FV**

Fibra de vidrio • Fiber glass

Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)

No de catálogo de el producto a recubrir • Covered product catalog number

Tapa recta no ventilada • Non vented flat cover

La longitud de la tapa para tramo recto es de 3.048 m.

Cada tapa para tramo recto incluye 6 clips de sujeción de acero inoxidable.

El número de clips para tapas de accesorios estará en función del accesorio.

For straight section, the cover length is 3.048 m (10 ft) and 6 cover clamps are included.

For fittings the cover clamps quantity is according to the fitting.

**Tapa recta con ventilación • Vented flat cover****TRV THC-12R12-4FV**

Fibra de vidrio • Fiber glass

Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)

No de catálogo de el producto a recubrir • Covered product catalog number

Tapa recta ventilada • Vented flat cover

La longitud de la tapa para tramo recto es de 3.048 m.

Cada tapa para tramo recto incluye 4 pares de juegos de separadores.

El número de clips para tapas de accesorios estará en función del accesorio.

For straight section, the cover length is 3.048 m (10 ft) and 4 pairs cover clamps kits are included.

For fittings the cover clamp quantity is according to the fitting.

The anchorage holes should be field made.



Tapa a dos aguas con ventilación • Vented peaked cover

TA CHC-1209-4FV



Fibra de vidrio • Fiber glass

Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)

No de catálogo de el producto a recubrir • Covered product catalog number

Tapa a dos aguas ventilada • Vented peaked cover

La longitud de la tapa es de 3.048 m.

Este tipo de tapa no está disponible para accesorios.

The cover length is 3.048 m (10 ft) and 4 pairs of kits cover clamps are included.

This cover type is not available for fitting.

The anchorage holes should be field made.



Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Barreras separadoras • Barrier strips

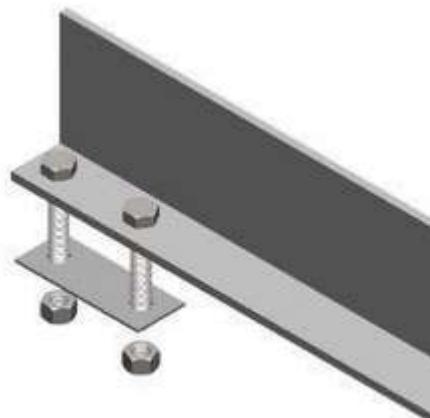
BSCH-4FV



Fibra de vidrio • Fiber glass

Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)

Barrera separadora • Barrier strip



Las barreras separadoras para tramos rectos se surten en Longitudes de 3.048 metros y deberán ser instaladas en campo.

Cada barrera separadora incluye 3 juegos de clips (placa, y tornillería).

Debido a que es imposible determinar con anticipación la posición de la barrera en un accesorio, cuando se requiera se deberá solicitar barreras para tramos rectos y deberán ser cortadas e instaladas en campo.

For straight section, the barrier length is 3.048 m (10 ft) and 3 barrier clamp kits (platter and hardware) are included.

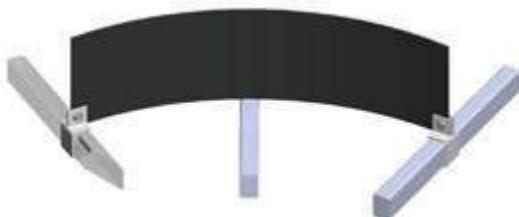
The barriers should be field installed.

Barrera separadora para accesorios horizontales • Horizontal accessories barrier strip

BSH-48 4FV



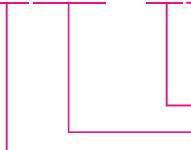
Fibra de vidrio • Fiber glass
 Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)
 Largo en pulgadas (48" y 72") • Length in inches (48" & 72")
 Barrera separadora accesorios horizontales • Horizontal accessories barrier strip



Incluye 3 clips de fijación • Includes 3 fixation clips

Barrera separadora para accesorios verticales • Vertical accessories barrier strip

BSVEC-R1290 4FV



Fibra de vidrio • Fiber glass
 Sufijo p/peralte (ver pag 89) • Rail height suffix (see page 89)
 Ángulo de la curva • Bend angle
 Radio • Radius
 Tipo de curva • Bend type
 Barrera separadora • Barrier strip



Incluye clips de fijación • Fixation clips included

Bajada para cables • Drop out

BC-24R05AI P/FV



Material y acabado • Material & finishes
 Radio de la bajada • Drop out radius
 Ancho de la charola • Tray width
 Bajada para cable • Drop out



No requiere tornillería de fijación • Hardware not needed.

Clema para charola • Hold-down clamp

CLAMP-112AI P/FV



Esta clema es fabricada en acero inoxidable
The clamp is made of stainless steel

CLAMP-112FV



CLAMP GUIA-112FV

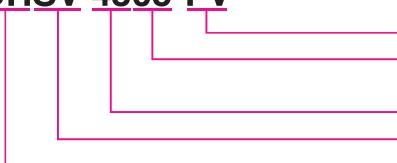


Clemas en fibra de vidrio. Incluyen tornillería en acero inoxidable encapsulada en fibra de vidrio.
Clamps made of fiber glass. Stainless steel fiber glass encased hardware included.

Clema en acero inoxidable, incluye tornillería • Clamp made of stainless steel, hardware included.

