SUPPORT SYSTEMS ENGINEERING CATALOG

WESANCO FLORIDA STRUT VERSABAR HYDRA-ZORB

ZSI-FOSTER.COM

ITG-S1

IDEAL TRIDON GROUP

The **Ideal Tridon Group** has comprehensive offerings of highly engineered critical components used in supporting, securing, and connecting the movement of air, fluid, and electricity in critical applications. We are a growing family of brands, all known for their superior subject matter expertise.

Our Products

Hose clamps • Strut & Support Systems • Hose Fittings & Couplings • & more!

Our Values

Devotion to Customers • Passion for Growth • Outstanding Quality

Support. Secure. Connect.

Our Brands

Ideal Tridon® is a leading global engineering solutions designer and manufacturer of stainless steel and specialty clamps for a broad range of fastening and sealing applications across diverse end markets.

ZSi-Foster® serves a diverse set of end markets by offering a broad portfolio of highly engineered clamp, coupling, and support systems. With a deep product portfolio of advanced clamps, quality quick disconnects, and superior steel strut and accessories, ZSi-Foster has everything an industrial project requires.

Wesanco®, Florida Strut, and Versabar are three of the U.S.'s leading manufacturers of strut and support systems. Their combined engineering capabilities and experienced personnel enable them to provide you with solution to meet almost any strut need.

Hydra-Zorb® is an industry leader in pipe, hose, and tube clamping for the hydraulic, HVAC, plumbing, and refrigeration markets. Widely recognized for the invention of the cushioned clamp, Hydra-Zorb's continued innovation and focus on quality and service has driven the company's success supporting industrial customers throughout the United States and Canada.

Campbell Fittings® is a manufacturer of hose fittings, couplings, ferrules, and sleeves. Campbell combines unique design features with engineered hose attachment technology, called Crimpnology™. Crimpnology provides hose system performance and safety unmatched in the industry.

Tridon Europe is the European subsidiary of Tridon. Covering the entire EMEA region, it is supported by a manufacturing facility in Kudowa, Poland. Tridon Europe offers high quality worm gear, T-bolt, band, strut, and specialty clamps for OE and industrial needs.

Clamp SRL is our Italian clamping specialist, delivering clamping and cabling applications. Offering fast and on-time delivery for both OEM's and distributors, the company is supported by experienced personnel, and technologically advanced logistics with automated vertical warehouses.

MPC® Industries is part of Tridon Europe and offers the MPC® uniting product line that includes worm drive clamps, pipe connectors in assorted sizes, and custom solutions. Each product is adaptable to a wide range of industries and applications.

Product Part Number Dimension Tables

Below is an example part number dimension table used throughout this catalog. This table shows all three Metal Framing companies in Ideal Tridon Group. All parts are available thru your ITG representative regardless of which brand has that size of product.

FLORIDA STRUT	VERSABAR	WESANCO	Dimension Data Information
--	EB20A50	W6442	½" *(13mm)*
EF220075	EB20A75	--	¾" *(19mm)*

See page 25 for Material or Finish ordering codes for use in part numbers.

Below is an example part number dimension table used throughout this catalog. These are ZSi-Foster Products All parts are available thru your ITG representative.

Part No.	Nominal Pipe Size	Dimensions	
		"A"	"B"
CG-10	¼"	1-15/16" *(49mm)*	1-15/16" *(49mm)*
CG-20	⅜"	2-⅜" *(60mm)*	2-⅜" *(60mm)*

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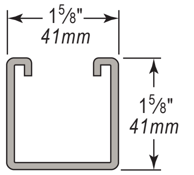
Channel

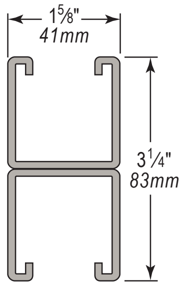
Channel

Channel Information

1⅝" x 1⅝" *(41 x 41mm)* 12, 14, & 16 Gauge



1⅝" x 3¼" *(41 x 83mm)* 12, 14 & 16 Gauge



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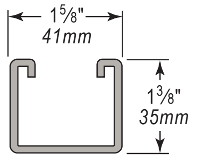
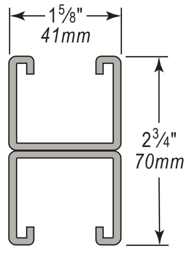
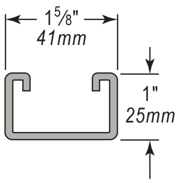


1⅝" x 2¾" *(41 x 70mm)* 12 & 14 Gauge



1⅝" x 1" *(41 x 25mm)* 12 & 14 Gauge



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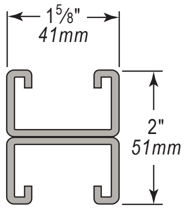
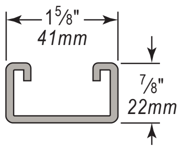


1⅝" x ⅞" *(41 x 22mm)* 12 Gauge



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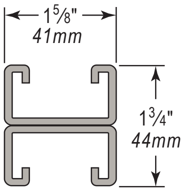
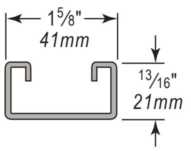
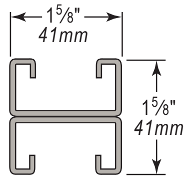


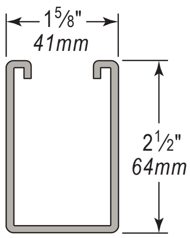
1⅝" x 13/16" *(41 x 21mm)* 12, 14, & 16 Gauge



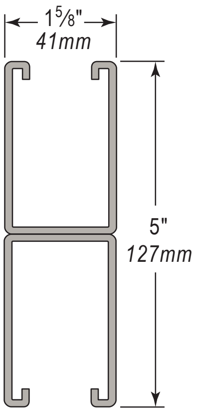
1⅝" x 1⅝" *(41 x 41mm)* 12, 14 & 16 Gauge



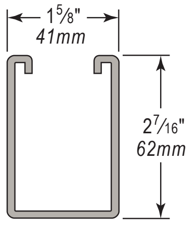
1⅝" x 2½" *(41 x 64mm)* 12 Gauge



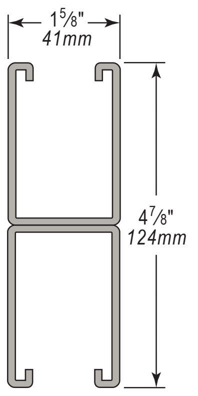
1⅝" x 5" *(41 x 127mm)* 12 Gauge



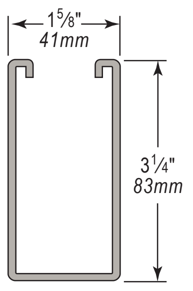
1⅝" x 2 7/16" *(41 x 62mm)* 12 Gauge



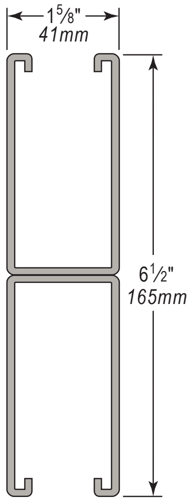
1⅝" x 4⅞" *(41 x 124mm)* 12 Gauge



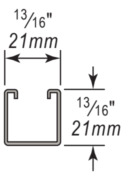
1⅝" x 3¼" *(41 x 83mm)* 12 Gauge



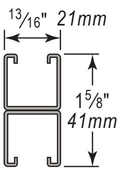
1⅝" x 6½" *(41 x 165mm)* 12 Gauge



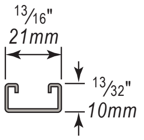
13/16" x 13/16" *(21 x 21mm)* 19 Gauge



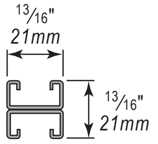
13/16" x 1⅝" *(21 x 41mm)* 19 Gauge



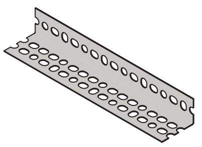
13/16" x 13/32" *(21 x 10mm)* 19 Gauge



13/16" x 13/16" *(21 x 21mm)* 19 Gauge



Light, Medium, & Heavy Duty Slotted Angle



(Medium shown)

Light Duty - 1½" x 1½" *(38 x 38mm)*
Medium Duty - 2¼" x 1½" *(57 x 38mm)*
Heavy Duty - 3" x 1½" *(76 x 38mm)*

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Channel Nuts and Hardware

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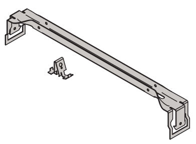
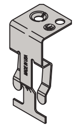
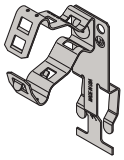
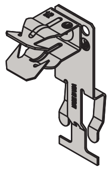
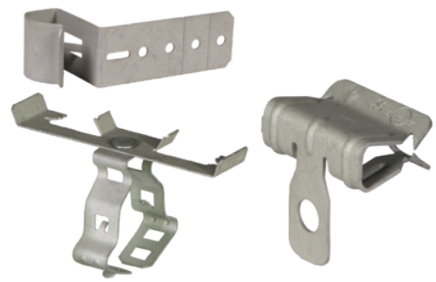
Spring Steel

T-Grid Box Electrical Box Hanger Heavy Dut	T-Bar Clip	T-Bar Clip with Conduit Clip	T-Bar Clip with Conduit "Push In" Clip	
				
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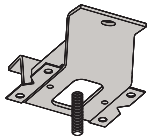
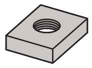
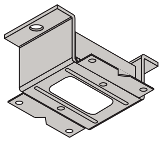
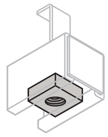
Concrete Inserts

Spot Concrete Insert	Concrete Insert Nut	Spot Concrete Insert	Concrete Insert Nut	Continuous Concrete Inserts Overview
				
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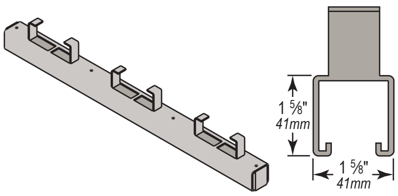
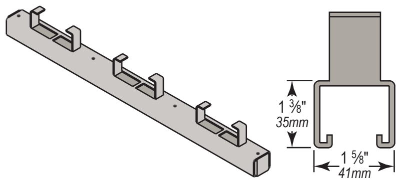
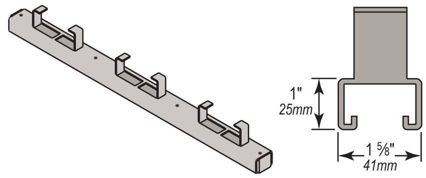
1-⅝" x 1-⅝" 12 Gauge Channel	1-⅝" x 1-⅜" 12 Gauge Channel	1-⅝" x 1" 12 Gauge Channel
		
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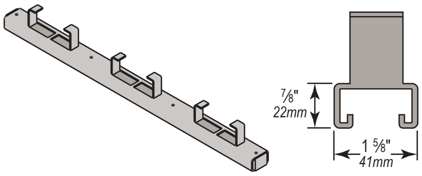
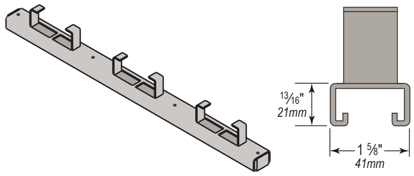
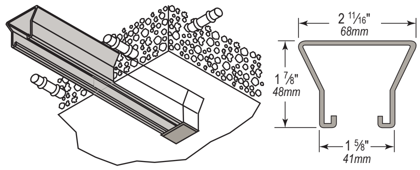
1-⅝" x ⅞" 12 Gauge Channel	**1-⅝" x 13⁄16" 14 Gauge Channel**	**1-⅝" x 1-⅞" x 2-11⁄16" 12 Gauge Channel**
		
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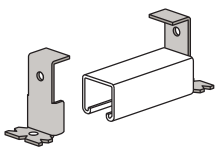
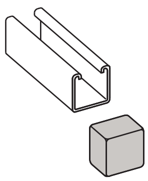
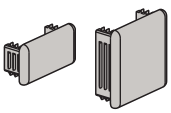
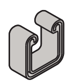
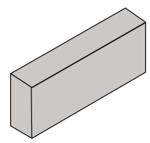
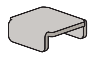
Anchor End Caps	Cover Plastic End Caps	Polyurethane End Caps	Form Fit Plastic End Caps	EPS Foam Filler	End Caps
					
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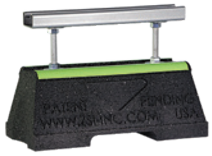
Rooftop Supports and GAMMA Pads

Cush-A-Block® Rooftop Supports

CBB "Biggie" Series Plain Base	CBN Series Plain Base	CBN-BR Bridge Series Support With Metal Channel	CBN Series Support With Metal Channel	CBN-EX Series Support With Raised Channel	CBNPRB Series Support With Pipe Roller
					
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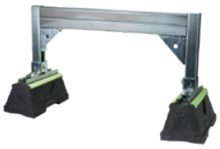
CBN-RB Series Support With Raised Bridge Medium Support	CBN-RB Series Support With Raised Channel Heavy Support	CBN-DS Series Adjustable Width Duct Support	CBN-DSFW Series Fixed Width Duct Support
			
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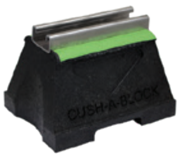
CBM Mini Block Plain Base	CBM Series Support with Metal Channel	CBM REX Support with Raised 1-⅝" Metal Channel	CBMPH Series Support with Raised Clamp for Copper or Steel Tube or Pipe	CBMPP Series Support with Raised Clamp for PEX, CPVC, or PVC Pipe	CBMTRH Series Support with Raised Hanger for Insulated Lines
					
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GAMMA Anti-Vibration Pads

GAMMA Shield	GAMMA Standard Pad	ISO - Cube	GAMMA Extreme Pad
			
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Part Number

Channel Finish or Material Order Codes				
Material/Finish	Material/Finish Codes			Description
	FLORIDA STRUT	VERSABAR	WESANCO	
Electroplated	EG	EG	EG	Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.
Mill-Galvanized (Pre-Galvanized)	PG	PG	PG	Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present.
Hot Dip Galvanized	HD or HG	HG	HG	Channel and fittings which are hot dip galvanized after fabrication.
Paint-Green Powder Coating	GN	GN	GR	A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.
Silva-Guard: Spring Steel	SG	SG	SG	Approved for outdoor as well as indoor applications. It is a chrome free duplex coating system that combines an inorganic zinc-rich basecoat with an aluminum-rich organic topcoat.
Plain	PL	PL	PL	Other commercially available finishes can be supplied per specification when required to protect applications.
Special Coatings	GLD, YL or YC	GOLD, YL or YC	GOLD	Yellow dichromate is applied over the zinc. This results in a yellowish gold colored appearance and creates a nonporous barrier sealant that is resistant to corrosion and can be painted.
Stainless Steel: Channel	S4	S4	ST304	Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel.
	S6	S6	ST316	
Aluminum: Channel	AL	AL	AL	Aluminum alloy extruded bar, rod, wire, shape and tube.

Channel Part Number Order Chart for Different Options

FLORIDA STRUT

FS12158 **XX** **XX** **XX**

Channel Size

Style:
NS - Solid
HS - Holes
EH - Short Slots
SL - Long Slots

Material/Finish: *(Above)*
PG - Pre-Galvanized
S4 - SS Type 304
S6 - SS Type 316

Length:
10 Feet
20 Feet

EXAMPLE: FS12158**NSS410**

1-5/8" x 1-5/8"
NS - Solid Channel
S4 - 304 Stainless Steel
10 - 10' Long

VERSABAR

VA1 **XX** **XXXX**

Size/Style:
VA1 - Solid
VA1P187 - 9/16" x 1 7/8" Holes
VA1P15 - 17/32" x 1 1/2" Holes
VA1P8 - 17/32" x 8" Holes
VA1PLH - 9/16" Short Slots
VA1PLW - 11/16" Short Slots
VA1KO6 - Knock-Outs
VA1P3S - Long Slots

Material/Finish: *(Above)*
PG - Pre-Galvanized
S4 - SS Type 304
S6 - SS Type 316

Length:
10 Feet
20 Feet

EXAMPLE: VA1**S610**

1-5/8" x 1-5/8"
VA1 - Solid Channel
S6 - 316 Stainless Steel
10 - 10' Long

WESANCO

W200**XX** **XX** **XX**

Size/Style:
W200 - Solid
W200H - Holes
W200SS - Short Slots
W200KO - Knock-Outs
W200SL - Long Slots

Material/Finish: *(Above)*
PG - Pre-Galvanized
ST304 - SS Type 304
ST316 - SS Type 316

Length:
10 Feet
20 Feet

EXAMPLE: W200**ST31610**

1-5/8" x 1-5/8"
W200 - Solid Channel
ST316 - 316 Stainless Steel
10 - 10' Long

Fitting Part Number Order Chart for Different Options

FLORIDA STRUT

FS210037 **XX**

Fitting Number

Finish Code:
(See Codes Above)
EG - Electro-Galvanized
See Pricebook for available finishes

EXAMPLE: FS210037**EG**

VERSABAR

VF1101N37 **XX**

Fitting Number

Finish Code:
(See Codes Above)
EG - Electro-Galvanized
See Pricebook for available finishes

EXAMPLE: VA1101N37**EG**

WESANCO

W5003 **XX**

Fitting Number

Finish Code:
(See Codes Above)
EG - Electro-Galvanized
See Pricebook for available finishes

EXAMPLE: W5003**EG**

General Information

Most channels are produced in 10 and 20-foot lengths with a length tolerance of plus or minus 1⁄16.

W600 and W700 are produced in 10 foot lengths only.

Channels

General

Channels are manufactured by the cold roll forming process which produces cross sections of uniform dimensions within tolerances established by the Metal Framing Manufacturer's Association, Metal Framing Standards Publication No. MFMA-1.

Material

Steel used in the manufacture of channels conforms to the ASTM specifications in this catalog.

Design

Design is based on AISI "Specification for the Design of Cold-Formed Steel Structural Members." Maximum bending stress used in design is 25,000 pounds per square inch (PSI). This is based upon a virgin steel minimum yield stress of 33,000 psi cold worked to an average yield stress of 42,000 psi.

Welding

Welds meet the performance requirements of section 4 of AISI "Specification for the design of Cold-Formed Steel Structural Members." All multiple sections of two or more single channels are resistance spot-welded approximately 2" to 3" on center.

Channel Nuts

General

Channel nuts are formed or stamped from steel bar stock and is case hardened after all forming and taping operations have been completed. The nuts are coated with zinc to ASTM-B633 "Electrodeposited Coatings of Zinc on Iron and Steel."

Channel nuts have uniform and American coarse screw threads.

Channel nuts are available both with and without springs. Springs are made from Galvanized spring steel wire.

Material

The bar steel used in manufacture of channel nuts conforms to ASTM A575 or ASTM A576.

Weights and Dimensions

All weights given for materials are approximate shipping weights. Weights will vary somewhat due to permissible tolerances and slight variations in material thickness.

We reserve the right to change design specifications or to add or discontinue specific items without notice.

Fittings

General

Fittings are manufactured by cold forming steel in punch press dies and conform to those tolerances listed in section 5.3 of Metal Framing Standards Publication No. MFMA-1.

Material

Steel used for fittings is Hot-Rolled Pickled and Oiled strip steel or bar conforming to ASTM A 570 or ASTM A575.

Welding

Fittings having two or more component parts may be arc or resistance welded in accordance with the appropriate American Welding Society Standards.

Finishes

Electroplated Zinc or Electro-Galvanized

This coating is standard for most ZSi-Foster products. Electro-Galvanized products meet ASTM B633 SC1 or SC3, Type III. Electroplating deposits zinc on the surface of the steel by electrolysis from a bath of zinc salts. The thickness of zinc applied in this method is between 0.2 mils to 0.5 mils [5.1 µm to 12.7 µm].

Mill-Galvanized (Pre-Galvanized)

ASTM A653 G-90 Pre-galvanized zinc is produced by continuously rolling steel coils or sheets through molten zinc at the mills. The coils are slit to size and fabricated by forming, shearing or punching to produce the finished product. During fabrication cut edges are not generally zinc coated. However, the zinc near the uncoated metal becomes a sacrificial anode to protect the bare areas.

Paint-Green Powder Coating

A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.

Hot Dip Galvanized After Fabrication

Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications. ASTM A 123, ASTM A153 or ASTM A386.

Silva-Guard

Silva-Guard coating is a multi-step process that meets the 1000 hour salt spray test per ASTM B117 and DIN 50021. **Silva-Guard coating is WEEE, ELV, and RoHS compliant**. SG Finish is approved for outdoor as well as indoor applications. It is a chrome free duplex coating system that combines an inorganic zinc-rich basecoat with an aluminum-rich organic topcoat.

Special Coatings

Other commercially available finishes can be supplied per specification when required to protect applications.

Material Specifications

Channel Specifications

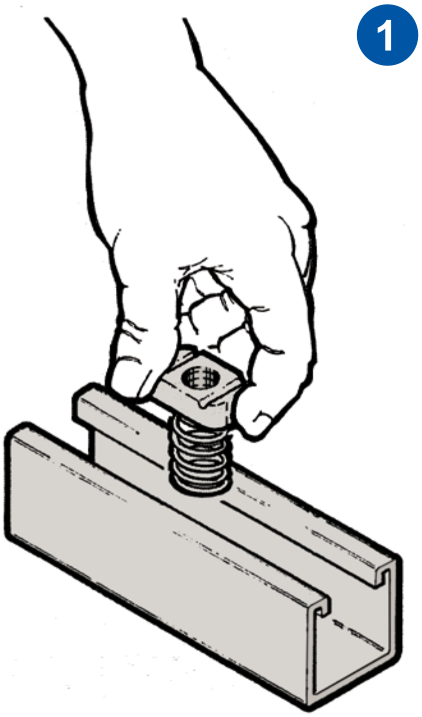
Material	Current ASTM Designation	Previous ASTM Designation	ASTM Description
Hot Rolled: Channel	A 1011SS GR33	A 570 GR33	Hot rolled carbon steel sheet and strip, structural quality.
Cold Rolled: Channel	A 1008SS GR33, A 1008	A 611	Cold rolled carbon sheet steel.
Pregalvanized: Channel	A 653 SS GR33	A 653 GR33 G90	Steel sheet zinc-coated by hot dip process at mill, structural quality.
Stainless Steel: Channel	A 240 TYPE 304	A 240 TYPE 304	Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel.
	A 240 TYPE 316	A 240 TYPE 316	
Aluminum: Channel	B 221 TYPE 6063 T6	B 221 TYPE 6063 TS	Aluminum alloy extruded bar, rod, wire, shape, and tube.

Fittings & Hardware Specifications

Material	Current ASTM Designation	Previous ASTM Designation	ASTM Description
Bar Stock: Channel Nuts	A 36	A 575	Merchant quality hot rolled carbon steel bars. Steel bars, carbon, hot rolled special quality.
	A 29-03	A 576	
Cold Rolled: Closure Strip	A 1008 CS GR33	A 611	Cold rolled carbon sheet steel.
Pregalvanized: Closure Strip	A 653 GR33 G90	A 653 GR33 G90	Steel sheet, zinc coated (galvanized) by the hot dipped process, commercial quality.
Bar Stock	A 569	A 569	Merchant quality hot rolled carbon steel bars.
Hot Rolled Plate	A 575	A 575	Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.
Fitting (Steel)	A 366	A 366	Steel carbon, cold rolled sheet, commercial quality structural steel.
	A 366	A 366	
	A 36	A 36	
Hardware	A 563	A 563	Carbon and alloy steel nuts. Carbon steel externally threaded standard fasteners.
	A 307	A 307	
Strip Steel: Pipe Clamps	A 569	A 569	Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.
Hot Rolled: Shelf Brackets	A 569	A 569	Steel carbon, cold rolled sheet, commercial quality structural steel.

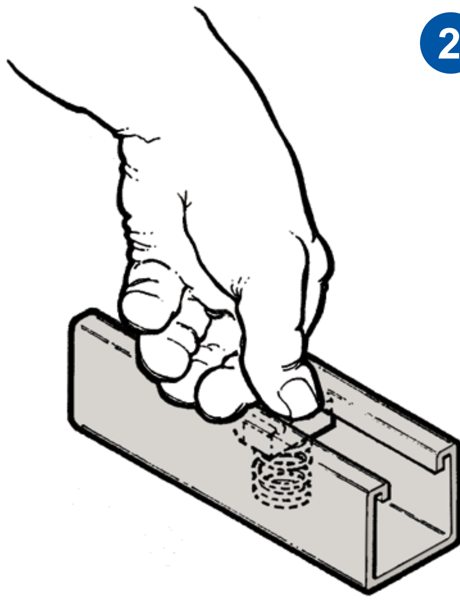
The Metal Framing System

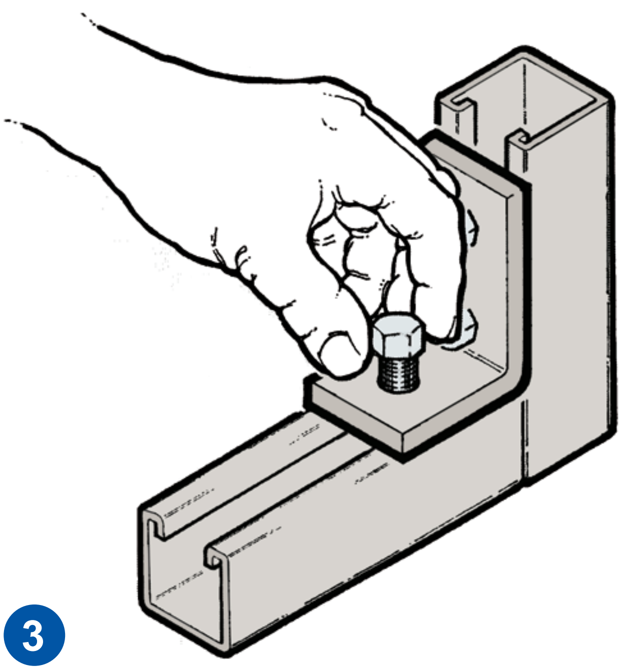
1 Insert the appropriate Channel Nut with spring, *parallel* to the slot edges, anywhere along the continuous open slot of the channel.



2 Depress the Channel Nut with spring below the in-turned channel edges. Rotate one quarter turn clock-wise, perpendicular, and release pressure on the nut.

The Nut will lock in-place, its pyramid grip enhanced grooves aligning with the underside of the channel's in-turned edges; the spring being designed to hold the nut in place during assembly.



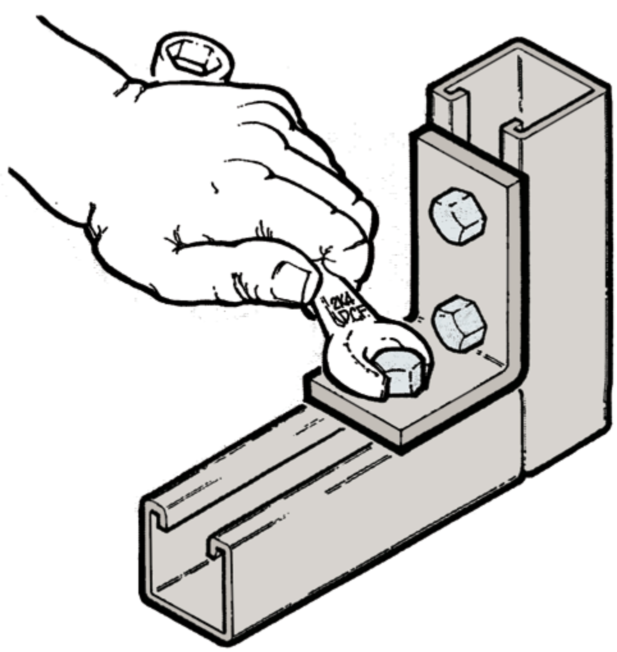


3 Fitting, bracket, or accessory, is located on the channel face over the Channel Nut with spring.

An appropriate diameter and length of bolt is inserted, and the fitting is adjusted for location at this time.

4 Properly torquing the bolt draws the Channel Nut with spring up against the in-turned channel lips, forming a strong, secure clamping connection.

Use caution not to bottom the bolt (select one of sufficient length, but not so long as to contact the inside back). **Do not over torque the bolt.**



Channel Metal Framing

Channel Material Specifications		
Material	**ASTM Designation**	**ASTM Description**
Hot Rolled: Channel	A 1011SS GR33	Hot rolled carbon steel sheet and strip, structural quality.
Cold Rolled: Channel	A 1008SS GR33, A 1008	Cold rolled carbon sheet steel.
Stainless Steel: Channel	A 240 TYPE 304	Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel.
	A 240 TYPE 316	
Aluminum: Channel	B 221 TYPE 6063 T6	Aluminum alloy extruded bar, rod, wire, shape and tube.

Channel Finish Specifications	
Finish	**Description**
Paint-Green Powder Coating	A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.
Electroplated	Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.
Mill-Galvanized (Pre-Galvanized)	Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present.
Hot Dip Galvanized After Fabrication	Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications. ASTM A 123, ASTM A153 or ASTM A386.
Special Coatings	Other commercially available finishes can be supplied per specification when required to protect applications.

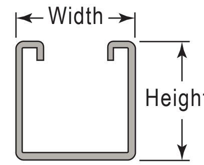
See page 25 for Material or Finish ordering codes for part numbers.

Channel Selection Chart

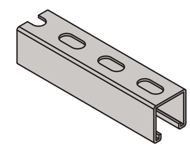
Channel - Base Part No.			Channel Dimensions		Hole Patterns				Page
FLORIDA STRUT	VERSABAR	WESANCO	Style	Height	Short Slots	Long Slots	Holes	Knock Outs	
12 Gauge Steel - 1-⅝" Width									
FS12314	VA11	W150		3¼" (83mm)	◆ *	–	◆	–	65 - 67
FS12314NSBB	VA11201	W151		6½" (165mm)	◆ *	–	–	–	
--	VA3	--		2½" (64mm)	◆ *	◆	◆ *	–	60 - 61
--	VA3201	--		5" (127mm)	–	–	–	–	
FS122716NS	--	W100		2 7/16" (62mm)	◆	◆	◆	–	62 - 64
FS122716NSBB	--	W101		4⅞" (124mm)	◆	–	–	–	
FS12158NS	VA1	W200		1⅝" (41mm)	◆ *	◆	◆ *	◆	40 - 44
FS12158NSBB	VA1201	W201		3¼" (83mm)	◆ *	–	◆ *	–	
FS12138NS	VA6	W300		1⅜" (35mm)	◆ *	◆	◆	◆	45 - 47
FS12138NSBB	VA6201	W301		2¾" (70mm)	◆ *	–	◆	–	
FS12100NS	VA10	W800		1" (25mm)	◆ *	◆	◆*	–	48 - 51
FS12100NSBB	VA10201	W801		2" (51mm)	◆ *	–	–	–	
FS12078NS	--	W900		⅞" (23mm)	◆	◆	◆	–	52 - 54
FS12078NSBB	--	W901		1¾" (44mm)	◆	–	◆	–	
FS121316NS	VA13	W510		13/16" (21mm)	◆ *	◆	◆	◆	55 - 59
FS121316NSBB	VA13201	W511		1⅝" (41mm)	◆ *	–	–	–	

◆ Pierced Available

* Various hole patterns available, contact representative for more information



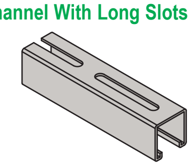
Channel With Short Slots



9/16" x 1⅛" *(14mm x 29mm)* Slots are punched on 2" *(51mm)* centers.

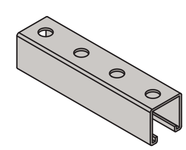
11/16" x 1⅛" *(18mm x 29mm)* Slots are punched on 2" *(51mm)* centers. Allows for ⅝" *(16mm)* threaded rod & Bolts.

Channel With Long Slots



13/32" x 3" *(10mm x 76mm)* Slots are punched on 4" *(102mm)* centers.

Channel With Holes



17/32" *(13.5mm)* Holes are punched on 1½" *(38mm)* centers.

9/16" *(14mm)* Holes are punched on 1⅞" *(48mm)* centers.

¾" *(19mm)* Holes are punched on 1⅞" *(48mm)* centers.

17/32" *(13.5mm)* Holes are punched on 8" *(203mm)* centers.

Channel With Knock-Outs

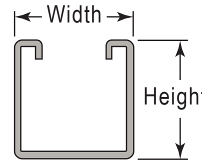
⅞" *(22mm)* Knock-outs are punched on 6" *(152mm)* centers.

Channel Selection Chart

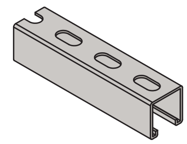
Channel - Base Part No.			Channel Dimensions		Hole Patterns				Page
FLORIDA STRUT	VERSABAR	WESANCO	Style	Height	Short Slots	Long Slots	Holes	Knock Outs	
14 Gauge Steel - 1-⅝" Width									
FS14158NS	VA2	W210		1⅝" *(41mm)*	♦ *	♦	♦ *	♦	40 - 44
FS14158NSBB	VA2201	W211		3¼" *(83mm)*	♦ *	–	♦ *	–	
--	VA7	--		1⅜" *(35mm)*	♦ *	♦	♦	♦	45 - 47
--	VA7201	--		2¾" *(70mm)*	♦ *	–	–	–	
--	VA8	--		1" *(25mm)*	♦ *	♦	♦	–	48 - 51
--	VA8201	--		2" *(51mm)*	♦ *	–	–	–	
FS141316NS	VA4	W500		13/16" *(21mm)*	♦ *	♦	♦	♦	55 - 59
FS141316NSBB	VA4201	W501		1⅝" *(41mm)*	♦ *	–	–	–	
16 Gauge Steel - 1-⅝" Width									
--	VA12	--		1⅝" *(41mm)*	♦ *	♦	♦	♦	40 - 44
--	VA12201	--		3¼" *(41mm)*	♦ *	–	♦	–	
FS161316NS	VA5	W400		13/16" *(21mm)*	♦ *	♦	♦	♦	55 - 59
FS161316NSBB	VA5201	W401		1⅝" *(41mm)*	♦ *	–	–	–	
19 Gauge Steel - 13/16" Width									
--	--	W600		13/16" *(21mm)*	–	–	–	–	68 - 69
----	--	W601		1⅝" *(41mm)*	–	–	–	–	
--	--	W700		13/32" *(10mm)*	–	–	–	–	70 - 71
---	-	W701		13/16" *(21mm)*	–	–	–	–	

♦ Pierced Available

* Various hole patterns available, contact representative for more information



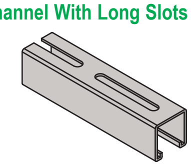
Channel With Short Slots



9/16" x 1⅛" *(14mm x 29mm)* Slots are punched on 2" *(51mm)* centers.

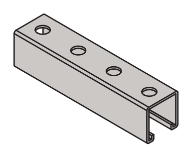
11/16" x 1⅛" *(18mm x 29mm)* Slots are punched on 2" *(51mm)* centers.

Channel With Long Slots



13/32" x 3" *(10mm x 76mm)* Slots are punched on 4" *(102mm)* centers.

Channel With Holes



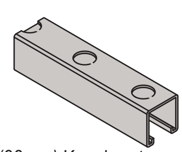
17/32" *(13.5mm)* Holes are punched on 1½" *(38mm)* centers.

9/16" *(14mm)* Holes are punched on 1⅞" *(48mm)* centers.

¾" *(19mm)* Holes are punched on 1⅞" *(48mm)* centers.

17/32" *(13.5mm)* Holes are punched on 8" *(203mm)* centers.

Channel With Knock-Outs



⅞" *(22mm)* Knock-outs are punched on 6" *(152mm)* centers.

Channels in Descending Order of Strength

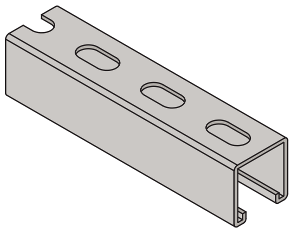
Channel			Channel Style	Area		Weight		I x		S x		Moment	
FLORIDA STRUT	VERSABAR	WESANCO		In²	(cm²)	lbs / ft	(kg/m)	In⁴	(cm⁴)	In³	(cm³)	in-lbs	(N•m)
FS12314NSBB	VA11201	W151		1.804"	*(11.64)*	6.14	*(9.1)*	6.339"	*(263.9)*	1.951	*(32.0)*	48,180	*(5,440)*
--	VA3201	--		1.453	*(9.37)*	4.94	*(7.35)*	2.813	*(117.1)*	1.154	*(18.9)*	--	--
FS122716NSBB	--	W101		1.463"	*(9.44)*	4.98	*(7.4)*	2.867"	*(119.3)*	1.176	*(19.3)*	28,940	*(3,270)*
FS12314	VA11	W150		0.902"	*(5.82)*	3.07	*(4.6)*	1.113"	*(46.3)*	0.639	*(10.5)*	15,770	*(1,780)*
FS12158NSBB	VA1201	W201		1.122"	*(7.24)*	3.82	*(5.7)*	0.954"	*(39.7)*	0.587	*(9.6)*	14,360	*(1,620)*
FS12138NSBB	VA6201	W301		1.017"	*(6.56)*	3.46	*(5.1)*	0.608"	*(25.3)*	0.443	*(7.3)*	10,810	*(1,220)*
FS14158NSBB	VA2201	W211		0.834"	*(5.38)*	2.84	*(4.2)*	0.739"	*(30.8)*	0.455	*(7.5)*	11,340	*(1,280)*
--	VA3	--		0.727	*(4.69)*	2.47	*(3.67)*	0.520"	*(21.7)*	0.393	*(6.4)*	--	--
FS122716NS	--	W100		0.732"	*(4.72)*	2.49	*(3.7)*	0.530"	*(22.0)*	0.400	*(6.5)*	9,820	*(1,110)*
FS12158NS	VA1	W200		0.561"	*(3.62)*	1.91	*(2.8)*	0.188"	*(7.8)*	0.207	*(3.4)*	5,070	*(570)*
FS12078NSBB	--	W901		0.807"	*(5.21)*	2.75	*(4.1)*	0.183"	*(7.6)*	0.209	*(3.4)*	5,060	*(570)*
FS12138NS	VA6	W300		0.508"	*(3.28)*	1.73	*(2.6)*	0.123"	*(5.1)*	0.158	*(2.6)*	3,840	*(430)*
FS14158NS	VA2	W210		0.417"	*(2.69)*	1.42	*(2.1)*	0.148"	*(6.2)*	0.169	*(2.8)*	4,060	*(460)*
FS12100NSBB	VA10201	W801		0.859"	*(5.54)*	2.92	*(4.3)*	0.261"	*(10.9)*	0.261	*(4.3)*	3,610	*(410)*
FS141316NSBB	VA4201	W501		0.590"	*(3.81)*	2.01	*(3.0)*	0.122"	*(5.1)*	0.150	*(2.4)*	3,610	*(410)*
FS12100NS	VA10	W800		0.430"	*(2.77)*	1.46	*(2.2)*	0.054"	*(2.2)*	0.093	*(1.5)*	3,610	*(410)*
FS161316NSBB	VA5201	W401		0.487"	*(3.14)*	1.66	*(2.5)*	0.105"	*(4.4)*	0.129	*(2.1)*	3,210	*(360)*
FS12078NS	--	W900		0.403"	*(2.60)*	1.37	*(2.0)*	0.038"	*(1.6)*	0.074	*(1.2)*	1,800	*(200)*
FS141316NS	VA4	W500		0.295"	*(1.90)*	1.00	*(1.5)*	0.026"	*(1.1)*	0.056	*(0.9)*	1,360	*(150)*
FS161316NS	VA5	W400		0.244"	*(1.57)*	0.83	*(1.2)*	0.023"	*(1.0)*	0.050	*(0.8)*	1,230	*(140)*
--	--	W601		0.214"	*(1.38)*	0.73	*(1.1)*	0.045"	*(1.9)*	0.056	*(0.9)*	1,390	*(160)*
--	--	W600		0.107"	*(0.69)*	0.36	*(0.5)*	0.009"	*(0.4)*	0.020	*(0.3)*	510	*(60)*
--	--	W701		0.149"	*(0.96)*	0.51	*(0.8)*	0.007"	*(0.3)*	0.018	*(0.3)*	450	*(50)*
--	--	W700		0.074"	*(0.48)*	0.25	*(0.4)*	0.002"	*(0.1)*	0.007	*(0.1)*	170	*(20)*

Pierced Channel

Channel with Short Slots

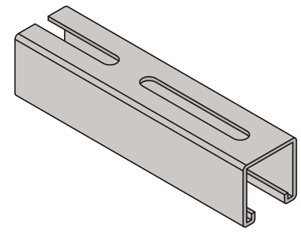
9/16" x 1 1/8" *(14mm x 29mm)* Slots are punched on 2" *(51mm)* centers.

11/16" x 1 1/8" *(18mm x 29mm)* Slots are punched on 2" *(51mm)* centers. Allows for 5/8" *(16mm)* threaded rod and bolts.



Channel with Long Slots

13/32" x 3" *(10mm x 76mm)* Slots are punched on 4" *(102mm)* centers.



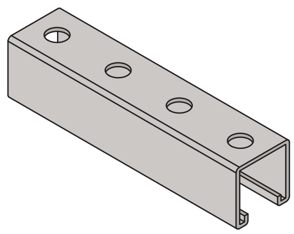
Channel with Holes

17/32" *(13.5mm)* Holes are punched on 1 1/2" *(38mm)* centers.

9/16" *(14mm)* Holes are punched on 1 7/8" *(48mm)* centers.

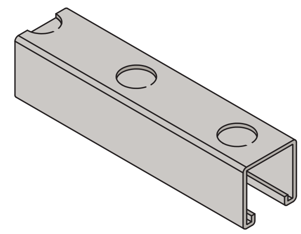
3/4" *(19mm)* Holes are punched on 1 7/8" *(48mm)* centers.

17/32" *(13.5mm)* Holes are punched on 8" *(203mm)* centers.



Channel with Knock-Outs

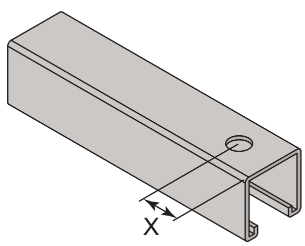
7/8" *(22mm)* Knock-outs are punched on 6" *(152mm)* centers.



Channel with Specialty Custom Perforations

Designation is indicated by adding type of perforation from standard selection and pertinent dimensional information.

If used as a trapeze reference page 308.