Canaleta • Channel tray

CHSV-4305-FV



Fibra de vidrio • Fiber glass

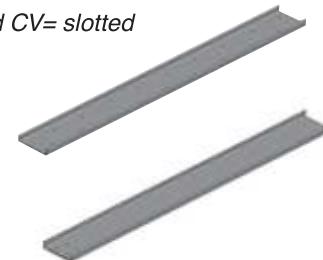
Longitud 305 = 3.048m (10 ft), 610 = 6.096m (20 ft)

Length 305 = 3.048m (10 ft), 610 = 6.096m (20 ft)

Ancho • Width

Tipo SV= liso CV = perforado • Type SV= solid CV= slotted

Canaleta • Channel tray



| Ancho W Width W | Altura P High P | Tipo liso Solid type | | Tipo perforado Slotted type | |
|--------------------|--------------------|-------------------------|---------------|--------------------------------|---------------|
| | | 3.048 (10 ft) | 6.096 (20 ft) | 3.048 (10 ft) | 6.096 (20 ft) |
| 76 (3) | 25 (1) | CHSV-3305FV | CHSV-3610FV | CHCV-3305FV | CHCV-3610FV |
| 102 (4) | 32 (1 1/4) | CHSV-4305FV | CHSV-4610FV | CHCV-4305FV | CHCV-4610FV |
| 152 (6) | 32 (1 1/4) | CHSV-6305FV | CHSV-6610FV | CHCV-6305FV | CHCV-6610FV |
| 203 (8) | 32 (1 1/4) | CHSV-8305FV | CHSV-8610FV | CHCV-8305FV | CHCV-8610FV |
| 254 (10) | 51 (2) | CHSV-10305FV | CHSV-10610FV | CHCV-10305FV | CHCV-10610FV |

Para curvas y derivaciones utilizar los conectores mostrados en la pag 96 donde el ancho del canal equivale al peralte de la charola tipo escalera.
For fittings use the connectors showed in page 96 where the channel tray width is the same as the rail height in ladder tray.

Un conector tipo AR y tornillería incluidos • AR connector type and hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Unicanal de fibra de vidrio. • Fiber glass unistrut

LU-1000FV



Fibra de vidrio • Fiber glass

Tipo unicanal (1000 y 3300) • Channel type (1000 & 3300)

Tramo recto unicanal • Straight channel



Longitud 3.05m • Length: 3.05m.

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Ménsula para montaje en pared • Wall cantilever bracket

MPP-06 FV

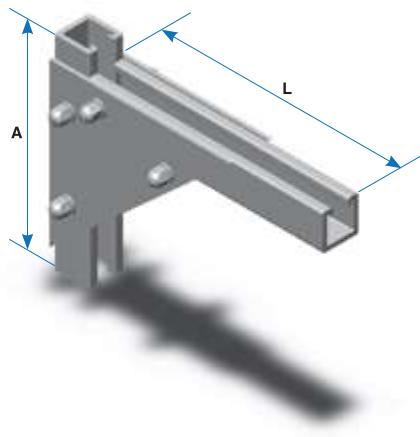


Material y acabado • Material & finishes

Ancho de charola • Cable tray width

Ménsula para pared • Wall supported bracket

| Ancho de charola Tray width | A | No de catálogo Catalog number | L |
|--------------------------------|------------|----------------------------------|--------------|
| 101.6 (4) | | MPP-04 | 165.1 (6.5) |
| 152.4 (6) | 254 (10) | MPP-06 | 215.9 (8.5) |
| 228.9 (9) | | MPP-09 | 292.1 (11.5) |
| 304.8 (12) | | MPP-12 | 368.3 (14.5) |
| 406.4 (16) | | MPP-16 | 469.9 (18.5) |
| 457.2 (18) | | MPP-18 | 520.7 (20.5) |
| 508.0 (20) | 304.8 (12) | MPP-20 | 571.5 (22.5) |
| 609.6 (24) | | MPP-24 | 673.1 (26.5) |
| 762.0 (30) | | MPP-30 | 825.5 (32.5) |
| 914.4 (36) | | MPP-36 | 977.9 (38.5) |



No incluye clemas ni sistemas de fijación. • Hardware, clamps or anchoring system are not included.

Canal horizontal para trapecio • Horizontal channel for support

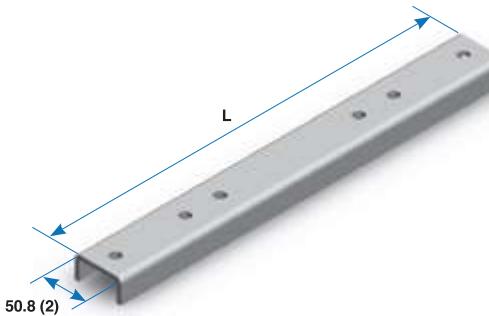
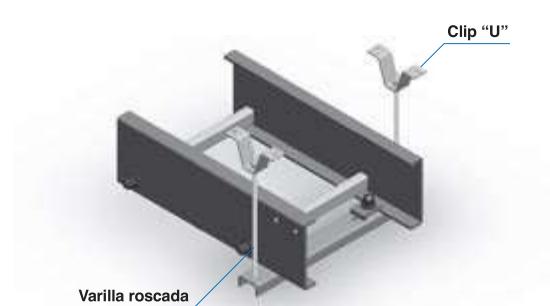
CPV-06FV



Material y acabado • Material & finishes

Ancho de charola • Cable tray width

Canal horizontal para trapecio • Horizontal channel for support



Nº de catálogo • Catalog number

| Canal horizontal profundo Deep horizontal channel | Ancho de charola Tray width | L |
|--|--------------------------------|--------------|
| CPV-04 | 101.6 (4) | 216 (8.50) |
| CPV-06 | 152.4 (6) | 267 (10.50) |
| CPV-09 | 228.9 (9) | 343 (13.50) |
| CPV-12 | 304.8 (12) | 419 (16.50) |
| CPV-16 | 406.4 (16) | 521 (20.50) |
| CPV-18 | 457.2 (18) | 572 (22.50) |
| CPV-20 | 508.0 (20) | 622 (24.50) |
| CPV-24 | 609.6 (24) | 724 (28.50) |
| CPV-30 | 762.0 (30) | 876 (34.50) |
| CPV-36 | 914.4 (36) | 1029 (40.50) |

No incluye tornillería, varillas, clips "U" ni sistemas de fijación. • Hardware, threaded rods or anchoring systems are not included.

Sección 4.6

Soportes para cables tipo marino

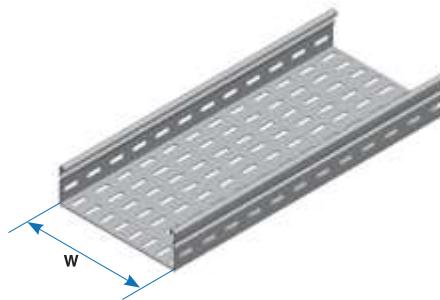
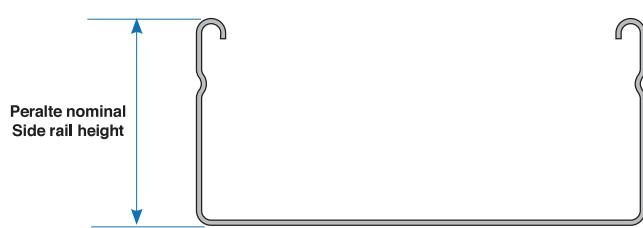
Section 4.6

Marine type cable tray system.

Tramo recto • Straight section

CHM-100-35GI

Material y acabado • Material & finishes
Sufijo p/peralte • Rail height suffix
Ancho • Width
Tipo marino • Marine type
Tramo recto • Straight section



Nº de catálogo • Catalog number

| Ancho W Width W | Peralte Side rail height | | | |
|--------------------|-----------------------------|------------|------------|-------------|
| | 35 | 60 | 85 | 110 |
| 100 | CHM-100-35 | CHM-100-60 | CHM-100-85 | CHM-100-110 |
| 200 | CHM-200-35 | CHM-200-60 | CHM-200-85 | CHM-200-110 |
| 300 | CHM-300-35 | CHM-300-60 | CHM-300-85 | CHM-300-110 |
| 400 | | CHM-400-60 | CHM-400-85 | CHM-400-110 |
| 500 | | CHM-500-60 | CHM-500-85 | CHM-500-110 |
| 600 | | CHM-600-60 | CHM-600-85 | CHM-600-110 |

Longitud estándar 3.0 m.

Para longitudes diferentes consulte nuestro departamento de técnico.

Standard length 3.000 m

For any other length please contact our technical department

Incluye conector(es) y tornillería.

Connector(s) and hardware included

Materiales y acabados:

- A: Aluminio aleación AA-3003 acabado natural
- Gl: Lámina galvanizada
- Al: Acero inoxidable

Para materiales y acabados no indicados consulte nuestro departamento de ingeniería.

Todas las dimensiones en mm (pulg)

Materials & finishes:

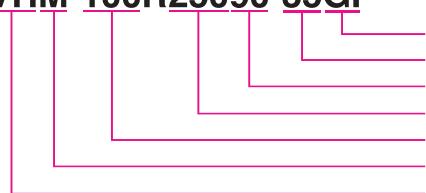
- A: AA-3003 natural finished aluminum
- Gl: Galvanized sheet
- Al: Stainless steel

For materials and finishes not shown please consult our technical department.

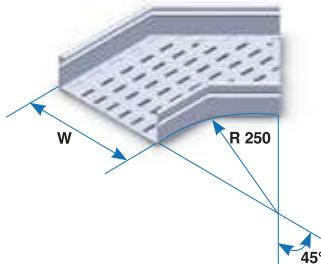
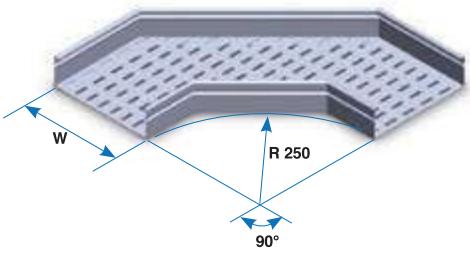
All dimensions are in mm (in)

Curva horizontal a 45° y 90° • 45° & 90° Horizontal bend

VHM-100R25090-35GI



Material y acabado (ver pag 102) • Material & finish (see page 102)
 Sufijo p/peralte (ver pag 102) • Rail height suffix (see page 102)
 Ángulo de la curva • Angle bend
 Radio (disponible en 250) • Radius (available in 10")
 Ancho • Width
 Tipo marino • Marine type
 Curva horizontal • Horizontal bend

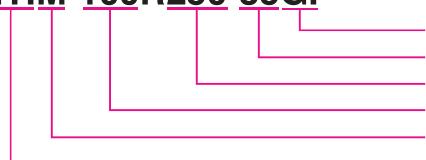


| Ancho W Width W | Ángulo Angle | |
|--------------------|-----------------|---------------|
| | 45° | 90° |
| 100 | VHM-100R25045 | VHM-100R25045 |
| 200 | VHM-200R25045 | VHM-200R25045 |
| 300 | VHM-300R25045 | VHM-300R25045 |
| 400 | VHM-400R25045 | VHM-400R25045 |
| 500 | VHM-500R25045 | VHM-500R25045 |
| 600 | VHM-600R25045 | VHM-600R25045 |

Incluye conector(es) y tornillería • Connector(s) and hardware included

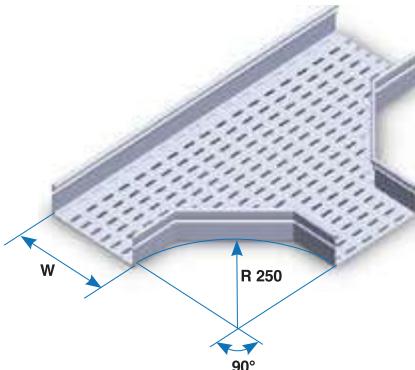
“T” Horizontal • Horizontal “TEE”

THM-100R250-35GI



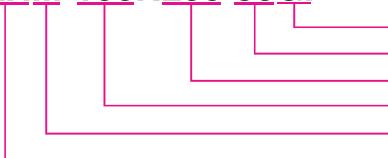
Material y acabado (ver pag 102) • Material & finish (see page 102)
 Sufijo p/peralte (ver pag 102) • Rail height suffix (see page 102)
 Radio (disponible en 250) • Radius (available in 10")
 Ancho • Width
 Tipo marino • Marine type
 “T” horizontal • Horizontal “Tee”

| No. de catálogo Catalog number | Ancho W Width W |
|-----------------------------------|--------------------|
| THM-100R250 | 100 |
| THM-200R250 | 200 |
| THM-300R250 | 300 |
| THM-400R250 | 400 |
| THM-500R250 | 500 |
| THM-600R250 | 600 |