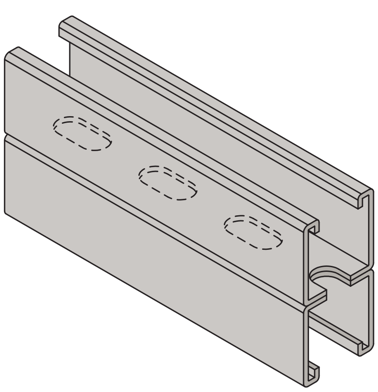


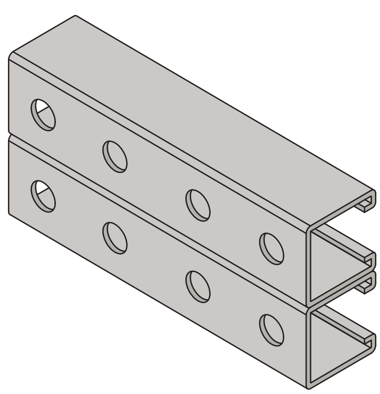
Beam Loading of Punched Channels

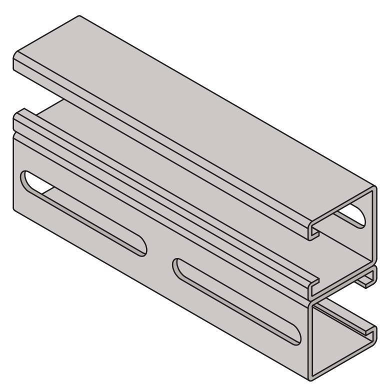
Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

Channel with Short Slots 0.90
Channel with Long Slots 0.90
Channel with Holes 0.95
Knock-Out Channel 0.95

Pierced Combinations







Channel with Short Slots

9/16" x 1 1/8" *(14mm x 29mm)*
Slots are punched on 2" *(51mm)* centers.

11/16" x 1 1/8" *(18mm x 29mm)*
Slots are punched on 2" *(51mm)* centers.

Channel with Holes

9/16" *(14mm)* Holes are punched on 1 7/8" *(48mm)* centers.

Channel with Long Slots

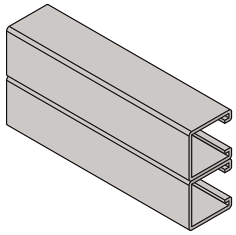
13/32" x 3" *(10mm x 76mm)*
Slots are punched on 4" *(102mm)* centers.

Example Combination Channel

$1\frac{5}{8}$" x $1\frac{5}{8}$" *(41mm x 41mm)* Channel Shown

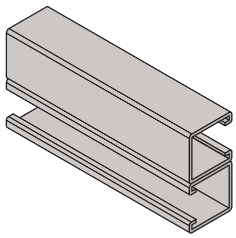
$1\frac{5}{8}$" x $3\frac{1}{4}$"
(41mm x 83mm)

FLORIDA STRUT	VERSABAR	WESANCO
--	VA1202	W202



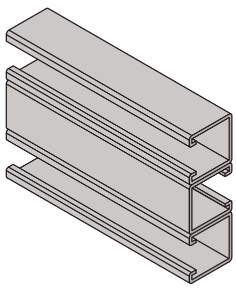
$1\frac{5}{8}$" x $3\frac{1}{4}$"
(41mm x 83mm)

FLORIDA STRUT	VERSABAR	WESANCO
--	VA1203	W203



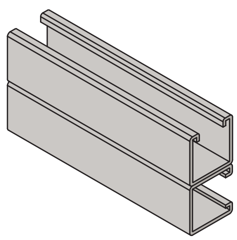
$1\frac{5}{8}$" x $4\frac{7}{8}$"
(41mm x 124mm)

FLORIDA STRUT	VERSABAR	WESANCO
--	VA1303	W203B3



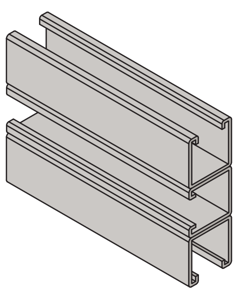
$1\frac{5}{8}$" x $3\frac{1}{4}$"
(41mm x 83mm)

FLORIDA STRUT	VERSABAR	WESANCO
--	VA1204	W204



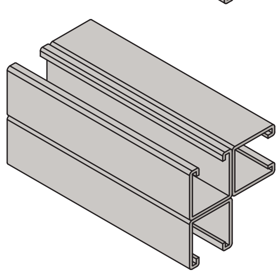
$1\frac{5}{8}$" x $4\frac{7}{8}$"
(41mm x 124mm)

FLORIDA STRUT	VERSABAR	WESANCO
--	VA1302	W204A3



$3\frac{1}{4}$" x $3\frac{1}{4}$"
(83mm x 83mm)

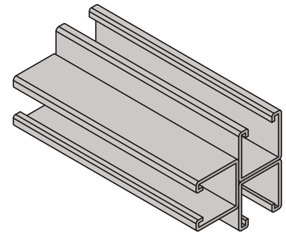
FLORIDA STRUT	VERSABAR	WESANCO
--	VA1304	W205



Additional combination configurations are available.
Combinations can be made in other channel sizes.

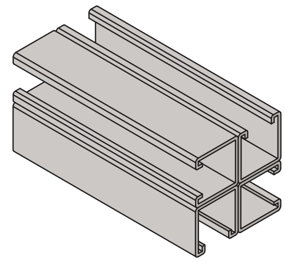
$3\frac{1}{4}$" x $3\frac{1}{4}$"
(83mm x 83mm)

FLORIDA STRUT	VERSABAR	WESANCO
--	VA1308	W206



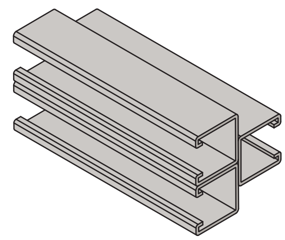
$3\frac{1}{4}$" x $3\frac{1}{4}$"
(83mm x 83mm)

FLORIDA STRUT	VERSABAR	WESANCO
--	VA1401	W207



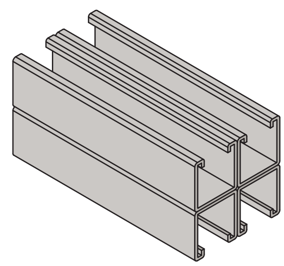
$3\frac{1}{4}$" x $3\frac{1}{4}$"
(83mm x 83mm)

FLORIDA STRUT	VERSABAR	WESANCO
--	VA1308	W208



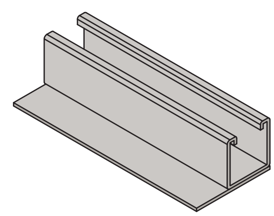
$3\frac{1}{4}$" x $3\frac{1}{4}$"
(83mm x 83mm)

FLORIDA STRUT	VERSABAR	WESANCO
--	VA1402	W209



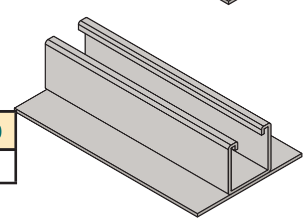
$2\frac{13}{16}$" x $1\frac{3}{4}$"
(71mm x 46mm)

FLORIDA STRUT	VERSABAR	WESANCO
--	VA1209	W220



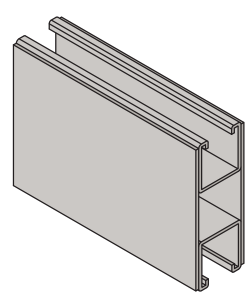
4" x $1\frac{3}{4}$"
(102mm x 46mm)

FLORIDA STRUT	VERSABAR	WESANCO
--	VA1208	W221

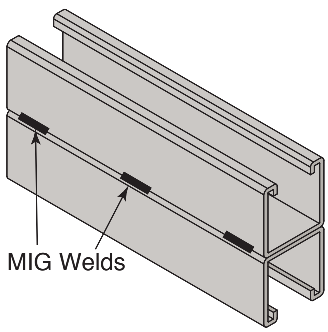


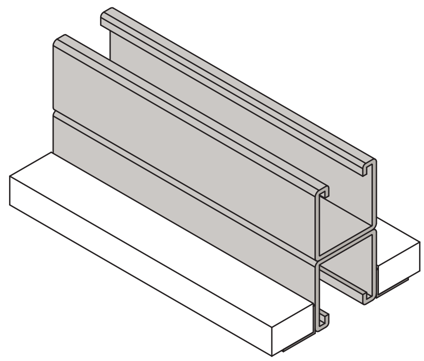
$1\frac{7}{8}$" x $4\frac{7}{8}$"
(48mm x 124mm)

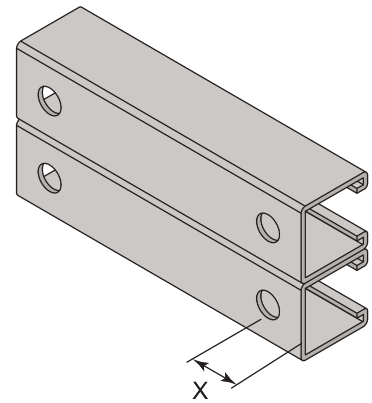
FLORIDA STRUT	VERSABAR	WESANCO
--	VA1405	W222



Specialty Combinations







MIG Welded To Meet Specific Engineering Request

Combination/ Ceiling Support

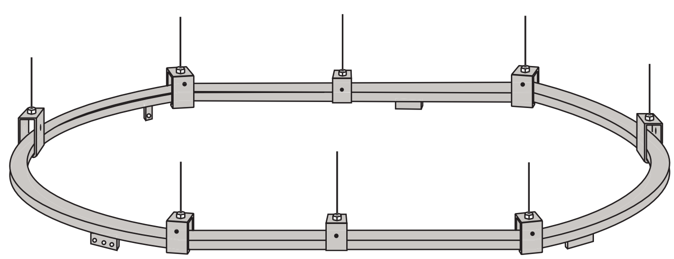
Channel Custom Pierced

Channel for Trolley Systems

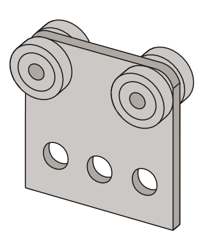
The trolley system moves equipment from 10 to 600 lbs., with reliability, ease, and economy. Trolleys can be ganged to accommodate higher loads. Trolleys, featuring corrosion-free stainless wheel bearings and steel or acetyl wheels that require no lubrication, deliver built-in value and dependability for a wide range of applications. Throughout the system, famous quality assures dependable, trouble-free performance.

Composed of three basic elements; trolleys, track, and supports. Trolley systems are efficient and economical. Different trolleys give users a wide range of weight capacities and suspension options, to allow tailoring of the system to exact application needs.

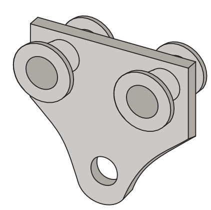
Track is available in 20 foot sections and can be easily field cut according to project requirements. Longer lengths and curved sections (shown below) are available on special order. A complete system of easy-to-use supports, including beam clamps, make installation a breeze.



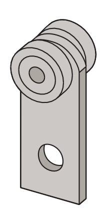
Four Wheel Trolley



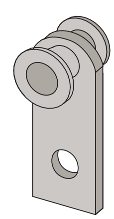
Four Wheel Trolley



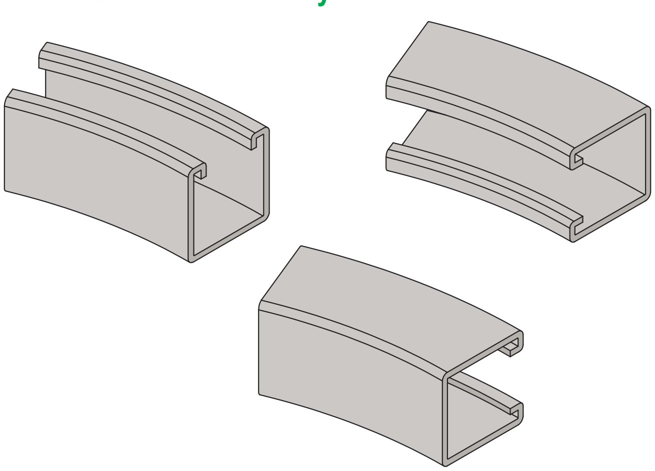
Two Wheel Trolley



Two Wheel Trolley



Radius Channel for Trolleys

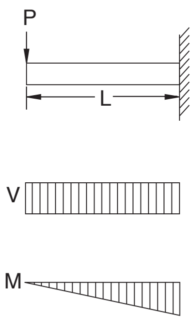


See pages 131 - 132 for more trolley information

Beam Load Support Formulas

Beam Load Support Formulas

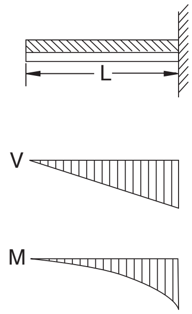
Cantilever Beams



V max. = P

M max. = PL

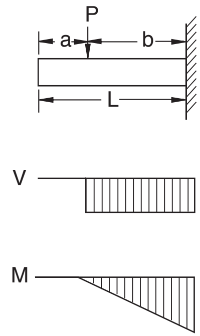
$\Delta max. = \frac{PL^3}{3EI}$



V max. = W

$M\ max. = \frac{WL}{2}$

$\Delta max. = \frac{WL^3}{8EI}$

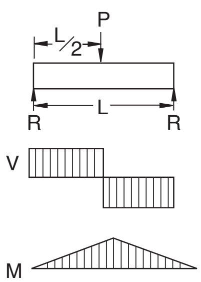


V max. = P

M max. = Pb

$\Delta max. = \frac{Pb^2(3L-b)}{6EI}$

Simple Beams

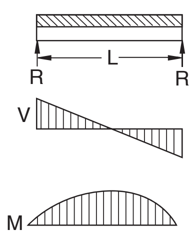


$R = \frac{P}{2}$

$V\ max. = \frac{P}{2}$

$M\ max. = \frac{PL}{4}$

$\Delta max. = \frac{PL^3}{48EI}$

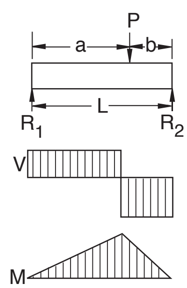


$R = \frac{W}{2}$

$V\ max. = \frac{W}{2}$

$M\ max. = \frac{WL}{8}$

$\Delta max. = \frac{5WL^3}{384EI}$



$R_1 = \frac{Pb}{L}$

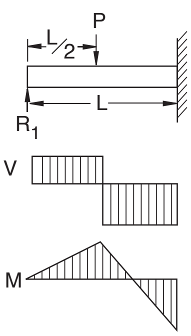
$R_2 = \frac{Pa}{L}$

$V\ max. = \frac{Pa}{L}$

$M\ max. = \frac{Pab}{L}$

$\Delta max. = \frac{Pab(a+2b)\ \sqrt{3a(a+2b)}}{27EIL}$

Beams Fixed At One End & Supported At The Other



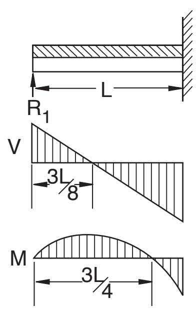
$R_1 = \frac{5P}{16}$

$V\ max. = \frac{11P}{16}$

$M\ max. = \frac{3PL}{16}$

$\Delta max.$ at x = 0.447L

$\Delta max. = 0.009317\frac{PL^3}{EI}$



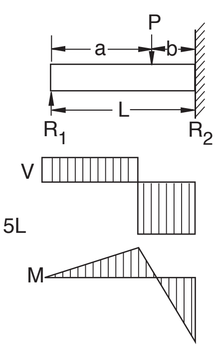
$R_1 = \frac{3W}{8}$

$V\ max. = \frac{5W}{8}$

$M\ max. = \frac{WL}{8}$

$\Delta max.$ at x = 0.4215L

$\Delta max. = \frac{WL^3}{185EI}$



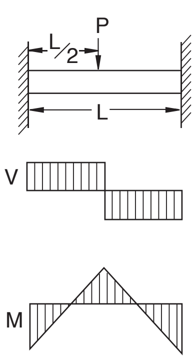
$R_1 = \frac{Pb^2}{2L^3}(a+2L)$

$R_2 = \frac{Pa}{2L^3}(3L^2-a^2)$

M at point of load = R_1a

M at fixed end = $\frac{Pab}{2L^3}(a+L)$

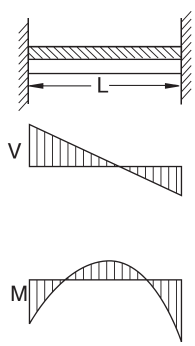
Beams Fixed At Both Ends



$V\ max. = \frac{P}{2}$

$M\ max. = \frac{PL}{8}$

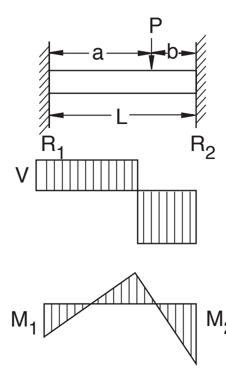
$\Delta max. = \frac{PL^3}{192EI}$



$V\ max. = \frac{W}{2}$

$M\ max. = \frac{WL}{12}$

$\Delta max. = \frac{WL^3}{384EI}$



$R_1 = \frac{Pb^2}{L^3}(3a+b)$

$R_2 = \frac{Pa^2}{L^3}(a+3b)$

$M_1 = \frac{Pab^2}{L^2}$

$M_2 = \frac{Pa^2b}{L^2}$

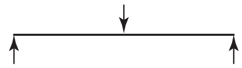
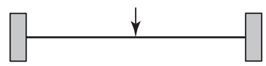
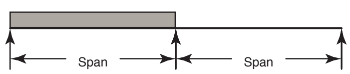
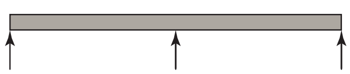
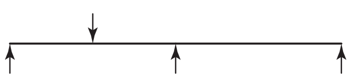
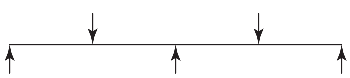
R – Reaction
M – Moment
P – Concentrated Load

W – Total Uniform Load
V – Shear
L – Length

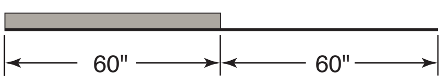
Δ – Deflection
E – Modulus of Elasticity
I – Moment of Inertia

Beam Load Support Formulas

All Beam Load tables are for simple beams supported at the ends. These can be used in the majority of the cases. There are times when it is necessary to know what happens with other loading and support conditions. Some common arrangements are shown below. Simply multiply the values from the Beam Load tables by factors given below.

Load and Support Condition		Load Factor	Deflection Factor
Simple Beam Uniform Load		1.00	1.00
Simple Beam Concentrated Load at Center		0.50	0.80
Simple Beam Two Equal Concentrated Loads at 1/4 Points		1.00	1.10
Beam Fixed at Both Ends Uniform Load		1.50	0.30
Beam Fixed at Both Ends Concentrated Load at Center		1.00	0.40
Cantilever Beam Uniform Load		0.25	2.40
Cantilever Beam Concentrated Load at End		0.12	3.20
Continuous Beam Two Equal Spans - Uniform Load on One Span		1.30	0.92
Continuous Beam Two Equal Spans - Uniform Load on Both Spans		1.00	0.42
Continuous Beam Two Equal Spans - Concentrated Load at Center of One Span		0.62	0.71
Continuous Beam Two Equal Spans - Concentrated Load at Center of Both Spans		0.67	0.48

EXAMPLE I



PROBLEM:

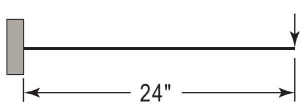
Calculate the load and deflection of an W200 ($1\frac{5}{8}$" x $1\frac{5}{8}$" 12 gauge) beam continuous over one support and loaded uniformly on one span.

SOLUTION:

A. From load table for W200 the load for a 60" span is 700 lbs. and deflection is 0.35".

B. Multiply by factors from Table above
Load = 700 lb. x 1.30 = 910 lbs.
Deflection = 0.35" x 0.92 = 0.322"

EXAMPLE II



PROBLEM:

Determine load and deflection of an W150 ($1\frac{5}{8}$" x $3\frac{1}{4}$" 12 gauge) cantilever beam with a concentrated load on the end.

SOLUTION:

A. From load table for W150 the load for a 24" span is 5,360 lbs. and deflection is 0.09".

B. Multiply by factors from Table above.
Load = 5,360 lbs. x 0.12 = 643.2 lbs.
Deflection - 0.09" x 3.20 = 0.288"

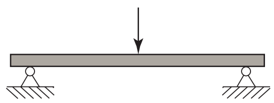
Beam - Design Fundamentals

Beams are structural members loaded at right angles (perpendicular) to their length Most beams are horizontal and subjected to gravity or vertical loads, e.g. a shelf support. However a vertical member can act as a beam under certain conditions, such as, a curtain wall mullion subjected to wind loading. The bending moment developed in a beam is dependent on:

(a) The amount of load applied

(b) The type of loading applied

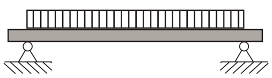
(c) The support conditions



Beam Loading - Point Load

A load concentrated onto a very small length of the beam is a point load.

Beam Loading - Uniform Load



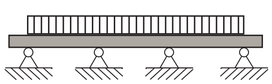
A load spread evenly over a relatively long length of the beam is a uniform load.

Point and uniform loads can be placed on a beam in any combination. A series of point loads can approximate a uniform loading. The load charts and tables are based on a uniform load unless identified otherwise.

Support Conditions - Simple Beam

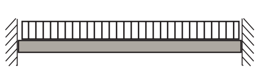
A simple beam has supports that prevent movement left and right, or up and down, but do not restrain the beam from rotating at the supports into a natural deflected curve. Most connections produce simple beams. The load charts and tables are based on simple beams unless identified otherwise.

Support Conditions - Continuous Beam



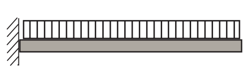
Any simple beam that is supported at one or more intermediate points is a continuous beam. A mezzanine joist that passes over three or more columns is an example of a continuous beam.

Support Conditions - Fixed-End Beam



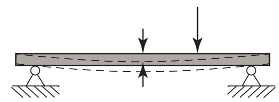
Supports that prevent the beam from rotating into a natural deflected curve produce a fixed-end beam. A welded end connection to very rigid support produces a fixed-end beam.

Support Conditions - Cantilever Beam



A cantilever beam is a fixed-end beam that is supported at one end only, while the other end is unsupported. Brackets are examples of cantilever beams.

Deflection



All beams deflect under load. The amount of deflection is dependent on:

(a) The amount of load,

(b) The support conditions,

(c) The stiffness of the beam's cross-sectional shape,

(d) The stiffness of the beam material

The stiffness of the beam's cross-sectional shape is measured by its "Moment Of Inertia" or "I". The larger a beam's "I", the stiffer it is and the less it will deflect. A beam's "I" can change for each major axis. The "I" of both major axes (I 1-1 and I 2-2) are provided.

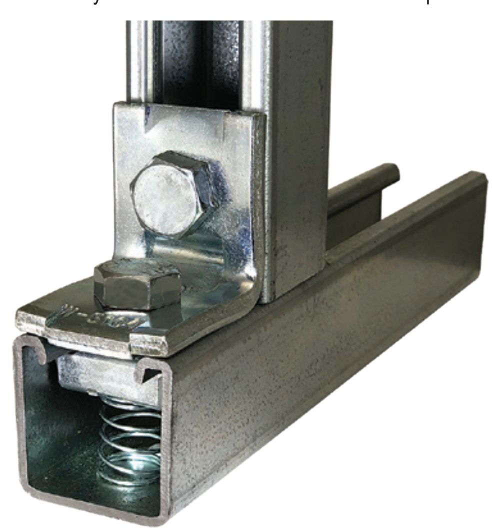
The stiffness of a beam's material is measured by its "Modulus of Elasticity" or "E". The larger a material's "E", the stiffer it is and the less it deflects. For example, steel is about three times stiffer than aluminum and as a result, deflects only one-third as much Do not confuse stiffness with strength. Two materials may have identical strengths yet still have different "E's". A high-strength aluminum may be as strong as steel and still deflect three times as much.

The load charts and tables give calculated deflections for the loads shown. In many cases, a final design will be determined by the maximum deflection, not the maximum load.

Bending Moment

A beam must not only hold up the anticipated loads, but must also have sufficient additional capacity to safely hold unforeseen variations in applied loads and material strengths. This additional capacity is called a safety factor and is usually regulated by the various design codes and standards. A beam's strength is usually measured by an allowable bending moment or an allowable stress. The traditional approach is the allowable stress method, where a beam is determined to have a maximum allowable stress (in pounds per square inch) which is not to be exceeded.

The approach of the current AISI "Specification For The Design Of Cold-Formed Steel Structural Members" is to use a maximum allowable bending moment (in inch-pounds) which is not to be exceeded. Bending moment divided by a beam's section modulus or "S" equals stress.



Columns are structural members that are loaded parallel to their length. Most columns are vertical and are used to carry loads from a higher level to a lower level. However, any member subjected to compression loads, such as a diagonal or prop brace, is a column.

A column fails by “buckling”, which is a sudden loss of straightness and subsequent collapse. Allowable column load is dependent on:

(a) The length of column

(b) The type of loading

(c) The support conditions

(d) The column’s cross-sectional shape and material.

Column Length

The column length is measured from braced point to braced point. A braced point is where the column is restrained from lateral movement (translation) in all directions.

Column Loading – Concentric Loading

Loads applied to the center of gravity of the column cross-section are considered concentric. A beam that passes over and rests on the top of a column is an example of concentric loading.

Column Loading – Eccentric Loading

Any load which is not concentric is eccentric. The amount of eccentricity (in inches) has a major effect on the load-carrying capacity of any particular column. A load that is transmitted to a column using a standard fitting bolted to the slot face, is considered eccentric.

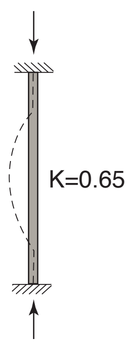
The load tables give allowable loads for both concentric (loaded at C G) and certain eccentric (loaded at slot face) loading. Allowable loads for other eccentric loading must be determined by a qualified design professional.

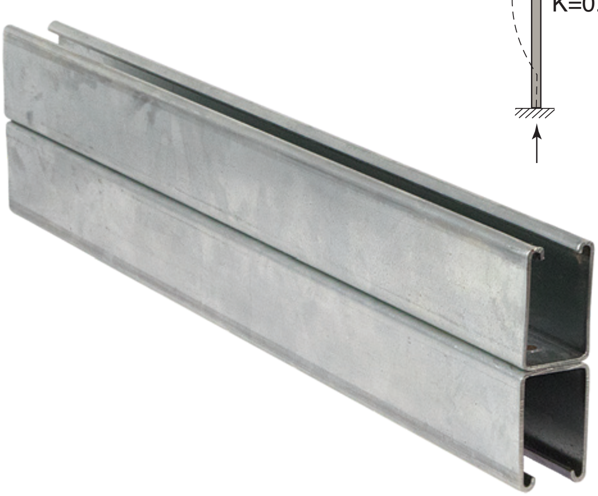
Support Conditions

Based on the support conditions, an appropriate "K" value is selected. This “K” value, which mathematically describes the column end conditions, is used in the column design equations. The most common support condition combinations are as follows:

Support Conditions - Fixed Top – Fixed Bottom

Both ends are restrained against rotation and lateral movement (translation).

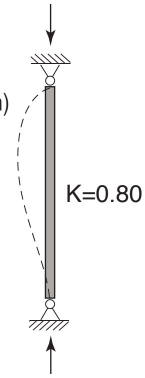




Support Conditions - Pinned Top – Fixed Bottom

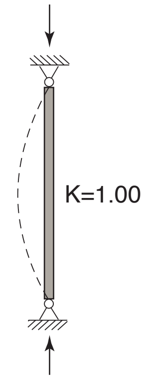
The top is restrained against lateral movement (translation) but is allowed to rotate. The bottom is restrained against rotation and lateral movement.

This is a common support condition and is used to construct the allowable column load applied at the Slot Face tables.



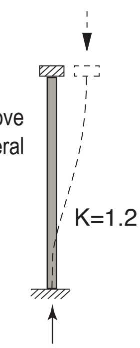
Support Conditions - Pinned Top – Pinned Bottom

Both ends are restrained against lateral movement (translation) but, are allowed to rotate.



Support Conditions - Fixed / Free Top – Fixed Bottom

The top is restrained against rotation, but is allowed to move laterally. The bottom is restrained against rotation and lateral movement (translation).



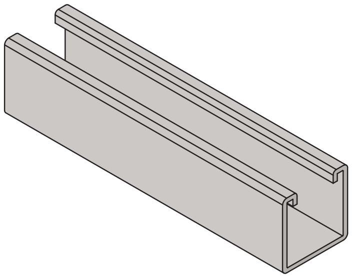
Cross-Sectional Shape

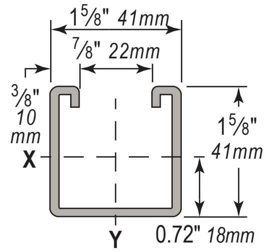
The cross-sectional shape of a column member determines the value of its “Radius of Gyration” or "r". In general, a member with a large "r" makes a better column than a member with a small "r". Each axis of a column has a different "r". Typically the axis with the smallest "r" determines the final design.

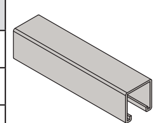
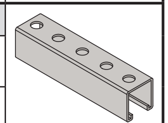
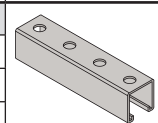
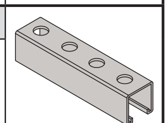
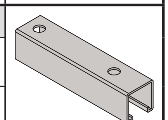
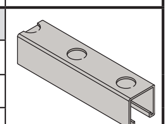
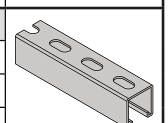
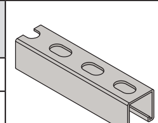
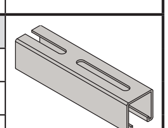
1-5/8" x 1-5/8" *(41mm x 41mm)* Channel

Standard Finish: Pre-Galvanized (PG)

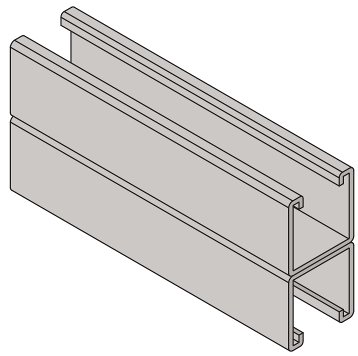
1 5/8" x 1 5/8" *(41mm x 41mm)*

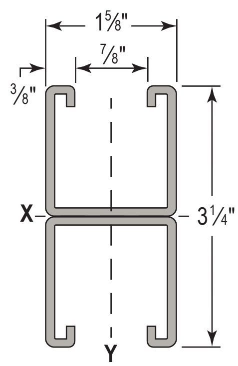


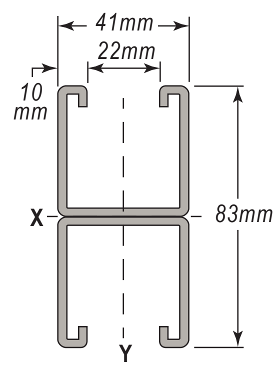


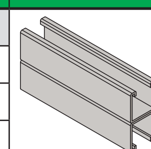
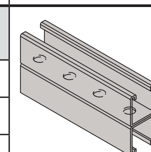
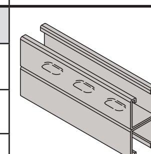
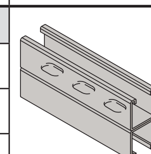
FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 1-5/8"
Solid Channel				
FS12158NS	VA1	W200	12 Ga.	
FS14158NS	VA2	W210	14 Ga.	
--	VA12	--	16 Ga.	
Channel with 17/32" Holes on 1-1/2" center				
--	VA1P15	--	12 Ga.	
--	VA2P15	--	14 Ga.	
Channel with 9/16" Holes on 1-7/8" center *				
FS12158HS	VA1P187	W200H	12 Ga.	
FS14158HS	VA2P187	W210H	14 Ga.	
--	VA12P187	--	16 Ga.	
Channel with 3/4" Holes on 1-7/8" center				
--	VA1CHD	--	12 Ga.	
Channel with 17/32" Holes on 8" center				
--	VA1P8	--	12 Ga.	
--	VA21P8	--	14 Ga.	
Channel with Knock-Outs on 6" center *				
--	VA1KO6	W200KO	12 Ga.	
--	VA2KO6	W210KO	14 Ga.	
--	VA12KO6	--	16 Ga.	
Channel with 9/16" x 1-1/8" Short Slots on 2" center				
FS12158EH	VA1PLH	W200SS	12 Ga.	
FS14158EH	VA2PLH	W210SS	14 Ga.	
--	VA12PLH	--	16 Ga.	
Channel with 11/16" x 1-1/8" Short Slots on 2" center Allows use with 5/8" threaded rod or bolts				
--	VA1PLW	--	12 Ga.	
--	VA2PLW	--	14 Ga.	
--	VA12PLW	--	16 Ga.	
Channel with 13/32" x 3" Long Slots on 4" center				
FS12158SL	VA1P3S	W200SL	12 Ga.	
FS14158SL	VA2P3S	W210SL	14 Ga.	
--	VA12P3S	--	16 Ga.	

1 5/8" x 3 1/4" *(41mm x 83mm)*







FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 3-1/4"
Back-to-Back Solid Channel				
FS12158NSBB	VA1201	W201	12 Ga.	
FS14158NSBB	VA2201	W211	14 Ga.	
--	VA12201	--	16 Ga.	
Back-to-Back Channel with 9/16" Holes on 1-7/8" center *				
FS12158HSBB	VA1201P187	W201H	12 Ga.	
FS14158HSBB	VA2201P187	W211H	14 Ga.	
--	VA12201P187	--	16 Ga.	
Back-to-Back with 9/16" x 1-1/8" Short Slots				
FS12158EHBB	VA1201PLH	W201SS	12 Ga.	
FS14158EHBB	VA2201PLH	W211SS	14 Ga.	
--	VA12201PLH	--	16 Ga.	
Back-to-Back with 11/16" x 1-1/8" Short Slots				
--	VA1201PLW	--	12 Ga.	
--	VA2201PLW	--	14 Ga.	
--	VA12201PLW	--	16 Ga.	

* Various patterns available, contact representative for more information

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available

Materials: Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum

Finishes: Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

1-5/8" x 1-5/8" *(41mm x 41mm)* Channel

12 Gauge Channel Load Data

Section Properties

12 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
1⅝" x 1⅝" *(41mm x 41mm)* **12 Gauge Channel**										
FS12158NS	VA1	W200	1.91 *(2.84)*	0.561 *(3.62)*	0.188 *(7.83)*	0.207 *(3.39)*	0.579 *(1.47)*	0.238 *(9.91)*	0.293 *(4.80)*	0.652 *(1.66)*
1⅝" x 3¼" *(41mm x 83mm)* **12 Gauge Back-to-Back Channel**										
FS12158NSBB	VA1201	W201	3.82 *(5.68)*	1.122 *(7.24)*	0.954 *(39.71)*	0.587 *(9.62)*	0.922 *(2.34)*	0.477 *(19.85)*	0.587 *(9.62)*	0.652 *(1.66)*

1⅝" x 1⅝" *(41mm x 41mm)* 12 Gauge Channel

Allowable Beam Loads

Span In *(mm)*	Max. Uniform Load (W) Lbs *(kN)*	Deflection at Load (W) In *(mm)*	Uniform Load at Deflection Span /240 Lbs *(kN)*	Lateral Bracing Load Reduction Rate
12 *(305)*	3,480 *(15.5)*	0.01 *(0.25)*	3,480 *(15.5)*	1.00
24 *(610)*	1,740 *(7.7)*	0.06 *(1.52)*	1,740 *(7.7)*	1.00
36 *(914)*	1,160 *(5.2)*	0.13 *(3.30)*	1,160 *(5.2)*	0.93
48 *(1,219)*	870 *(3.9)*	0.23 *(5.84)*	770 *(3.4)*	0.87
60 *(1,524)*	700 *(3.1)*	0.35 *(8.89)*	490 *(2.2)*	0.82
72 *(1,829)*	580 *(2.6)*	0.51 *(12.95)*	340 *(1.5)*	0.77
84 *(2,134)*	500 *(2.2)*	0.7 *(17.78)*	250 *(1.1)*	0.74
96 *(2,438)*	430 *(1.9)*	0.89 *(22.61)*	190 *(0.8)*	0.70
108 *(2,743)*	390 *(1.7)*	1.15 *(29.21)*	150 *(0.7)*	0.67
120 *(3,048)*	350 *(1.6)*	1.42 *(36.07)*	120 *(0.5)*	0.65

Allowable Column Loads

Unbraced Height In *(mm)*	Max. Slot Face Load Lbs *(kN)*	Max. Column Load Applied at C.G. K = 1.0 Lbs *(kN)*
12 *(305)*	3,870 *(17.2)*	11,640 *(51.8)*
24 *(610)*	3,620 *(16.1)*	8,830 *(39.3)*
36 *(914)*	3,250 *(14.5)*	6,420 *(28.6)*
48 *(1,219)*	2,800 *(12.5)*	4,710 *(21.0)*
60 *(1,524)*	2,410 *(10.7)*	3,650 *(16.2)*
72 *(1,829)*	2,110 *(9.4)*	2,970 *(13.2)*
84 *(2,134)*	1,870 *(8.3)*	2,490 *(11.1)*
96 *(2,438)*	1,680 *(7.5)*	2,120 *(9.4)*
108 *(2,743)*	1,530 *(6.8)*	1,830 *(8.1)*
120 *(3,048)*	1,390 *(6.2)*	**

1⅝" x 3¼" *(41mm x 83mm)* 12 Gauge Back-to-Back Channel

Allowable Beam Loads

Span In *(mm)*	Max. Uniform Load (W) Lbs *(kN)*	Deflection at Load (W) In *(mm)*	Uniform Load at Deflection Span /240 Lbs *(kN)*	Lateral Bracing Load Reduction Rate
12 *(305)*	2,500 *(11.1)* *	0.00	2,500 *(11.1)* *	1.00
24 *(610)*	2,500 *(11.1)* *	0.02 *(0.51)*	2,500 *(11.1)* *	1.00
36 *(914)*	2,500 *(11.1)* *	0.05 *(1.27)*	2,500 *(11.1)* *	1.00
48 *(1,219)*	2,460 *(10.9)*	0.13 *(3.30)*	2,460 *(10.9)*	1.00
60 *(1,524)*	1,970 *(8.8)*	0.20 *(5.08)*	1,970 *(8.8)*	0.96
72 *(1,829)*	1,640 *(7.3)*	0.28 *(7.11)*	1,640 *(7.3)*	0.92
84 *(2,134)*	1,410 *(6.3)*	0.39 *(9.91)*	1,280 *(5.7)*	0.88
96 *(2,438)*	1,230 *(5.5)*	0.50 *(12.70)*	980 *(4.4)*	0.85
108 *(2,743)*	1,090 *(4.8)*	0.64 *(16.26)*	770 *(3.4)*	0.81
120 *(3,048)*	980 *(4.4)*	0.78 *(19.81)*	630 *(2.8)*	0.77

Allowable Column Loads

Unbraced Height In *(mm)*	Max. Slot Face Load Lbs *(kN)*	Max. Column Load Applied at C.G. K = 1.0 Lbs *(kN)*
12 *(305)*	6,700 *(29.8)*	25,120 *(111.7)*
24 *(610)*	6,580 *(29.3)*	22,900 *(101.9)*
36 *(914)*	6,430 *(28.6)*	20,810 *(92.6)*
48 *(1,219)*	6,290 *(28.0)*	18,860 *(83.9)*
60 *(1,524)*	6,130 *(27.3)*	15,680 *(69.7)*
72 *(1,829)*	5,730 *(25.5)*	12,520 *(55.7)*
84 *(2,134)*	5,270 *(23.4)*	9,570 *(42.6)*
96 *(2,438)*	4,770 *(21.2)*	7,320 *(32.6)*
108 *(2,743)*	4,240 *(18.9)*	5,790 *(25.8)*
120 *(3,048)*	3,750 *(16.7)*	4,690 *(20.9)*

* Load limited by spot weld shear

** KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

- Channel with Short Slots 0.90
- Channel with Long Slots 0.90
- Channel with Holes 0.95
- Knock-Out Channel. 0.95

1-⅝" x 1-⅝" *(41mm x 41mm)* Channel

14 Gauge Channel Load Data

Section Properties

14 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.⁴ (Ix cm⁴)	Sx in.³ (Sx cm³)	rx. in. (rx. cm)	Iy in.⁴ (Iy cm⁴)	Sy in.³ (Sy cm³)	ry in. (ry cm)
1⅝" x 1⅝" *(41mm x 41mm)* **14 Gauge Channel**										
FS14158NS	VA2	W210	1.42 *(2.11)*	0.417 *(2.69)*	0.148 *(6.16)*	0.169 *(2.77)*	0.596 *(1.51)*	0.183 *(7.62)*	0.225 *(3.69)*	0.662 *(1.68)*
1⅝" x 3¼" *(41mm x 83mm)* **14 Gauge Back-to-Back Channel**										
FS14158NSBB	VA2201	W211	2.84 *(4.23)*	0.834 *(5.38)*	0.739 *(30.76)*	0.455 *(7.46)*	0.942 *(2.39)*	0.365 *(15.19)*	0.450 *(7.37)*	0.662 *(1.68)*

1⅝" x 1⅝" *(41mm x 41mm)* 14 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	2,840 *(12.6)*	0.01 (0.25)	2,840 (12.6)	1.00
24 *(610)*	1,420 *(6.3)*	0.06 (1.52)	1,420 (6.3)	0.99
36 *(914)*	950 *(4.2)*	0.13 (3.30)	950 (4.2)	0.88
48 *(1,219)*	710 *(3.2)*	0.23 (5.84)	610 (2.7)	0.77
60 *(1,524)*	570 *(2.5)*	0.37 (9.40)	390 (1.7)	0.66
72 *(1,829)*	470 *(2.1)*	0.52 (13.21)	270 (1.2)	0.57
84 *(2,134)*	410 *(1.8)*	0.72 (18.29)	200 (0.9)	0.50
96 *(2,438)*	350 *(1.6)*	0.92 (23.37)	150 (0.7)	0.45
108 *(2,743)*	320 (1.4)	1.2 (30.48)	120 (0.5)	0.41
120 *(3,048)*	280 (1.2)	1.44 (36.58)	100 (0.4)	0.38