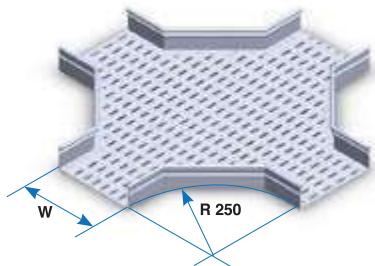
"EQUIS" Horizontal • Horizontal cross

XHM-100R250-35GI



Material y acabado (ver pag 102) • Material & finish (see page 102)
 Sufijo p/veralte (ver pag 102) • Rail height suffix (see page 102)
 Radio (disponible en 250) • Radius (available in 10")
 Ancho • Width
 Tipo marino • Marine type
 Equis horizontal • Horizontal cross

| No. de catálogo Catalog number | Ancho W Width W |
|-----------------------------------|--------------------|
| XHM-100R250 | 100 |
| XHM-200R250 | 200 |
| XHM-300R250 | 300 |
| XHM-400R250 | 400 |
| XHM-500R250 | 500 |
| XHM-600R250 | 600 |

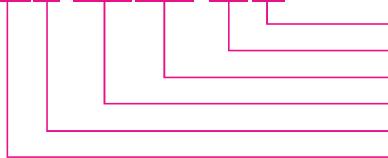


Incluye conector(es) y tornillería • Connector(s) and hardware included

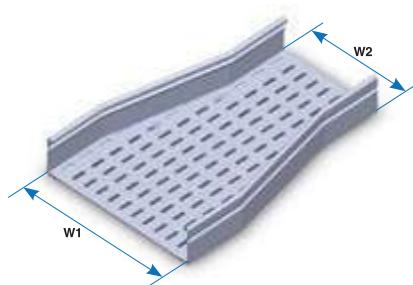
Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Reducciones • Reducer

RLM-300200-35GI



Material y acabado (ver pag 102) • Material & finish (see page 102)
 Sufijo p/veralte (ver pag 102) • Rail height suffix (see page 102)
 Ancho menor • Smallest width
 Ancho mayor • Largest width
 Tipo marino • Marine type
 Reducción • Reducer



Nº de catálogo reducciones rectas • Straight reducer catalog number

| Ancho W1 Width W1 | Ancho menor W2 Smallest width W2 | | | | |
|----------------------|-------------------------------------|------------|------------|------------|------------|
| | 100 | 200 | 300 | 400 | 500 |
| 200 | RLM-200100 | | | | |
| 300 | RLM-300100 | RLM-300200 | | | |
| 400 | RLM-400100 | RLM-400200 | RLM-400300 | | |
| 500 | RLM-500100 | RLM-500200 | RLM-500300 | RLM-500400 | |
| 600 | RLM-600100 | RLM-600200 | RLM-600300 | RLM-600400 | RLM-600500 |

Incluye conector(es) y tornillería • Connector(s) and hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

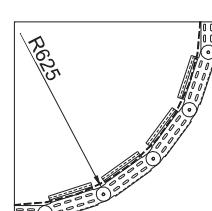
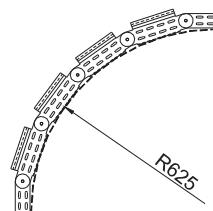
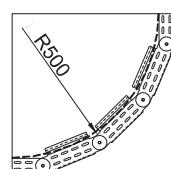
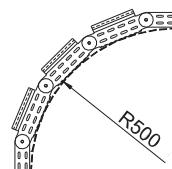
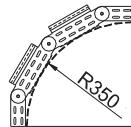
Curva vertical ajustable • Vertical adjustable bend

VAM-100R200-35GI

Material y acabado (ver pag 102) • Material & finish (see page 102)
 Sufijo p/veralte (ver pag 102) • Rail height suffix (see page 102)
 Radio • Radius
 Ancho • Width
 Tipo marino • Marine type
 Curva vertical ajustable • Vertical adjustable bend

Cantidad de elementos ajustables • Adjustable element quantity

| Radio Radius | Elementos ajustables Adjustable elements |
|-----------------|---|
| 200 | 1 |
| 350 | 2 |
| 500 | 3 |
| 625 | 4 |



Incluye 4 conectores EACM con tornillería • Four EACM connectors and hardware included

Elemento vertical ajustable • Vertical adjustable element

VAM-10035GI

Material y acabado (ver pag 102) • Material & finish (see page 102)
 Sufijo p/veralte (ver pag 102) • Rail height suffix (see page 102)
 Ancho • Width
 Tipo marino • Marine type
 Elemento vertical ajustable • Vertical adjustable element

| No. de catálogo Catalog number | Ancho W Width W |
|-----------------------------------|--------------------|
| VAM-100R250 | 100 |
| VAM-200R250 | 200 |
| VAM-300R250 | 300 |
| VAM-400R250 | 400 |
| VAM-500R250 | 500 |
| VAM-600R250 | 600 |



No incluye conectores ni tornillería • Connectors and hardware are not included

Conector vertical ajustable • Vertical adjustable connector

EACM-35GI

Material y acabado (ver pag 102) • Material & finish (see page 102)
 Sufijo p/veralte (ver pag 102) • Rail height suffix (see page 102)
 Tipo marino • Marine type
 Conector para curva vertical ajustable • Vertical adjustable bend connector



Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Incluye tornillería • Hardware included

Tapas • Covers

TCV THM-100R250-GI



Material y acabado (ver pag 102) • Material & finish (see page 102)
No de catálogo del producto a cubrir • Covered product catalog number
Tapa con ceja y vena • Flanged and streaked cover



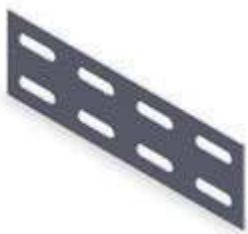
No requiere clips o tornillería • Clamps and hardware are not required

Conectores • Connectors

ARM-35GI



Material y acabado (ver pag 102) • Material & finish (see page 102)
Sufijo p/peralte (ver pag 102) • Rail height suffix (see page 102)
Tipo marino • Marine type
Conector tipo • Connector type



AR Tipo recto
Splice plate AR TYPE



AH Tipo horizontal ajustable
Horizontal adjustable AH TYPE

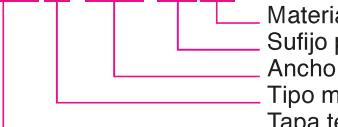


EA Tipo vertical ajustable
Vertical adjustable EA TYPE

Incluye tornillería • Hardware included

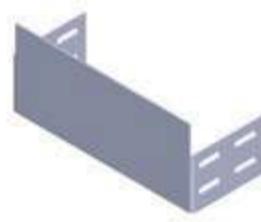
Tapa terminal • Blind end

PTRM-100-35GI



Material y acabado (ver pag 102) • Material & finish (see page 102)
Sufijo p/peralte (ver pag 102) • Rail height suffix (see page 102)
Ancho • Width
Tipo marino • Marine type
Tapa terminal • Blind end

| No. de catálogo Catalog number | Ancho W Width W |
|-----------------------------------|--------------------|
| PTRM-100 | 100 |
| PTRM-200 | 200 |
| PTRM-300 | 300 |
| PTRM-400 | 400 |
| PTRM-500 | 500 |
| PTRM-600 | 600 |



Incluye tornillería • Hardware included

Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Sección 4.7

Soportería para cables tipo malla

Los sistemas de soportería para cables tipo malla fabricados por CROSS LINE son desarrollos pensados para instalaciones de control, señalización e iluminación, donde se requieren cargas bajas, como son: tiendas de autoservicio, cuartos de máquinas, cuartos de control, edificios inteligentes, cableados estructurados y toda aplicación donde no se presenten riesgos de daños a cables.

Los sistemas de soportería para cables tipo malla de CROSS LINE están fabricados de filamentos de acero longitudinales, de alta resistencia a la tensión, estos filamentos son unidos entre sí mediante filamentos transversales que le dan cohesión y rigidez al sistema.

El diseño exclusivo de CROSS LINE cuenta en la parte superior con filamentos continuos brindando flexibilidad ante cargas excesivas evitando el colapso del sistema.

Debido a la característica anterior existen señales visuales de que el sistema está sobrecargado y puede corregirse la carga, aun sin presentarse la falla del sistema.

Al evitarse el colapso, el sistema es más seguro que los sistemas rígidos.

El diseño del filamento superior evita la caída de los cables durante la instalación haciéndola más rápida y eficaz.

La posición del filamento superior evita el daño al aislamiento de los cables.

El diseño de la varilla continua, así como la geometría del mismo permiten que este funcione como rodillo haciendo más fácil el jalado de los cables durante la instalación.

Al ser ventilados los cables, permiten una mayor capacidad de conducción.

Permiten la acometida de cables tanto por la parte superior como inferior y lateral.

Son de fácil instalación y las modificaciones, así como derivaciones y curvas pueden realizarse en campo con herramientas mínimas.

El sistema es muchísimo más ligero que los sistemas rígidos ahorrando en anclaje, estructuración y sistemas de apoyo.

Por esta y muchas razones más:

Section 4.7

Wire mesh type cable tray system

CROSS LINE's wire mesh type cable tray system was designed thinking in control, signal and lighting electrical installation where light loads are required. Ideal for stores, control rooms, machines rooms, intelligent buildings, structural cabling and all applications where cables aren't in risk of damage.

CROSS LINE's wire mesh type cable tray system are made of high strength resistance steel, longitudinal filaments are joined for transversal wires providing cohesion and rigidity to the system.

CROSS LINE's wire mesh cable trays design have a filament in the top of the tray which gives high flexibility when the system is excessively loaded, preventing system's failure.

This filament makes possible to see when the system is overloaded. So this system is safer than rigid systems because it can't be overloaded. It also prevents insulation damage during installation.

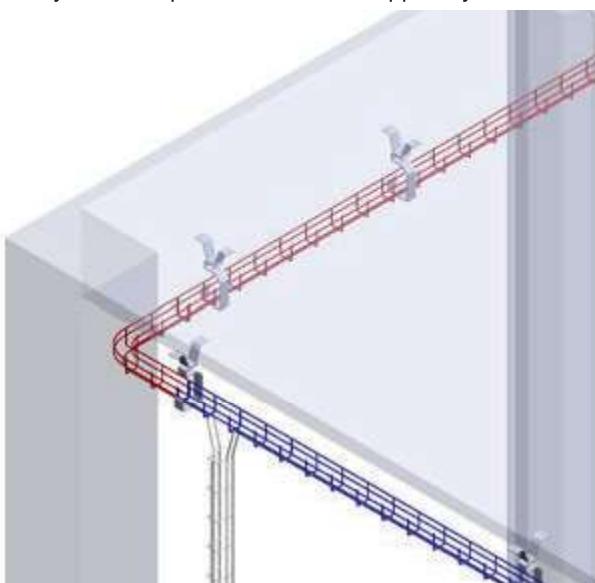
This system makes installation and maintenance an easy and fast task.

The filament's position and form makes a roll bar function, enabling an easy installation while pulling cables

As this system is vented, it provides a wider conduction capacity. Moreover it makes possible to drop out cables from all positions, top, bottom and sides.

Installation and assembly needs are really easy to fulfill as fittings are field made with a minimum of tools.

This system is lighter than rigid systems offering to you a cheaper structural and support system.



Tramo recto • Straight section

CL-10030GI



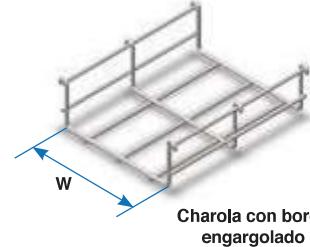
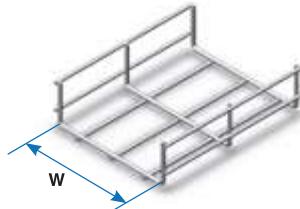
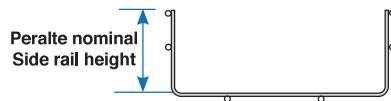
Material y acabado • Material & finish
Sufijo p/peralte • Rail height suffix
Ancho • Width
Tramo recto • Straight section

Nº de catálogo • Catalog number

| Ancho W Width W | Peralte Height | | |
|--------------------|-------------------|----------|-----------|
| | 30 | 55 | 105 |
| 50 | CL-5030 | CL-5055 | |
| 100 | CL-10030 | CL-10055 | |
| 150 | CL-15030 | CL-15055 | |
| 200 | CL-20030 | CL-20055 | CL-200105 |
| 300 | CL-30030 | CL-30055 | CL-300105 |
| 450 | | CL-45055 | CL-450105 |
| 600 | | | CL-600105 |

Longitud estandard 3.000 m • Standard length 3.000 m

Se puede solicitar con borde de seguridad engargolado. • It can be ordered with seamed safety edge.