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	3,110 (13.8)	8,660 (38.5)
24 *(610)*	2,880 (12.8)	6,360 (28.3)
36 *(914)*	2,460 (10.9)	4,190 (18.6)
48 *(1,219)*	1980 (8.8)	2,760 (12.3)
60 *(1,524)*	1,570 (7.0)	2,050 (9.1)
72 *(1,829)*	1,300 (5.8)	1,640 (7.3)
84 *(2,134)*	1,100 (4.9)	1,370 (6.1)
96 *(2,438)*	950 (4.2)	1,170 (5.2)
108 *(2,743)*	840 (3.7)	1,030 (4.6)
120 *(3,048)*	750 (3.3)	**

1⅝" x 3¼" *(41mm x 83mm)* 14 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	1,600 *	0.00	1,600 *	1.00
24 *(610)*	1,600 *	0.01	1,600 *	1.00
36 *(914)*	1,600 *	0.04	1,600 *	1.00
48 *(1,219)*	1,600 *	0.11	1,600 *	0.98
60 *(1,524)*	1,530	0.20	1,530	0.93
72 *(1,829)*	1,270	0.28	1,270	0.87
84 *(2,134)*	1,090	0.39	1,090	0.81
96 *(2,438)*	950	0.50	950	0.76
108 *(2,743)*	850	0.64	800	0.70
120 *(3,048)*	760	0.78	650	0.64

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	5,140 (22.9)	18,700 (83.2)
24 *(610)*	5,040 (22.4)	16,860 (75.0.)
36 *(914)*	4,890 (21.8)	14,760 (65.7)
48 *(1,219)*	4,720 (21.0)	12,920 (57.5)
60 *(1,524)*	4,500 (20.0)	11,480 (51.1)
72 *(1,829)*	4,230 (18.8)	9,280 (41.3)
84 *(2,134)*	3,890 (17.3)	7,080 (31.5)
96 *(2,438)*	3,490 (15.5)	5,420 (24.1)
108 *(2,743)*	3,060 (13.6)	4,280 (19.0)
120 *(3,048)*	2,690 (12.0)	3,470 (15.4)

** KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

- Channel with Short Slots 0.90
- Channel with Long Slots 0.90
- Channel with Holes 0.95
- Knock-Out Channel. 0.95

1-5/8" x 1-5/8" *(41mm x 41mm)* Channel

16 Gauge Channel Load Data

IDEAL TRIDON GROUP

Section Properties

16 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
1⅝" x 1⅝" *(41mm x 41mm)* **16 Gauge Channel**										
--	VA12	--	1.20 *(1.79)*	0.340 *(2.20)*	0.123 *(5.11)*	0.140 *(2.29)*	0.610 *(1.55)*	0.149 *(6.20)*	0.184 *(3.00)*	0.672 *(1.70)*
1⅝" x 3¼" *(41mm x 83mm)* **16 Gauge Back-to-Back Channel**										
--	VA12201	--	2.40 *(3.57)*	0.681 *(4.40)*	0.612 *(25.47)*	0.377 *(6.17)*	0.961 *(2.44)*	0.299 *(12.44)*	0.368 *(6.02)*	0.672 *(1.70)*

1⅝" x 1⅝" *(41mm x 41mm)* 16 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	--	--	--	--
24 *(610)*	1,160 (5.2)	0.05 (1.3)	1,160 (5.2)	--
36 *(914)*	770 (3.4)	0.13 (3.3)	770 (3.4)	--
48 *(1,219)*	578 (2.6)	0.23 (5.8)	500 (2.2)	--
60 *(1,524)*	462 (2.1)	0.36 (9.1)	320 (1.4)	--
72 *(1,829)*	382 (1.7)	0.51 (13.0)	220 (1.0)	--
84 *(2,134)*	328 (1.5)	0.7 (17.8)	160 (0.7)	--
96 *(2,438)*	287 (1.3)	0.91 (23.1)	120 (0.5)	--
108 *(2,743)*	255 (1.1)	1.16 (29.5)	95 (0.4)	--
120 *(3,048)*	230 (1.0)	1.43 (36.3)	77 (0.3)	--

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	--	--
24 *(610)*	2,100 (9.3)	3,550 (15.8)
36 *(914)*	1,740 (7.7)	2,960 (13.2)
48 *(1,219)*	1,220 (5.4)	1,770 (7.9)
60 *(1,524)*	890 (4.0)	1,130 (5.0)
72 *(1,829)*	670 (3.0)	780 (3.5)
84 *(2,134)*	510 (2.3)	570 (2.5)
96 *(2,438)*	400 (1.8)	440 (2.0)
108 *(2,743)*	320 (1.4)	350 (1.6)
120 *(3,048)*	270 (1.2)	290 (1.3)

1⅝" x 3¼" *(41mm x 83mm)* 16 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	--	--	--	--
24 *(610)*	1,210 (5.4) *	0.01 (0.3)	1,210 (5.4) *	--
36 *(914)*	1,210 (5.4) *	0.04 (1.0)	1,210 (5.4) *	--
48 *(1,219)*	1,210 (5.4) *	0.10 (2.5)	1,210 (5.4) *	--
60 *(1,524)*	1,100 (4.9)	0.19 (4.8)	1,100 (4.9)	--
72 *(1,829)*	1,050 (4.7)	0.28 (7.11)	1,050 (4.7)	--
84 *(2,134)*	900 (4.0)	0.38 (9.7)	820 (3.6)	--
96 *(2,438)*	788 (3.5)	0.50 (12.7)	630 (2.8)	--
108 *(2,743)*	700 (3.1)	0.63 (16.0)	495 (2.2)	--
120 *(3,048)*	625 (2.8)	0.78 (19.8)	400 (1.8)	--

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	--	--
24 *(610)*	3,590 (16.0)	7,970 (35.5)
36 *(914)*	3,520 (15.7)	7,710 (34.3)
48 *(1,219)*	3,440 (15.3)	7,340 (32.6)
60 *(1,524)*	3,060 (13.6)	6,870 (30.6)
72 *(1,829)*	2,380 (10.6)	6,290 (28.0)
84 *(2,134)*	1,880 (8.4)	5,610 (25.0)
96 *(2,438)*	1,510 (6.7)	4,820 (21.4)
108 *(2,743)*	1,230 (5.5)	3,930 (17.5)
120 *(3,048)*	1,010 (4.5)	3,190 (14.2)

* Load limited by spot weld shear
** KL/r > 200
NR = Not Recommended
Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.
Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

Channel with Short Slots 0.90
Channel with Long Slots 0.90
Channel with Holes 0.95
Knock-Out Channel. 0.95

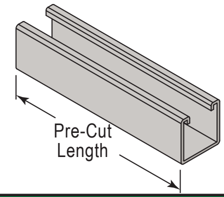
Pre-Cut Channel - 12 Gauge

1-⅝" x 1-⅝" *(41mm x 41mm)*

1⅝" x 1⅝" *(41mm x 41mm)* - Solid or Short Slots Channel - Pre-Cut Lengths

Channel With Short Slots

9⁄16" x 1-⅛" *(14mm x 29mm)* Slots are punched on 2" *(51mm)* centers.



Pre-Cut Length
6" (15.2cm)
12" (0.31m)
18" (0.45m)
24" (0.61m)
30" (0.76m)
36" (0.91m)
42" (1.07m)
48" (1.22m)
54" (1.37m)
60" (1.52m)
72" (1.83m)
80" (2.03m)
96" (2.44m)
10' (3.05m)
20' (6.10m)

Part Number Order Chart for Different Options

FLORIDA STRUT

FS12158 **XX** **XX** **XXXX**

Style:
NS - Solid
EH - Short Slots

Material/Finish:
PG - Pre-Galvanized
S4 - Stainless Steel Type 304
S6 - Stainless Steel Type 316

Length:
06IN 12IN 18IN 24IN 30IN 36IN 42IN 48IN 54IN 60IN 72IN 80IN 96IN

EXAMPLE: FS12158**NSS406IN**
1-⅝" x 1-⅝" **NS** - Solid Channel
S4 - 304 Stainless Steel
06IN - 6" Long

VERSABAR

VA1 **XX** **XXXX**

Style:
VA1 - Solid
VA1PLH - Short Slots

Material/Finish:
PG - Pre-Galvanized
S4 - Stainless Steel Type 304
S6 - Stainless Steel Type 316

Length:
06IN 12IN 18IN 24IN 30IN 36IN 42IN 48IN 54IN 60IN 72IN 80IN 96IN

EXAMPLE: VA1**S624IN**
1-⅝" x 1-⅝" **VA1** - Solid Channel
S6 - 316 Stainless Steel
24IN - 24" Long

WESANCO

W200 **XXXXX** **XXXX**

Style:
W200 - Solid
W200SS - Short Slots

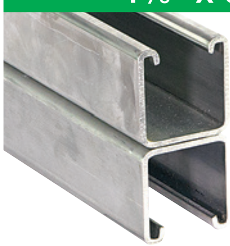
Material/Finish:
PG - Pre-Galvanized
ST304 - Stainless Steel Type 304
ST316 - Stainless Steel Type 316

Length:
06IN 12IN 18IN 24IN 30IN 36IN 42IN 48IN 54IN 60IN 72IN 80IN 96IN

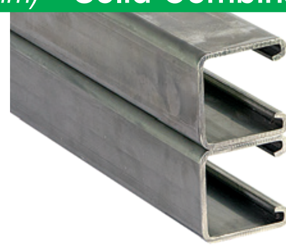
EXAMPLE: W200**ST31648IN**
1-⅝" x 1-⅝" **W200** - Solid Channel
ST316 - 316 Stainless Steel
48IN - 48" Long

Note: Minimum order quantity is 100 pieces for any size under 10'.

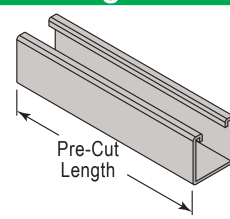
1⅝" x 3¼" *(41mm x 83mm)* - Solid Combination Channel - Pre-Cut Lengths



Back-to-Back



Side-to-Side



Pre-Cut Length
6" (15.2cm)
12" (0.31m)
18" (0.45m)
24" (0.61m)
30" (0.76m)
36" (0.91m)
42" (1.07m)
48" (1.22m)
54" (1.37m)
60" (1.52m)
72" (1.83m)
80" (2.03m)
96" (2.44m)
10' (3.05m)
20' (6.10m)

Part Number Order Chart for Different Options

FLORIDA STRUT

FS12158NSBB **XX** **XXXX**

Style:
NSBB - Back-to-Back

Material/Finish:
PG - Pre-Galvanized
S4 - Stainless Steel Type 304
S6 - Stainless Steel Type 316

Length:
06IN 12IN 18IN 24IN 30IN 36IN 42IN 48IN 54IN 60IN 72IN 80IN 96IN

EXAMPLE: FS12158**NSBBS406IN**
1-⅝" x 3-¼" **NSBB** - Back-to-Back
S4 - 304 Stainless Steel
06IN - 6" Long

VERSABAR

VA1201 **XX** **XXXX**

Style:
VA1201 - Back-to-Back
VA1202 - Side-to-Side

Material/Finish:
PG - Pre-Galvanized
S4 - Stainless Steel Type 304
S6 - Stainless Steel Type 316

Length:
06IN 12IN 18IN 24IN 30IN 36IN 42IN 48IN 54IN 60IN 72IN 80IN 96IN

EXAMPLE: VA1201**S624IN**
1-⅝" x 3-¼" **VA1201** - Back-to-Back
S6 - 316 Stainless Steel
24IN - 24" Long

WESANCO

W201 **XXXXX** **XXXX**

Style:
W201 - Back-to-Back
W202 - Side-to-Side

Material/Finish:
PG - Pre-Galvanized
ST304 - Stainless Steel Type 304
ST316 - Stainless Steel Type 316

Length:
06IN 12IN 18IN 24IN 30IN 36IN 42IN 48IN 54IN 60IN 72IN 80IN 96IN

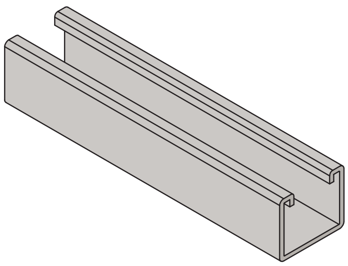
EXAMPLE: W202**ST31648IN**
1-⅝" x 3-¼" **W202** - Side-to-Side
ST316 - 316 Stainless Steel
48IN - 48" Long

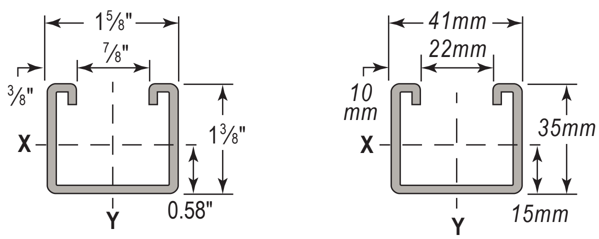
Note: Minimum order quantity is 100 pieces for any size under 10'.

1-5/8" x 1-3/8" *(41mm x 35mm)* Channel

Standard Finish: Pre-Galvanized (PG)

1-5/8" x 1-3/8" *(41mm x 35mm)*

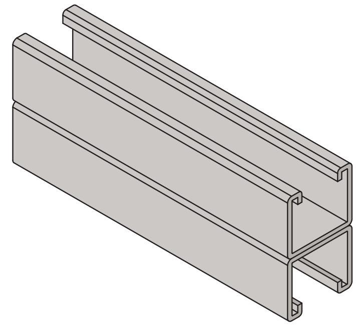


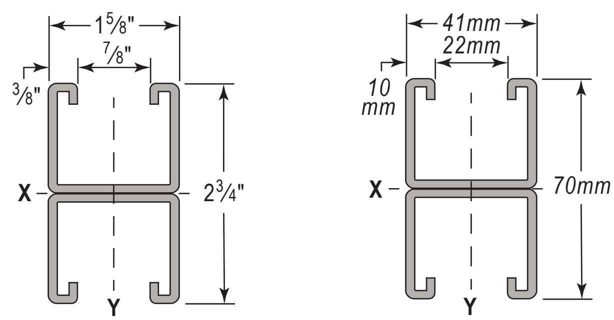


FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 1-3/8"
Solid Channel				
FS12138NS	VA6	W300	12 Ga.	
--	VA7	--	14 Ga.	
Channel with 9/16" Holes on 1-7/8" center *				
FS12138HS	VA6P187	W300H	12 Ga.	
--	VA7P187	--	14 Ga.	
Channel with Knock-Outs on 6" center *				
--	VA6KO6	W300KO	12 Ga.	
--	VA7KO6	--	14 Ga.	
Channel with 9/16" x 1-1/8" Short Slots on 2" center				
FS12138EH	VA6PLH	W300SS	12 Ga.	
--	VA7PLH	--	14 Ga.	
Channel with 11/16" x 1-1/8" Short Slots on 2" center				
--	VA6PLW	--	12 Ga.	
--	VA7PLW	--	14 Ga.	
Channel with 13/32" x 3" Long Slots on 4" center				
FS12138SL	VA6P3S	W300SL	12 Ga.	
--	VA7P3S	--	14 Ga.	

* Various hole patterns available, contact representative for more information

1-5/8" x 2-3/4" *(41mm x 70mm)*





FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 2-3/4"
Back-to-Back Solid Channel				
FS12138NSBB	VA6201	W301	12 Ga.	
--	VA7201	--	14 Ga.	
Back-to-Back with 9/16" x 1-1/8" Short Slots				
FS12138EHBB	VA6201PLH	W301SS	12 Ga.	
--	VA7201PLH	--	14 Ga.	
Back-to-Back with 11/16" x 1-1/8" Short Slots				
--	VA6201PLW	--	12 Ga.	
--	VA7201PLW	--	14 Ga.	

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available

Materials: Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum

Finishes: Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

1-5⁄8" x 1-3⁄8" *(41mm x 35mm)* Channel

12 Gauge Channel Load Data

Section Properties

12 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
1 5⁄8" x 1 3⁄8" *(41mm x 35mm)* **12 Gauge Channel**										
FS12138NS	VA6	W300	1.73 *(2.57)*	0.508 *(3.28)*	0.123 *(5.12)*	0.158 *(2.59)*	0.491 *(1.25)*	0.208 *(8.66)*	0.256 *(4.20)*	0.64 *(1.63)*
1 5⁄8" x 2 3⁄4" *(41mm x 70mm)* **12 Gauge Back-to-Back Channel**										
FS12138NSBB	VA6201	W301	3.46 *(5.15)*	1.017 *(6.56)*	0.608 *(25.31)*	0.443 *(7.26)*	0.774 *(1.97)*	0.416 *(17.32)*	0.512 *(8.39)*	0.64 *(1.63)*

1 5⁄8" x 1 3⁄8" *(41mm x 35mm)* 12 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	2,650 (11.8)	0.02 (0.5)	2,650 (11.8)	1.00
24 *(610)*	1,320 (5.9)	0.07 (1.8)	1,320 (5.9)	1.00
36 *(914)*	880 (3.9)	0.15 (3.8)	880 (3.9)	0.96
48 *(1,219)*	660 (2.9)	0.26 (6.6)	500 (2.2)	0.91
60 *(1,524)*	530 (2.4)	0.41 (10.4)	320 (1.4)	0.87
72 *(1,829)*	440 (2)	0.59 (15.0)	220 (1.0)	0.84
84 *(2,134)*	380 (1.7)	0.81 (20.6)	160 (0.7)	0.81
96 *(2,438)*	330 (1.5)	1.05 (26.7)	130 (0.6)	0.78
108 *(2,743)*	290 (1.3)	1.31 (33.3)	100 (0.4)	0.76
120 *(3,048)*	260 (1.2)	1.62 (41.1)	80 (0.4)	0.74

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	3,480 (15.5)	10,550 (46.9)
24 *(610)*	3,260 (14.5)	8,150 (36.3)
36 *(914)*	2,980 (13.3)	6,180 (27.5)
48 *(1,219)*	2,640 (11.7)	4,760 (21.2)
60 *(1,524)*	2,340 (10.4)	3,720 (16.5)
72 *(1,829)*	2,080 (9.3)	3,010 (13.4)
84 *(2,134)*	1,860 (8.3)	2,470 (11.0)
96 *(2,438)*	1,680 (7.5)	1,890 (8.4)
108 *(2,743)*	1,480 (6.6)	**
120 *(3,048)*	1,280 (5.7)	**

1 5⁄8" x 2 3⁄4" *(41mm x 70mm)* 12 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	2,110 (9.4) *	0.00 (0)	2,110 (9.4) *	1.00
24 *(610)*	2,110 (9.4) *	0.02 (0.5)	2,110 (9.4) *	1.00
36 *(914)*	2,110 (9.4) *	0.07 (1.8)	2,110 (9.4) *	1.00
48 *(1,219)*	1,860 (8.3)	0.15 (3.8)	1,860 (8.3)	1.00
60 *(1,524)*	1,490 (6.6)	0.23 (5.8)	1,490 (6.6)	0.98
72 *(1,829)*	1,240 (5.5)	0.34 (8.6)	1,110 (4.9)	0.95
84 *(2,134)*	1,060 (4.7)	0.46 (11.7)	810 (3.6)	0.91
96 *(2,438)*	930 (4.1)	0.60 (15.2)	620 (2.8)	0.88
108 *(2,743)*	830 (3.7)	0.76 (19.3)	490 (2.2)	0.85
120 *(3,048)*	740 (3.3)	0.93 (23.6)	400 (1.8)	0.82

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	6,000 (26.7)	22,700 (101.0)
24 *(610)*	5,890 (26.2)	20,730 (92.2)
36 *(914)*	5,770 (25.7)	19,080 (84.9)
48 *(1,219)*	5,670 (25.2)	16,850 (75.0)
60 *(1,524)*	5,470 (24.3)	13,900 (61.8)
72 *(1,829)*	5,150 (22.9)	10,990 (48.9)
84 *(2,134)*	4,740 (21.1)	8,320 (37.0)
96 *(2,438)*	4,280 (19.0)	6,370 (28.3)
108 *(2,743)*	3,800 (16.9)	5,030 (22.4)
120 *(3,048)*	3,370 (15.0)	4,070 (18.1)

* Load limited by spot weld shear
** KL/r > 200
NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced. Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

Channel with Short Slots 0.90
Channel with Long Slots 0.90
Channel with Holes 0.95
Knock-Out Channel. 0.95

1-5⁄8" x 1-3⁄8" *(41mm x 35mm)* Channel

14 Gauge Channel Load Data

Section Properties

14 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
1⅝" x 1⅜" *(41mm x 35mm)* **14 Gauge Channel**										
--	VA7	--	1.30 *(1.94)*	0.371 *(2.40)*	0.102 *(4.25)*	0.135 *(2.21)*	0.533 *(1.35)*	0.151 *(6.28)*	0.187 *(3.06)*	0.425 *(1.08)*
1⅝" x 2¾" *(41mm x 70mm)* **14 Gauge Back-to-Back Channel**										
--	VA7201	--	2.67 *(3.97)*	0.743 *(4.80)*	0.478 *(19.89)*	0.347 *(5.68)*	0.817 *(2.07)*	0.304 *(12.65)*	0.374 *(6.11)*	0.425 *(1.08)*

1⅝" x 1⅜" *(41mm x 35mm)* 14 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	--	--	--	--
24 *(610)*	1,012 (4.5)	0.07 (1.8)	1,012 (4.5)	--
36 *(914)*	674 (3.0)	0.15 (3.8)	674 (3.0)	--
48 *(1,219)*	507 (2.3)	0.27 (6.9)	385 (1.7)	--
60 *(1,524)*	406 (1.8)	0.42 (10.7)	248 (1.1)	--
72 *(1,829)*	336 (1.5)	0.60 (15.2)	172 (0.8)	--
84 *(2,134)*	290 (1.3)	0.81 (20.6)	125 (0.6)	--
96 *(2,438)*	252 (1.1)	1.06 (26.9)	95 (0.4)	--
108 *(2,743)*	226 (1.0)	1.34 (34.0)	76 (0.3)	--
120 *(3,048)*	202 (0.9)	1.65 (41.9)	62 (0.3)	--

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	--	--
24 *(610)*	2,159 (9.6)	4,621 (20.6)
36 *(914)*	1,966 (8.7)	3,625 (16.1)
48 *(1,219)*	1,666 (7.4)	2,628 (11.7)
60 *(1,524)*	1,449 (6.4)	2,201 (9.8)
72 *(1,829)*	1,293 (5.8)	1,646 (7.3)
84 *(2,134)*	1,162 (5.2)	1,370 (6.1)
96 *(2,438)*	1,001 (4.5)	1,095 (4.9)
108 *(2,743)*	886 (3.9)	**
120 *(3,048)*	760 (3.4)	**

1⅝" x 2¾" *(41mm x 70mm)* 14 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	--	--	-- *	--
24 *(610)*	1,273 (5.7) *	0.02 (0.5)	1,273 (5.7) *	--
36 *(914)*	1,273 (5.7) *	0.08 (2.0)	1,273 (5.7) *	--
48 *(1,219)*	1,273 (5.7) *	0.15 (3.8)	1,273 (5.7) *	--
60 *(1,524)*	1,132 (5.0)	0.24 (6.1)	1,147 (5.1)	--
72 *(1,829)*	943 (4.2)	0.34 (8.6)	860 (3.8)	--
84 *(2,134)*	807 (3.6)	0.45 (11.4)	630 (2.8)	--
96 *(2,438)*	704 (3.1)	0.60 (15.2)	483 (2.1)	--
108 *(2,743)*	625 (2.8)	0.76 (19.3)	380 (1.7)	--
120 *(3,048)*	585 (2.6)	0.93 (23.6)	309 (1.4)	--

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	--	--
24 *(610)*	4,303 (19.1)	12,867 (57.2)
36 *(914)*	4,166 (18.5)	12,022 (53.5)
48 *(1,219)*	3,984 (17.7)	10,845 (48.2)
60 *(1,524)*	3,587 (16.0)	9,327 (41.5)
72 *(1,829)*	2,622 (11.7)	7,472 (33.2)
84 *(2,134)*	1,983 (8.8)	5,541 (24.6)
96 *(2,438)*	1,534 (6.8)	4,247 (18.9)
108 *(2,743)*	1,214 (5.4)	3,355 (14.9)
120 *(3,048)*	981 (4.4)	2,720 (12.1)

* Load limited by spot weld shear
** KL/r > 200
NR = Not Recommended
Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.
Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

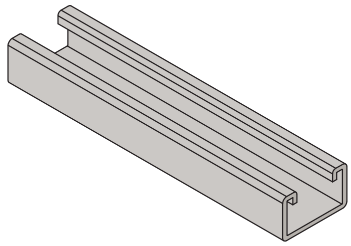
Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

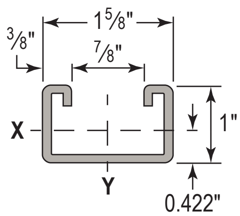
- Channel with Short Slots 0.90
- Channel with Long Slots 0.90
- Channel with Holes 0.95
- Knock-Out Channel. 0.95

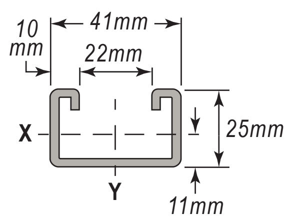
1-5/8" x 1" *(41mm x 25mm)* Channel

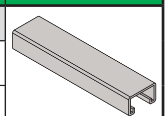
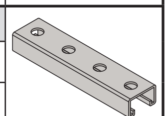
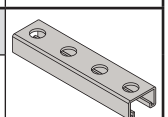
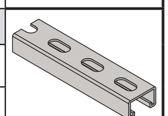
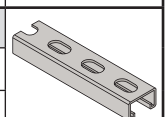
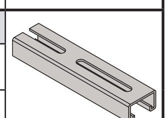
Standard Finish: Pre-Galvanized (PG)

1-5/8" x 1" *(41mm x 25mm)*



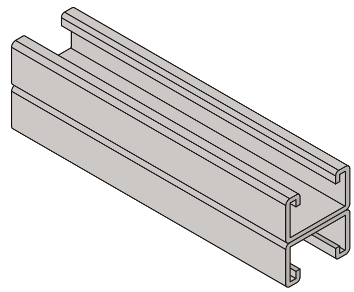


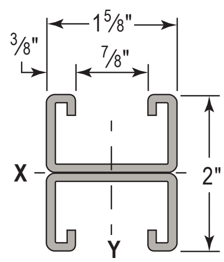


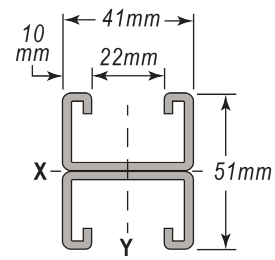
FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 1"
Solid Channel				
FS12100NS	VA10	W800	12 Ga.	
--	VA8	--	14 Ga.	
Channel with 9/16" Holes on 1-7/8" center *				
FS12100HS	VA10P187	W800H	12 Ga.	
--	VA8P187	--	14 Ga.	
Channel with 3/4" Holes on 1-7/8" center				
--	VA10CHD	--	12 Ga.	
Channel with 9/16" x 1-1/8" Short Slots on 2" center				
FS12100EH	VA10PLH	W800SS	12 Ga.	
--	VA8PLH	--	14 Ga.	
Channel with 11/16" x 1-1/8" Short Slots on 2" center				
--	VA10PLW	--	12 Ga.	
--	VA8PLW	--	14 Ga.	
Channel with 13/32" x 3" Long Slots on 4" center				
FS12100SL	VA10P3S	W800SL	12 Ga.	
--	VA8P3S	--	14 Ga.	

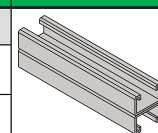
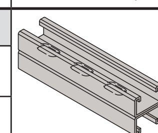
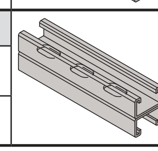
* Various hole patterns available, contact representative for more information

1-5/8" x 2" *(41mm x 51mm)*







FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 2"
Back-to-Back Solid Channel				
FS12100NSBB	VA10201	W801	12 Ga.	
--	VA8201	--	14 Ga.	
Back-to-Back Channel with 9/16" x 1-1/8" Short Slots				
FS12100EHBB	VA10201PLH	W801SS	12 Ga.	
--	VA8201PLH	--	14 Ga.	
Back-to-Back Channel with 11/16" x 1-1/8" Short Slots				
-	VA10201PLW	-	12 Ga.	
--	VA8201PLW	--	14 Ga.	

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available

Materials: Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum

Finishes: Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

1-⅝" x 1" *(41mm x 25mm)* Channel

12 Gauge Channel Load Data

Section Properties

12 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
1⅝" x 1" *(41mm x 25mm)* **12 Gauge Channel**										
FS12100NS	VA10	W800	1.46 *(2.17)*	0.43 *(2.77)*	0.054 *(2.25)*	0.093 *(1.52)*	0.354 *(0.90)*	0.163 *(6.78)*	0.200 *(3.28)*	0.615 *(1.56)*
1⅝" x 2" *(41mm x 51mm)* **12 Gauge Back-to-Back Channel**										
FS12100NSBB	VA10201	W801	2.92 *(4.35)*	0.859 *(5.54)*	0.261 *(10.86)*	0.261 *(4.28)*	0.551 *(1.40)*	0.325 *(13.53)*	0.400 *(6.55)*	0.615 *(1.56)*

1⅝" x 1" *(41mm x 25mm)* 12 Gauge Channel

Allowable Beam Loads

Span In *(mm)*	Max. Uniform Load (W) Lbs *(kN)*	Deflection at Load (W) In *(mm)*	Uniform Load at Deflection Span /240 Lbs *(kN)*	Lateral Bracing Load Reduction Rate
12 *(305)*	1,560 (6.9)	0.02 (0.5)	1,560 (6.9)	1.00
24 *(610)*	1,040 (4.6)	0.05 (1.3)	1,040 (4.6)	1.00
36 *(914)*	780 (3.5)	0.09 (2.3)	780 (3.5)	1.00
48 *(1,219)*	630 (2.8)	0.14 (3.6)	570 (2.5)	1.00
60 *(1,524)*	520 (2.3)	0.20 (5.1)	390 (1.7)	1.00
72 *(1,829)*	450 (2.0)	0.27 (6.9)	290 (1.3)	0.97
84 *(2,134)*	390 (1.7)	0.35 (8.9)	220 (1.0)	0.94
96 *(2,438)*	310 (1.4)	0.55 (14.0)	140 (0.6)	0.91
108 *(2,743)*	260 (1.2)	0.79 (20.1)	100 (0.4)	0.89
120 *(3,048)*	220 (1.0)	1.07 (27.2)	70 (0.3)	0.86

Allowable Column Loads

Unbraced Height In *(mm)*	Max. Slot Face Load Lbs *(kN)*	Max. Column Load Applied at C.G. K = 1.0 Lbs *(kN)*
12 *(305)*	2,220 (9.9)	9,350 (41.6)
24 *(610)*	2,190 (9.7)	8,580 (38.2)
36 *(914)*	2,150 (9.6)	7,600 (33.8)
48 *(1,219)*	2,090 (9.3)	6,500 (28.9)
60 *(1,524)*	2,020 (9.0)	5,370 (23.9)
72 *(1,829)*	1,930 (8.6)	4,290 (19.1)
84 *(2,134)*	1,820 (8.1)	3,320 (14.8)
96 *(2,438)*	1,540 (6.9)	2,120 (9.4)
108 *(2,743)*	1280 (5.7)	**
120 *(3,048)*	1,060 (4.7)	**

1⅝" x 2" *(41mm x 51mm)* 12 Gauge Back-to-Back Channel

Allowable Beam Loads

Span In *(mm)*	Max. Un2iform Load (W) Lbs *(kN)*	Deflection at Load (W) In *(mm)*	Uniform Load at Deflection Span /240 Lbs *(kN)*	Lateral Bracing Load Reduction Rate
12 *(305)*	1,520 *	0.00	1,520 *	1.00
24 *(610)*	1,520 *	0.02	1,520 *	1.00
36 *(914)*	1,520 *	0.04	1,520 *	1.00
48 *(1,219)*	1,520 *	0.07	1,520 *	0.94
60 *(1,524)*	1,460	0.12	1,460	0.88
72 *(1,829)*	1,250	0.16	1,250	0.83
84 *(2,134)*	1,090	0.20	1,070	0.77
96 *(2,438)*	870	0.32	680	0.72
108 *(2,743)*	730	0.46	470	0.67
120 *(3,048)*	620	0.62	350	0.61

Allowable Column Loads

Unbraced Height In *(mm)*	Max. Slot Face Load Lbs *(kN)*	Max. Column Load Applied at C.G. K = 1.0 Lbs *(kN)*
12 *(305)*	5,660	18,430
24 *(610)*	5,560	17,000
36 *(914)*	5,440	15,640
48 *(1,219)*	5,320	14,510
60 *(1,524)*	5,210	13,590
72 *(1,829)*	5,110	11,810
84 *(2,134)*	4,920	10,050
96 *(2,438)*	4,320	6,820
108 *(2,743)*	3,660	4,730
120 *(3,048)*	3,030	3,480

* Load limited by spot weld shear
** KL/r > 200
NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

Channel with Short Slots 0.90
Channel with Long Slots 0.90
Channel with Holes 0.95
Knock-Out Channel. 0.95

1-$^5/_8$" x 1" *(41mm x 25mm)* Channel

14 Gauge Channel Load Data

Section Properties

14 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
1$^5/_8$" x 1" *(41mm x 25mm)* **14 Gauge Channel**										
--	VA8	--	1.13 *(1.68)*	0.318 *(2.04)*	0.044 *(1.83)*	0.078 *(1.27)*	0.348 *(0.89)*	0.121 *(5.04)*	0.149 *(2.43)*	0.396 *(1.00)*
1$^5/_8$" x 2" *(41mm x 51mm)* **14 Gauge Back-to-Back Channel**										
--	VA8201	--	2.92 *(4.35)*	0.859 *(5.54)*	0.261 *(10.86)*	0.261 *(4.28)*	0.551 *(1.40)*	0.325 *(13.53)*	0.400 *(6.55)*	0.615 *(1.56)*

1$^5/_8$" x 1" *(41mm x 25mm)* 14 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	--	--	--	--
24 *(610)*	546 (2.4)	0.11 (2.8)	546 (2.4)	--
36 *(914)*	390 (1.7)	0.23 (5.8)	234 (1.0)	--
48 *(1,219)*	250 (1.1)	0.42 (10.7)	138 (0.6)	--
60 *(1,524)*	210 (0.9)	0.64 (16.3)	93 (0.4)	--
72 *(1,829)*	179 (0.8)	0.91 (23.1)	66 (0.3)	--
84 *(2,134)*	156 (0.7)	1.23 (31.2)	46 (0.2)	--
96 *(2,438)*	132 (0.6)	1.60 (40.6)	37 (0.2)	--
108 *(2,743)*	109 (0.5)	1.98 (50.3)	28 (0.1)	--
120 *(3,048)*	105 (0.5)	2.50 (63.5)	21 (0.1)	--

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	--	--
24 *(610)*	2,166 (9.6)	4,119 (18.3)
36 *(914)*	1,876 (8.3)	2,739 (12.2)
48 *(1,219)*	1,531 (6.8)	1,870 (8.3)
60 *(1,524)*	1,173 (5.2)	1,127 (5.0)
72 *(1,829)*	897 (4.0)	**
84 *(2,134)*	690 (3.1)	**
96 *(2,438)*	586 (2.6)	**
108 *(2,743)*	496 (2.2)	**
120 *(3,048)*	414 (1.8)	**

1$^5/_8$" x 2" *(41mm x 51mm)* 14 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	--	--	--	--
24 *(610)*	954 (4.2) *	0.07 (1.8)	954 (4.2) *	--
36 *(914)*	954 (4.2) *	0.10 (2.5)	954 (4.2) *	--
48 *(1,219)*	834 (3.7)	0.20 (5.1)	829 (3.7)	--
60 *(1,524)*	563 (2.5)	0.32 (8.1)	529 (2.4)	--
72 *(1,829)*	553 (2.5)	0.46 (11.7)	383 (1.7)	--
84 *(2,134)*	475 (2.1)	0.62 (15.7)	288 (1.3)	--
96 *(2,438)*	413 (1.8)	0.81 (20.6)	205 (0.9)	--
108 *(2,743)*	366 (1.6)	1.03 (26.2)	158 (0.7)	--
120 *(3,048)*	327 (1.5)	1.27 (32.3)	126 (0.6)	--

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	--	--
24 *(610)*	4,028 (17.9)	10,710 (47.6)
36 *(914)*	3,800 (16.9)	9,450 (42.0)
48 *(1,219)*	3,420 (15.2)	7,560 (33.6)
60 *(1,524)*	3,192 (14.2)	5,670 (25.2)
72 *(1,829)*	2,812 (12.5)	3,780 (16.8)
84 *(2,134)*	2,432 (10.8)	2,520 (11.2)
96 *(2,438)*	2,052 (9.1)	1,890 (8.4)
108 *(2,743)*	1,748 (7.8)	1,260 (5.6)
120 *(3,048)*	1,520 (6.8)	**

* Load limited by spot weld shear

** KL / r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

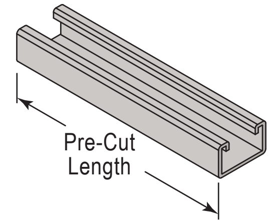
Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

- Channel with Short Slots 0.90
- Channel with Long Slots 0.90
- Channel with Holes 0.95
- Knock-Out Channel. 0.95

Pre-Cut Channel - 12 Gauge

Standard Finish: Pre-Galvanized (PG)

1⅝" x 1" *(41mm x 25mm)* - Solid or Short Slots Channel - Pre-Cut Lengths



Pre-Cut Length
6" (15.2cm)
12" (0.31m)
18" (0.45m)
24" (0.61m)
30" (0.76m)
36" (0.91m)
42" (1.07m)
48" (1.22m)
54" (1.37m)
60" (1.52m)
72" (1.83m)
80" (2.03m)
96" (2.44m)
10' (3.05m)
20' (6.10m)

Part Number Order Chart for Different Options

FLORIDA STRUT

FS12100 **XX** **XX** **XXXX**

Style:
NS - Solid

Material/Finish:
PG - Pre-Galvanized
S4 - Stainless Steel Type 304
S6 - Stainless Steel Type 316

Length:
06IN 48IN
12IN 54IN
18IN 60IN
24IN 72IN
30IN 80IN
36IN 96IN
42IN

EXAMPLE: FS12100**NSS406IN**
1-⅝" x 1"
NS - Solid Channel
S4 - 304 Stainless Steel
06IN - 6" Long

VERSABAR

VA10 **XX** **XXXX**

Style:
VA10 - Solid

Material/Finish:
PG - Pre-Galvanized
S4 - Stainless Steel Type 304
S6 - Stainless Steel Type 316

Length:
06IN 48IN
12IN 54IN
18IN 60IN
24IN 72IN
30IN 80IN
36IN 96IN
42IN

EXAMPLE: VA10**S624IN**
1-⅝" x 1"
VA10 - Solid Channel
S6 - 316 Stainless Steel
24IN - 24" Long

WESANCO

W800 **XXXXX** **XXXX**

Style:
W800 - Solid

Material/Finish:
PG - Pre-Galvanized
ST304 - Stainless Steel Type 304
ST316 - Stainless Steel Type 316

Length:
06IN 48IN
12IN 54IN
18IN 60IN
24IN 72IN
30IN 80IN
36IN 96IN
42IN

EXAMPLE: W800**ST31648IN**
1-⅝" x 1"
W800 - Solid Channel
ST316 - 316 Stainless Steel
48IN - 48" Long

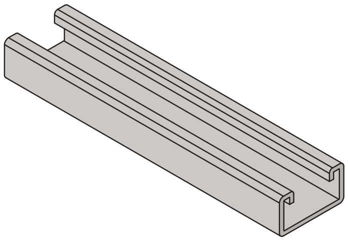
Note: Minimum order quantity is 100 pieces for any size under 10'.

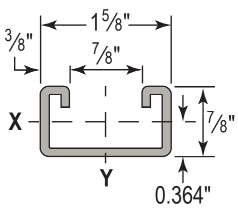
Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available
Materials: Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum
Finishes: Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

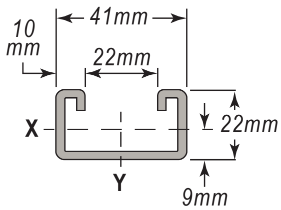
1-5/8" x 7/8" *(41mm x 22mm)* Channel

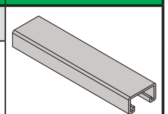
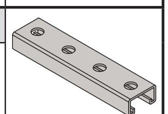
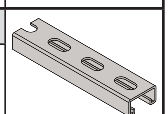
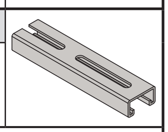
Standard Finish: Pre-Galvanized (PG)

1-5/8" x 7/8" *(41mm x 22mm)*

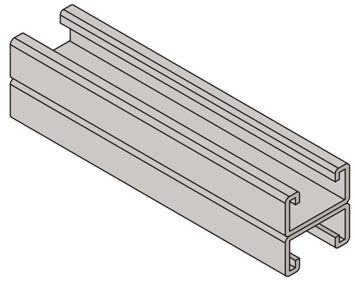


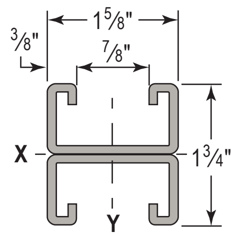


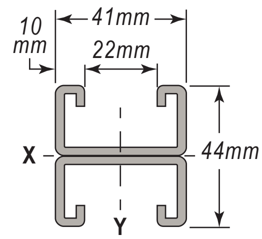


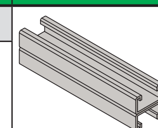
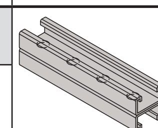
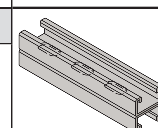
FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 7/8"
Solid Channel				
FS12078NS	--	W900	12 Ga.	
Channel with 9/16" Holes on 1-7/8" center *				
FS12078HS	--	W900H	12 Ga.	
Channel with 9/16" x 1-1/8" Short Slots on 2" center				
FS12078EH	--	W900SS	12 Ga.	
Channel with 13/32" x 3" Long Slots on 4" center				
FS12078SL	--	W900SL	12 Ga.	
* Various hole patterns available, contact representative for more information				

1-5/8" x 1-3/4" *(41mm x 44mm)*







FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 1-3/4"
Back-to-Back Solid Channel				
FS12078NSBB	--	W901	12 Ga.	
Back-to-Back Channel with 9/16" Holes on 1-7/8" center *				
FS12078HSBB	--	W901H	12 Ga.	
Back-to-Back Channel with 9/16" x 1-1/8" Short Slots				
FS121078EHBB	--	W901SS	12 Ga.	

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available
Materials: Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum
Finishes: Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

1-⅝" x ⅞" *(41mm x 22mm)* Channel

12 Gauge Channel Load Data

Section Properties

12 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
1⅝" x ⅞" *(41mm x 22mm)* **12 Gauge Channel**										
FS12078NS	--	W900	1.37 *(2.04)*	0.403 *(2.60)*	0.038 *(1.58)*	0.074 *(1.21)*	0.307 *(0.78)*	0.147 *(6.12)*	0.181 *(2.97)*	0.604 *(1.53)*
1⅝" x 1¾" *(41mm x 44mm)* **12 Gauge Back-to-Back Channel**										
FS12078NSBB	--	W901	2.75 *(4.09)*	0.807 *(5.21)*	0.183 *(7.62)*	0.209 *(3.42)*	0.476 *(1.21)*	0.295 *(12.28)*	0.363 *(5.95)*	0.604 *(1.53)*

1⅝" x ⅞" *(41mm x 22mm)* 12 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	1,250 (5.6)	0.03 (0.8)	1250 (5.6)	1.00
24 *(610)*	830 (3.7)	0.06 (1.5)	830 (3.7)	1.00
36 *(914)*	620 (2.8)	0.10 (2.5)	620 (2.8)	1.00
48 *(1,219)*	500 (2.2)	0.16 (4.1)	400 (1.8)	1.00
60 *(1,524)*	420 (1.9)	0.23 (5.8)	280 (1.2)	0.98
72 *(1,829)*	360 (1.6)	0.31 (7.9)	200 (0.9)	0.97
84 *(2,134)*	310 (1.4)	0.40 (10.2)	160 (0.7)	0.95
96 *(2,438)*	250 (1.1)	0.63 (16.0)	100 (0.4)	0.94
108 *(2,743)*	210 (0.9)	0.91 (23.1)	70 (0.3)	0.92
120 *(3,048)*	180 (0.8)	1.24 (31.5)	50 (0.2)	0.91

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	2,560 (11.4)	8,360 (37.2)
24 *(610)*	2,500 (11.1)	7,580 (33.7)
36 *(914)*	2,440 (10.9)	6,510 (29.0)
48 *(1,219)*	2,330 (10.4)	5,280 (23.5)
60 *(1,524)*	2,190 (9.7)	4,100 (18.2)
72 *(1,829)*	2,020 (9.0)	3,050 (13.6)
84 *(2,134)*	1,820 (8.1)	2,340 (10.4)
96 *(2,438)*	1,420 (6.3)	1,500 (6.7)
108 *(2,743)*	1,110 (4.9)	**
120 *(3,048)*	**	**

1⅝" x 1¾" *(41mm x 44mm)* 12 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	1,310 (5.8) *	0.01 (0.3)	1,310 (5.8) *	1.00
24 *(610)*	1,310 (5.8) *	0.02 (0.5)	1,310 (5.8) *	1.00
36 *(914)*	1,310 (5.8) *	0.04 (1.0)	1,310 (5.8) *	1.00
48 *(1,219)*	1,310 (5.8) *	0.09 (2.3)	1,310 (5.8) *	1.00
60 *(1,524)*	1,170 (5.2)	0.13 (3.3)	1,170 (5.2)	0.99
72 *(1,829)*	1,000 (4.4)	0.18 (4.6)	980 (4.4)	0.97
84 *(2,134)*	880 (3.9)	0.23 (5.8)	750 (3.3)	0.94
96 *(2,438)*	700 (3.1)	0.37 (9.4)	480 (2.1)	0.92
108 *(2,743)*	580 (2.6)	0.52 (13.2)	330 (1.5)	0.89
120 *(3,048)*	500 (2.2)	0.72 (18.3)	240 (1.1)	0.87

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	4,510 (20.1)	17,780 (79.1)
24 *(610)*	4,470 (19.9)	17,040 (75.8)
36 *(914)*	4,430 (19.7)	16,110 (71.7)
48 *(1,219)*	4,380 (19.5)	14,760 (65.7)
60 *(1,524)*	4,290 (19.1)	13,260 (59.0)
72 *(1,829)*	4,190 (18.6)	11,680 (52.0)
84 *(2,134)*	4,070 (18.1)	10,090 (44.9)
96 *(2,438)*	3,770 (16.8)	7,090 (31.5)
108 *(2,743)*	3,370 (15.0)	4,920 (21.9)
120 *(3,048)*	2,880 (12.8)	3,620 (16.1)

* Load limited by spot weld shear

** KL/r > 200

NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

- Channel with Short Slots 0.90
- Channel with Long Slots 0.90
- Channel with Holes 0.95
- Knock-Out Channel. 0.95

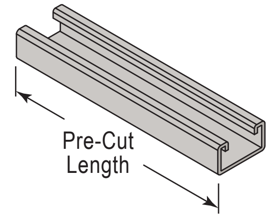
Pre-Cut Channel - 12 Gauge

1-⅝" x ⅞" *(41mm x 22mm)*

1⅝" x ⅞" *(41mm x 22mm)* - Solid or Short Slots Channel - Pre-Cut Lengths

Channel With Short Slots

⁹⁄₁₆" x 1-⅛" *(14mm x 29mm)* Slots are punched on 2" *(51mm)* centers.



Pre-Cut Length	Part Number Order Chart for Different Options		
	FLORIDA STRUT	**VERSABAR**	**WESANCO**
6" (15.2cm) 12" (0.31m) 18" (0.45m) 24" (0.61m) 30" (0.76m) 36" (0.91m) 42" (1.07m) 48" (1.22m) 54" (1.37m) 60" (1.52m) 72" (1.83m) 80" (2.03m) 96" (2.44m) 10' (3.05m) 20' (6.10m)	FS12078 **XX** **XX** **XXXX** Style: **NS** - Solid **EH** - Short Slots Material/Finish: **PG** - Pre-Galvanized **S4** - Stainless Steel Type 304 **S6** - Stainless Steel Type 316 Length: 06IN 48IN 12IN 54IN 18IN 60IN 24IN 72IN 30IN 80IN 36IN 96IN 42IN **EXAMPLE:** FS12078**NSS406IN** 1-⅝" x ⅞" **NS** - Solid Channel **06IN** - 6" Long **S4** - 304 Stainless Steel	N/A	W900 **XXXXX** **XXXX** Style: **W900** - Solid **W900SS** - Short Slots Material/Finish: **PG** - Pre-Galvanized **ST304** - Stainless Steel Type 304 **ST316** - Stainless Steel Type 316 Length: 06IN 48IN 12IN 54IN 18IN 60IN 24IN 72IN 30IN 80IN 36IN 96IN 42IN **EXAMPLE:** W900**ST31648IN** 1-⅝" x ⅞" **W900** - Solid Channel **48IN** - 48" Long **ST316** - 316 Stainless Steel

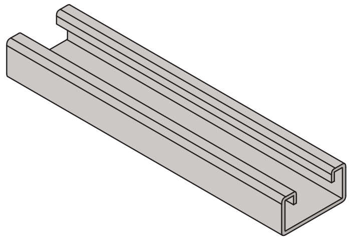
Note: Minimum order quantity is 100 pieces for any size under 10'.

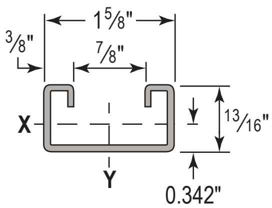
WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

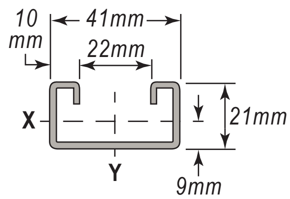
1-⅝" x 13/16" *(41mm x 21mm)* Channel

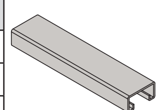
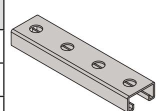
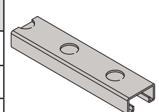
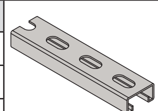
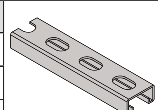
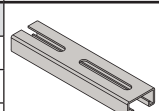
Standard Finish: Pre-Galvanized (PG)

1⅝" x 13/16" *(41mm x 21mm)*



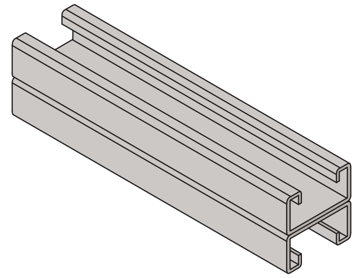


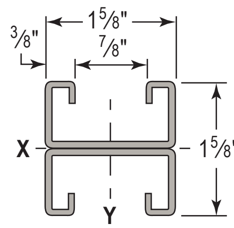


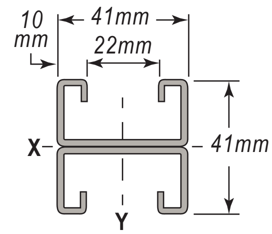
FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-⅝" x 13/16"
Solid Channel				
FS121316NS	VA13	W510	12 Ga.	
FS141316NS	VA4	W500	14 Ga.	
FS161316NS	VA5	W400	16 Ga.	
Channel with Holes on 1-7/8" center *				
FS121316HS	VA13P187	W510H	12 Ga.	
FS141316HS	VA4P187	W500H	14 Ga.	
FS161316HS	VA5P187	W400H	16 Ga.	
Channel with Knock-Outs on 6" center *				
--	VA13KO6	--	12 Ga.	
--	VA4KO6	W500KO	14 Ga.	
--	VA5KO6	W400KO	16 Ga.	
Channel with 9/16" x 1-1/8" Short Slots on 2" center				
FS121316EH	VA13PLH	W510SS	12 Ga.	
FS141316EH	VA4PLH	W500SS	14 Ga.	
FS161316EH	VA5PLH	W400SS	16 Ga.	
Channel with 11/16" x 1-1/8" Short Slots on 2" center				
--	VA13PLW	--	12 Ga.	
--	VA4PLW	--	14 Ga.	
--	VA5PLW	--	16 Ga.	
Channel with 13/32" x 3" Long Slots on 4" center				
FS121316SL	VA13P3S	W510SL	12 Ga.	
FS141316SL	VA4P3S	W500SL	14 Ga.	
FS161316SL	VA5P3S	W400SL	16 Ga.	

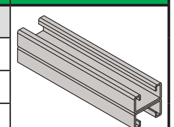
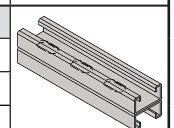
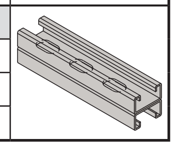
* Various hole patterns available, contact representative for more information

1⅝" x 1⅝" *(41mm x 41mm)*







FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-⅝" x 1-⅝"
Back-to-Back Solid Channel				
FS121316NSBB	VA13201	W511	12 Ga.	
FS141316NSBB	VA4201	W501	14 Ga.	
FS161316NSBB	VA5201	W401	16 Ga.	
Back-to-Back Channel with 9/16" x 1-1/8" Short Slots				
FS121316EHBB	VA13201PLH	W511SS	12 Ga.	
FS141316EHBB	VA4201PLH	W501SS	14 Ga.	
FS161316EHBB	VA5201PLH	W401SS	16 Ga.	
Back-to-Back Channel with 11/16" x 1-1/8" Short Slots				
--	VA13201PLW	--	12 Ga.	
--	VA4201PLW	--	14 Ga.	
--	VA5201PLW	--	16 Ga.	

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available

Materials: Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum

Finishes: Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

1-5/8" x 13/16" *(41mm x 21mm)* Channel

12 Gauge Channel Load Data

Section Properties

12 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
1-5/8" x 13/16" *(41mm x 21mm)* **12 Gauge Channel**										
FS121316NS	VA13	W510	1.27 *(1.89)*	0.374 *(2.41)*	0.0308 *(1.28)*	0.0647 *(1.06)*	0.284 *(0.72)*	0.1375 *(5.72)*	0.1692 *(2.77)*	0.599 *(1.52)*
1-5/8" x 1-5/8" *(41mm x 41mm)* **12 Gauge Back-to-Back Channel**										
FS121316NSBB	VA13201	W511	2.54 *(3.78)*	0.747 *(4.82)*	0.1481 *(6.16)*	0.1823 *(2.99)*	0.440 *(1.12)*	0.275 *(11.44)*	0.3385 *(5.55)*	0.599 *(1.52)*

1-5/8" x 13/16" *(41mm x 21mm)* 12 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	--	--	--	--
24 *(610)*	532 (2.4)	0.11 (2.8)	502 (2.2)	--
36 *(914)*	358 (1.6)	0.24 (6.1)	223 (1.0)	--
48 *(1,219)*	265 (1.2)	0.43 (10.9)	122 (0.5)	--
60 *(1,524)*	212 (0.9)	0.67 (17.0)	78 (0.3)	--
72 *(1,829)*	175 (0.8)	0.96 (24.4)	54 (0.2)	--
84 *(2,134)*	152 (0.7)	1.31 (33.3)	39 (0.2)	--
96 *(2,438)*	132 (0.6)	1.71 (43.4)	30 (0.1)	--
108 *(2,743)*	118 (0.5)	2.16 (54.9)	22 (0.1)	--
120 *(3,048)*	102 (0.5)	2.67 (67.8)	18 (0.1)	--

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	--	--
24 *(610)*	2,750 (12.2)	6,515 (29.0)
36 *(914)*	2,150 (9.6)	3600 (16.0)
48 *(1,219)*	1,558 (6.9)	2,030 (9.0)
60 *(1,524)*	1,158 (5.2)	**
72 *(1,829)*	888 (4.0)	**
84 *(2,134)*	700 (3.1)	**
96 *(2,438)*	565 (2.5)	**
108 *(2,743)*	460 (2.0)	**
120 *(3,048)*	390 (1.7)	**

1-5/8" x 1-5/8" *(41mm x 41mm)* 12 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	-- *	--	-- *	--
24 *(610)*	1,268 (5.6) *	0.05 (1.3)	1,268 (5.6) *	--
36 *(914)*	1,011 (4.5) *	0.14 (3.6)	1,011 (4.5) *	--
48 *(1,219)*	755 (3.4) *	0.25 (6.4)	602 (2.7) *	--
60 *(1,524)*	302 (1.3)	0.39 (9.9)	382 (1.7)	--
72 *(1,829)*	502 (2.2)	0.56 (14.2)	268 (1.2)	--
84 *(2,134)*	430 (1.9)	0.77 (19.6)	195 (0.9)	-
96 *(2,438)*	377 (1.7)	1.00 (25.4)	150 (0.7)	--
108 *(2,743)*	335 (1.5)	1.27 (32.3)	118 (0.5)	--
120 *(3,048)*	302 (1.3)	1.56 (39.6)	92 (0.4)	--

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	--	--
24 *(610)*	4,950 (22.0)	16,410 (73.0)
36 *(914)*	4,490 (20.0)	13,370 (59.5)
48 *(1,219)*	3,960 (17.6)	6,775 (30.1)
60 *(1,524)*	3,380 (15.0)	4,330 (19.3)
72 *(1,829)*	2,795 (12.4)	3,010 (13.4)
84 *(2,134)*	2,330 (10.4)	**
96 *(2,438)*	1,970 (8.8)	**
108 *(2,743)*	1,680 (7.5)	**
120 *(3,048)*	1,450 (6.4)	**

* Load limited by spot weld shear
** KL/r > 200
NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced. Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

Channel with Short Slots 0.90
Channel with Long Slots 0.90
Channel with Holes 0.95
Knock-Out Channel. 0.95

1-5/8" x 13/16" *(41mm x 21mm)* Channel

14 Gauge Channel Load Data

IDEAL TRIDON GROUP

Section Properties

14 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix $in.^4$ (Ix cm^4)	Sx $in.^3$ (Sx cm^3)	rx. in. (rx. cm)	Iy $in.^4$ (Iy cm^4)	Sy $in.^3$ (Sy cm^3)	ry in. (ry cm)
1-5/8" x 13/16" *(41mm x 21mm)* 14 Gauge Channel										
FS141316NS	VA4	W500	1.00 *(1.49)*	0.295 *(1.90)*	0.026 *(1.08)*	0.056 *(0.92)*	0.297 *(0.75)*	0.109 *(4.54)*	0.135 *(2.21)*	0.609 *(1.55)*
1-5/8" x 1-5/8" *(41mm x 41mm)* 14 Gauge Back-to-Back Channel										
FS141316NSBB	VA4201	W501	2.01 *(2.99)*	0.59 *(3.81)*	0.122 *(5.08)*	0.15 *(2.46)*	0.454 *(1.15)*	0.219 *(9.12)*	0.269 *(4.41)*	0.609 *(1.55)*

1-5/8" x 13/16" *(41mm x 21mm)* 14 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	930 (4.1)	0.03 (0.8)	930 (4.1)	1.00
24 *(610)*	620 (2.8)	0.06 (1.5)	620 (2.8)	1.00
36 *(914)*	470 (2.1)	0.11 (2.8)	430 (1.9)	0.98
48 *(1,219)*	370 (1.6)	0.17 (4.3)	270 (1.2)	0.94
60 *(1,524)*	310 (1.4)	0.24 (6.1)	190 (0.8)	0.91
72 *(1,829)*	270 (1.2)	0.34 (8.6)	140 (0.6)	0.88
84 *(2,134)*	230 (1.0)	0.43 (10.9)	110 (0.5)	0.86
96 *(2,438)*	190 (0.8)	0.69 (17.5)	70 (0.3)	0.83
108 *(2,743)*	160 (0.7)	1.01 (25.7)	50 (0.2)	0.81
120 *(3,048)*	130 (0.6)	1.30 (33.0)	40 (0.2)	0.79

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	2,010 (8.9)	6,110 (27.2)
24 *(610)*	1,950 (8.7)	5,420 (24.1)
36 *(914)*	1,890 (8.4)	4,650 (20.7)
48 *(1,219)*	1,800 (8.0)	3,720 (16.5)
60 *(1,524)*	1,680 (7.5)	2,840 (12.6)
72 *(1,829)*	1,510 (6.7)	2,100 (9.3)
84 *(2,134)*	1,330 (5.9)	1,610 (7.2)
96 *(2,438)*	1,020 (4.5)	**
108 *(2,743)*	780 (3.5)	**
120 *(3,048)*	**	**

1-5/8" x 1-5/8" *(41mm x 41mm)* 14 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	790 (3.5) *	0.00 (0)	790 (3.5) *	1.00
24 *(610)*	790 (3.5) *	0.02 (0.5)	790 (3.5) *	1.00
36 *(914)*	790 (3.5) *	0.04 (1.0)	790 (3.5) *	1.00
48 *(1,219)*	790 (3.5) *	0.08 (2.0)	790 (3.5) *	0.99
60 *(1,524)*	790 (3.5)	0.13 (3.3)	790 (3.5)	0.95
72 *(1,829)*	720 (3.2)	0.19 (4.8)	650 (2.9)	0.92
84 *(2,134)*	630 (2.8)	0.25 (6.4)	500 (2.2)	0.88
96 *(2,438)*	500 (2.2)	0.39 (9.9)	320 (1.4)	0.84
108 *(2,743)*	420 (1.9)	0.57 (14.5)	220 (1.0)	0.80
120 *(3,048)*	360 (1.6)	0.78 (19.8)	160 (0.7)	0.77

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	3,430 (15.3)	13,000 (57.8)
24 *(610)*	3,390 (15.1)	12,300 (54.7)
36 *(914)*	3,350 (14.9)	11,590 (51.6)
48 *(1,219)*	3,310 (14.7)	10,520 (46.8)
60 *(1,524)*	3,230 (14.4)	9,340 (41.5)
72 *(1,829)*	3,150 (14.0)	8,110 (36.1)
84 *(2,134)*	3,040 (13.5)	6,900 (30.7)
96 *(2,438)*	2,760 (12.3)	4,680 (20.8)
108 *(2,743)*	2,370 (10.5)	3,250 (14.5)
120 *(3,048)*	2,000 (8.9)	2,390 (10.6)

* Load limited by spot weld shear
** KL/r > 200
NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

Channel with Short Slots 0.90
Channel with Long Slots 0.90
Channel with Holes 0.95
Knock-Out Channel. 0.95

1-5⁄8" x 13⁄16" *(41mm x 21mm)* Channel

16 Gauge Channel Load Data

Section Properties

16 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
1⅝" x 13⁄16" *(41mm x 21mm)* **16 Gauge Channel**										
FS161316NS	VA5	W400	0.83 *(1.24)*	0.244 *(1.57)*	0.023 *(0.96)*	0.05 *(0.82)*	0.31 *(0.79)*	0.092 *(3.83)*	0.113 *(1.85)*	0.614 *(1.56)*
1⅝" x 1⅝" *(41mm x 41mm)* **16 Gauge Back-to-Back Channel**										
FS161316NSBB	VA5201	W401	1.66 *(2.47)*	0.487 *(3.14)*	0.105 *(4.37)*	0.129 *(2.11)*	0.463 *(1.18)*	0.184 *(7.66)*	0.226 *(3.70)*	0.614 *(1.56)*

1⅝" x 13⁄16" *(41mm x 21mm)* 16 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	840 (3.7)	0.03 (0.8)	840 (3.7)	1.00
24 *(610)*	560 (2.5)	0.06 (1.5)	560 (2.5)	1.00
36 *(914)*	420 (1.9)	0.11 (2.8)	380 (1.7)	0.94
48 *(1,219)*	330 (1.5)	0.17 (4.3)	250 (1.1)	0.88
60 *(1,524)*	280 (1.2)	0.25 (6.4)	170 (0.8)	0.82
72 *(1,829)*	240 (1.1)	0.34 (8.6)	130 (0.6)	0.78
84 *(2,134)*	210 (0.9)	0.44 (11.2)	100 (0.4)	0.74
96 *(2,438)*	170 (0.8)	0.69 (17.5)	60 (0.3)	0.71
108 *(2,743)*	140 (0.6)	0.99 (25.1)	40 (0.2)	0.68
120 *(3,048)*	120 (0.5)	1.34 (34.0)	30 (0.1)	0.65

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	1,780 (7.9)	5,040 (22.4)
24 *(610)*	1,720 (7.7)	4,420 (19.7)
36 *(914)*	1,650 (7.3)	3,780 (16.8)
48 *(1,219)*	1,570 (7.0)	3,210 (14.3)
60 *(1,524)*	1,470 (6.5)	2,520 (11.2)
72 *(1,829)*	1,340 (6.0)	1,880 (8.4)
84 *(2,134)*	1,180 (5.2)	1,440 (6.4)
96 *(2,438)*	890 (4.0)	920 (4.1)
108 *(2,743)*	690 (3.1)	**
120 *(3,048)*	**	**

1⅝" x 1⅝" *(41mm x 41mm)* 16 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	500 (2.2) *	0.00 (0)	500 (2.2) *	1.00
24 *(610)*	500 (2.2) *	0.01 (0.3)	500 (2.2) *	1.00
36 *(914)*	500 (2.2) *	0.03 (0.8)	500 (2.2) *	1.00
48 *(1,219)*	500 (2.2) *	0.06 (1.5)	500 (2.2) *	0.98
60 *(1,524)*	500 (2.2) *	0.10 (2.5)	500 (2.2) *	0.93
72 *(1,829)*	500 (2.2) *	0.16 (4.1)	500 (2.2) *	0.88
84 *(2,134)*	500 (2.2) *	0.23 (5.8)	430 (1.9)	0.83
96 *(2,438)*	430 (1.9)	0.39 (9.9)	270 (1.2)	0.78
108 *(2,743)*	360 (1.6)	0.57 (14.5)	190 (0.8)	0.74
120 *(3,048)*	310 (1.4)	0.78 (19.8)	140 (0.6)	0.69

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	2,920 (13.0)	10,750 (47.8)
24 *(610)*	2,890 (12.9)	10,140 (45.1)
36 *(914)*	2,850 (12.7)	9,470 (42.1)
48 *(1,219)*	2,800 (12.5)	8,810 (39.2)
60 *(1,524)*	2760 (12.3)	7,870 (35.0)
72 *(1,829)*	2,690 (12.0)	6,900 (30.7)
84 *(2,134)*	2,600 (11.6)	5,920 (26.3)
96 *(2,438)*	2,350 (10.5)	4,090 (18.2)
108 *(2,743)*	2,030 (9.0)	2,840 (12.6)
120 *(3,048)*	1,710 (7.6)	2,090 (9.3)

* Load limited by spot weld shear
** KL/r > 200
NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.
Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

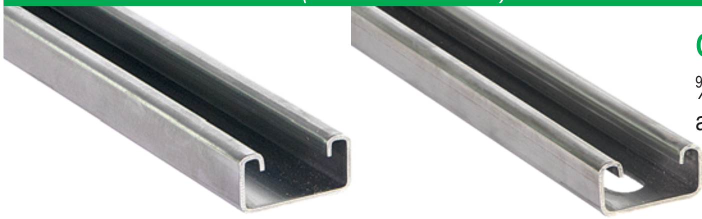
Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

- Channel with Short Slots 0.90
- Channel with Long Slots 0.90
- Channel with Holes 0.95
- Knock-Out Channel. 0.95

Pre-Cut Channel - 14 Gauge

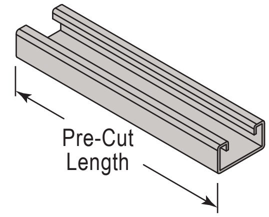
Standard Finish: Pre-Galvanized (PG)

1-5/8" x 13/16" *(41mm x 21mm)* - Solid or Short Slots Channel - Pre-Cut Lengths



Channel With Short Slots

9/16" x 1-1/8" *(14mm x 29mm)* Slots are punched on 2" *(51mm)* centers.



Pre-Cut Length
6" *(15.2cm)*
12" *(0.31m)*
18" *(0.45m)*
24" *(0.61m)*
30" *(0.76m)*
36" *(0.91m)*
42" *(1.07m)*
48" *(1.22m)*
54" *(1.37m)*
60" *(1.52m)*
72" *(1.83m)*
80" *(2.03m)*
96" *(2.44m)*
10' *(3.05m)*
20' *(6.10m)*

Part Number Order Chart for Different Options

FLORIDA STRUT

FS141316 **XX** **XX** **XXXX**

Style:
NS - Solid
EH - Short Slots

Material/Finish:
PG - Pre-Galvanized
S4 - Stainless Steel Type 304
S6 - Stainless Steel Type 316

Length:
06IN 48IN
12IN 54IN
18IN 60IN
24IN 72IN
30IN 80IN
36IN 96IN
42IN

EXAMPLE: FS141316**NSS406IN**

1-5/8" x 13/16"
NS - Solid Channel
S4 - 304 Stainless Steel
06IN - 6" Long

VERSABAR

VA4 **XX** **XXXX**

Style:
VA4 - Solid
VA4PLH - Short Slots

Material/Finish:
PG - Pre-Galvanized
S4 - Stainless Steel Type 304
S6 - Stainless Steel Type 316

Length:
06IN 48IN
12IN 54IN
18IN 60IN
24IN 72IN
30IN 80IN
36IN 96IN
42IN

EXAMPLE: VA4**S624IN**

1-5/8" x 13/16"
VA4 - Solid Channel
S6 - 316 Stainless Steel
24IN - 24" Long

WESANCO

W500 **XXXXX** **XXXX**

Style:
W500 - Solid
W500SS - Short Slots

Material/Finish:
PG - Pre-Galvanized
ST304 - Stainless Steel Type 304
ST316 - Stainless Steel Type 316

Length:
06IN 48IN
12IN 54IN
18IN 60IN
24IN 72IN
30IN 80IN
36IN 96IN
42IN

EXAMPLE: W500**ST31648IN**

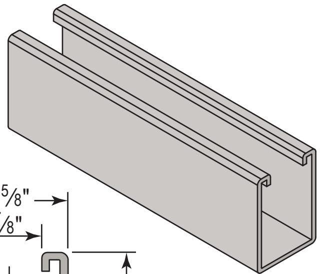
1-5/8" x 13/16"
W500 - Solid Channel
ST316 - 316 Stainless Steel
48IN - 48" Long

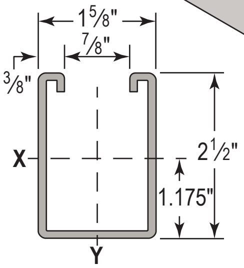
Note: Minimum order quantity is 100 pieces for any size under 10'.

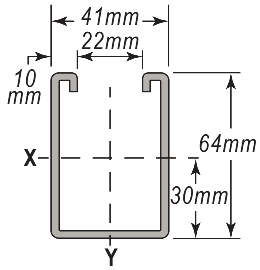
1-5/8" x 2-1/2" *(41mm x 64mm)* Channel

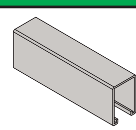
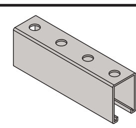
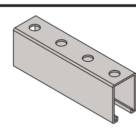
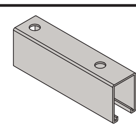
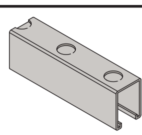
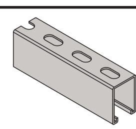
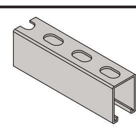
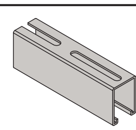
Standard Finish: Pre-Galvanized (PG)

1-5/8" x 2-1/2" *(41mm x 64mm)*



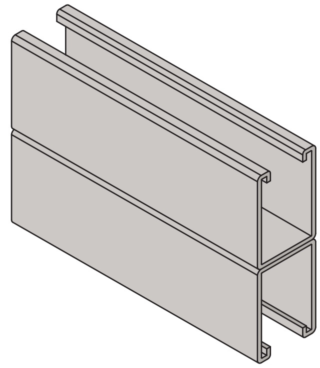


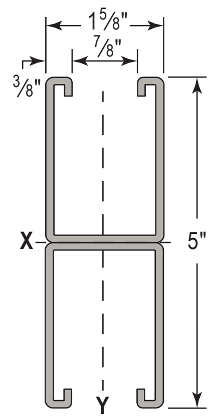


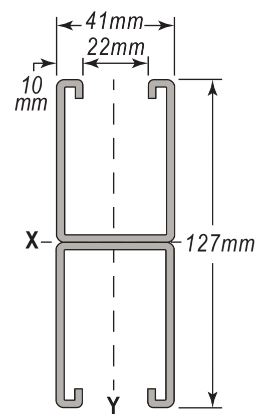
FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 2-1/2"
Solid Channel				
--	VA3	--	12 Ga.	
Channel with 17/32" Holes on 1-1/2" center				
--	VA3P15	--	12 Ga.	
Channel with 17/32" Holes on 1-7/8" center				
--	VA3P187	--	12 Ga.	
Channel with 17/32" Holes on 8" center				
--	VA3P8	--	12 Ga.	
Channel with Knock-Outs on 6" center *				
--	VA3KO6	--	12 Ga.	
Channel with 9/16" x 1-1/8" Short Slots on 2" center				
--	VA3PLH	--	12 Ga.	
Channel with 11/16" x 1-1/8" Short Slots on 2" center				
--	VA3PLW	--	12 Ga.	
Channel with 13/32" x 3" Long Slots on 4" center				
--	VA3P3S	--	12 Ga.	

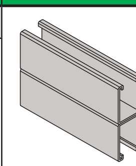
* Various hole patterns available, contact representative for more information

1-5/8" x 5" *(41mm x 127mm)*







FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 5" Solid
Back-to-Back Solid Channel				
--	VA3201	--	12 Ga.	

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available

Materials: Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum

Finishes: Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

1-5/8" x 2-1/2" *(41mm x 64mm)* Channel

IDEAL TRIDON GROUP

Standard Finish: Pre-Galvanized (PG)

Section Properties

12 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
1⅝" x 2½" *(41mm x 64mm)* **12 Gauge Channel**										
--	VA3	--	2.47 *(3.67)*	0.727 *(4.69)*	0.520 *(21.65)*	0.393 *(6.43)*	0.852 *(2.16)*	0.331 *(13.76)*	0.407 *(6.66)*	0.679 *(1.72)*
1⅝" x 5" *(41mm x 127mm)* **12 Gauge Back-to-Back Channel**										
--	VA3201	--	4.94 *(7.35)*	1.453 *(9.37)*	2.813 *(117.1)*	1.154 *(18.91)*	1.402 *(3.56)*	0.661 *(27.52)*	0.814 *(13.33)*	0.679 *(1.72)*

1⅝" x 2½" *(41mm x 64mm)* 12 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	--	--	--	1.00
24 *(610)*	3,283 (14.6)	0.04 (1.0)	3,283 (14.6)	0.99
36 *(914)*	2,193 (9.8)	0.09 (2.3)	2,193 (9.8)	0.88
48 *(1,219)*	1,643 (7.3)	0.15 (3.8)	1,543 (6.9)	0.77
60 *(1,524)*	1,313 (5.8)	0.24 (6.1)	1,313 (5.8)	0.66
72 *(1,829)*	1,093 (4.9)	0.34 (8.6)	951 (4.2)	0.57
84 *(2,134)*	943 (4.2)	0.47 (11.9)	703 (3.1)	0.50
96 *(2,438)*	823 (3.7)	0.61 (15.5)	641 (2.9)	0.45
108 *(2,743)*	733 (3.3)	0.78 (19.8)	422 (1.9)	0.42
120 *(3,048)*	663 (2.9)	0.96 (24.4)	341 (1.5)	0.39

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	--	--
24 *(610)*	4,492 (20.0)	8,631 (38.4)
36 *(914)*	3,816 (17.0)	6,789 (30.2)
48 *(1,219)*	3,088 (13.7)	4,782 (21.3)
60 *(1,524)*	2,612 (11.6)	3,526 (15.7)
72 *(1,829)*	2,198 (9.8)	2,810 (12.5)
84 *(2,134)*	1,720 (7.7)	2,346 (10.4)
96 *(2,438)*	1,391 (6.2)	2,020 (9.0)
108 *(2,743)*	1,156 (5.1)	1,776 (7.9)
120 *(3,048)*	978 (4.4)	1,577 (7.0)

1⅝" x 5" *(41mm x 127mm)* 12 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	--	--	--	1.00
24 *(610)*	4,200 (18.7) *	0.01 (0.3)	4,200 (18.7) *	1.00
36 *(914)*	4,200 (18.7) *	0.03 (0.8)	4,200 (18.7) *	1.00
48 *(1,219)*	4,200 (18.7) *	0.08 (2.0)	4,200 (18.7) *	0.98
60 *(1,524)*	3,872 (17.2)	0.13 (3.3)	3,872 (17.2)	0.92
72 *(1,829)*	3,221 (14.3)	0.19 (4.8)	3,221 (14.3)	0.87
84 *(2,134)*	2,765 (12.3)	0.26 (6.6)	2,765 (12.3)	0.81
96 *(2,438)*	2,421 (10.8)	0.34 (8.6)	2,421 (10.8)	0.75
108 *(2,743)*	2,152 (9.6)	0.43 (10.9)	2,152 (9.6)	0.69
120 *(3,048)*	1,931 (8.6)	0.52 (13.2)	1,841 (8.2)	0.64

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	--	--
24 *(610)*	7,958 (35.4)	20,301 (90.3)
36 *(914)*	7,850 (34.9)	19,515 (86.8)
48 *(1,219)*	7,690 (34.2)	18,420 (81.9)
60 *(1,524)*	6,945 (30.9)	17,020 (75.7)
72 *(1,829)*	5,336 (23.7)	15,281 (68.0)
84 *(2,134)*	4,178 (18.6)	13,251 (58.9)
96 *(2,438)*	3,329 (14.8)	10,892 (48.5)
108 *(2,743)*	2,695 (12.0)	8,625 (38.4)
120 *(3,048)*	2,208 (9.8)	6,972 (31.0)

* Load limited by spot weld shear
** KL/r > 200
NR = Not Recommended
Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.
Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

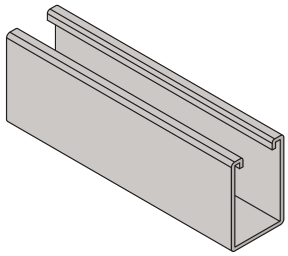
Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

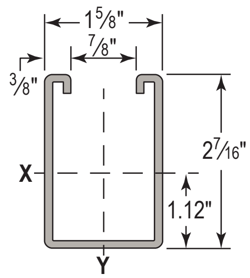
Channel with Short Slots 0.90
Channel with Long Slots 0.90
Channel with Holes 0.95

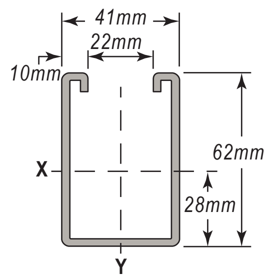
1-5/8" x 2-7/16" *(41mm x 62mm)* Channel

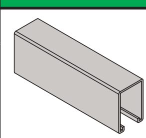
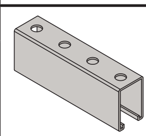
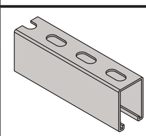
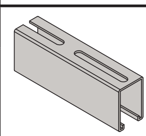
Standard Finish: Pre-Galvanized (PG)

1 5/8" x 2 7/16" *(41mm x 62mm)*

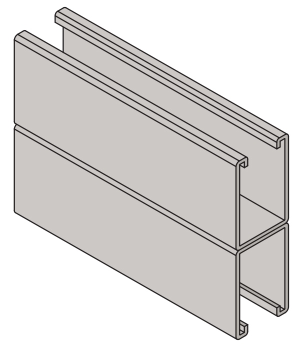


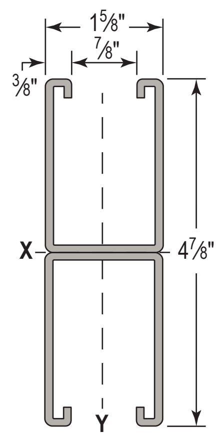


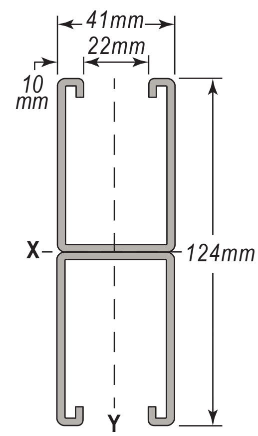


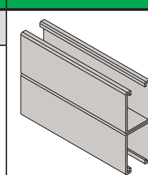
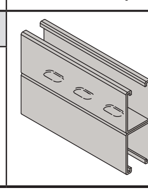
FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 2-7/16"
Solid Channel				
FS122716NS	--	W100	12 Ga.	
Channel with Holes on 1-7/8" center *				
FS122716HS	--	W100H	12 Ga.	
Channel with 9/16" x 1-1/8" Short Slots on 2" center				
FS122716EH	--	W100SS	12 Ga.	
Channel with 13/32" x 3" Long Slots on 4" center				
FS122716SL	--	W100SL	12 Ga.	

1 5/8" x 4 7/8" *(41mm x 124mm)*







FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 4-7/8"
Back-to-Back Solid Channel				
FS122716NSBB	--	W101	12 Ga.	
Back-to-Back Channel with 9/16" x 1-1/8" Short Slots				
FS122716EHBB	--	W101SS	12 Ga.	

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available
Materials: Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum
Finishes: Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

1-⅝" x 2-7⁄16" *(41mm x 62mm)* Channel

Standard Finish: Pre-Galvanized (PG)

Section Properties

12 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.⁴ (Ix cm⁴)	Sx in.³ (Sx cm³)	rx. in. (rx. cm)	Iy in.⁴ (Iy cm⁴)	Sy in.³ (Sy cm³)	ry in. (ry cm)
1⅝" x 27⁄16" *(41mm x 62mm)* 12 Gauge Channel										
FS122716NS	--	W100	2.49 *(3.71)*	0.732 *(4.72)*	0.530 *(22.06)*	0.400 *(6.55)*	0.851 *(2.16)*	0.337 *(14.03)*	0.415 *(6.80)*	0.679 *(1.72)*
1⅝" x 4⅞" *(41mm x 124mm)* 12 Gauge Back-to-Back Channel										
FS122716NSBB	--	W101	4.98 *(7.41)*	1.463 *(9.44)*	2.867 *(119.3)*	1.176 *(19.27)*	1.400 *(3.56)*	0.674 *(28.05)*	0.829 *(13.58)*	0.679 *(1.72)*

1⅝" x 27⁄16" *(41mm x 62mm)* 12 Gauge Channel

Allowable Beam Loads

Span In *(mm)*	Max. Uniform Load (W) Lbs *(kN)*	Deflection at Load (W) In *(mm)*	Uniform Load at Deflection Span /240 Lbs *(kN)*	Lateral Bracing Load Reduction Rate
12 *(305)*	6,700 (29.8)	0.01 (0.3)	6,700 (29.8)	1.00
24 *(610)*	3,350 (14.9)	0.04 (1.0)	3,350 (14.9)	0.99
36 *(914)*	2,230 (9.9)	0.09 (2.3)	2,230 (9.9)	0.88
48 *(1,219)*	1,670 (7.4)	0.15 (3.8)	1,670 (7.4)	0.77
60 *(1,524)*	1,340 (6.0)	0.24 (6.1)	1,340 (6.0)	0.66
72 *(1,829)*	1,120 (5.0)	0.35 (8.9)	960 (4.3)	0.57
84 *(2,134)*	960 (4.3)	0.47 (11.9)	710 (3.2)	0.50
96 *(2,438)*	840 (3.7)	0.62 (15.7)	540 (2.4)	0.45
108 *(2,743)*	740 (3.3)	0.78 (19.8)	430 (1.9)	0.42
120 *(3,048)*	670 (3.0)	0.96 (24.4)	350 (1.6)	0.39

Allowable Column Loads

Unbraced Height In *(mm)*	Max. Slot Face Load Lbs *(kN)*	Max. Column Load Applied at C.G. K = 1.0 Lbs *(kN)*
12 *(305)*	5,090 (22.6)	15,090 (67.1)
24 *(610)*	4,720 (21.0)	10,890 (48.4)
36 *(914)*	4,020 (17.9)	7,040 (31.3)
48 *(1,219)*	3,210 (14.3)	4,630 (20.6)
60 *(1,524)*	2,570 (11.4)	3,460 (15.4)
72 *(1,829)*	2,130 (9.5)	2,780 (12.4)
84 *(2,134)*	1,810 (8.1)	2,340 (10.4)
96 *(2,438)*	1,580 (7.0)	2,020 (9.0)
108 *(2,743)*	1,400 (6.2)	1,780 (7.9)
120 *(3,048)*	1270 (5.6)	1,580 (7.0)

1⅝" x 4⅞" *(41mm x 124mm)* 12 Gauge Back-to-Back Channel

Allowable Beam Loads

Span In *(mm)*	Max. Uniform Load (W) Lbs *(kN)*	Deflection at Load (W) In *(mm)*	Uniform Load at Deflection Span /240 Lbs *(kN)*	Lateral Bracing Load Reduction Rate
12 *(305)*	3,710 (16.5) *	0.00 (0)	3,710 (16.5) *	1.00
24 *(610)*	3,710 (16.5) *	0.01 (0.3)	3,710 (16.5) *	1.00
36 *(914)*	3,710 (16.5) *	0.03 (0.8)	3,710 (16.5) *	1.00
48 *(1,219)*	3,710 (16.5) *	0.06 (1.5)	3,710 (16.5) *	0.98
60 *(1,524)*	3,710 (16.5) *	0.12 (3.0)	3,710 (16.5) *	0.92
72 *(1,829)*	3,290 (14.6)	0.19 (4.8)	3,290 (14.6)	0.87
84 *(2,134)*	2,820 (12.5)	0.26 (6.6)	2,820 (12.5)	0.81
96 *(2,438)*	2,470 (11.0)	0.34 (8.6)	2,470 (11.0)	0.75
108 *(2,743)*	2,190 (9.7)	0.42 (10.7)	2,190 (9.7)	0.69
120 *(3,048)*	1,970 (8.8)	0.52 (13.2)	1,880 (8.4)	0.64

Allowable Column Loads

Unbraced Height In *(mm)*	Max. Slot Face Load Lbs *(kN)*	Max. Column Load Applied at C.G. K = 1.0 Lbs *(kN)*
12 *(305)*	8,890 (39.5)	32,840 (146.1)
24 *(610)*	8,730 (38.8)	29,720 (132.2)
36 *(914)*	8,490 (37.8)	26,150 (116.3)
48 *(1,219)*	8,220 (36.6)	23,020 (102.4)
60 *(1,524)*	7,840 (34.9)	20,590 (91.6)
72 *(1,829)*	7,370 (32.8)	17,300 (77.0)
84 *(2,134)*	6,870 (30.6)	13,530 (60.2)
96 *(2,438)*	6,210 (27.6)	10,370 (46.1)
108 *(2,743)*	5,510 (24.5)	8,190 (36.4)
120 *(3,048)*	4,850 (21.6)	6,640 (29.5)

* Load limited by spot weld shear
** KL/r > 200
NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.

Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

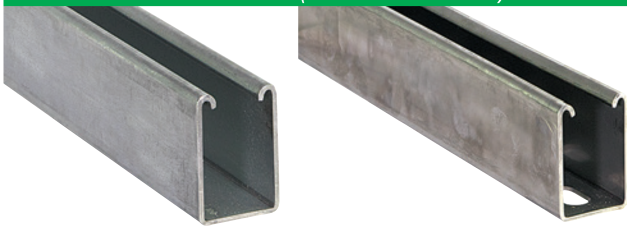
Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

Channel with Short Slots 0.90
Channel with Long Slots 0.90
Channel with Holes 0.95

Pre-Cut Channel - 12 Gauge

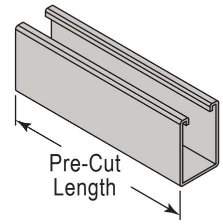
Standard Finish: Pre-Galvanized (PG)

1⅝" x 2⅞" *(41mm x 62mm)* - Solid or Short Slots Channel - Pre-Cut Lengths



Channel With Short Slots

9/16" x 1-⅛" *(14mm x 29mm)* Slots are punched on 2" *(51mm)* centers.



Pre-Cut Length	Part Number Order Chart for Different Options		
	FLORIDA STRUT	**VERSABAR**	**WESANCO**
6" (15.2cm) *12" (0.31m)* *18" (0.45m)* *24" (0.61m)* *30" (0.76m)* *36" (0.91m)* *42" (1.07m)* *48" (1.22m)* *54" (1.37m)* *60" (1.52m)* *72" (1.83m)* *80" (2.03m)* *96" (2.44m)* *10' (3.05m)* *20' (6.10m)*	FS12278 **XX** **XX** **XXXX** Style: **NS** - Solid **EH** - Short Slots Material/Finish: **PG** - Pre-Galvanized **S4** - Stainless Steel Type 304 **S6** - Stainless Steel Type 316 Length: 06IN 48IN 12IN 54IN 18IN 60IN 24IN 72IN 30IN 80IN 36IN 96IN 42IN **EXAMPLE:** FS12278**NSS406IN** 1-⅝" x 2-⅞" **NS** - Solid Channel **S4** - 304 Stainless Steel **06IN** - 6" Long	N/A	W100 **XXXXX** **XXXX** Style: **W100** - Solid **W100SS** - Short Slots Material/Finish: **PG** - Pre-Galvanized **ST304** - Stainless Steel Type 304 **ST316** - Stainless Steel Type 316 Length: 06IN 48IN 12IN 54IN 18IN 60IN 24IN 72IN 30IN 80IN 36IN 96IN 42IN **EXAMPLE:** W100**ST31648IN** 1-⅝" x 2-⅞" **W100** - Solid Channel **ST316** - 316 Stainless Steel **48IN** - 48" Long

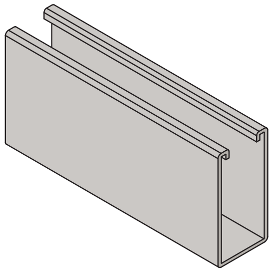
Note: Minimum order quantity is 100 pieces for any size under 10'.

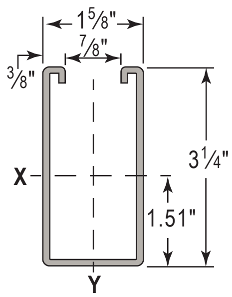
WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

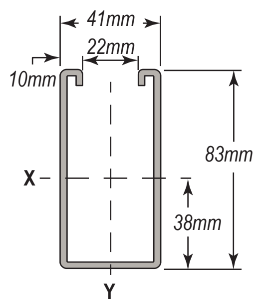
1-5/8" x 3-1/4" *(41mm x 83mm)* Channel

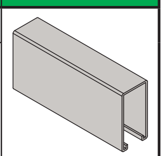
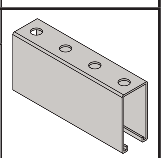
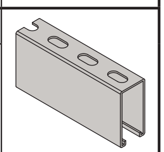
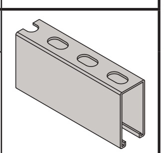
Standard Finish: Pre-Galvanized (PG)

1 5/8" x 3 1/4" *(41mm x 83mm)*



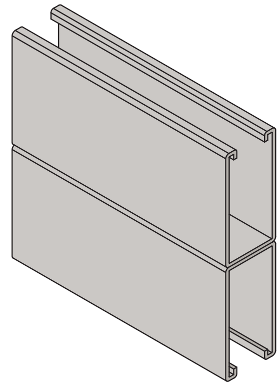


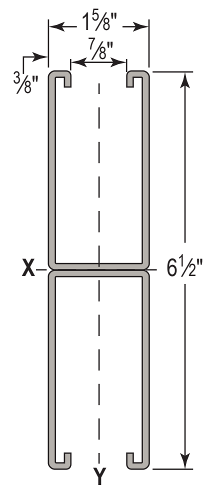


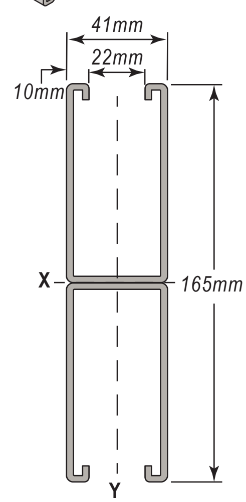
FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 3-1/4"
Solid Channel				
FS12314NS	VA11	W150	12 Ga.	
Channel with 9/16" Holes on 1-7/8" center *				
FS12314HS	VA11P187	W150H	12 Ga.	
Channel with 9/16" x 1-1/8" Short Slots on 2" center				
FS12314EH	VA11PLH	W150SS	12 Ga.	
Channel with 11/16" x 1-1/8" Short Slots on 2" center				
--	VA11PLW	--	12 Ga.	

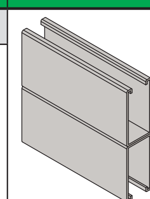
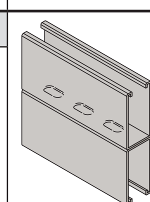
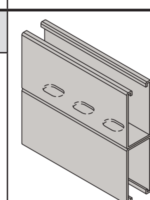
* Various hole patterns available, contact representative for more information

1 5/8" x 6 1/2" *(41mm x 165mm)*







FLORIDA STRUT	VERSABAR	WESANCO	Gauge	1-5/8" x 6-1/2"
Back-to-Back Solid Channel				
FS12314NSBB	VA11201	W151	12 Ga.	
Back-to-Back Channel with 9/16" x 1-1/8" Short Slots				
FS12314EHBB	VA11201PLH	W151SS	12 Ga.	
Back-to-Back Channel with 11/16" x 1-1/8" Short Slots				
	VA11201PLW		12 Ga.	

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available
Materials: Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum
Finishes: Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

1-5/8" x 3-1/4" *(41mm x 83mm)* Channel

Standard Finish: Pre-Galvanized (PG)

Section Properties

12 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
1-5/8" x 3-1/4" *(41mm x 83mm)* **12 Gauge Channel**										
FS12314NS	VA11	W150	3.07 *(4.57)*	0.902 *(5.82)*	1.113 *(46.33)*	0.639 *(10.47)*	1.111 *(2.82)*	0.435 *(18.11)*	0.536 *(8.78)*	0.695 *(1.77)*
1-5/8" x 6-1/2" *(41mm x 165mm)* **12 Gauge Back-to-Back Channel**										
FS12314NSBB	VA11201	W151	6.14 *(9.14)*	1.804 *(11.64)*	6.34 *(263.85)*	1.951 *(31.97)*	1.874 *(4.76)*	0.871 *(36.25)*	1.072 *(17.57)*	0.695 *(1.77)*

1-5/8" x 3-1/4" *(41mm x 83mm)* 12 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	10,720 (47.7)	0.01 (0.3)	10,720 (47.7)	1.00
24 *(610)*	5,360 (23.8)	0.03 (0.8)	5,360 (23.8)	0.98
36 *(914)*	3,570 (15.9)	0.07 (1.8)	3,570 (15.9)	0.85
48 *(1,219)*	2,680 (11.9)	0.12 (3.0)	2,680 (11.9)	0.70
60 *(1,524)*	2,140 (9.5)	0.18 (4.6)	2,140 (9.5)	0.54
72 *(1,829)*	1,790 (8.0)	0.27 (6.9)	1,790 (8.0)	0.44
84 *(2,134)*	1,530 (6.8)	0.36 (9.1)	1,490 (6.6)	0.37
96 *(2,438)*	1,340 (6.0)	0.47 (11.9)	1,140 (5.1)	0.33
108 *(2,743)*	1,190 (5.3)	0.59 (15.0)	900 (4.0)	0.29
120 *(3,048)*	1,070 (4.8)	0.73 (18.5)	730 (3.2)	0.27

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	6,230 (27.7)	18,480 (82.2)
24 *(610)*	5,730 (25.5)	12,890 (57.3)
36 *(914)*	4,740 (21.1)	7,650 (34.0)
48 *(1,219)*	3,590 (16.0)	4,800 (21.4)
60 *(1,524)*	2,740 (12.2)	3,460 (15.4)
72 *(1,829)*	2,160 (9.6)	2,710 (12.1)
84 *(2,134)*	1,760 (7.8)	2,250 (10.0)
96 *(2,438)*	1,500 (6.7)	1,930 (8.6)
108 *(2,743)*	1,310 (5.8)	1,700 (7.6)
120 *(3,048)*	1,170 (5.2)	1,520 (6.8)

1-5/8" x 6-1/2" *(41mm x 165mm)* 12 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	4,890 (21.8) *	0.00 (0)	4,890 (21.8) *	1.00
24 *(610)*	4,890 (21.8) *	0.00 (0)	4,890 (21.8) *	1.00
36 *(914)*	4,890 (21.8) *	0.02 (0.5)	4,890 (21.8) *	1.00
48 *(1,219)*	4,890 (21.8) *	0.04 (1.0)	4,890 (21.8) *	0.96
60 *(1,524)*	4,890 (21.8) *	0.07 (1.8)	4,890 (21.8) *	0.90
72 *(1,829)*	4,890 (21.8) *	0.13 (3.3)	4,890 (21.8) *	0.83
84 *(2,134)*	4,670 (20.8)	0.19 (4.8)	4,670 (20.8)	0.75
96 *(2,438)*	4,090 (18.2)	0.25 (6.4)	4,090 (18.2)	0.68
108 *(2,743)*	3,630 (16.1)	0.32 (8.1)	3,630 (16.1)	0.60
120 *(3,048)*	3,270 (14.5)	0.39 (9.9)	3,270 (14.5)	0.53

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	11,040 (49.1)	40,490 (180.1)
24 *(610)*	10,820 (48.1)	36,400 (161.9)
36 *(914)*	10,490 (46.7)	31,330 (139.4)
48 *(1,219)*	10,080 (44.8)	26,520 (118.0)
60 *(1,524)*	9,400 (41.8)	22,520 (100.2)
72 *(1,829)*	8,650 (38.5)	19,410 (86.3)
84 *(2,134)*	7,930 (35.3)	17,050 (75.8)
96 *(2,438)*	7,280 (32.4)	13,400 (59.6)
108 *(2,743)*	6,660 (29.6)	10,590 (47.1)
120 *(3,048)*	5,800 (25.8)	8,580 (38.2)

* Load limited by spot weld shear
** KL/r > 200
NR = Not Recommended

Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced. Refer to pages 36 - 37 for other beam support conditions.

Beam Loading of Punched Channels

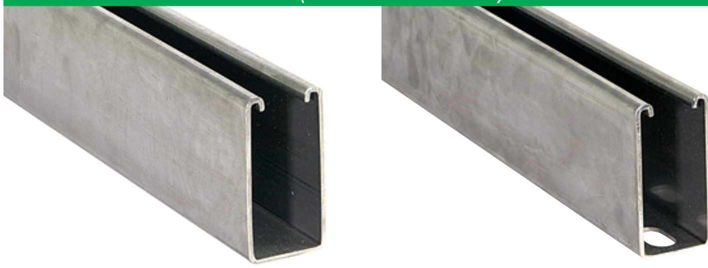
Load for punched channel is obtained by multiplying the loads shown by the following reduction factors:

Channel with Short Slots 0.90
Channel with Holes 0.95

Pre-Cut Channel - 12 Gauge

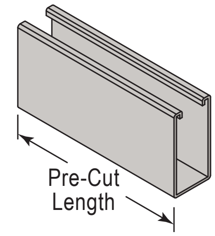
Standard Finish: Pre-Galvanized (PG)

1⅝" x 3¼" *(41mm x 83mm)* - Solid or Short Slots Channel - Pre-Cut Lengths



Channel With Short Slots

9⁄16" x 1-⅛" *(14mm x 29mm)* Slots are punched on 2" *(51mm)* centers.



Pre-Cut Length
6" (15.2cm)
12" (0.31m)
18" (0.45m)
24" (0.61m)
30" (0.76m)
36" (0.91m)
42" (1.07m)
48" (1.22m)
54" (1.37m)
60" (1.52m)
72" (1.83m)
80" (2.03m)
96" (2.44m)
10' (3.05m)
20' (6.10m)

Part Number Order Chart for Different Options

FLORIDA STRUT

FS12314 **XX** **XX** **XXXX**

Style:
NS - Solid
EH - Short Slots

Material/Finish:
PG - Pre-Galvanized
S4 - Stainless Steel Type 304
S6 - Stainless Steel Type 316

Length:
06IN 48IN
12IN 54IN
18IN 60IN
24IN 72IN
30IN 80IN
36IN 96IN
42IN

EXAMPLE: FS12314**NSS406IN**

1-⅝" x 3-¼"
NS - Solid Channel
06IN - 6" Long
S4 - 304 Stainless Steel

VERSABAR

VA11 **XX** **XXXX**

Style:
VA11 - Solid
VA11PLH - Short Slots

Material/Finish:
PG - Pre-Galvanized
S4 - Stainless Steel Type 304
S6 - Stainless Steel Type 316

Length:
06IN 48IN
12IN 54IN
18IN 60IN
24IN 72IN
30IN 80IN
36IN 96IN
42IN

EXAMPLE: VA11**S624IN**

1-⅝" x 3-¼"
VA11 - Solid Channel
24IN - 24" Long
S6 - 316 Stainless Steel

WESANCO

W150 **XXXXX** **XXXX**

Style:
W150 - Solid
W150SS - Short Slots

Material/Finish:
PG - Pre-Galvanized
ST304 - Stainless Steel Type 304
ST316 - Stainless Steel Type 316

Length:
06IN 48IN
12IN 54IN
18IN 60IN
24IN 72IN
30IN 80IN
36IN 96IN
42IN

EXAMPLE: W150**ST31648IN**

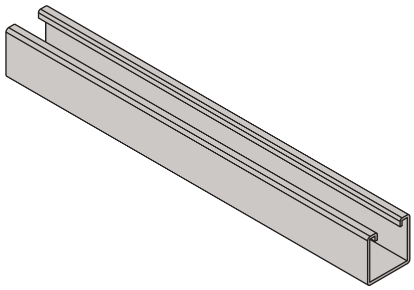
1-⅝" x 3-¼"
W150 - Solid Channel
48IN - 48" Long
ST316 - 316 Stainless Steel

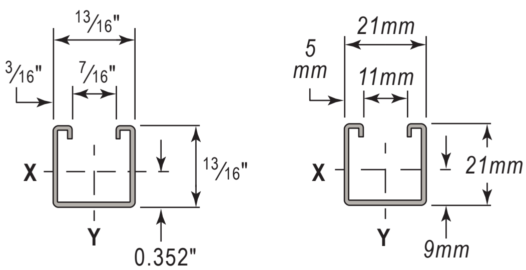
Note: Minimum order quantity is 100 pieces for any size under 10'.

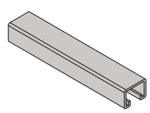
$^{13}/_{16}$" x $^{13}/_{16}$" *(21mm x 21mm)* Channel

Standard Finish: Pre-Galvanized (PG)

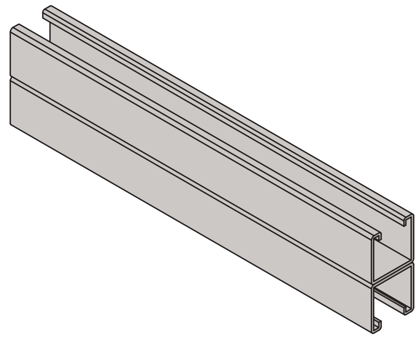
$^{13}/_{16}$" x $^{13}/_{16}$" *(21mm x 21mm)*

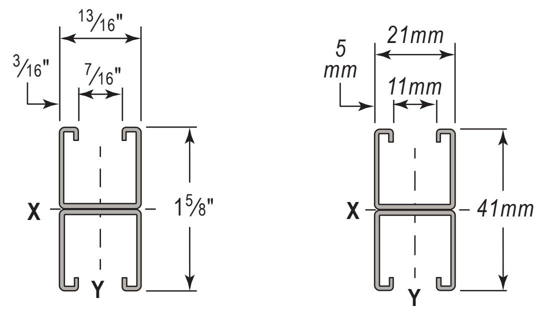


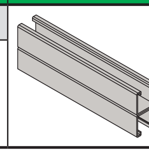


FLORIDA STRUT	VERSABAR	WESANCO	Gauge	$^{13}/_{16}$" x $^{13}/_{16}$" Solid
Solid Channel				
--	--	W600	19 Ga.	

$^{13}/_{16}$" x 1$^{5}/_{8}$" *(21mm x 41mm)*





FLORIDA STRUT	VERSABAR	WESANCO	Gauge	$^{13}/_{16}$" x 1-$^{5}/_{8}$" Solid
Solid Channel				
--	--	W601	19 Ga.	

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available

Materials: Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum

Finishes: Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

13/16" x 13/16" *(21mm x 21mm)* Channel

Standard Finish: Pre-Galvanized (PG)

Section Properties

19 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
13/16" x 13/16" *(21mm x 21mm)* **19 Gauge Channel**										
--	--	W600	0.36 *(0.54)*	0.107 *(0.69)*	0.009 *(0.37)*	0.020 *(0.33)*	0.295 *(0.75)*	0.012 *(0.50)*	0.029 *(0.48)*	0.333 *(0.85)*
13/16" x 1 5/8" *(21mm x 41mm)* **19 Gauge Back-to-Back Channel**										
--	--	W601	0.36 *(0.54)*	0.107 *(0.69)*	0.009 *(0.37)*	0.020 *(0.33)*	0.295 *(0.75)*	0.012 *(0.50)*	0.029 *(0.48)*	0.333 *(0.85)*

13/16" x 13/16" *(21mm x 21mm)* 19 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	340 (1.5)	0.03 (0.8)	340 (1.5)	1.00
24 *(610)*	230 (1.0)	0.06 (1.5)	230 (1.0)	0.80
36 *(914)*	170 (0.8)	0.11 (2.8)	150 (0.7)	0.63
48 *(1,219)*	140 (0.6)	0.18 (4.6)	100 (0.4)	0.52
60 *(1,524)*	110 (0.5)	0.24 (6.1)	70 (0.3)	0.45
72 *(1,829)*	100 (0.4)	0.35 (8.9)	50 (0.2)	0.40
84 *(2,134)*	80 (0.4)	0.42 (10.7)	40 (0.2)	0.37
96 *(2,438)*	70 (0.3)	0.72 (18.3)	NR	0.34
108 *(2,743)*	60 (0.3)	1.06 (26.9)	NR	0.31
120 *(3,048)*	50 (0.2)	1.41 (35.8)	NR	0.30

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	700 (3.1)	1,630 (7.3)
24 *(610)*	600 (2.7)	1,100 (4.9)
36 *(914)*	490 (2.2)	740 (3.3)
48 *(1,219)*	400 (1.8)	560 (2.5)
60 *(1,524)*	340 (1.5)	450 (2.0)
72 *(1,829)*	290 (1.3)	380 (1.7)
84 *(2,134)*	260 (1.2)	330 (1.5)
96 *(2,438)*	210 (0.9)	**
108 *(2,743)*	180 (0.8)	**
120 *(3,048)*	**	**

13/16" x 1 5/8" *(21mm x 41mm)* 19 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	280 (1.2) *	0.00 (0)	280 (1.2) *	1.00
24 *(610)*	280 (1.2) *	0.02 (0.5)	280 (1.2) *	0.99
36 *(914)*	280 (1.2) *	0.04 (1.0)	280 (1.2) *	0.89
48 *(1,219)*	280 (1.2) *	0.07 (1.8)	280 (1.2) *	0.79
60 *(1,524)*	280 (1.2) *	0.13 (3.3)	280 (1.2) *	0.70
72 *(1,829)*	270 (1.2)	0.20 (5.1)	240 (1.1)	0.60
84 *(2,134)*	230 (1.0)	0.25 (6.4)	180 (0.8)	0.51
96 *(2,438)*	190 (0.8)	0.40 (10.2)	120 (0.5)	0.44
108 *(2,743)*	160 (0.7)	0.58 (14.7)	80 (0.4)	0.39
120 *(3,048)*	130 (0.6)	0.75 (19.1)	60 (0.3)	0.35

Allowable Column Loads

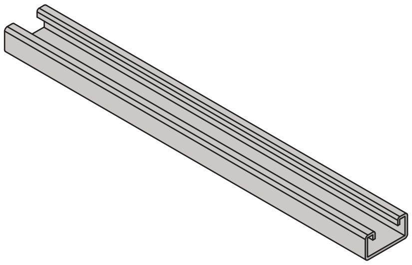
Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	1,240 (5.5)	4,300 (19.1)
24 *(610)*	1,210 (5.4)	3,780 (16.8)
36 *(914)*	1,170 (5.2)	3,340 (14.9)
48 *(1,219)*	1,130 (5.0)	3,010 (13.4)
60 *(1,524)*	1,070 (4.8)	2,460 (10.9)
72 *(1,829)*	990 (4.4)	1,900 (8.5)
84 *(2,134)*	900 (4.0)	1,460 (6.5)
96 *(2,438)*	710 (3.2)	930 (4.1)
108 *(2,743)*	550 (2.4)	**
120 *(3,048)*	**	**

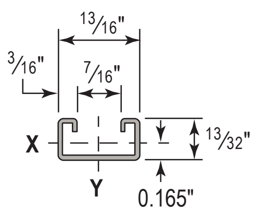
* Load limited by spot weld shear
** KL/r > 200
NR = Not Recommended
Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.
Refer to pages 36 - 37 for other beam support conditions.

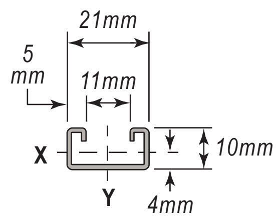
13/16" x 13/32" *(21mm x 10mm)* Channel

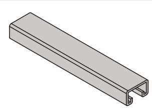
Standard Finish: Pre-Galvanized (PG)

13/16" x 13/32" *(21mm x 10mm)*

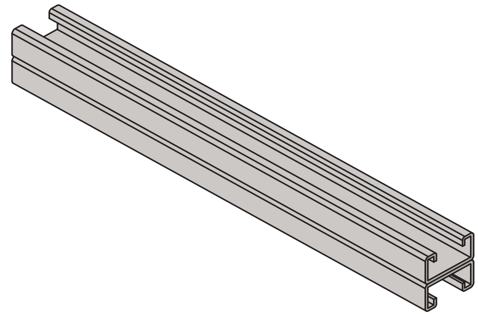


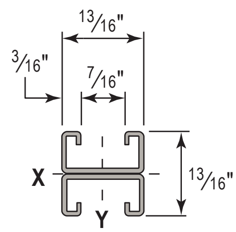


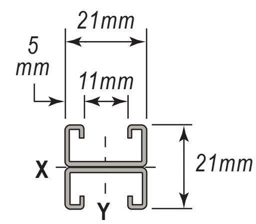


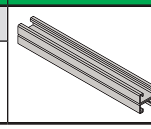
FLORIDA STRUT	VERSABAR	WESANCO	Gauge	13/16" x 13/32" Solid
Solid Channel				
--	--	W700	19 Ga.	

13/16" x 13/16" *(21mm x 21mm)*







FLORIDA STRUT	VERSABAR	WESANCO	Gauge	13/16" x 13/16" Solid
Solid Channel				
--	--	W601	19 Ga.	

Available in 10' & 20' standard lengths & pre-cut lengths • Custom cut lengths, combinations, and pierced channel available
Materials: Cold Rolled Steel, Stainless Steel 304 & 316, and Aluminum
Finishes: Pre-Galvanized, Paint-Green Powder Coating, Electroplated Zinc, Hot Dip Galvanized, Plain, and Special Coatings.

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

13⁄16" x 13⁄32" *(21mm x 10mm)* Channel

Standard Finish: Pre-Galvanized (PG)

Section Properties

19 Gauge Channel Part No.			Wt./Ft. Lbs. (Kg/M)	Area of Section Sq. in. (Sq. cm)	X-X Axis			Y-Y Axis		
FLORIDA STRUT	VERSABAR	WESANCO			Ix in.^{4} (Ix cm^4)	Sx in.^{3} (Sx cm^3)	rx. in. (rx. cm)	Iy in.^{4} (Iy cm^4)	Sy in.^{3} (Sy cm^3)	ry in. (ry cm)
13⁄16" x 13⁄32" *(21mm x 10mm)* 19 Gauge Channel										
--	--	W700	0.25 *(0.37)*	0.074 *(0.48)*	0.002 *(0.08)*	0.007 *(0.11)*	0.149 *(0.38)*	0.007 *(0.29)*	0.017 *(0.28)*	0.307 *(0.78)*
13⁄16" x 13⁄16" *(21mm x 21mm)* 19 Gauge Back-to-Back Channel										
--	--	W701	0.51 *(0.76)*	0.149 *(0.96)*	0.007 *(0.29)*	0.018 *(0.29)*	0.222 *(0.56)*	0.014 *(0.58)*	0.034 *(0.56)*	0.307 *(0.78)*

13⁄16" x 13⁄32" *(21mm x 10mm)* 19 Gauge Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	110 (0.5)	0.05 (1.3)	110 (0.5)	1.00
24 *(610)*	80 (0.4)	0.12 (3.0)	50 (0.2)	0.95
36 *(914)*	60 (0.3)	0.22 (5.6)	30 (0.1)	0.91
48 *(1,219)*	50 (0.2)	0.35 (8.9)	20 (0.1)	0.87
60 *(1,524)*	40 (0.2)	0.48 (12.2)	NR	0.83
72 *(1,829)*	30 (0.1)	0.58 (14.7)	NR	0.80
84 *(2,134)*	30 (0.1)	0.86 (21.8)	NR	0.76
96 *(2,438)*	20 (0.1)	1.12 (28.4)	NR	0.73
108 *(2,743)*	20 (0.1)	1.94 (49.3)	NR	0.70
120 *(3,048)*	20 (0.1)	3.08 (78.2)	NR	0.66

Allowable Column Loads

Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	460 (2.0)	1170 (5.2)
24 *(610)*	410 (1.8)	720 (3.2)
36 *(914)*	330 (1.5)	410 (1.8)
48 *(1,219)*	260 (1.2)	**
60 *(1,524)*	200 (0.9)	**
72 *(1,829)*	**	**
84 *(2,134)*	**	**
96 *(2,438)*	**	**
108 *(2,743)*	**	**
120 *(3,048)*	**	**

13⁄16" x 13⁄16" *(21mm x 21mm)* 19 Gauge Back-to-Back Channel

Allowable Beam Loads

Span	Max. Uniform Load (W)	Deflection at Load (W)	Uniform Load at Deflection Span /240	Lateral Bracing Load Reduction Rate
In *(mm)*	Lbs *(kN)*	In *(mm)*	Lbs *(kN)*	
12 *(305)*	140 (0.6) *	0.01 (0.3)	140 (0.6) *	1.00
24 *(610)*	140 (0.6) *	0.05 (1.3)	140 (0.6) *	1.00
36 *(914)*	140 (0.6) *	0.12 (3.0)	120 (0.5)	0.93
48 *(1,219)*	120 (0.5)	0.20 (5.1)	80 (0.4)	0.87
60 *(1,524)*	100 (0.4)	0.28 (7.1)	50 (0.2)	0.80
72 *(1,829)*	90 (0.4)	0.4 (10.2)	40 (0.2)	0.73
84 *(2,134)*	80 (0.4)	0.53 (13.5)	30 (0.1)	0.67
96 *(2,438)*	60 (0.3)	0.78 (19.8)	NR	0.60
108 *(2,743)*	50 (0.2)	1.13 (28.7)	NR	0.54
120 *(3,048)*	40 (0.2)	1.43 (36.3)	NR	0.49

Allowable Column Loads

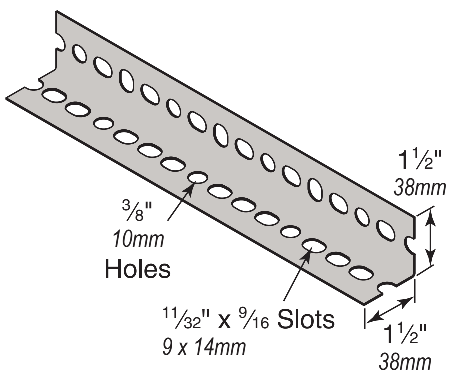
Unbraced Height	Max. Slot Face Load	Max. Column Load Applied at C.G. K = 1.0
In *(mm)*	Lbs *(kN)*	Lbs *(kN)*
12 *(305)*	820 (3.6)	2,910 (12.9)
24 *(610)*	790 (3.5)	2,330 (10.4)
36 *(914)*	740 (3.3)	1,710 (7.6)
48 *(1,219)*	670 (3.0)	1,150 (5.1)
60 *(1,524)*	580 (2.6)	800 (3.6)
72 *(1,829)*	490 (2.2)	590 (2.6)
84 *(2,134)*	420 (1.9)	**
96 *(2,438)*	**	**
108 *(2,743)*	**	**
120 *(3,048)*	**	**

* Load limited by spot weld shear
** KL/r > 200
NR = Not Recommended
Beam loads shown are total uniform load, including the channel weight, for a simple span supported at each end that is adequately laterally braced.
Refer to pages 36 - 37 for other beam support conditions.

Slotted Angle

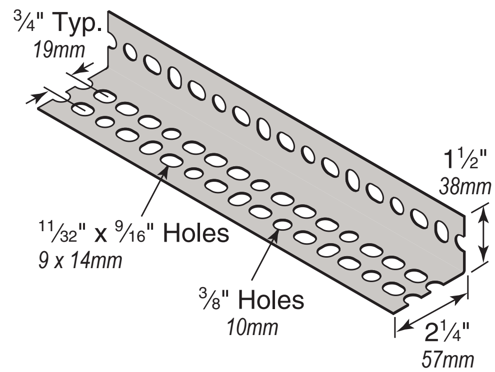
Standard Finish: Pre-Galvanized (PG)

Light Duty Slotted Angle



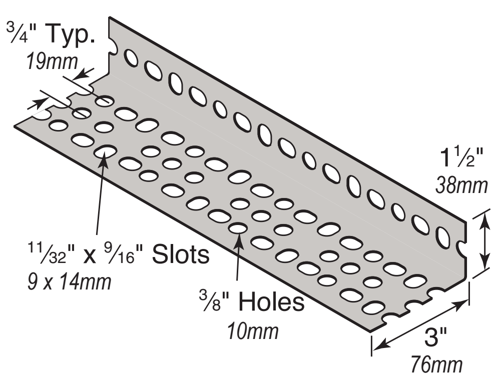
FLORIDA STRUT	VERSABAR	WESANCO	Gauge	Length
SA0150	--	--	14	10 ft.

Medium Duty Slotted Angle



FLORIDA STRUT	VERSABAR	WESANCO	Gauge	Length
SA0225	--	--	14	10 ft.

Heavy Duty Slotted Angle

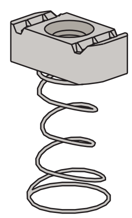


FLORIDA STRUT	VERSABAR	WESANCO	Gauge	Length
SA0300	--	--	12	10 ft.

Channel Nuts & Hardware

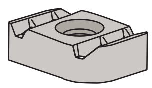
Channel Nuts with Spring

Pages 76 - 77



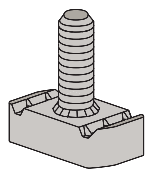
Channel Nuts without Spring

Page 76



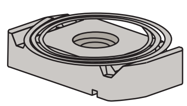
Stud Channel Nuts

Pages 79 - 80



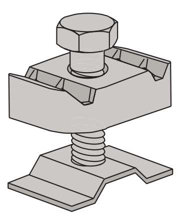
Channel Nut with Top-Lock Spring

Page 78



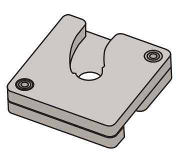
Seismic Rod Stiffener

Page 78



Special Channel Nuts

Page 81

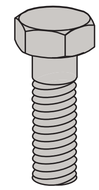


Hardware Material Specifications		
Material	**ASTM Designation**	**ASTM Description**
Bar Stock: Channel Nuts	A 36	Merchant quality hot rolled carbon steel bars.
	A 29-03	Steel bars, carbon, hot rolled special quality.
Bar Stock	A 569	Merchant quality hot rolled carbon steel bars.
Hardware	A 563	Carbon and alloy steel nuts. Carbon steel externally threaded standard fasteners.
	A 307	
Channel Nuts Stainless Steel	B783	Sintered 316 - “Domestic Nut”
	A240	Bar Stock 316 - “Import Nut”
Aluminum Nuts	B221	Channel Nuts

See page 25 for Material or Finish ordering codes for part numbers.

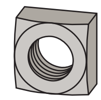
Screws

Page 82



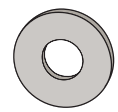
Nuts

Page 83



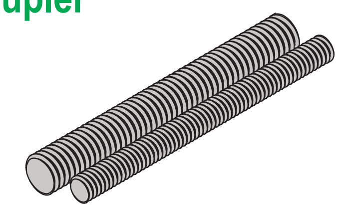
Washers

Page 83



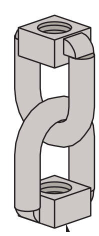
Threaded Rod & Coupler

Pages 82 - 83



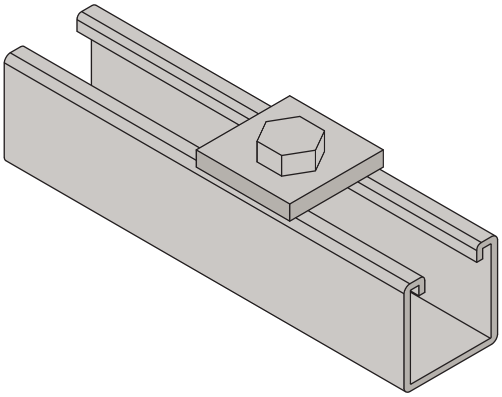
Swivels

Page 84



Hardware Finish Specifications	
Finish	**Description**
Electroplated	Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.
Mill-Galvanized (Pre-Galvanized)	Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present.
Hot Dip Galvanized After Fabrication	Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications: ASTM A 123, ASTM A153, or ASTM A386.
Special Coatings	Other commercially available finishes can be supplied per specification when required to protect applications.

Standard Finish: Electro Galvanized (EG)



Slip And Pull-Out Load Data

Channel Part No.	Channel Nut	Resistance To Slip (Lbs./Bolt) Safety Factor		Resistance To Pull-Out (Lbs./Bolt) Safety Factor	
		3	5	3	5
W200	W2-8	1,500	900	2,000	1,200
W210	W2-8	1,000	600	1,400	840
W300	W2-8	1,500	900	2,000	1,200
W500	W5-8	1,000	600	1,400	840

Apply Proper Torque

A Channel Nut installed within the last inch of Channel (center of bolt to extreme end of Channel) cannot develop full capacity.

REDUCE ULTIMATE DESIGN LOAD BY 50%.

When installing a Channel Nut near the end of a Channel section, especially within the last inch, remember to true the legs forming the continuous Channel slot before inserting and tightening the Channel Nut.

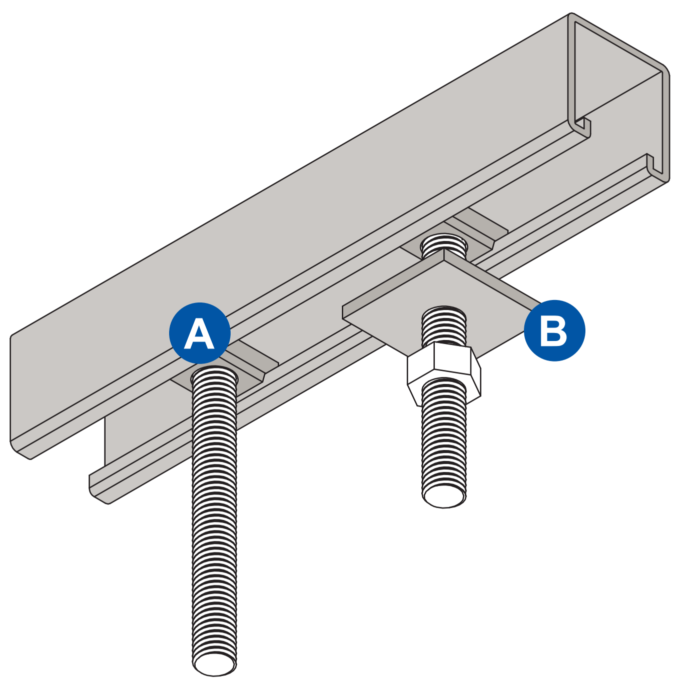
Channel Nuts or their matching threaded fastener that may have been contaminated with oil, wax, petroleum products or any friction reducing medium, will no longer develop a proper torque rating, and may be prone to loosening. To insure proper attachment load rating, properly clean and dry any such contaminated surfaces, paying specific attention to the threaded surfaces. If proper cleaning is not possible, replace the fasteners with uncontaminated stock.

Hanging a section of All Thread Rod directly from a Channel Nut within an overhead mounted section of Channel (without securing with a Fitting or Square Washer and a Hex or Jamb Nut) (Ref. A), does not allow the Channel Nut to function at its proper capacity and could result in the attachment slipping, twisting out or even jumping free of its confinement in a vibration situation. Always capture the Rod and Channel Nut at the face of the Channel as shown (Ref. B). Use proper torque value.

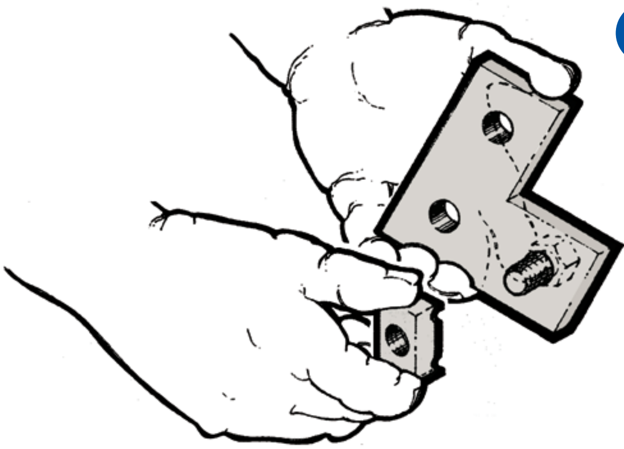
Bolt torque values are given to ensure the proper connection between components. It is important to understand that there is a direct, but not necessarily consistent, relationship between bolt torque and tension in the bolt. Too much tension in the bolt can cause it to break or crush the component parts. Too little tension in the bolt can prevent the connection from developing its full load capacity. The torque values given have been developed over many years of experience and testing.