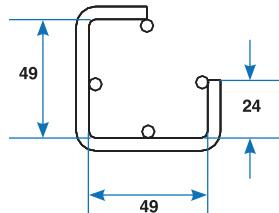
Charola con borde engargolado

Mini-CL • Mini-CL



Los accesorios se fabrican a partir de tramos rectos en campo, por tanto no se ofrecen en este catálogo.

Conectores y tornillería no se incluyen, estos deberán ser solicitados por separado de acuerdo a los accesorios que serán fabricados en campo.



Fittings not showed should be field made using straight sections.

Neither connectors nor hardware are included, they should be requested according to the fitting you will make in field.

Materiales y acabados:

GI: Acero al carbón Galvanizado por Inmersión en caliente

GE: Acero al carbón Galvanizado Electrolítico

T: Acero al carbón Tropicalizado

PVC: Acero al carbón Recubierto con PVC según NEMA RN 1

AI: Acero inoxidable

P: Pintura electrostática (Ver gama de colores)

Para materiales y acabados no indicados consulte nuestro departamento de ingeniería

Todas las dimensiones en mm (pulg)

Materials & finishes:

GI: Hot dip galvanized steel

GE: Electro galvanized steel

T: Chromium-zinc coated steel

PVC: PVC coated steel under NEMA RN 1

AI: Stainless steel

P: Electrostatic paint (See color pattern)

For materials and finishes not shown please consult our technical department

All dimensions are in mm (in)

Conectores universales • Standard connectors

CUCL-01

Cada conector incluye • Each connector includes

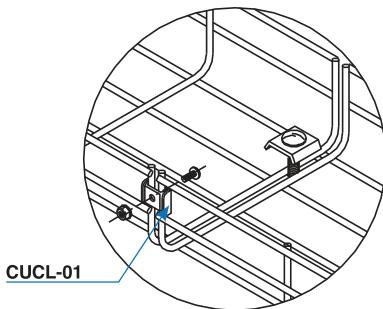
| No. de catálogo Catalog number | Pieza 1 <i>Ditto 1</i> | Pieza 2 <i>Ditto 2</i> |
|-----------------------------------|---------------------------|---------------------------|
| CUCL-01 | CE-25 | CE-30 |



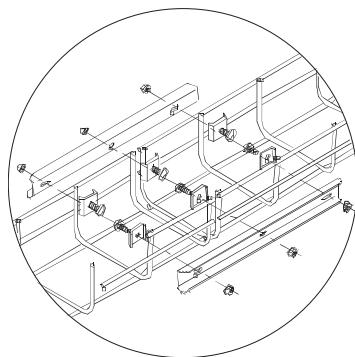
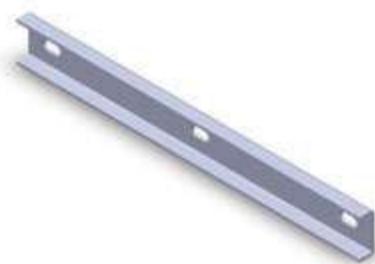
Los conectores pueden ser solicitados por juego (CUCL) o por partes (CE)

Ambos conectores incluyen tornillería cuando son solicitados en juego

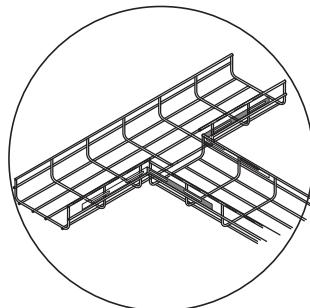
Al final del número de catálogo indicar material y acabado (ver página 108)

*Connectors can be requested in kit (CUCL) or in parts (CE)**Hardware included when they are requested in kit**At the end of the catalog number add material and finish (see page 108)*

Conector reforzado • Reinforced connector

AEDTNo incluye conectores ni tornillería • *Hardware and connectors are not included*Al final del número de catálogo indicar material y acabado (ver página 108) • *At the end of the catalog number add material and finish (see page 108)*

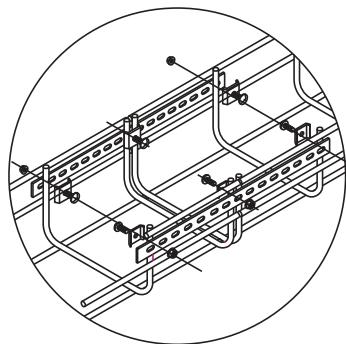
Conector angular • Angle connector

AT 90No incluye conectores ni tornillería • *Hardware and connectors are not included*Al final del número de catálogo indicar material y acabado (ver página 108) • *At the end of the catalog number add material and finish (see page 108)*

Conectores rectos • Long splice plate

AD 275

AD 75

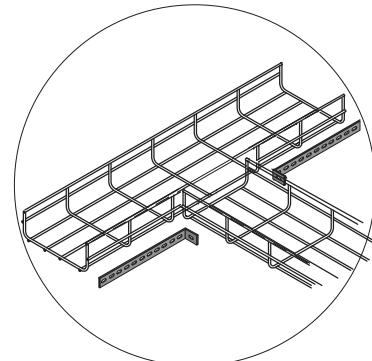
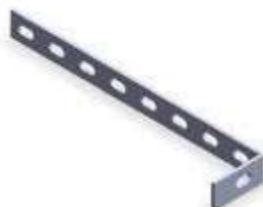


No incluye conectores ni tornillería • *Hardware and connectors are not included*

Al final del número de catálogo indicar material y acabado (ver página 108) • *At the end of the catalog number add material and finish (see page 108)*

Conectores angular corto • Small angular connector

AD 250/90

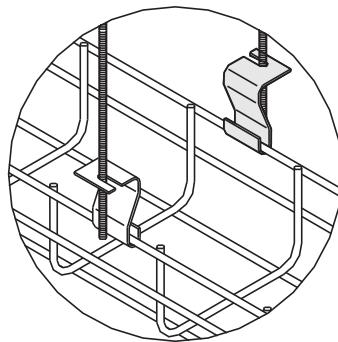


No incluye conectores ni tornillería • *Hardware and connectors are not included*

Al final del número de catálogo indicar material y acabado (ver página 108) • *At the end of the catalog number add material and finish (see page 108)*

Clip colgante • Hanger clamp

AS



No incluye varilla • *Rod not included*

Al final del número de catálogo indicar material y acabado (ver página 108) • *At the end of the catalog number add material and finish (see page 108)*

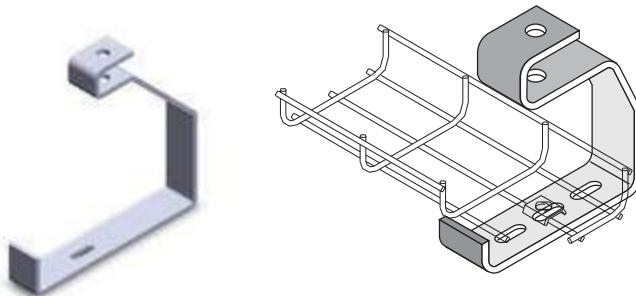
Todas las dimensiones en mm (pulg) • *All dimensions are in mm (in)*

Soporte colgante • Hanger support

SCCL-100GI

Material y acabado (ver pag 108) • Material & finish (see page 108)
 Ancho • Width
 Colgador • Hanger

| Ancho charola Tray width | No. de catálogo Catalog number |
|-----------------------------|-----------------------------------|
| 50 | SCCL-50 |
| 100 | SCCL-100 |
| 150 | SCCL-150 |
| 200 | SCCL-200 |
| 300 | SCCL-300 |
| 450 | SCCL-450 |
| 600 | SCCL-600 |

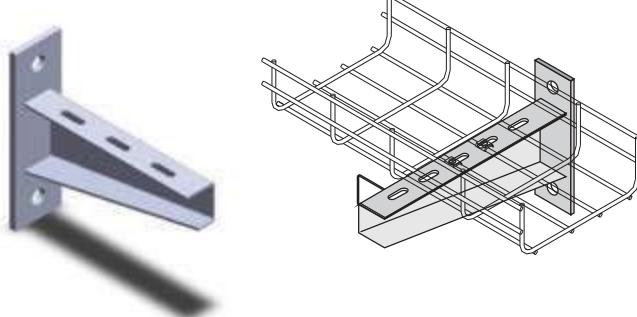


Ménsula para pared • Wall cantilever bracket

CRP-100GI

Material y acabado (ver pag 108) • Material & finish (see page 108)
 Ancho • Width
 Ménsula para charola de malla • Wire mesh tray bracket

| Ancho charola Tray width | No. de catálogo Catalog number |
|-----------------------------|-----------------------------------|
| 50 | CRP-50 |
| 100 | CRP-100 |
| 150 | CRP-150 |
| 200 | CRP-200 |
| 300 | CRP-300 |
| 450 | CRP-450 |
| 600 | CRP-600 |

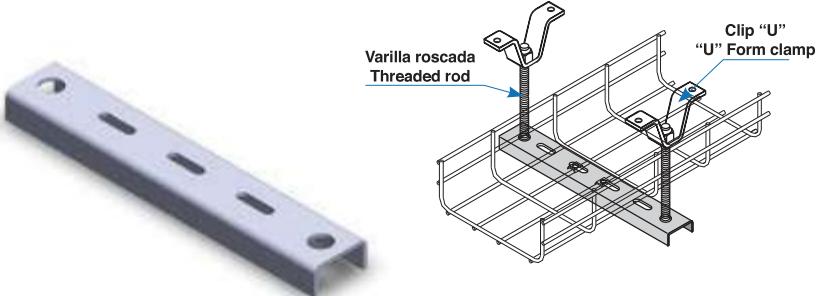


Canal horizontal para trapecio • Horizontal channel for trapeze support

CS-100GI

Material y acabado (ver pag 108) • Material & finish (see page 108)
 Ancho • Width
 Canal horizontal charola de malla • Wire mesh tray horizontal channel

| Ancho charola Tray width | No. de catálogo Catalog number |
|-----------------------------|-----------------------------------|
| 50 | CS-50 |
| 100 | CS-100 |
| 150 | CS-150 |
| 200 | CS-200 |
| 300 | CS-300 |
| 450 | CS-450 |
| 600 | CS-600 |



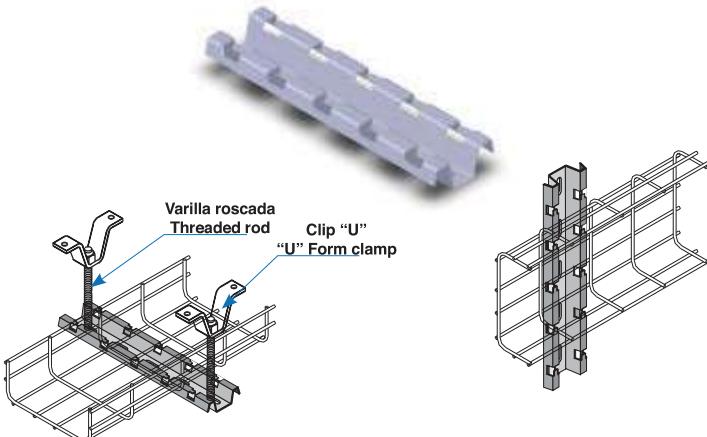
No incluye tornillería, varillas, clips "U" ni sistemas de fijación • Hardware, "U" clamp, threaded rods or anchoring systems are not included.
 Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Canal universal • Universal channel