Design Bolt Torque

Bolt Size	Foot Pounds
¼" - 20	6
5⁄16" - 18	11
⅜" - 16	19
½" - 13	50
⅝" - 11	100
¾" - 10	125



Channel Nuts

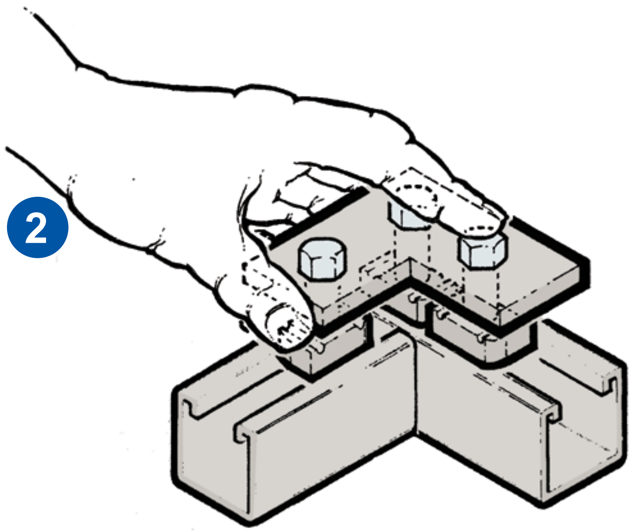


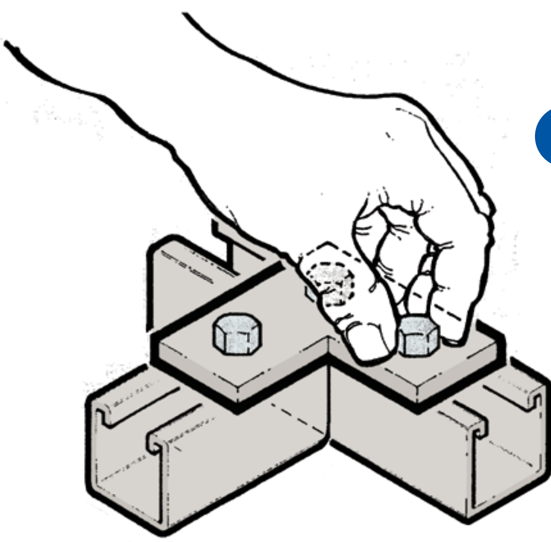
1 One at a time, bolts are inserted through the fitting's holes, held in place with a finger while an appropriate **Channel Nut without spring** is engaged to each bolt with one-and-a half turns, (just enough to keep them attached).

Use caution to select bolt lengths that will not bottom out in channel when fully tightened.

2 When the entire fitting (in at least one plane) is fitted with Channel Nuts and bolts, align Channel Nut direction (s) to correspond with channel arrangement; place fitting into position.

Channel Nuts without springs should hang below, clear of channel's in-turned edges prior to tightening the bolts.

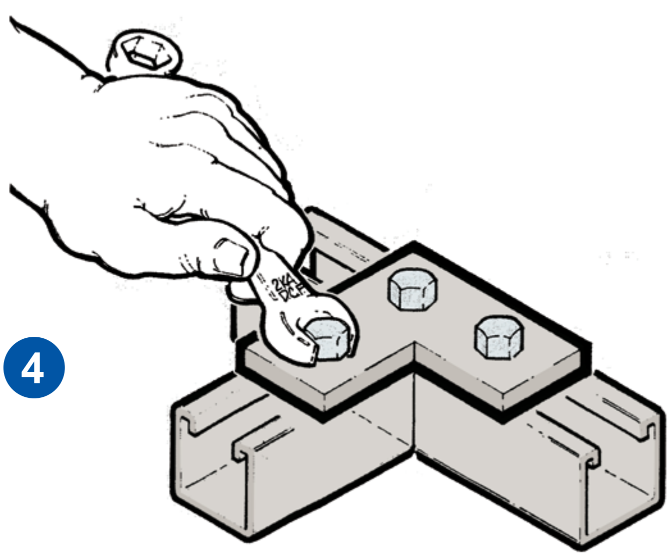




3 All Channel Nut/bolts are finger tightened by pressing down on bolt head, and turning clock-wise. Inserting fingers into channel to align is not required.

Do not tighten by grasping bolt with fingers *under the head.* If the bolt is grasped in this fashion, this will lift Channel Nut, allowing it to turn and "look" falsely into place between channel's in-turned lips.

4 Adjust fitting to final position; check to make sure **Channel Nuts** are still installed correctly with pyramid enhanced grooves engaging the channel's in-turned edges. Finally, fasteners are wrench tightened.

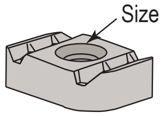


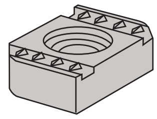
Channel Nuts

Standard Finish: Electro Galvanized (EG)

Channel Nut Without Spring

For most channel sizes





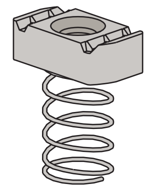
Wide body on VN1062, VN1075, VN4062 & VN4075 only

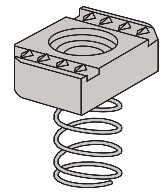
FLORIDA STRUT	VERSABAR	WESANCO	Use	Size	Thickness
--	VN1010-0832	W2-0832WS		#8-32	1/4" *(6mm)*
--	VN10101032	W2-1032WS		#10-32	
--	VN10101024	W2-1024WS		#10-24	
CNN20025	VN1025 ***	W2-4WS		1/4"-20	
CNN30031	VN1031	W2-5WS		5/16"-18	3/8" *(10mm)*
CNN30037	VN1037 ***	W2-6WS		3/8"-16	
--	VN1044	W2-7WS		7/16"-14	
CNN30050	VN4050 *	W5-8WS	■	1/2"-13	
CNN30062	VN4062	W5-10WS	■	5/8"-11	
CNN30075	VN4075	--		3/4"-10	
--	VN1062 *	W2-10WS	●	5/8"-11	7/16" *(11mm)*
--	VN1075	--		3/4"-10	
CNN40050	VN1050 **	W2-8WS	●	1/2"-13	1/2" *(13mm)*
CNN40062	--	W1-10WS	♦	5/8"-11	
CNN40075	--	W2-12WS	●	3/4"-10	
CNN40087	--	--	●	7/8"-9	

■ = Use With 13/16" Channel
● = Not For Use With 13/16", and 7/8"
♦ = Use With 2-7/16", 2-1/2", and 3-1/4"
* Available in Stainless
** Available in Stainless and Aluminum
*** Available in Stainless, Aluminum and Hot-Dipped Galv.

Channel Nut with Regular Spring

For 1-3/8" *(35mm)* & 1-5/8" *(41mm)* channel





Wide body on VSN1062 & VSN1075 only

FLORIDA STRUT	VERSABAR	WESANCO	Size	Thickness
--	VSN10100832	W2-0832	#8-32	1/4" *(6mm)*
--	VSN10101032	W2-1032	#10-32	
--	VSN10101024	W2-1024	#10-24	
CNR20025	VSN1025 **	W2-4	1/4"-20	
CNR20031	--	--	5/16"-18	
CNR20037	--	--	3/8"-16	
CNR30031	VSN1031	W2-5	5/16"-18	3/8" *(10mm)*
CNR30037	VSN1037 **	W2-6	3/8"-16	
CNR30050	VSN1044	W2-7	7/16"-14	
--	VSN1062 *	--	5/8"-11	7/16" *(11mm)*
--	VSN1075	--	3/4"-10	
CNR40050	VSN1050 **	W2-8	1/2"-13	1/2" *(13mm)*
CNR40062	--	W2-10	5/8"-11	
CNR40075	--	W2-12	3/4"-10	
CNR40087	--	W2-14	7/8"-9	

** Available in Stainless*
*** Available in Stainless, Aluminum and Hot-Dipped Galv.*

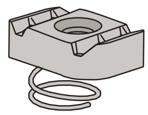
WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

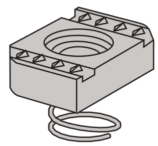
Channel Nuts

Standard Finish: Electro Galvanized (EG)

Channel Nut with Short Spring

For 13/16", ⅞", & 1" channel





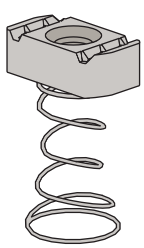
Wide body on VSN4062 & VSN4075 only

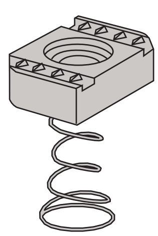
FLORIDA STRUT	VERSABAR	WESANCO	Size	Thickness
W5-0832	VSN40100832	W5-0832	#8-32	¼" (6mm)
W5-1032	VSN40101032	W5-1032	#10-32	
W5-1024	VSN40101024	W5-1024	#10-24	
CNS20025	VSN4025 *	W5-4	¼"-20	
CNS20031	--	--	5/16"-18	
CNS20037	--	--	⅜"-16	
CNS30031	VSN4031	W5-5	5/16"-18	⅜" (10mm)
CNS30037	VSN4037 *	W5-6	⅜"-16	
--	VSN4044	--	7/16"-14	
CNS30050	VSN4050 *	W5-8	½"-13	
CNS30062	VSN4062	W5-10	⅝"-11	
--	VSN4075	--	¾"-10	

** Available in Stainless*

Channel Nut with Long Spring

Fits 2-½" *(64mm)* thru 3-¼" *(83mm)* channel





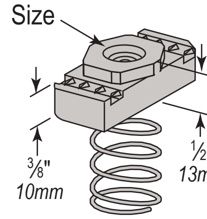
Wide body on VSN3062 & VSN3075 only

FLORIDA STRUT	VERSABAR	WESANCO	Size	Thickness
--	VSN30100832 *	--	#8-32	¼" (6mm)
--	VSN30101024 *	--	#10-32	
--	VSN30101032 *	--	#10-24	
CNL20025	VSN3025	W1-4	¼"-20	
--	VSN3031	--	5/16"-18	⅜" (10mm)
CNL30037	VSN3037	W1-6	⅜"-16	
--	VSN3044	--	7/16"-14	
W1-10	VSN3062	W1-10	⅝"-11	7/16" (11mm)
W1-12	VSN3075	W1-12	¾"-10	
CNL40050	VSN3050	W1-8	½"-13	½" (13mm)

* = Special Order

Stainless Steel Channel Nut with Regular Spring and Hex Top

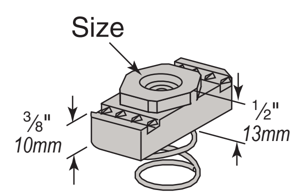
For 1-⅜" *(35mm)* thru 1-⅝" *(41mm)* channel



FLORIDA STRUT	VERSABAR	WESANCO	Size
--	VSN1025HSIN	--	¼" - 20
--	VSN1037HSIN	--	⅜" - 16
--	VSN1050HSIN	--	½" - 13

Stainless Steel Channel Nut with Short Spring and Hex Top

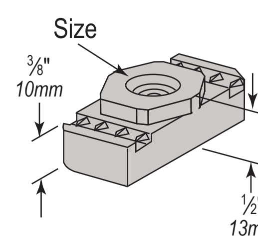
For 13/16" *(21mm)* thru 1" *(25mm)* channel



FLORIDA STRUT	VERSABAR	WESANCO	Size
--	VSN4025HSIN	--	¼" - 20
--	VSN4037HSIN	--	⅜" - 16
--	VSN4050HSIN	--	½" - 13

Stainless Steel Channel Nut without Spring and Hex Top

For all 1-⅝" *(41mm)* wide channel



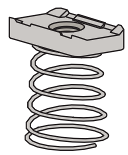
FLORIDA STRUT	VERSABAR	WESANCO	Size
--	VN1025HSIN	--	¼" - 20
--	VN1037HSIN	--	⅜" - 16
--	VN1050HSIN	--	½" - 13

Channel Nuts

Standard Finish: Electro Galvanized (EG)

Mini Nut with Standard Spring

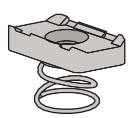
Use with 13/16" x 13/16" *(21mm x 21mm)* Channel



FLORIDA STRUT	VERSABAR	WESANCO	Size	Thickness
--	--	W6-0836	#8 - 36	0.150" *(4mm)*
--	--	W6-0832	#8 - 32	
--	--	W6-1032	#10 - 32	
--	--	W6-1024	#10 - 24	
--	--	W6-4	¼" - 20	

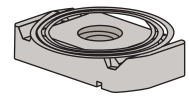
Mini Nut with Short Spring

Use with 13/16" x 13/32" *(21mm x 10mm)* Channel



FLORIDA STRUT	VERSABAR	WESANCO	Size	Thickness
--	--	W7-0836	#8 - 36	0.150" *(4mm)*
--	--	W7-0832	#8 - 32	
--	--	W7-1032	#10 - 32	
--	--	W7-1024	#10 - 24	
--	--	W7-4	¼" - 20	

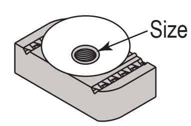
Channel Nut Top Spring



FLORIDA STRUT	VERSABAR	WESANCO	Use	Size	Thickness
W2-0832TL	--	W2-0832TL		#8 - 32	¼" *(6mm)*
W2-1032TL	--	W2-1032TL		#10 - 32	
W2-1024TL	--	W2-1024TL		#10 - 24	
CNT20025	VSN1025TMS	W2-4TL		¼" - 20	
W2-5TL	VSN1031TMS	W2-5TL		5/16" - 18	⅜" *(10mm)*
CNT30037	VSN1037TMS	W2-6TL		⅜" - 16	
CNT30050	--	W5-8TL		½" - 13	
*CNT40050	VSN1050TMS *	W2-8TL	c	½" - 13	½" *(13mm)*

c = Not for use with 13/16" Channel
* Use VSN4050 conventional spring nut with shallow channels if ½"-13 thread is required.

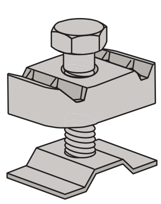
Channel Nut with Cone

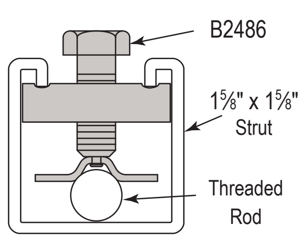


FLORIDA STRUT	VERSABAR	WESANCO	Size	Thickness
--	--	W2-4CN	¼" - 20	¼" *(6mm)*
--	--	W2-6CN	⅜" - 16	⅜" *(10mm)*
--	--	W2-8CN	½" - 13	½" *(13mm)*

Seismic Bracing Rod Stiffener

Use with ⅜", ½" & ⅝" Threaded Rod

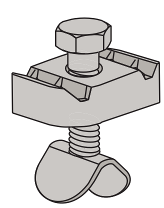


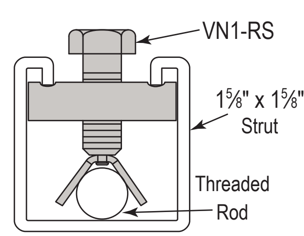


FLORIDA STRUT	VERSABAR	WESANCO
B2486	--	B2486

Seismic Bracing Rod Stiffener

Use with ⅜", ½" & ⅝" Threaded Rod
Available in Stainless Steel 316 & 304



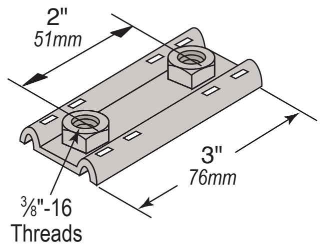


FLORIDA STRUT	VERSABAR	WESANCO
--	VN1RS	--
Available in Stainless Steel 316 & 304		

Channel Nuts

Standard Finish: Electro Galvanized (EG)

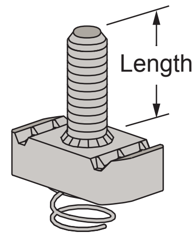
Footing Double Nut



FLORIDA STRUT	VERSABAR	WESANCO
--	VF5803GRS	--

Stud Nut with Short Spring

Use with 13/16", ⅞" & 1"



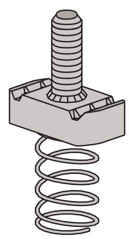
* Remember that you lose ¼" (6mm) useable stud length when nut is inserted into channel

FLORIDA STRUT	VERSABAR	WESANCO	Sizes
–	–	W5-3SN	½"-13 x 1-⅜"
For Applications In other Channels Consult Factory.			

Stud Nut with Spring

Use with 1-⅝" & 1-⅜" Channel

* Remember that you lose ¼" (6mm) useable stud length when nut is inserted into channel



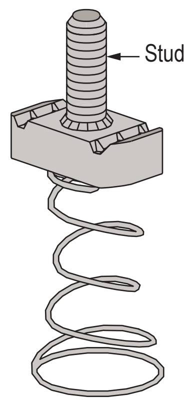
FLORIDA STRUT	VERSABAR	WESANCO	Sizes
–	SSN25075	–	¼" - 20 x ¾"
CND25087	SSN25087	W4-1SN	¼" - 20 x ⅞"
–	SSN25100	–	¼" - 20 x 1"
–	SSN25127	W4-2SN	¼" - 20 x 1-⅛"
–	SSN25125	–	¼" - 20 x 1-¼"
–	SSN25137	W4-3SN	¼" - 20 x 1-⅜"
–	SSN25150	–	¼" - 20 x 1-½"
–	SSN25175	–	¼" - 20 x 1-¾"
–	SSN25200	–	¼" - 20 x 2"
–	SSN31075	–	5/16"-18 x ¾"
–	SSN31100	–	5/16"-18 x 1"
–	SSN31125	–	5/16"-18 x 1-¼"
–	SSN31150	–	5/16"-18 x 1-½"
–	SSN31175	–	5/16"-18 x 1-¾"
–	SSN31200	–	5/16"-18 x 2"
–	SSN37075		⅜" - 16 x ¾"
CND37112	SSN37087	W6-1SN	⅜" - 16 x ⅞"
–	SSN37100	–	⅜" - 16 x 1"
–	SSN37112	W6-2SN	⅜" - 16 x 1-⅛"
CND37125	SSN37125	–	⅜" - 16 x 1-¼"
–	SSN37137	W6-3SN	⅜" - 16 x 1-⅜"
–	SSN37150	–	⅜" - 16 x 1-½"

FLORIDA STRUT	VERSABAR	WESANCO	Sizes
CND37162	SSN37162	W6-4SN	⅜" - 16 x 1-⅝"
–	SSN37175	–	⅜" - 16 x 1-¾"
–	SSN37187	W6-5SN	⅜" - 16 x 1-⅞"
–	SSN37200	–	⅜" - 16 x 2"
–	SSN37212	W6-6SN	⅜" - 16 x 2-⅛"
–	SSN37225	–	⅜" - 16 x 2-¼"
–	SSN37250	–	⅜" - 16 x 2-½"
–	SSN50062	–	½" - 13 x ⅝"
–	SSN50087	–	½" - 13 x ⅞"
–	SSN50112	W8-2SN	½" - 13 x 1-⅛"
–	SSN50137	W8-3SN	½" - 13 x 1-⅜"
–	SSN50162	W8-4SN	½" - 13 x 1-⅝"
–	SSN50187	W8-5SN	½" - 13 x 1-⅞"
–	SSN50212	W8-6SN	½" - 13 x 2-⅛"
–	SSN50225	–	½" - 13 x 2-¼"
–	SSN50250	–	½" - 13 x 2-½"
–	SSN50275	–	½" - 13 x 2-¾"
–	SSN50300	–	½" - 13 x 3"
–	SSN50325	–	½" - 13 x 3-¼"
–	–	W10-2SN	⅝" - 11 x 1-⅛"
–	–	W10-3SN	⅝" - 11 x 1-⅜"
Available in stainless steel and custom stud lengths			

Standard Finish: Electro Galvanized (EG)

Stud Nut with Long Spring

Use with 2-7⁄16" & 3-¼" Channel

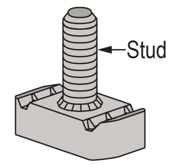


* Remember that you lose ¼" (6mm) useable
stud length when nut is inserted into channel

FLORIDA STRUT	VERSABAR	WESANCO	Sizes
–	–	W4-1SNM	¼" - 20 x ⅞"
–	–	W4-2SNM	¼" - 20 x 1-⅛"
–	–	W4-3SNM	¼" - 20 x 1-⅜"
–	–	W6-1SNM	⅜" - 16 x ⅞"
–	–	W6-2SNM	⅜" - 16 x 1-⅛"
–	–	W6-3SNM	⅜" - 16 x 1-⅜"
–	–	W6-4SNM	⅜" - 16 x 1-⅝"
–	–	W6-5SNM	⅜" - 16 x 1-⅞"
–	–	W6-6SNM	⅜" - 16 x 2-⅛"
–	–	W8-2SNM	½" - 13 x 1-⅛"
–	–	W8-3SNM	½" - 13 x 1-⅜"
–	–	W8-4SNM	½" - 13 x 1-⅝"
–	–	W8-5SNM	½" - 13 x 1-⅞"
–	–	W8-6SNM	½" - 13 x 2-⅛"
–	–	W10-2SNM	⅝" - 11 x 1-⅛"
–	–	W10-3SNM	⅝" - 11 x 1-⅜"

Stud Nut without Spring

Use with 1-⅝" & 1-⅜" Channel



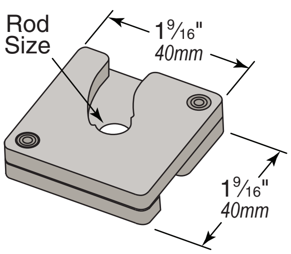
* Remember that you lose ¼" (6mm) useable
stud length when nut is inserted into channel

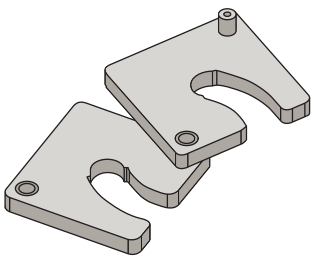
FLORIDA STRUT	VERSABAR	WESANCO	Sizes
–	SN25075	–	¼" - 20 x ¾"
–	SN25087	W4-1SNWS	¼" - 20 x ⅞"
–	SN25100	–	¼" - 20 x 1"
–	SN25127	W4-2SNWS	¼" - 20 x 1-⅛"
–	SN25125	–	¼" - 20 x 1-¼"
–	SN25137	W4-3SNWS	¼" - 20 x 1-⅜"
–	SN25150	–	¼" - 20 x 1-½"
–	SN25175	–	¼" - 20 x 1-¾"
–	SN25200	–	¼" - 20 x 2"
–	SN31075	–	5⁄16"-18 x ¾"
–	SN31100	–	5⁄16"-18 x 1"
–	SN31125	–	5⁄16"-18 x 1-¼"
–	SN31150	–	5⁄16"-18 x 1-½"
–	SN31175	–	5⁄16"-18 x 1-¾"
–	SN31200	–	5⁄16"-18 x 2"
–	SN37075		⅜" - 16 x ¾"
–	SN37087	W6-1SNWS	⅜" - 16 x ⅞"
–	SN37100	–	⅜" - 16 x 1"
–	SN37112	W6-2SNWS	⅜" - 16 x 1-⅛"
–	SN37125	–	⅜" - 16 x 1-¼"
–	SN37137	W6-3SNWS	⅜" - 16 x 1-⅜"
–	SN37150	–	⅜" - 16 x 1-½"
–	SN37162	W6-4SNWS	⅜" - 16 x 1-⅝"
–	SN37175	–	⅜" - 16 x 1-¾"
–	SN37187	W6-5SNWS	⅜" - 16 x 1-⅞"
–	SN37200	–	⅜" - 16 x 2"
–	SN37212	W6-6SNWS	⅜" - 16 x 2-⅛"
–	SN37225	–	⅜" - 16 x 2-¼"
–	SN37250	–	⅜" - 16 x 2-½"
–	SN50062	–	½" - 13 x ⅝"
–	SN50087	–	½" - 13 x ⅞"
–	SN50112	W8-2SNWS	½" - 13 x 1-⅛"
–	SN50137	W8-3SNWS	½" - 13 x 1-⅜"
–	SN50162	W8-4SNWS	½" - 13 x 1-⅝"
–	SN50187	W8-5SNWS	½" - 13 x 1-⅞"
–	SN50212	W8-6SNWS	½" - 13 x 2-⅛"
–	SN50225	–	½" - 13 x 2-¼"
–	SN50250	–	½" - 13 x 2-½"
–	SN50275	–	½" - 13 x 2-¾"
–	SN50300	–	½" - 13 x 3"
–	SN50325	–	½" - 13 x 3-¼"
–	–	W10-2SNWS	⅝" - 11 x 1-⅛"
–	–	W10-3SNWS	⅝" - 11 x 1-⅜"
Available in stainless steel and custom stud lengths			

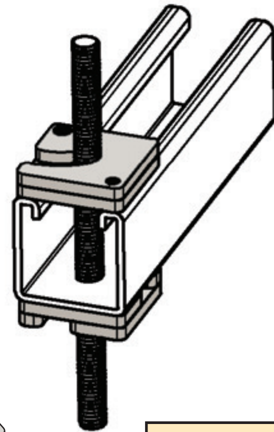
Channel Nuts & Hardware

Standard Finish: Electro Galvanized (EG)

Scissor Square Washer Nut





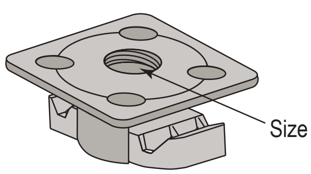


- Unique scissor action closes at any desired position on the threaded rod.
- Ideal for Retro-Fit applications where existing rod ends are not accessible.
- Functions as a hex nut and square washer combination which reduces the number of components needed for installation.

FLORIDA STRUT	VERSABAR	WESANCO	Rod Size	Thread Size UNC	Design Load Lbs
--	VF1101QN25	--	$\frac{1}{4}$" *(6.4mm)*	$\frac{1}{4}$" -20	150 *(0.67 kN)*
--	VF1101QN37	--	$\frac{3}{8}$" *(9.5mm)*	$\frac{3}{8}$"-16	590 *(2.62 kN)*
--	VF1101QN50	--	$\frac{1}{2}$" *(12.7mm)*	$\frac{1}{2}$" -13	850 *(03.78 kN)*

Combination Washer Channel Nut

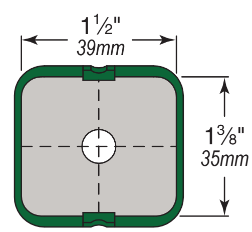
- Replaces channel nut and fitting with single piece

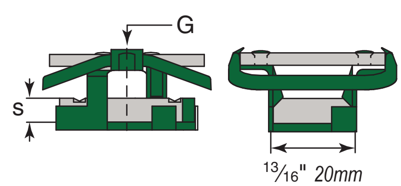


FLORIDA STRUT	VERSABAR	WESANCO	Size	Nut Thickness
--	VF1101CN25	--	$\frac{1}{4}$" - 20	$\frac{1}{4}$" *(6mm)*
--	VF1101CN37	--	$\frac{3}{8}$" - 16	$\frac{3}{8}$" *(10mm)*
--	VF1101CN50	--	$\frac{1}{2}$" - 13	

Rapid Strut Slide Nut

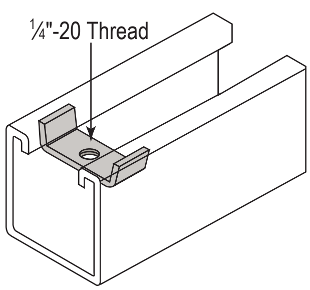
- Ready-to-use pre-assembled for a quick installation, that retains assembly in place before final tightening
- Replaces channel nut and fitting with single piece





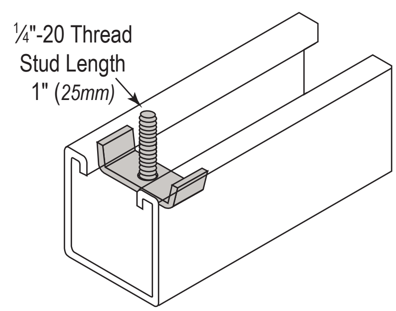
FLORIDA STRUT	VERSABAR	WESANCO	Size	Thickness
--	--	TLCSW1/4	$\frac{1}{4}$" - 20	$\frac{1}{4}$" *(6mm)*
--	--	TLCSW3/8	$\frac{3}{8}$" - 16	
--	--	TLCSW1/2	$\frac{1}{2}$" - 13	$\frac{3}{8}$" *(10mm)*

Light Duty Channel Nut



FLORIDA STRUT	VERSABAR	WESANCO
--	VN1	--

Light Duty Stud Nut

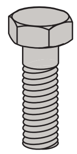


FLORIDA STRUT	VERSABAR	WESANCO
EF19	VN1ST	W6460

Hardware

Standard Finish: Electro Galvanized (EG)

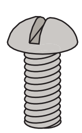
Hex Head Cap Screw



FLORIDA STRUT	VERSABAR *	WESANCO	Size UNC
--	25X50HHCS	W7400	¼" x ½"
HCS2507	25X75HHCS	W7401	¼" x ¾"
HCS2510	25X1HHCS	W7402	¼" x 1"
HCS2512	25X125HHCS	--	¼" x 1-¼"
HCS2515	25X150HHCS	--	¼" x 1-½"
HCS3707	37X75HHCS	W7403	⅜" x ¾"
HCS3710	37X1HHCS	W7404	⅜" x 1"
HCS3712	37X125HHCS	W7405	⅜" x 1-¼"
HCS3715	37X150HHCS	W7406	⅜" x 1-½"
HCS3720	37X200HHCS	W7407	⅜" x 2"
--	37X225HHCS	W7408	⅜" x 2-¼"
--	37X250HHCS	--	⅜" x 2-½"
--	50X31HHCS	W7409	½" x 15/16"
HCS5010	--	--	½" x 1"
HCS5012	50X125HHCS	W7410	½" x 1-¼"
HCS5015	50X150HHCS	W7411	½" x 1-½"
HCS5017	50X175HHCS	W7412	½" x 1-¾"
HCS5020	50X200HHCS	W7413	½" x 2"
--	50X225HHCS	W7414	½" x 2-¼"
--	50X250HHCS	W7415	½" x 2-½"
--	50X350HHCS	--	½" x 3-½"

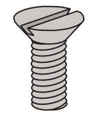
* Available in stainless steel

Roundhead Machine Screws



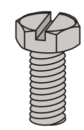
FLORIDA STRUT	VERSABAR	WESANCO	Size UNC
--	25X50RHMS	--	¼" x ½"
W7470	25X75RHMS	W7470	¼" x ¾"
W7471	25X1RHMS	W7471	¼" x 1"
W7472	25X125RHMS	W7472	¼" x 1-¼"
W7473	31X1RHMS	W7473	5/16" x 1"
W7474	31X125RHMS	W7474	5/16" x 1-¼"
W7475	31X150RHMS	W7475	5/16" x 1-½"
W7476	37X1RHMS	W7476	⅜" x 1"
W7477	37X125RHMS	W7477	⅜" x 1-¼"
W7478	37X150RHMS	W7478	⅜" x 1-½"
W7479	37X250RHMS	W7479	⅜" x 2-½"

Flathead Machine Screws



FLORIDA STRUT	VERSABAR	WESANCO	Size UNC
--	25X62FLMS	W7420	¼" x ⅝"
--	25X75FLMS	--	¼" x ¾"
--	--	W7421	5/16" x 1"
--	37X1FLMS	--	⅜" x 1"
--	37X2FLMS	W7422	⅜" x 2"
--	37X225FLMS	W7423	⅜" x 2-¼"
--	37X250FLMS	W7424	⅜" x 2-½"

Slotted Indented Hex Machine Screw

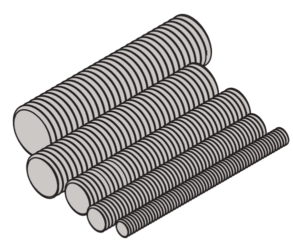


FLORIDA STRUT	VERSABAR	WESANCO	Size UNC
--	25X75SLHHCS	W7401SH	¼" x ¾"
--	31X1SLHHCS	W7416SH	5/16" x 1"
--	37X125SLHHCS	W7405SH	⅜" x 1-¼"

Threaded Rod

Nominal Rod Dia. - UNC	Max. Safe Load @ Temp. 650°F *(343°C)*
¼" - 20	240 lbs *(1.07kN)*
⅜" - 16	730 lbs *(3.25kN)*
½" - 13	1,350 lbs *(6.01kN)*
⅝" - 11	2,160 lbs *(9.61kN)*
¾" - 10	3,230 lbs *(14.37kN)*

* Loading data for piping applications based on MSS SP-58 for rod conforming to ASTM A575 & A576



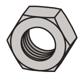
FLORIDA STRUT	VERSABAR *	WESANCO	Nominal Rod Dia. - UNC	Length
--	VTR256	--		6' *(1.83m)*
--	VTR2510	W7124	¼" - 20	10' *(3.05m)*
--	VTR2512	--		12' *(3.66m)*
--	VTR376	--		6' *(1.83m)*
--	VTR3710	W7125	⅜" - 16	10' *(3.05m)*
--	VTR3712	--		12' *(3.66m)*
--	VTR506	--		6' *(1.83m)*
--	VTR5010	W7126	½" - 13	10' *(3.05m)*
--	VTR5012	--		12' *(3.66m)*
--	VTR626	--		6' *(1.83m)*
--	VTR6210	W7127	⅝" - 11	10' *(3.05m)*
--	VTR6212	--		12' *(3.66m)*
--	VTR7510	W7128	¾" - 10	10' *(3.05m)*

* Available in stainless steel

Hardware

Standard Finish: Electro Galvanized (EG)

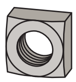
Hex Nut



FLORIDA STRUT	VERSABAR *	WESANCO	Size UNC
HN0025	25HN	W7460	¼"
--	31HN	W7461	5/16"
HN0037	37HN	W7462	⅜"
HN0050	50FN	W7463	½"
HN0062	62FN	W7464	⅝"
HN0075	--	W7465	¾"

* Available in stainless steel

Square Nuts

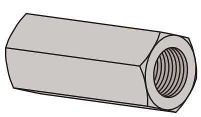


FLORIDA STRUT	VERSABAR	WESANCO	Size UNC
--	25SQN	W7480	¼"
--	31SQN	W7481	5/16"
--	37SQN	W7482	⅜"
--	50SQN	W7483	½"
--	62SQN	--	⅝"

Kep Nuts

FLORIDA STRUT	VERSABAR	WESANCO	Size UNC
--	--	W7490	¼"
--	--	W7491	5/16"
--	--	W7492	⅜"

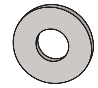
Rod Coupling



FLORIDA STRUT	VERSABAR *	WESANCO	Hole Size	Length	Hex Size
RC0025	VTRC25	W7134	¼" - 20	7/8" *(22mm)*	⅜" *(10mm)*
--	VTRC31	W7134A	5/16" - 18		-
RC0037	VTRC37	W7135	⅜" - 16	1-3/4" *(44mm)*	9/16" *(14mm)*
RC0050	VTRC50	W7136	½" - 13		11/16" *(18mm)*
--	VTRC62	W7137	⅝" - 11	2-1/8" *(54mm)*	-
--	VTRC75	W7138	¾" - 10	2-1/4" *(57mm)*	-

* Available in stainless steel

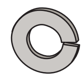
Flat Washer



FLORIDA STRUT	VERSABAR *	WESANCO	Size	OD
FW0025	25FW	W7440	¼"	¾" *(19mm)*
--	31FW	--	5/16"	
FW0037	37FW	W7441	⅜"	1" *(25mm)*
FW0050	50FW	W7442	½"	1-3/8" *(35mm)*
FW0062	62FW	W7443	⅝"	1-3/4" *(44mm)*
FW0075	--	W7444	¾"	2" *(51mm)*

* Available in stainless steel

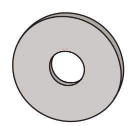
Lock Washers



FLORIDA STRUT	VERSABAR *	WESANCO	Size
FLW0025	25LW	W7430	¼"
--	31LW	--	5/16"
FLW0037	37LW	W7431	⅜"
FLW0050	50LW	W7432	½"
FLW0062	62LW	W7433	⅝"

* Available in stainless steel

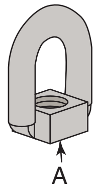
Fender Washers



FLORIDA STRUT	VERSABAR	WESANCO	Size
--	FEN25	W7450	¼" x 1-1/4"
--	FEN31	--	5/16" x 1-1/4"
--	FEN37	W7451	⅜" x 1-1/2"
--	FEN50	W7452	½" x 1-1/2"
--	FEN502	--	½" x 2"

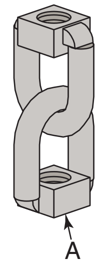
Standard Finish: Electro Galvanized (EG)

Swivel Female



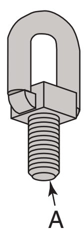
FLORIDA STRUT	VERSABAR	WESANCO	A Size
SW100037	VXE237	W6905	⅜"-16
SW100050	VXE250	W6906	½"-13
--	VXE262	--	⅝"-11
--	VXE275	--	¾"-10

Swivel Female - Female



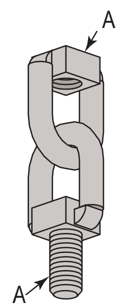
FLORIDA STRUT	VERSABAR	WESANCO	A Size
SW120037	VXE137	W6915	⅜"-16
SW120050	VXE150	W6916	½"-13
--	VXE162	--	⅝"-11
--	VXE175	--	¾"-10

Swivel Male



FLORIDA STRUT	VERSABAR	WESANCO	A Size
SW110037	VXE437	W6910	⅜"-16
SW110050	VXE450	W6911	½"-13
--	VXE362	--	⅝"-11
--	VXE375	--	¾"-10

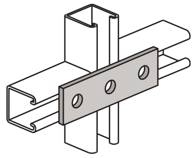
Swivel Male - Female



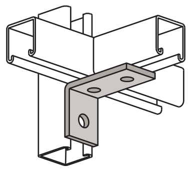
FLORIDA STRUT	VERSABAR	WESANCO	A Size
SW130037	VXE337	W6920	⅜"-16
SW130050	VXE350	W6921	½"-13
--	VXE362	--	⅝"-11
--	VXE375	--	¾"-10

General Fittings

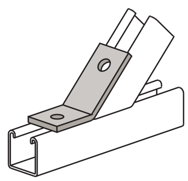
Flat Plate Fittings
Pages 86 - 91



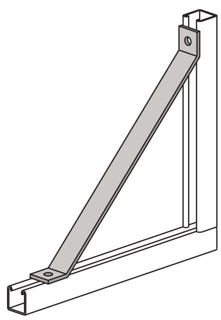
90° Angle Fittings
Pages 92 - 101



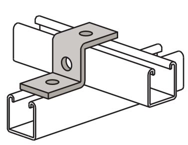
Angle Fittings
Pages 102 - 105



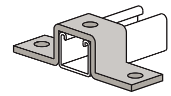
Brace Fittings
Pages 106 - 109



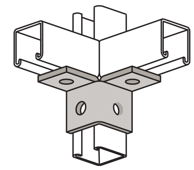
“Z” Fittings
Pages 110 - 113



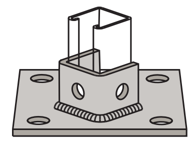
“U” Shape Fittings
Pages 114 - 121



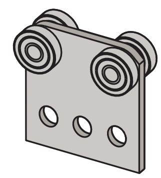
Wing Fittings
Pages 122 - 126



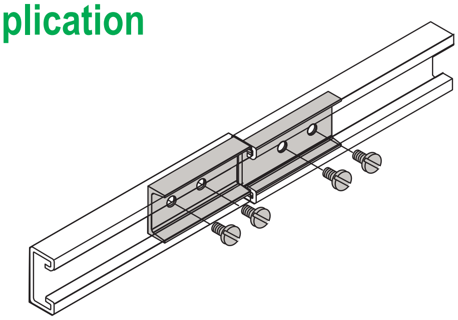
Post Bases
Pages 127 - 130



Trolley
Pages 131 - 132



Conveyor Application Fittings
Page 133



Fittings Specifications

Material	ASTM	ASTM Description
Hot Rolled Plate	A 575, A 1011, A 1018, A 576, A638	Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.
Fitting: Steel	A 366, A 36	Steel carbon, cold rolled sheet, commercial quality structural steel.
Strip Steel: Pipe Clamps	A 569	Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.
Stainless Steel	A 240 TYPE 304	Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel.
	A 240 TYPE 316	
Aluminum	B 221	Aluminum alloy extruded bar, rod, wire, shape and tube.

See page 25 for Material or Finish ordering codes for part numbers.

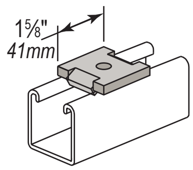
Fitting Finish Specifications

Finish	Description
Paint-Green Powder Coating	A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.
Electroplated	Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.
Mill-Galvanized (Pre-Galvanized)	Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present.
Hot Dip Galvanized After Fabrication	Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications. ASTM A 123, ASTM A153, or ASTM A386.
Special Coatings	Other commercially available finishes can be supplied per specification when required to protect applications.

Flat Plate Fittings

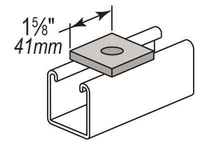
Standard Finish: Electro Galvanized (EG)

Square Washer with Channel Guide



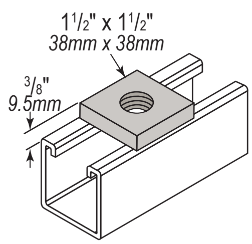
FLORIDA STRUT	VERSABAR	WESANCO	Bolt Size
F200025	VF1101N25	--	1/4" *(6.4mm)*
W5002	VF1101N25	W5002	5/16" *(7.9mm)*
F210037	VF1101N37	W5003	3/8" *(9.5mm)*
F220050	VF1101N50	W5004	1/2" *(12.7mm)*
F230062	VF1101N62	W5005	5/8" *(15.9mm)*
F240075	VF1101N75	W5006	3/4" *(19.1mm)*

Square Washer without Channel Guide



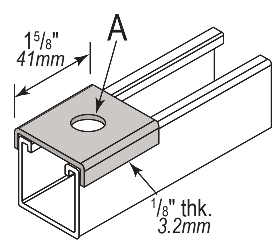
FLORIDA STRUT	VERSABAR	WESANCO	Bolt Size
F100025	VF110125	---	1/4" *(6.4mm)*
F090031	VF110125	W5052	5/16" *(7.9mm)*
F110037	VF110137	W5053	3/8" *(9.5mm)*
F120050	VF110150	W5054	1/2" *(12.7mm)*
F130062	VF110162	W5055	5/8" *(15.9mm)*
F140075	VF110175	W5056	3/4" *(19.1mm)*
F150087	VF110187	---	7/8" *(22.2mm)*

Square Washer with Threaded Hole



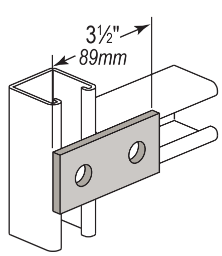
FLORIDA STRUT	VERSABAR	WESANCO	Bolt Size
--	VF1107A	--	3/8"-16 *(9.5mm)*
--	VF1107B	--	1/2"-13 *(12.7mm)*
--	VF1107C	--	5/8"-11 *(15.9mm)*

Square Washer with Clip on Guide



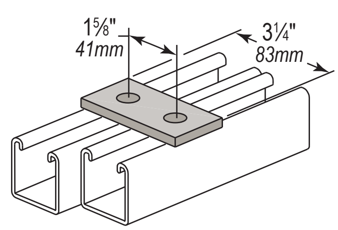
FLORIDA STRUT	VERSABAR	WESANCO	Bolt Size
--	VF110237	--	3/8"-16 *(9.5mm)*
--	VF110250	--	1/2"-13 *(12.7mm)*
--	VF110262	--	5/8"-11 *(15.9mm)*

2-Hole Splice Plate



FLORIDA STRUT	VERSABAR	WESANCO
F30	VF1201	W5007

2 Hole Parallel Splice Plate



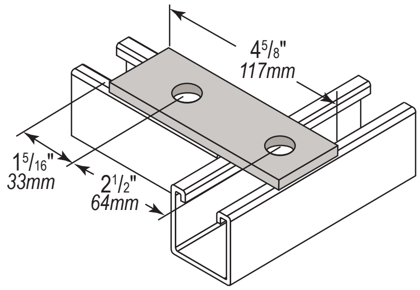
FLORIDA STRUT	VERSABAR	WESANCO
F34	VF1204	W5013

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

IDEAL TRIDON GROUP

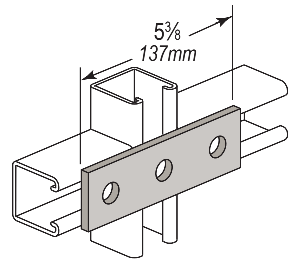
Standard Finish: Electro Galvanized (EG)

2-Hole Perpendicular Splice Plate



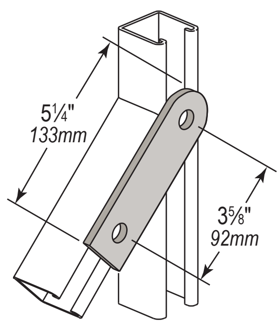
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1211	--

3-Hole Splice Plate



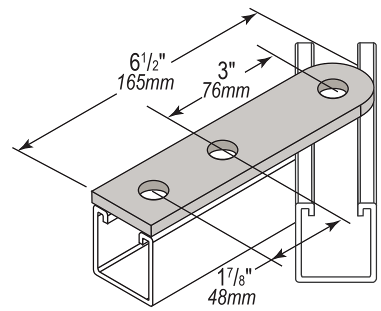
FLORIDA STRUT	VERSABAR	WESANCO
F31	VF1302	W5008

2-Hole Swivel Plate



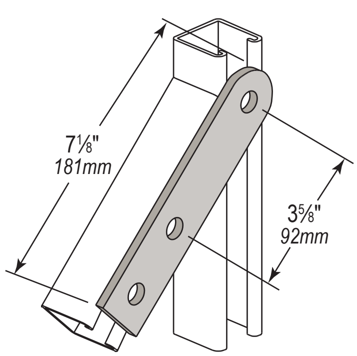
FLORIDA STRUT	VERSABAR	WESANCO
F40	VF1203	W5011

3-Hole Swivel Brace Connector



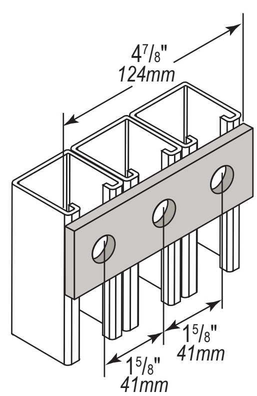
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1310	--

3-Hole Swivel Plate



FLORIDA STRUT	VERSABAR	WESANCO
F41	--	W5012

3-Hole Flat Plate



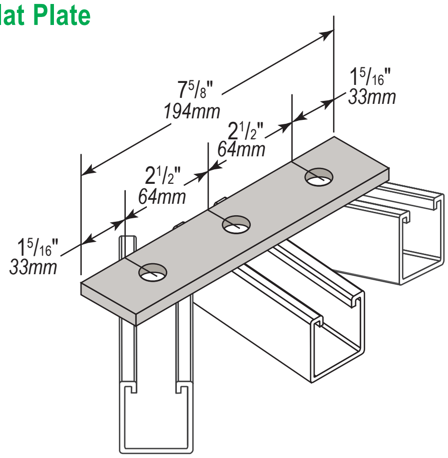
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1306	--

Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Flat Plate Fittings

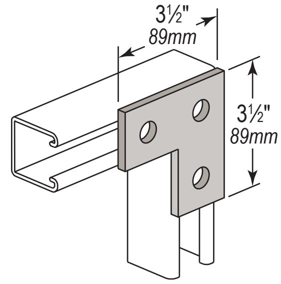
Standard Finish: Electro Galvanized (EG)

3-Hole Flat Plate



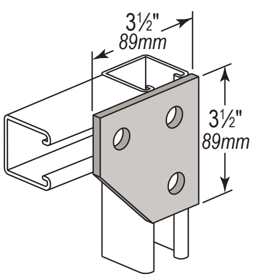
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1316	--

3-Hole Flat Angle Plate



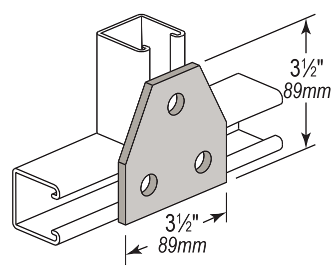
FLORIDA STRUT	VERSABAR	WESANCO
F50	VF1301	W5021

3-Hole Corner Gusset Plate



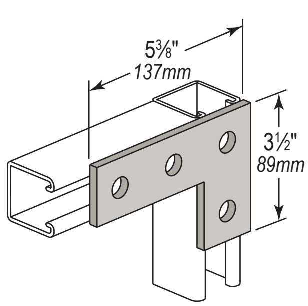
FLORIDA STRUT	VERSABAR	WESANCO
F52	VF1304	--

3-Hole Tee Gusset Plate



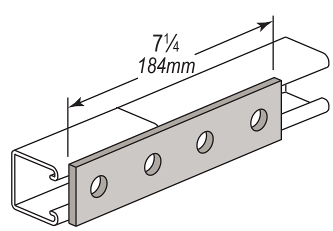
FLORIDA STRUT	VERSABAR	WESANCO
F61	VF1305	--

4-Hole Extended Flat Angle



FLORIDA STRUT	VERSABAR	WESANCO
F51	VF1406A	W5025

4-Hole Splice plate



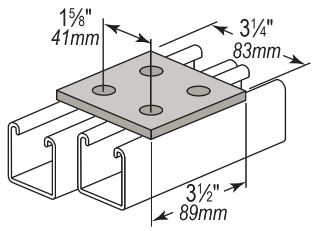
FLORIDA STRUT	VERSABAR	WESANCO
F32	VF1402	W5009

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

Flat Plate Fittings

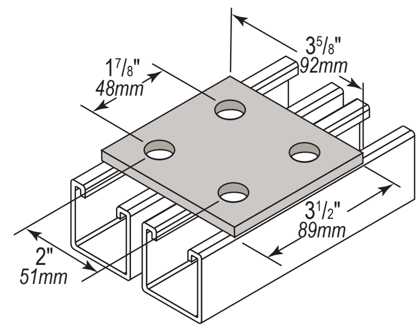
Standard Finish: Electro Galvanized (EG)

4-Hole Parallel Splice Plate



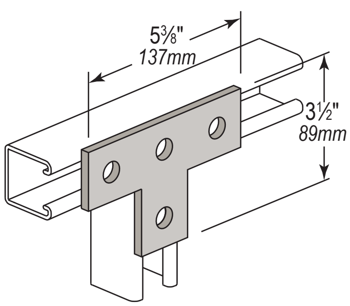
FLORIDA STRUT	VERSABAR	WESANCO
F35	VF1412	--

4-Hole Parallel Splice Plate



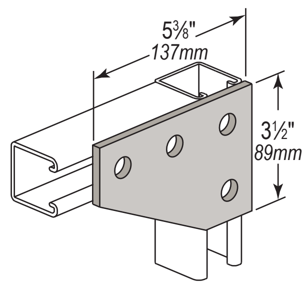
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1409	--

4-Hole Tee Plate



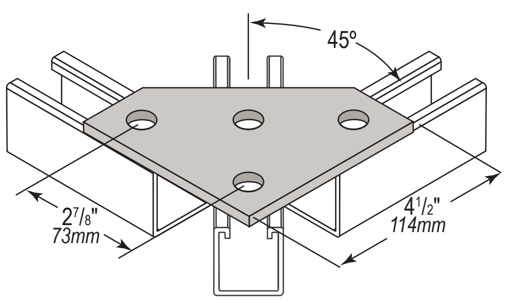
FLORIDA STRUT	VERSABAR	WESANCO
F60	VF1401	W5022

4-Hole Corner Plate



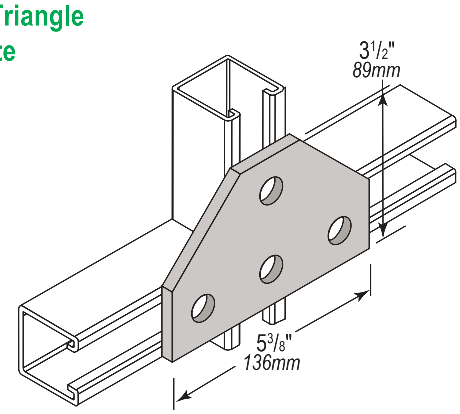
FLORIDA STRUT	VERSABAR	WESANCO
F53	VF1406	W5024

4-Hole Double Brace Connector



FLORIDA STRUT	VERSABAR	WESANCO
--	VF1411	--

4-Hole Triangle Flat Plate



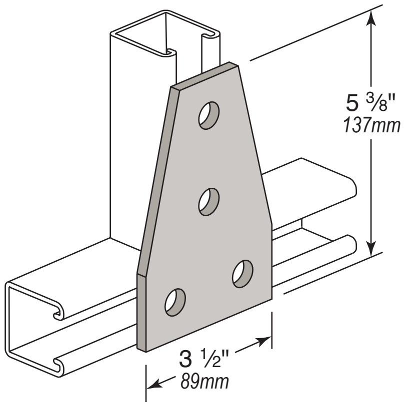
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1403	--

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Flat Plate Fittings

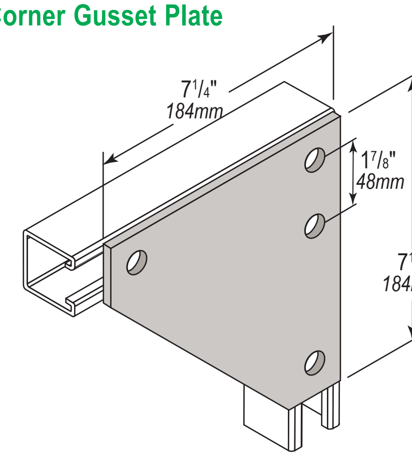
Standard Finish: Electro Galvanized (EG)

Four Hole Gusset Plate



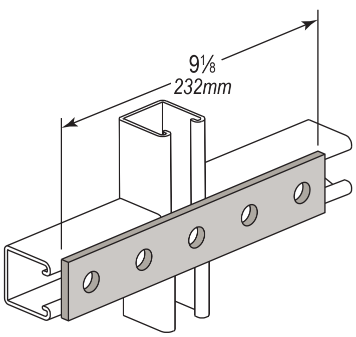
FLORIDA STRUT	VERSABAR	WESANCO
F62	VF1404	W5026

4-Hole Corner Gusset Plate



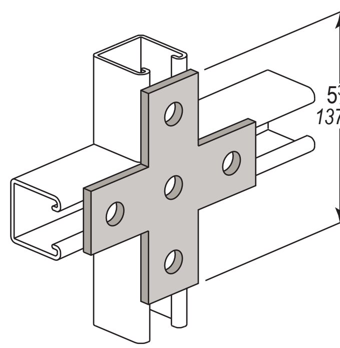
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1419	--

5-Hole Splice Plate



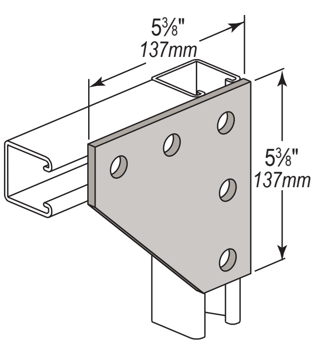
FLORIDA STRUT	VERSABAR	WESANCO
F33	VF1506	W5010

Five Hole Cross Plate



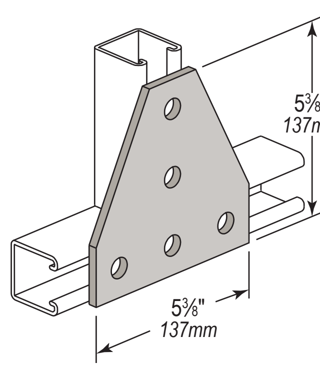
FLORIDA STRUT	VERSABAR	WESANCO
F70	VF1501	W5023

5-Hole Corner Gusset Plate



FLORIDA STRUT	VERSABAR	WESANCO
F54	VF1505	W5028

Five Hole Gusset Plate



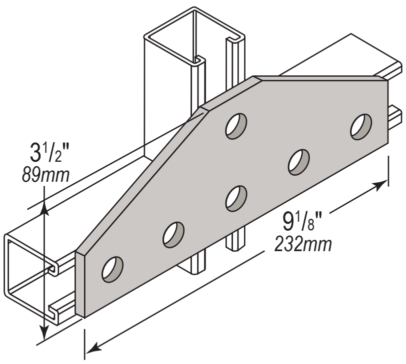
FLORIDA STRUT	VERSABAR	WESANCO
F63	VF1504	W5027

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

Flat Plate Fittings

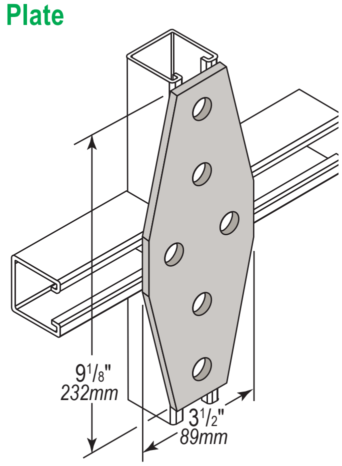
Standard Finish: Electro Galvanized (EG)

6-Hole Gusseted Cross Connector



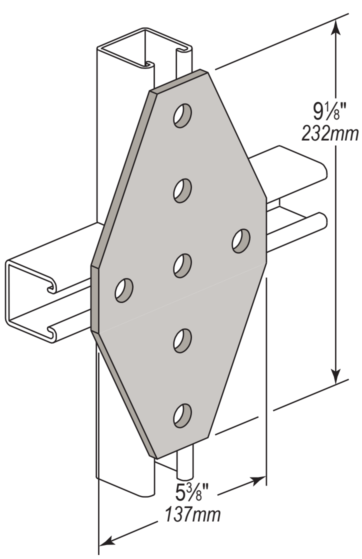
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1602	--

6-Hole Corner Plate



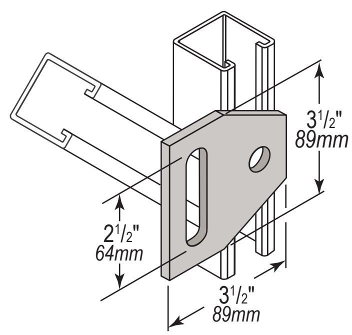
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1603	--

7-Hole Cross Gusset Plate



FLORIDA STRUT	VERSABAR	WESANCO
F71	VF1704	W5029

Triangular Slotted Plate



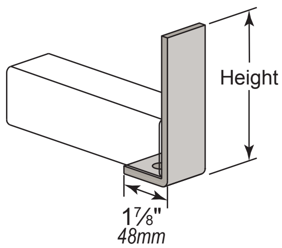
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1205	--

Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

90° Angle Fittings

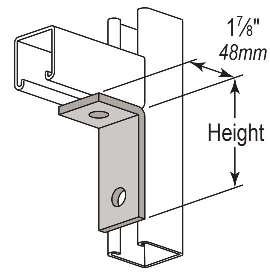
Standard Finish: Electro Galvanized (EG)

1-Hole Angle Washer with Threaded Hole



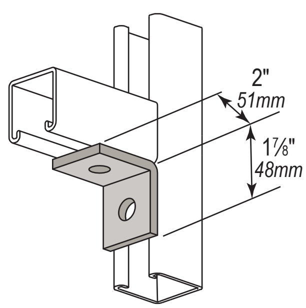
FLORIDA STRUT	VERSABAR	WESANCO	Height
L70	VF2121	W5160	3-7/8" *(98mm)*
L71	VF2122	--	5-7/8" *(149mm)*
L72	VF2123	--	7-7/8" *(200mm)*
L73	VF2124	--	9-7/8" *(250mm)*

2-Hole Corner Angle Washer with Threaded Hole



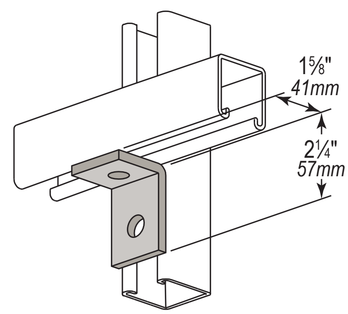
FLORIDA STRUT	VERSABAR	WESANCO	Height
L14	VF2205A	–	3" *(76mm)*
L15	VF2205B	–	3-1/2" *(89mm)*
L16	VF2205C	–	4" *(102mm)*

2-Hole End Connector



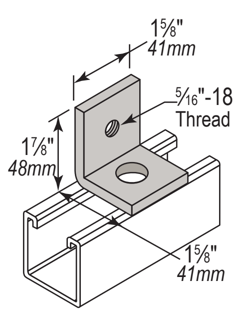
FLORIDA STRUT	VERSABAR	WESANCO
L11	VF2201	W5103

2-Hole Rack Connector



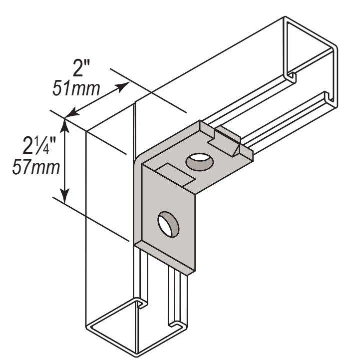
FLORIDA STRUT	VERSABAR	WESANCO
L20	VF2202	W5102

2-Hole Rack Connector with One Threaded Hole



FLORIDA STRUT	VERSABAR	WESANCO
--	VF2202T	--

2-Hole Rack Connector with One End Notch



FLORIDA STRUT	VERSABAR	WESANCO
--	VF2209N	--

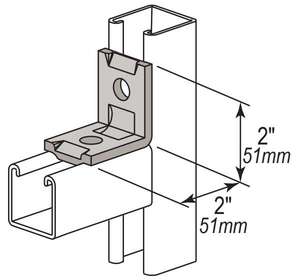
Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

90° Angle Fittings

IDEAL TRIDON GROUP

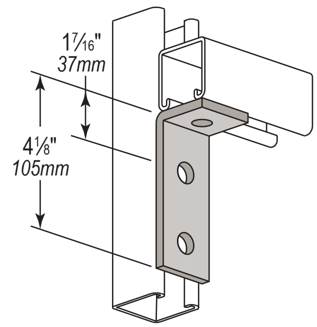
Standard Finish: Electro Galvanized (EG)

2-Hole Rack Connector with Two End Notches



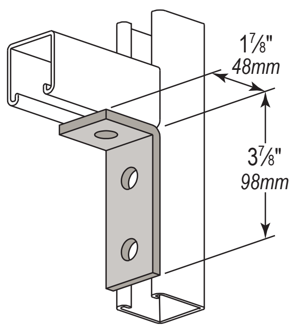
FLORIDA STRUT	VERSABAR	WESANCO
L10	VF2204N	W5104

3-Hole Column Stringer Connector



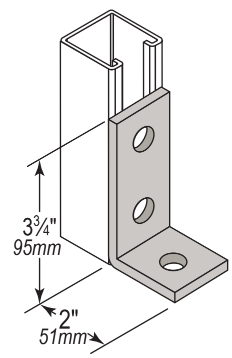
FLORIDA STRUT	VERSABAR	WESANCO
L21	VF2304	W5112

3-Hole End Connector



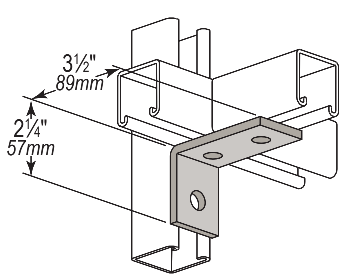
FLORIDA STRUT	VERSABAR	WESANCO
L12	VF2305	W5113

3-Hole End Connector



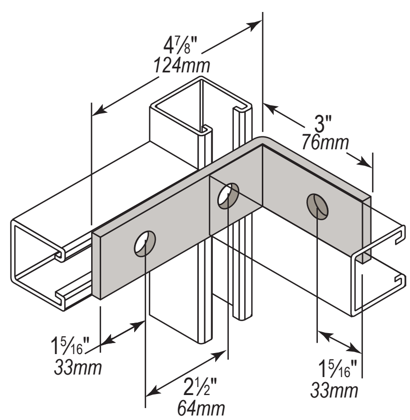
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2307	--

3-Hole Rack Corner Angle



FLORIDA STRUT	VERSABAR	WESANCO
L30	VF2308	W5115

3-Hole Corner Connector



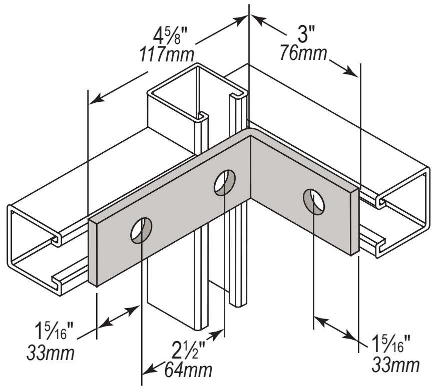
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2213	--

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

90° Angle Fittings

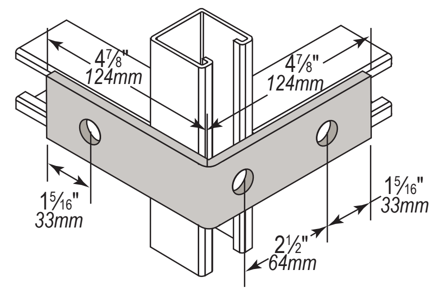
Standard Finish: Electro Galvanized (EG)

3-Hole, 3-Way Inside Corner



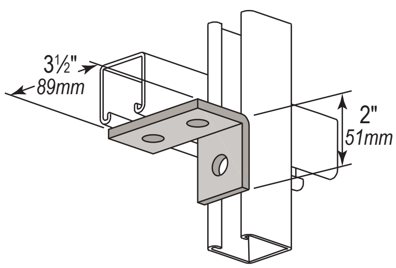
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2322	--

3-Hole, 3-Way Outside Corner



FLORIDA STRUT	VERSABAR	WESANCO
--	VF2313	--

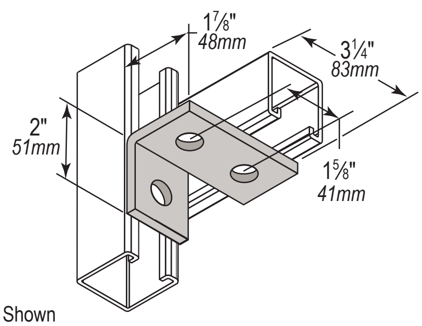
3-Hole Angle Connector, Left or Right Hand



Left Hand Shown

FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF2315L	W5136	Left Handed
--	VF2315R	W5135	Right Handed

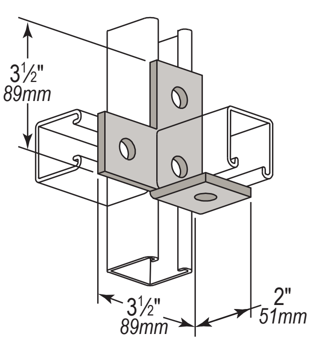
3-Hole Angle Connector, Left or Right Hand



Right Hand Shown

FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF2301L	--	Left Hand
--	VF2301R	--	Right Hand

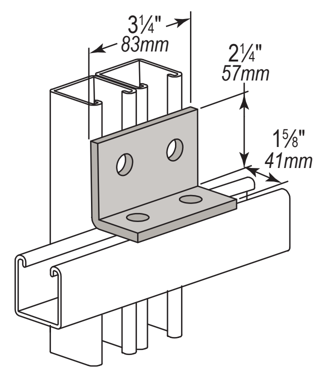
4-Hole Angle Connector, Left or Right Hand



Left Hand Shown

FLORIDA STRUT	VERSABAR	WESANCO	Description
L51	VF2402L	W5140	Left Handed
L52	VF2402R	W5141	Right Handed

Four Hole, Two Column Strut Splice Connector



FLORIDA STRUT	VERSABAR	WESANCO
--	VF2417	W5126

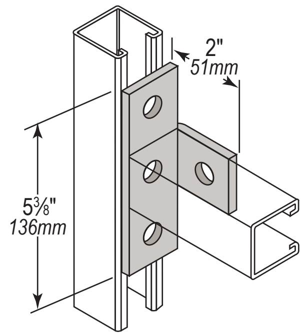
Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

90° Angle Fittings

IDEAL TRIDON GROUP

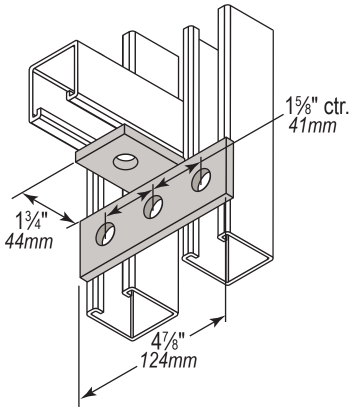
Standard Finish: Electro Galvanized (EG)

4-Hole Offset Corner Angle



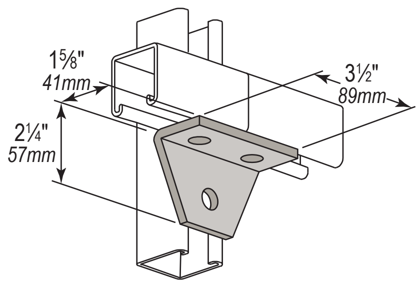
FLORIDA STRUT	VERSABAR	WESANCO
L50	VF2401	--

4-Hole Right Angle Tee



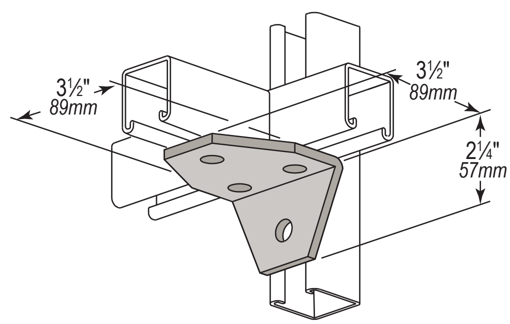
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2401B	--

3-Hole Rack Splice Connector



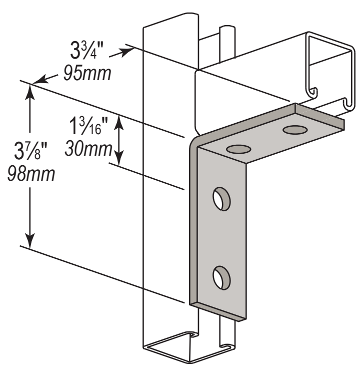
FLORIDA STRUT	VERSABAR	WESANCO
L22	VF2310	W5110

4-Hole, Three Way Gusset Corner Angle



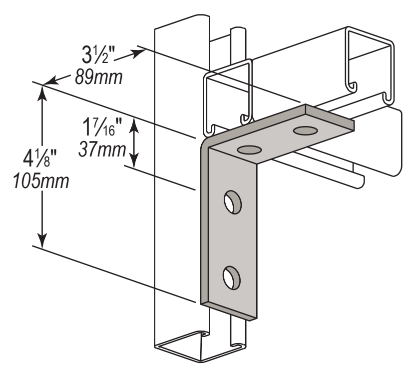
FLORIDA STRUT	VERSABAR	WESANCO
L32	VF2413	--

Four Hole Corner Connector



FLORIDA STRUT	VERSABAR	WESANCO
L13	VF2403	W5125

Four Hole Rack Corner Angle



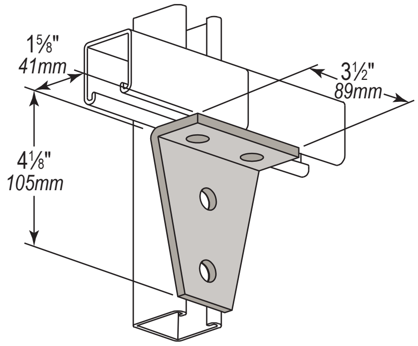
FLORIDA STRUT	VERSABAR	WESANCO
L31	VF2407	W5123

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

90° Angle Fittings

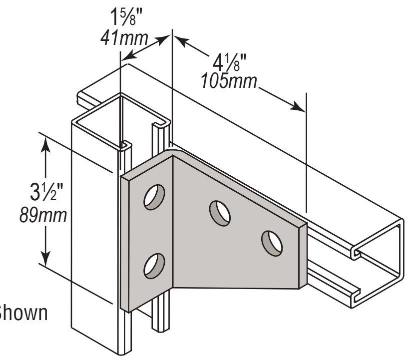
Standard Finish: Electro Galvanized (EG)

4-Hole Rack Splice Connector



FLORIDA STRUT	VERSABAR	WESANCO
L24	VF2410	W5109

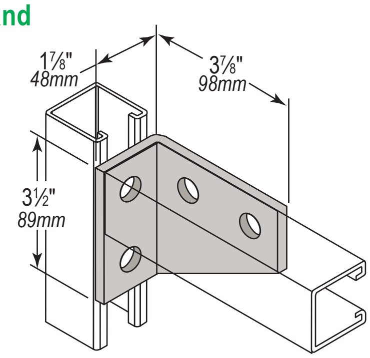
4-Hole Post/Stringer Connector, Left or Right Hand



Right Hand Shown

FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF2411L	--	Left Hand
--	VF2411R	--	Right Hand

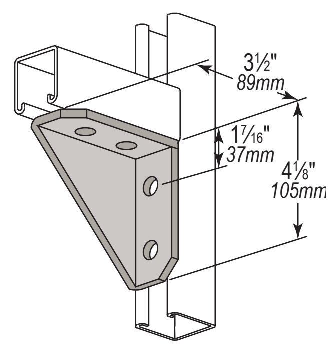
4-Hole Flush "T" Assembly Gusset Connector, Left or Right Hand



Right Hand Shown

FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF2421L	--	Left Hand
--	VF2421R	--	Right Hand

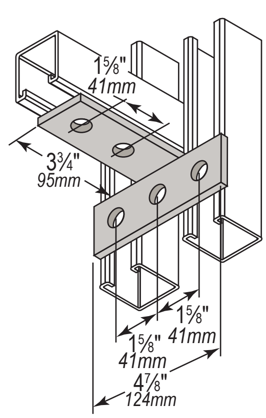
4-Hole Gusset Corner Angle, Left or Right Hand



Left Hand Shown

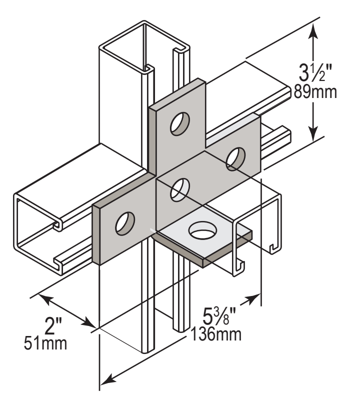
FLORIDA STRUT	VERSABAR	WESANCO	Description
L35	VF2426L	W5122	Left Hand
L36	VF2426R	W5121	Right Hand

5-Hole Right Angle Tee



FLORIDA STRUT	VERSABAR	WESANCO
--	VF2501	--

5-Hole Cross With 90° Angle Leg



FLORIDA STRUT	VERSABAR	WESANCO
--	VF2506	--

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

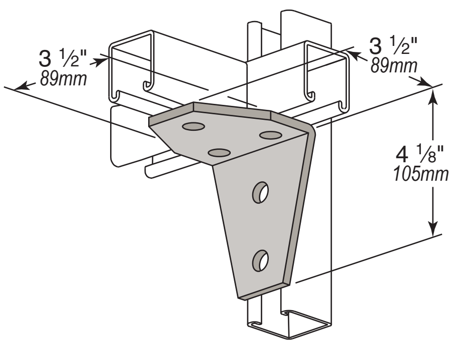
WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

90° Angle Fittings

IDEAL TRIDON GROUP

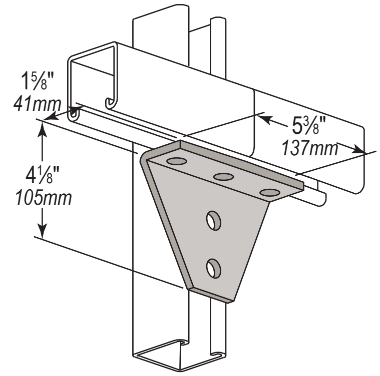
Standard Finish: Electro Galvanized (EG)

5-Hole Corner Splice Connector



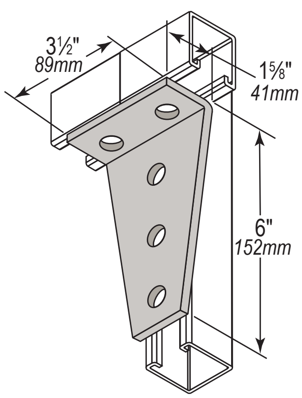
FLORIDA STRUT	VERSABAR	WESANCO
L33	VF2510	W5117

5-Hole Right Hand Gusset Angle Connector



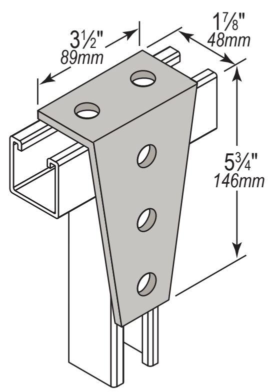
FLORIDA STRUT	VERSABAR	WESANCO
L23	VF2512	--

5-Right Angle Stringer On Column



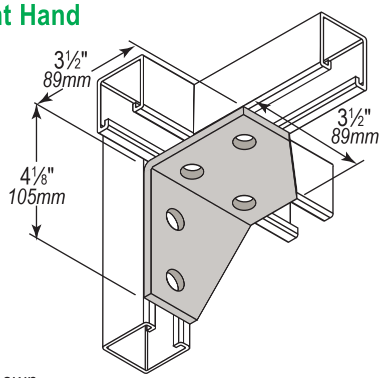
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2508	--

5-Right Angle Cap Fitting Tee



FLORIDA STRUT	VERSABAR	WESANCO
--	VF2509	--

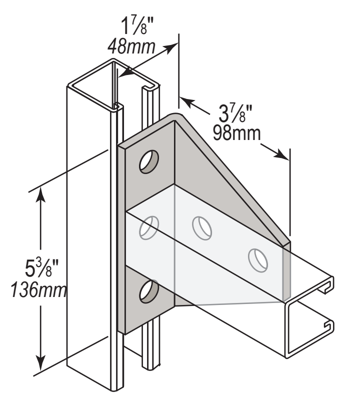
5-Hole, 3-Way End Column Connector, Left or Right Hand



Left Hand Shown

FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF2545L	--	Left Hand
--	VF2545R	--	Right Hand

5-Hole Flush Tee Assembly Gusset



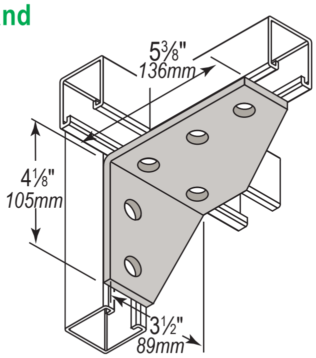
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2505	--

Hole Diameter: $\frac{9}{16}$" *(14mm)*; Hole Spacing - From End: $\frac{13}{16}$" (21mm); Hole Spacing - On Center: 1-$\frac{7}{8}$" (48mm); Width: 1-$\frac{5}{8}$"(41mm); Thickness: $\frac{1}{4}$" *(6mm)*

90° Angle Fittings

Standard Finish: Electro Galvanized (EG)

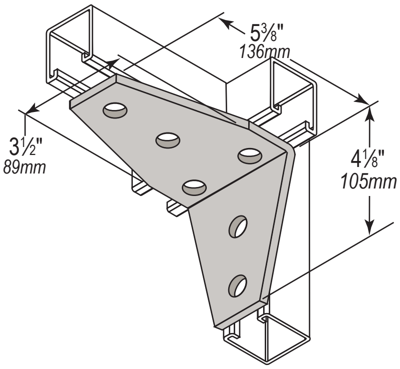
6-Hole, 3-Way Column/Shelf Connector, Left or Right Hand



Right Hand Shown

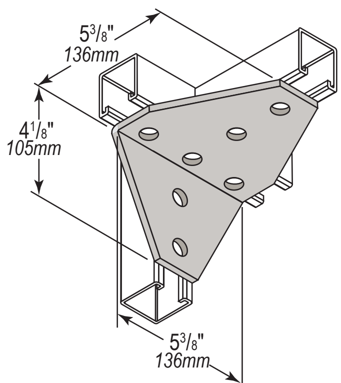
FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF2603L	--	Left Hand
--	VF2603R	--	Right Hand

6-Hole, 3-Way Mid Column Connector



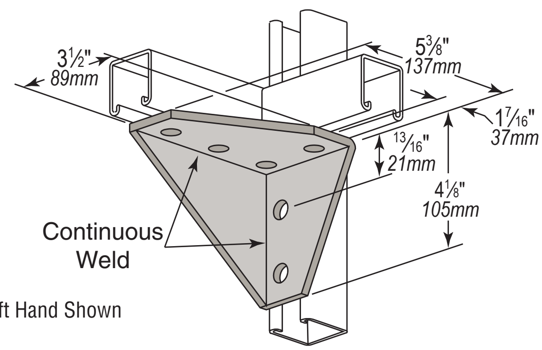
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2604	--

7-Hole, Three Way Mid Column Connector



FLORIDA STRUT	VERSABAR	WESANCO
--	VF2702	--

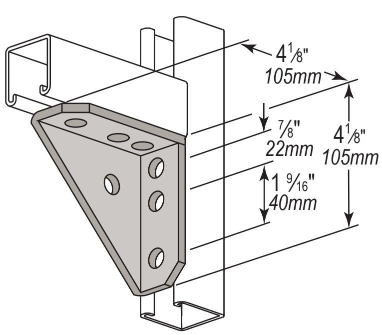
6-Hole Gusset Corner Angle, Left or Right Hand



Left Hand Shown

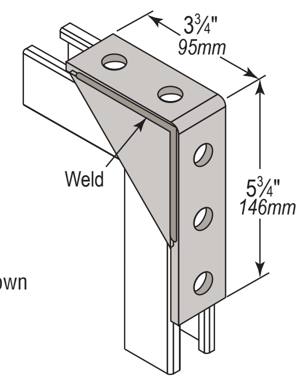
FLORIDA STRUT	VERSABAR	WESANCO	Description
--	--	W5156	Left Hand
--	--	W5157	Right Hand

Universal Corner Angle



FLORIDA STRUT	VERSABAR	WESANCO	Type
L34	VF2708	W5124	Plain
L34W	VF2708W	W5124W	Welded

5-Hole Gusset Angle Connector, Left or Right Hand



Right Hand Shown

FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF2503L	--	Left Hand
--	VF2503R	--	Right Hand

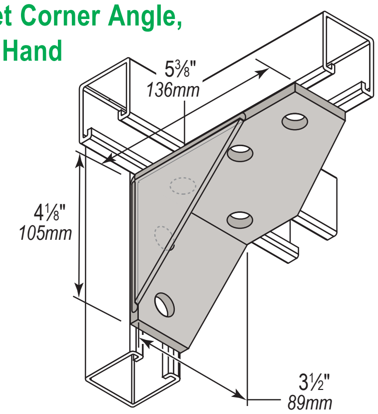
Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

90° Angle Fittings

IDEAL TRIDON GROUP

Standard Finish: Electro Galvanized (EG)

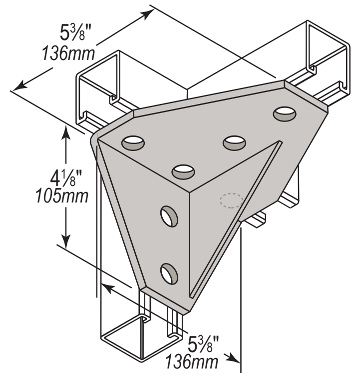
6-Hole Gusset Corner Angle, Left or Right Hand



* Right Hand Version Illustrated, Left Opp.