UCSN-500GI

Material y acabado (ver pag 108) • Material & finish (see page 108)
 Longitud • Length
 Canal universal • Universal channel

| Longitud del canal Channel length | No. de catálogo Catalog number |
|--------------------------------------|-----------------------------------|
| 150 | UCSN-150 |
| 200 | UCSN-200 |
| 300 | UCSN-300 |
| 400 | UCSN-400 |
| 500 | UCSN-500 |
| 600 | UCSN-600 |
| 1000 | UCSN-1000 |
| 2000 | UCSN-2000 |
| 3000 | UCSN-3000 |

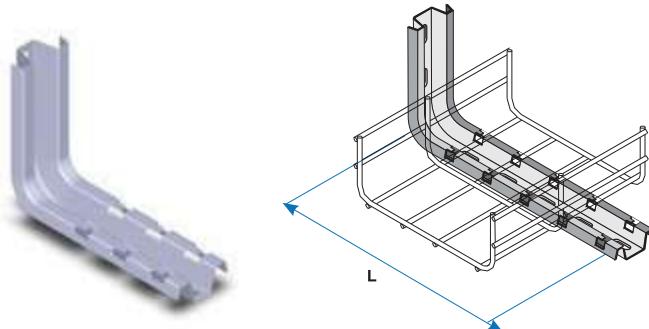


No incluye tornillería, varillas, clips "U" ni sistemas de fijación • Hardware, "u" clamp, threaded rods or anchoring systems are not included

Ménsula de ensamble rápido • Fast assembly bracket

MSNC

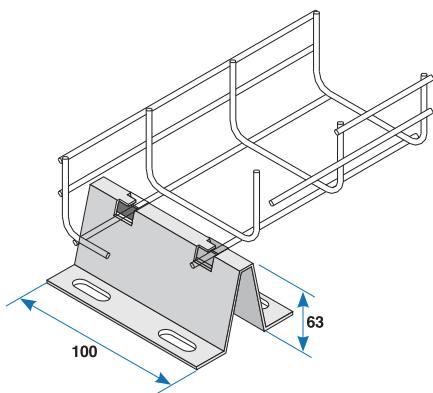
| No. de catálogo Catalog number | Longitud L Length L |
|-----------------------------------|------------------------|
| MSNC-100 | 178 |
| MSNC-150 | 228 |
| MSNC-200 | 278 |
| MSNC-300 | 378 |
| MSNC-450 | 528 |
| MSNC-600 | 678 |



Al final del número de catálogo indicar material y acabado (ver página 108) • At the end of the catalog number add material and finish (see page 108)

Soporte para piso • Floor support

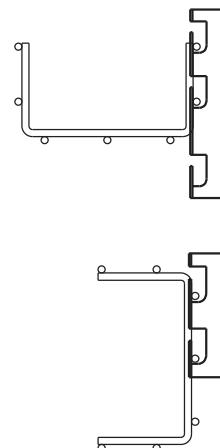
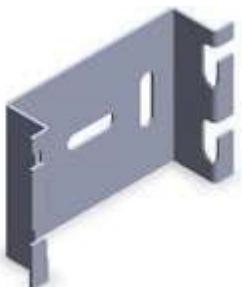
SPCL



Al final del número de catálogo indicar material y acabado (ver página 108) • At the end of the catalog number add material and finish (see page 108)
 Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)

Soporte a muro o caja • Wall or box support

CM-55
CM-55XL



Al final del número de catálogo indicar material y acabado (ver página 108) • At the end of the catalog number add material and finish (see page 108)

Tapas • Covers

TCCL-100GI

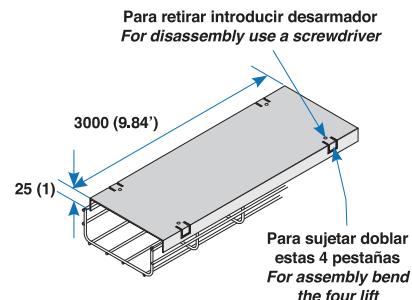
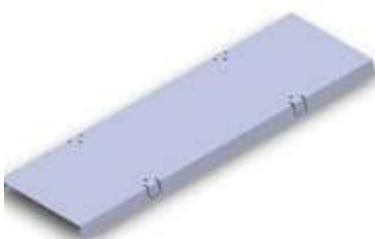


Material y acabado (ver pag 108) • Material & finish (see page 108)

Ancho • Width

Tapa con ceja para charola tipo malla • Flanged cover for wire mesh tray

| No. de catálogo Catalog number | Ancho charola Tray width |
|-----------------------------------|-----------------------------|
| TCCL-50 | 50 |
| TCCL-100 | 100 |
| TCCL-150 | 150 |
| TCCL-200 | 200 |
| TCCL-300 | 300 |
| TCCL-450 | 450 |
| TCCL-600 | 600 |

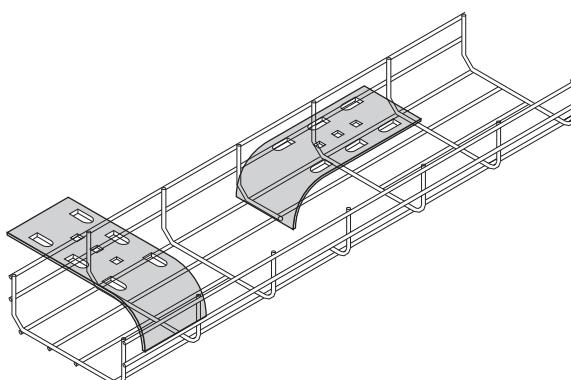


Debido a que en charola tipo malla las derivaciones se realizan a partir de tramos rectos, las tapas para derivaciones deberán obtenerse a partir de tapas rectas.

Fitting covers should be field made using straight section covers.

Bajada para cable • Drop out

BCL-10R50



Al final del número de catálogo indicar material y acabado (ver página 108) • At the end of the catalog number add material and finish (see page 108)
Todas las dimensiones en mm (pulg) • All dimensions are in mm (in)