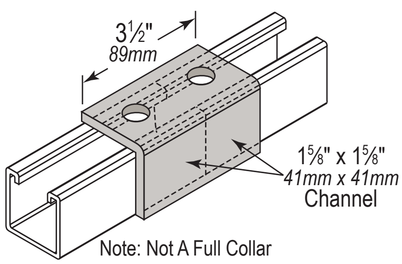
FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF2703L	--	Left Hand
--	VF2703R	--	Right Hand

7-Hole Braced Three Way Connector



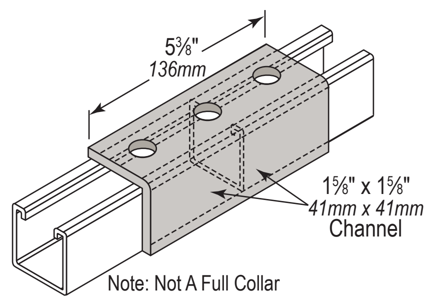
FLORIDA STRUT	VERSABAR	WESANCO
--	VF3702	--

2-Hole Right Angle End Splice



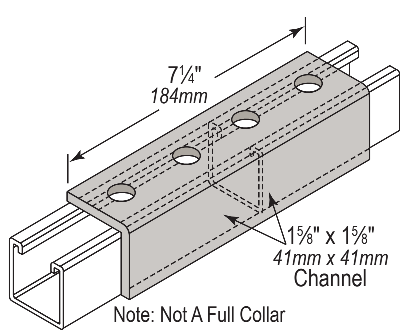
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2223	--

3-Hole Right Angle End Splice



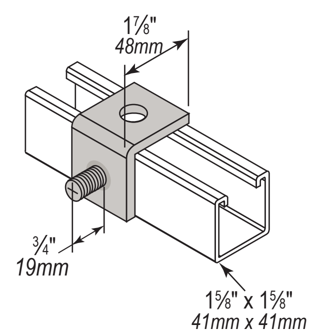
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2320	--

4-Hole Right Angle End Splice



FLORIDA STRUT	VERSABAR	WESANCO
--	VF2418	--

1-Stud, 1-Hole, Right Angle Stud Fitting



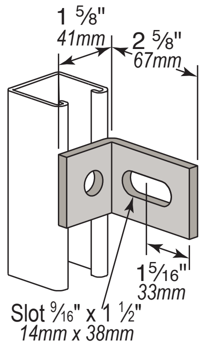
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2110A	--

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

90° Angle Fittings

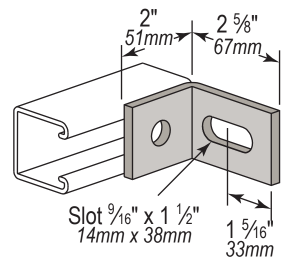
Standard Finish: Electro Galvanized (EG)

2-Hole Vertical Adjustment Angle



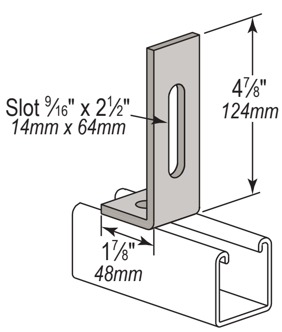
FLORIDA STRUT	VERSABAR	WESANCO
L40	VF2228A	W5106

2-Hole Horizontal Adjustment Angle



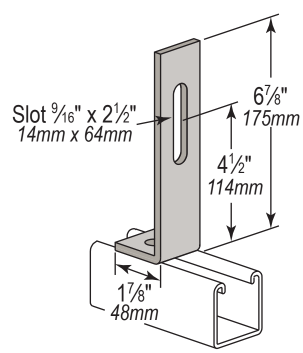
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2217	W5105

Two Hole Adjustment Angle



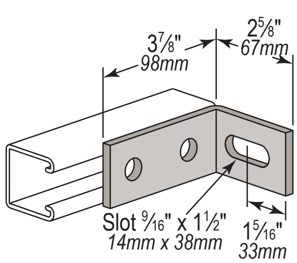
FLORIDA STRUT	VERSABAR	WESANCO
L41	VF2208	W5107

Two Hole Adjustment Angle



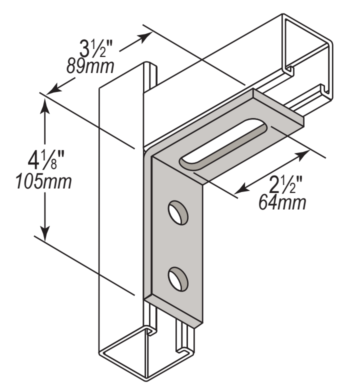
FLORIDA STRUT	VERSABAR	WESANCO
L42	VF2208A	W5108

3-Hole Adjustment Angle



FLORIDA STRUT	VERSABAR	WESANCO
L43	VF2507	W5111

3-Hole Adjustment Angle



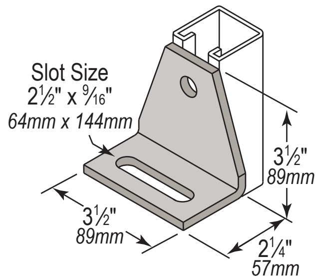
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2511	--

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

90° Angle Fittings

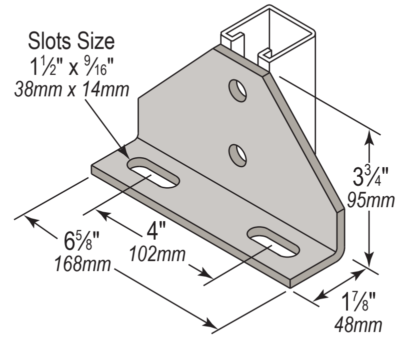
Standard Finish: Electro Galvanized (EG)

1-Slot, 1-Hole, Adjustable Gusset Corner Angle



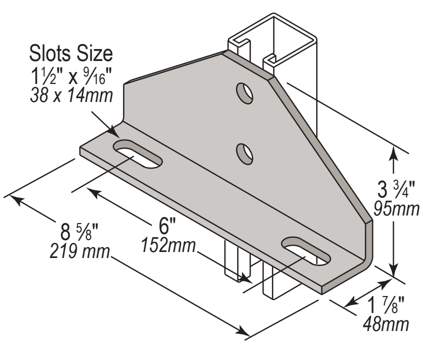
FLORIDA STRUT	VERSABAR	WESANCO
L44	VF2215	--

2-Slot, 2-Hole, Right Angle



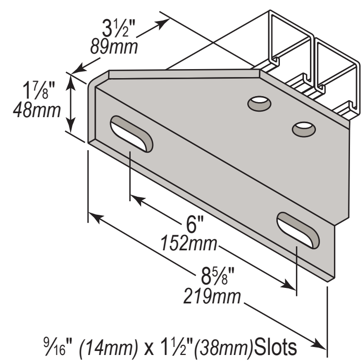
FLORIDA STRUT	VERSABAR	WESANCO
L45	VF2404	--

2-Slot, 2-Hole, Right Angle



FLORIDA STRUT	VERSABAR	WESANCO
L46	VF2404A	--

2-Slot, 2-Hole, Four Way Connector



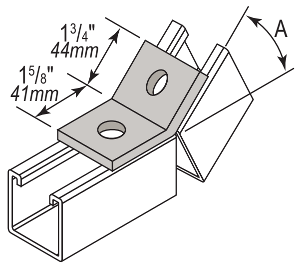
FLORIDA STRUT	VERSABAR	WESANCO
--	VF2409	--

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Angle Fittings

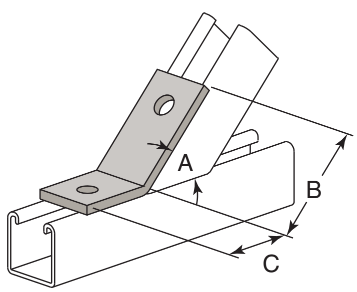
Standard Finish: Electro Galvanized (EG)

Two Hole Small Open Angle



FLORIDA STRUT	VERSABAR	WESANCO	A
–	VF32488250	–	82-½°
–	VF324875	–	75°
–	VF32486750	–	67-½°
–	VF324860	–	60°
–	VF324852150	–	52-½°
–	VF324845	–	45°
–	VF32483750	–	37-½°
–	VF324830	–	30°
–	VF32482250	–	22-½°
--	VF324815	--	15°
--	VF3248750	--	7-½°

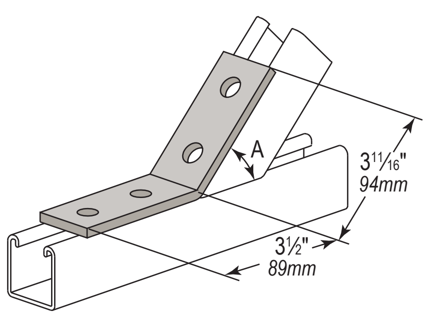
Two Hole Open Angle



"A" is available in any angle up to 90°. Dimensions shown may vary based on specified angle.

FLORIDA STRUT	VERSABAR	WESANCO	A	B	C
–	VF32078250	–	82½°	3½" *(89mm)*	1¾" *(44mm)*
–	VF320875	–	75°	3½" *(89mm)*	1¾" *(44mm)*
–	VF32106750	–	67½°	3½" *(89mm)*	1¾" *(44mm)*
--	VF320660	W5423	60°	3⅜" *(86mm)*	1⅞" *(48mm)*
–	VF32115250	–	52½°	3¼" *(83mm)*	2-1/16" *(52mm)*
L60	VF230345	W5425	45°	3" *(76mm)*	2-5/16" *(59mm)*
–	VF32123750	–	37½°	3½" *(89mm)*	1¾" *(44mm)*
–	VF32133750	–	37½°	2¾" *(70mm)*	2⅝" *(67mm)*
–	VF321430	W5427	30°	3¼" *(83mm)*	2-1/16" *(52mm)*
–	VF32152250	–	22½°	3-5/16" *(100mm)*	2-1/16" *(52mm)*
–	VF321615	W5471	15°	3-5/16" *(100mm)*	2-1/16" *(52mm)*
–	VF3217750	–	7½°	3-5/16" *(100mm)*	2-1/16" *(52mm)*

Four Hole Open Angle

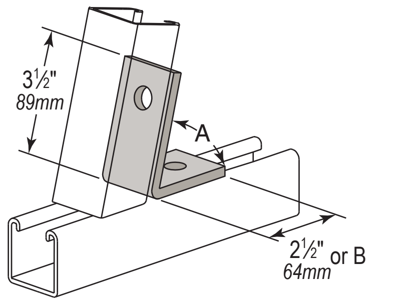


"A" is available in any angle up to 90°. Dimensions shown may vary based on specified angle.

FLORIDA STRUT	VERSABAR	WESANCO	A
–	VF34028250	–	82-½°
–	VF340275	–	75°
–	VF34026750	–	67-½°
--	VF340260	W5443	60°
–	VF34025250	–	52-½°
L62	VF340245	W5445	45°
–	VF34023750	–	37-½°
--	VF340230	W5447	30°
–	VF34022250	–	22-½°
–	VF340215	–	15°
–	VF3402750	–	7-½°

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

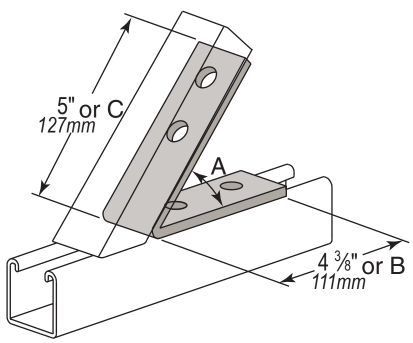
Two Hole Closed Angle



"A" is available in any angle up to 90°. Dimensions shown may vary based on specified angle.

FLORIDA STRUT	VERSABAR	WESANCO	A	B (W & FS)
–	VF32188250	–	82-½°	–
–	VF321975	–	75°	–
–	VF32206750	–	67-½°	–
--	VF320560	W5463	60°	2-25⁄32" *(71mm)*
–	VF32215250	–	52-½°	–
L61	VF320245	W5465	45°	3-1⁄16" *(78mm)*
–	VF32223750	–	37-½°	–

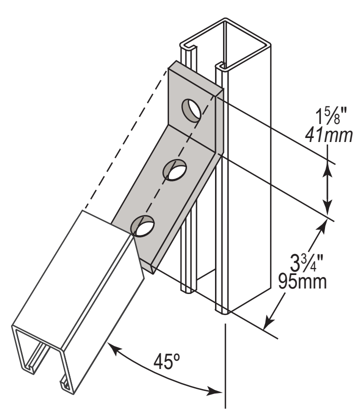
Four Hole Closed Angle



FLORIDA STRUT	VERSABAR	WESANCO	A	B (W & FS)	C (W & FS)
–	VF34248250	–	82-½°	–	–
–	VF342575	–	75°	–	–
–	VF34266750	–	67-½°	–	–
--	VF342760	W5413	60°	4-21⁄32" *(118mm)*	4-5⁄8" *(117mm)*
–	VF34285250	–	52-½°	–	–
L63	VF342945	W5415	45°	4-15⁄16" *(125mm)*	4-11⁄32" *(110mm)*
–	VF34303750	–	37-½°	–	–

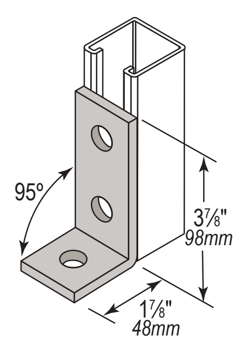
"A" is available in any angle up to 90°. Dimensions shown may vary based on specified angle.

3-Hole 45° Open Angle



FLORIDA STRUT	VERSABAR	WESANCO
--	VF330145	--

3-Hole Floor Clip 95° Angle



FLORIDA STRUT	VERSABAR	WESANCO
--	VF3306	--

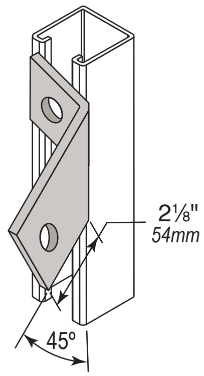
Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Angle Fittings

Standard Finish: Electro Galvanized (EG)

Brace Connector, Left or Right Hand

Left Hand Shown

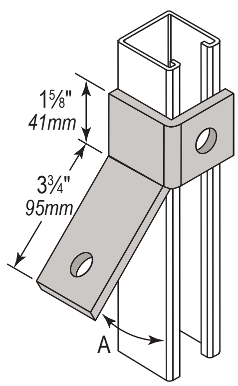


FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF2203L	--	Left Hand
--	VF2203R	--	Right Hand

2-Hole Angle Wing Fitting, Left or Right Hand

Right Hand Shown

Collar fits: 1-5/8" x 1-5/8" Channel

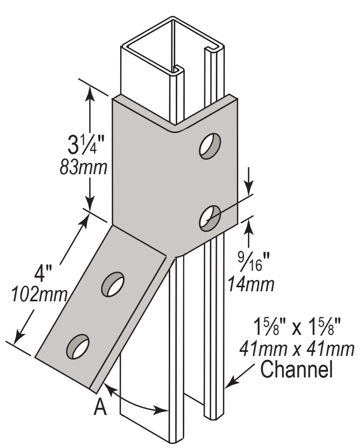


FLORIDA STRUT	VERSABAR	WESANCO	Description	A
–	VF6206L60	–	Left Hand	60°
--	VF6206R60	--	Right Hand	
–	VF6205L5250	–	Left Hand	52-½°
--	VF6205R5250	--	Right Hand	
–	VF6204L45	–	Left Hand	45°
--	VF6204R45	--	Right Hand	
–	VF6203L3750	–	Left Hand	37-½°
--	VF6203R3750	--	Right Hand	
–	VF6202L30	–	Left Hand	30°
--	VF6202R30	--	Right Hand	
--	VF6201L2250	--	Left Hand	22-½°
–	VF6201R2250	–	Right Hand	

4-Hole Angle Wing Fitting, Left or Right Hand

Right Hand Shown

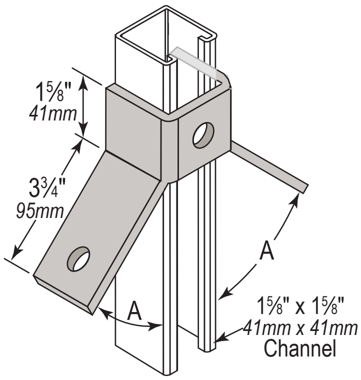
Collar fits: 1-5/8" x 1-5/8" Channel



FLORIDA STRUT	VERSABAR	WESANCO	Description	A
–	VF6411L60	–	Left Hand	60°
--	VF6411R60	--	Right Hand	
–	VF6410L5250	–	Left Hand	52-½°
--	VF6410R5250	--	Right Hand	
–	VF6409L45	–	Left Hand	45°
--	VF6409R45	--	Right Hand	
–	VF6408L3750	–	Left Hand	37-½°
--	VF6408R3750	--	Right Hand	
–	VF6407L30	–	Left Hand	30°
--	VF6407R30	--	Right Hand	
--	VF6406L2250	--	Left Hand	22-½°
–	VF6406R2250	–	Right Hand	

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

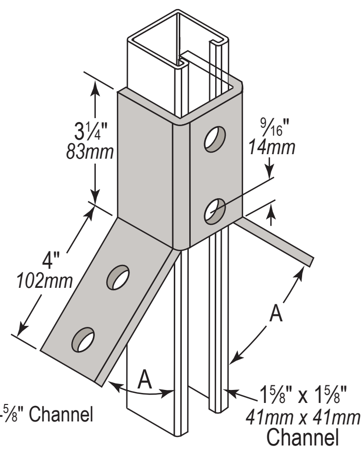
3-Hole Double Angle Wing Fitting



Collar fits: 1-⅝" x 1-⅝" Channel

FLORIDA STRUT	VERSABAR	WESANCO	A
–	VF631560	–	60°
–	VF63145250	–	52-½°
–	VF631345	–	45°
–	VF63123750	–	37-½°
–	VF631130	–	30°
–	VF63102250	–	22-½°

6-Hole Double Angle Wing Fitting



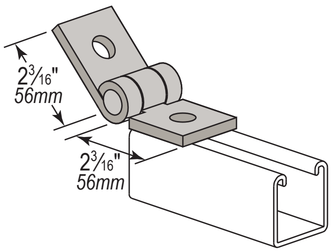
Collar fits: 1-⅝" x 1-⅝" Channel

FLORIDA STRUT	VERSABAR	WESANCO	A
–	VF661760	–	60°
–	VF66165250	–	52½°
–	VF661545	–	45°
–	VF66143750	–	37½°
–	VF661330	–	30°
–	VF66122250	–	22½°

Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

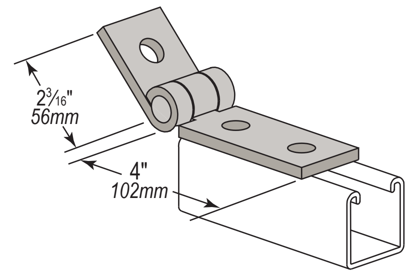
Standard Finish: Electro Galvanized (EG)

Two-Hole Adjustable Hinge Connection



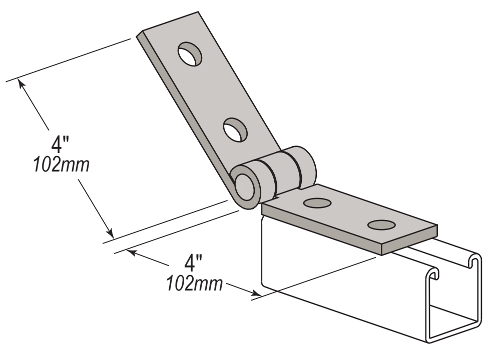
FLORIDA STRUT	VERSABAR	WESANCO
--	--	B5490

Three-Hole Adjustable Hinge Connection



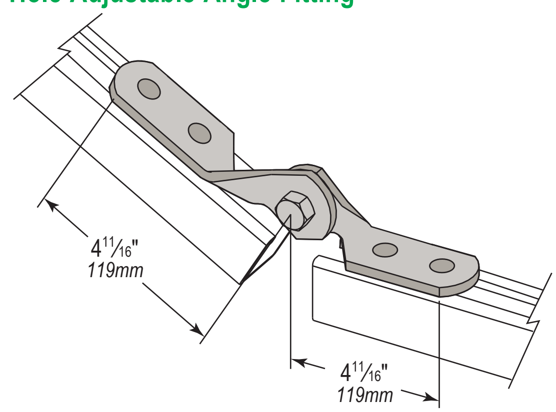
FLORIDA STRUT	VERSABAR	WESANCO
--	--	B5491

Four-Hole Adjustable Hinge Connection



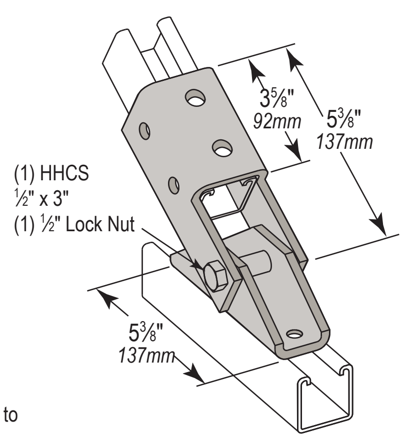
FLORIDA STRUT	VERSABAR	WESANCO
--	--	B5492

Four-Hole Adjustable Angle Fitting



FLORIDA STRUT	VERSABAR	WESANCO
--	--	B5495

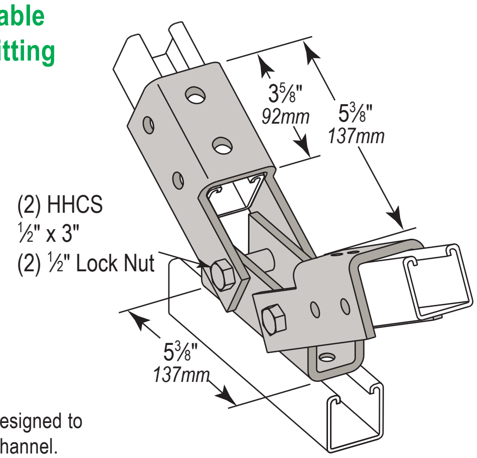
Single Adjustable Angle Brace Fitting



Wrap around clevis designed to accommodate 1-5/8" channel.

FLORIDA STRUT	VERSABAR	WESANCO
--	VF7046	W5480

Double Adjustable Angle Brace Fitting



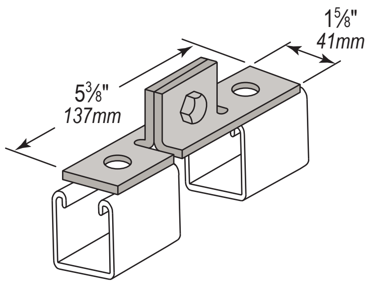
Wrap around clevis designed to accommodate 1-5/8" channel.

FLORIDA STRUT	VERSABAR	WESANCO
--	VF7047	W5485

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

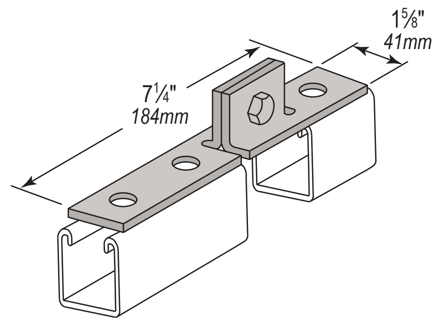
Standard Finish: Electro Galvanized (EG)

2-Hole Adjustable Hinge Fitting for Seismic Bracing and General Construction



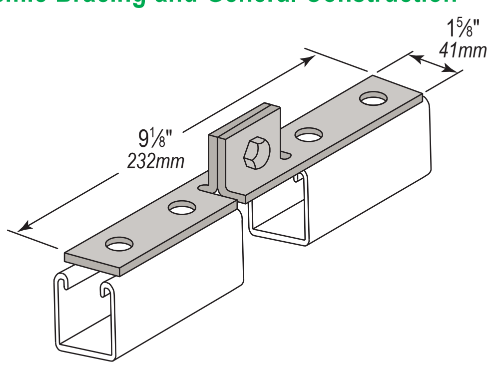
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1201H	--
Available in stainless steel		

3-Hole Adjustable Hinge Fitting for Seismic Bracing and General Construction



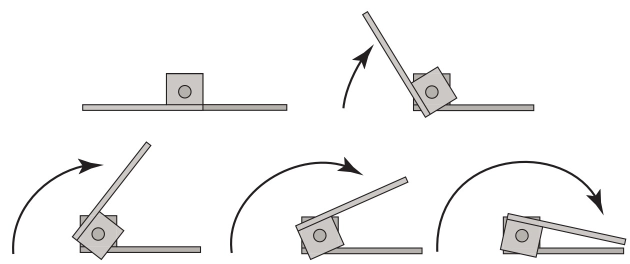
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1302H	--
Available in stainless steel		

4-Hole Adjustable Hinge Fitting for Seismic Bracing and General Construction



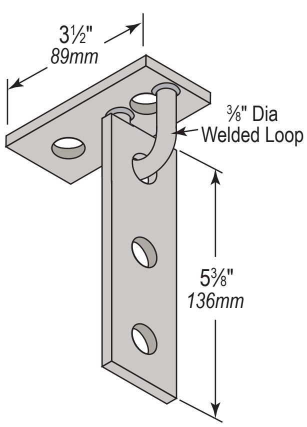
FLORIDA STRUT	VERSABAR	WESANCO
--	VF1402H	--
Available in stainless steel		

Allows adjustable tension through full range of motion



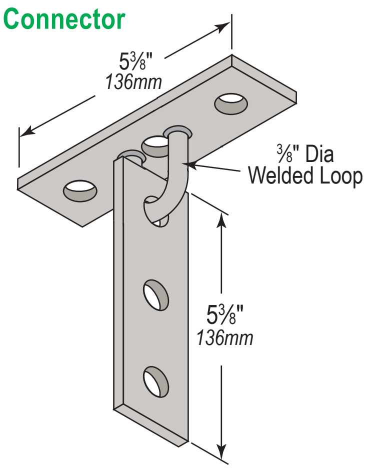
These fittings allow a full range of motion, and are compatible with all 1-⅝" standard channels.

Moveable Brace Connector



FLORIDA STRUT	VERSABAR	WESANCO
--	VF7043A	--

Moveable Brace Connector



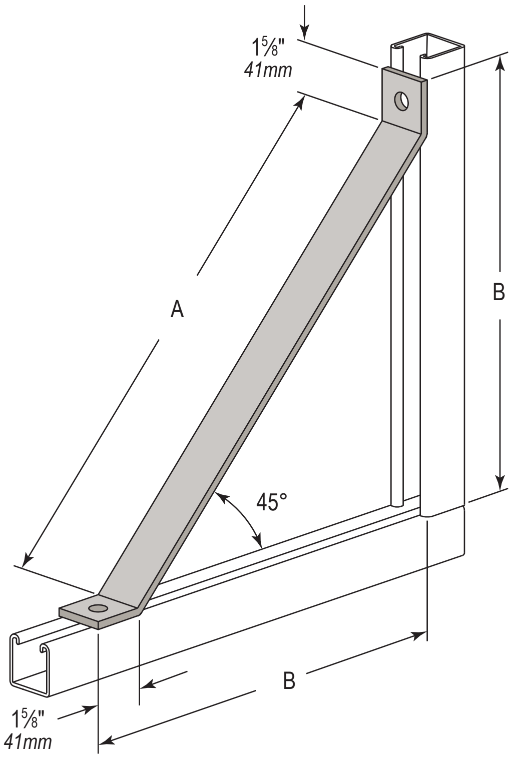
FLORIDA STRUT	VERSABAR	WESANCO
--	VF7043B	--

Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

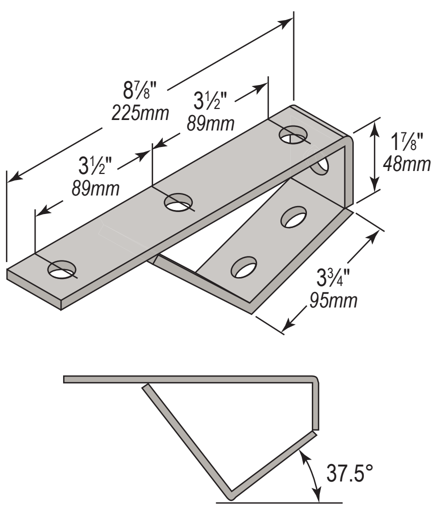
Standard Finish: Electro Galvanized (EG)

45° Angular Corner Brace

FLORIDA STRUT	VERSABAR	WESANCO	A	B
L80	--	–	8" *(203mm)*	7-½" *(191mm)*
L81	VF325012	W5472	12" *(305mm)*	10-⅛" *(257mm)*
L82	--	W5473	16-⅝" *(422mm)*	13-⅜" *(340mm)*
L83	VF325018	W5474	18" *(457mm)*	14-⅜" *(365mm)*
L84	VF325024	W5475	24" *(610mm)*	18-⅜" *(473mm)*

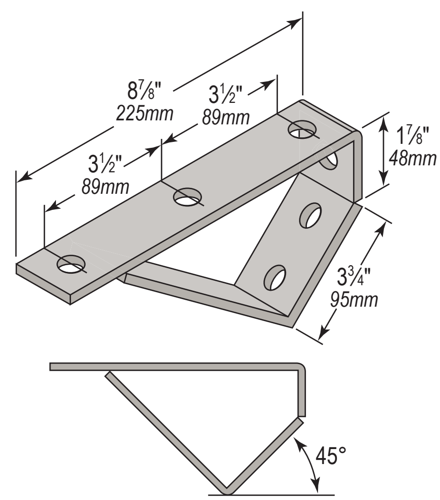


Stair Tread Support 37.5°



FLORIDA STRUT	VERSABAR	WESANCO
--	VF70453750	--

Stair Tread Support 45°



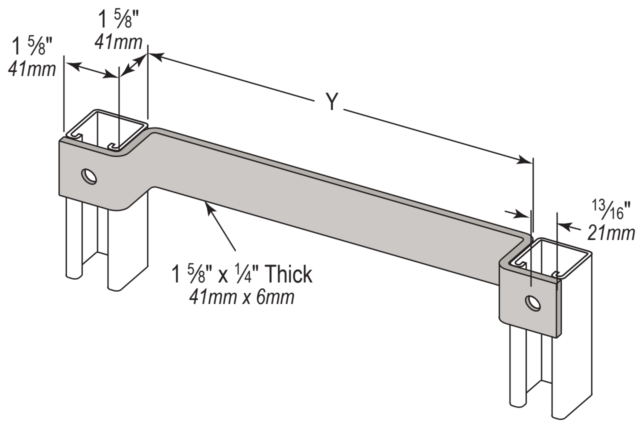
FLORIDA STRUT	VERSABAR	WESANCO
--	VF704545	--

Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Brace Fittings

Standard Finish: Electro Galvanized (EG)

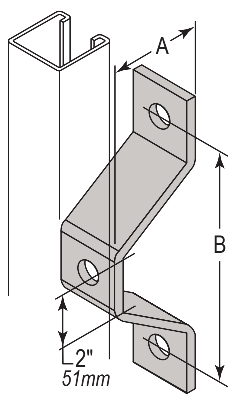
Utility Vault Ladder Rung



Channel (handrail) type per design.
Note: Use closure strip in all open channel (handrail) faces
Note: Use of W1017 stand off per design

FLORIDA STRUT	VERSABAR	WESANCO	Y
--	--	W10236	6" *(152mm)*
--	--	W10238	8" *(203mm)*
--	--	W102310	10" *(254mm)*
--	VF6108	W102312	12" *(305mm)*
--	VF6109	--	15" *(381mm)*
--	--	W102316	16" *(406mm)*
--	VF6110	W102318	18" *(457mm)*
--	--	W102324	24" *(610mm)*

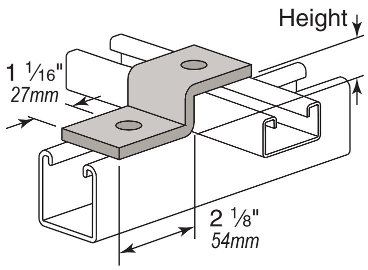
Ladder Assembly Fitting



FLORIDA STRUT	VERSABAR	WESANCO	A	B
--	VF6111	--	2-3⁄8" *(60mm)*	6" *(152mm)*
--	VF6112	--	4-3⁄8" *(111mm)*	8" *(203mm)*
--	VF6113	--	6-3⁄8" *(162mm)*	10" *(254mm)*
--	VF6114	W1017E	8-3⁄8" *(213mm)*	12" *(305mm)*
--	VF6115	--	10-3⁄8" *(263mm)*	14" *(356mm)*

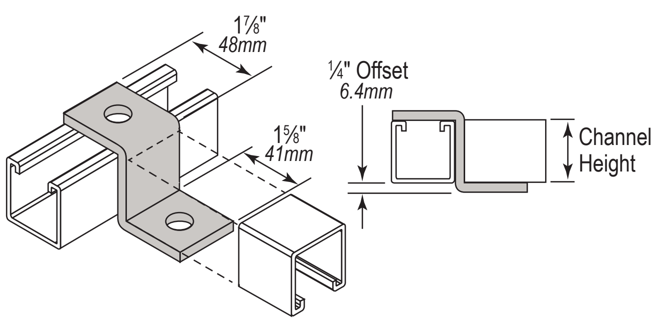
Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-7⁄8" (48mm); Width: 1-5⁄8"(41mm); Thickness: 1⁄4" *(6mm)*

2-Hole Z Fitting



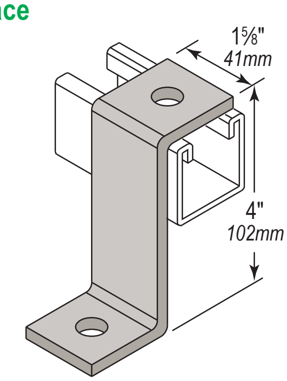
FLORIDA STRUT	VERSABAR	WESANCO	Height Use with Channel
–	VF4205	W5209	4-7/8" *(124mm)*
Z13	--	WSF9450	3-1/4" *(83mm)*
Z12	--	W5211	2-7/16" *(62mm)*
--	VF43013	--	2-1/2" *(64mm)*
Z11	--	--	1-5/8" *(41mm)*
--	VF43016	W5213	1-3/8" *(35mm)*
Z14	VF430110	W5218	1" *(25mm)*
Z10	VF43014	W5215	13/16" *(21mm)*

2-Hole Z Connector Level Mount



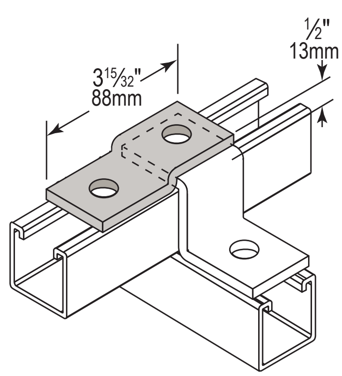
FLORIDA STRUT	VERSABAR	WESANCO	Height Use with Channel
--	VF42013	--	2-1/2" *(64mm)*
--	VF4201	--	1-5/8" *(41mm)*
--	VF42014	--	13/16" *(21mm)*

2-Hole Corner Brace



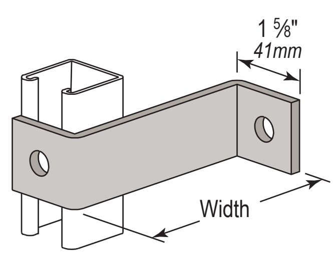
FLORIDA STRUT	VERSABAR	WESANCO
Z50	--	--

2-Hole Offset Support



FLORIDA STRUT	VERSABAR	WESANCO
Z20	VF4202	--

2-Hole Z Connector

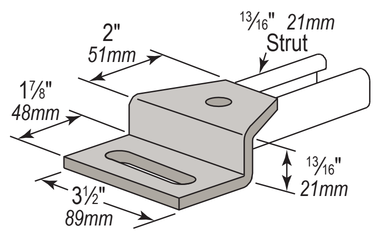


FLORIDA STRUT	VERSABAR	WESANCO	Width
Z30	VF4204A	W5224	4" *(102mm)*
Z31	VF4204B	W5225	5" *(127mm)*
Z32	VF4204C	W5226	6" *(152mm)*
Z33	VF4204D	W5227	7" *(178mm)*
Z34	VF4204E	W5228	8" *(203mm)*

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

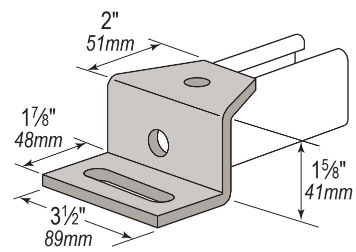
Standard Finish: Electro Galvanized (EG)

Adjustable Z Connector



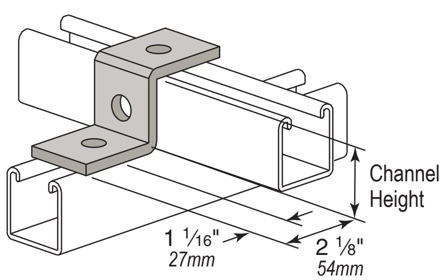
FLORIDA STRUT	VERSABAR	WESANCO
--	VF43034	W5205

Adjustable Z Connector



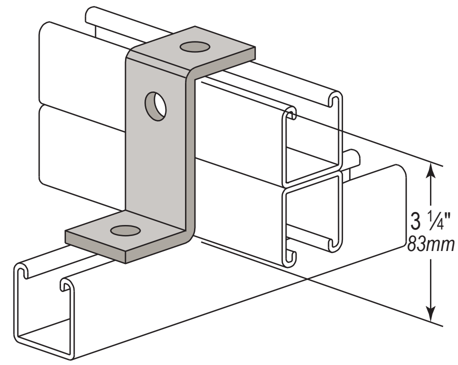
FLORIDA STRUT	VERSABAR	WESANCO
Z60	VF4303	W5202

Three Hole Z Fitting



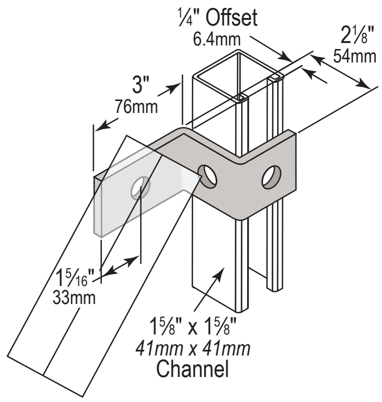
FLORIDA STRUT	VERSABAR	WESANCO	Height Use with Channel
--	--	W5210	3-¼" *(83mm)*
--	VF4301	W5212	1-⅝" *(41mm)*

Z Fitting For Double Square Channel



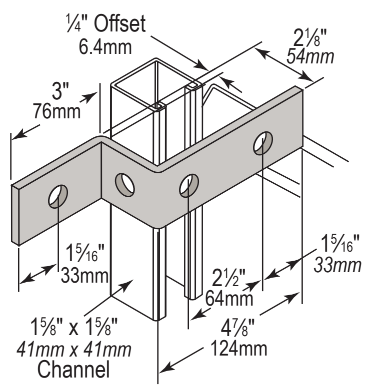
FLORIDA STRUT	VERSABAR	WESANCO
--	VF4302	--

Z Connector For Diagonal Brace



FLORIDA STRUT	VERSABAR	WESANCO
--	VF4203	--

4-Hole Brace



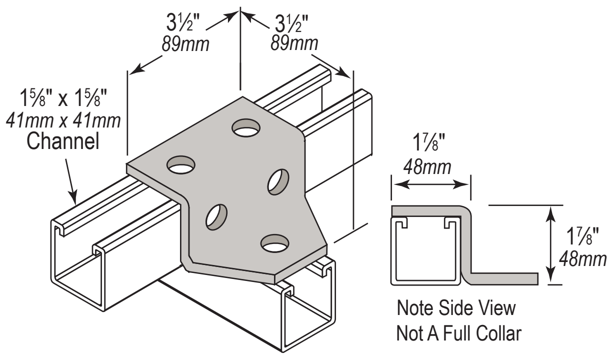
FLORIDA STRUT	VERSABAR	WESANCO
--	VF4401	--

Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

“Z” Shape Fittings

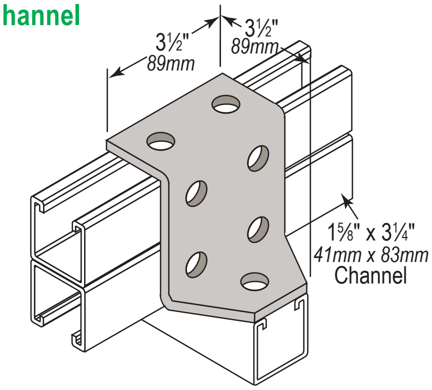
Standard Finish: Electro Galvanized (EG)

5-Hole Splice For Square Channel



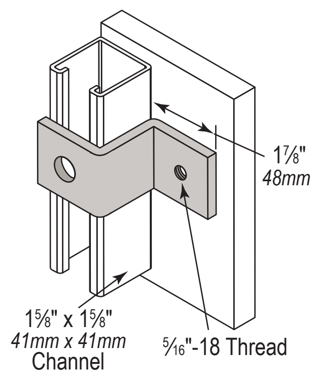
FLORIDA STRUT	VERSABAR	WESANCO
--	VF4501	--

7-Hole Splice for B2B Square Channel



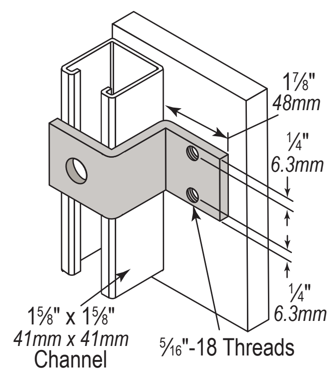
FLORIDA STRUT	VERSABAR	WESANCO
--	VF4701	--

Z Panel Mount 2 Hole 1 Tapped



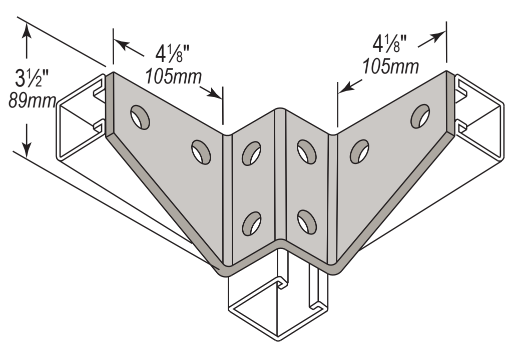
FLORIDA STRUT	VERSABAR	WESANCO
--	VF4101	--

Z Panel Mount 3 Hole 2 Tapped



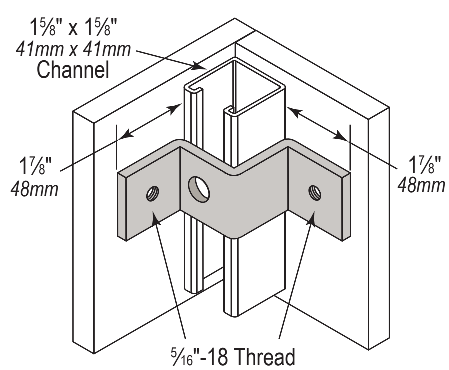
FLORIDA STRUT	VERSABAR	WESANCO
--	VF4102	--

8-Hole "W" Inside Corner Brace



FLORIDA STRUT	VERSABAR	WESANCO
Z51	VF3801	--

3-Hole, 2 Tap Panel Mount "W" Fitting

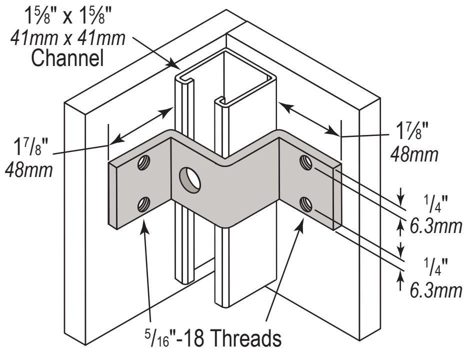


FLORIDA STRUT	VERSABAR	WESANCO
--	VF3101	--

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: ¼" *(6mm)*

Standard Finish: Electro Galvanized (EG)

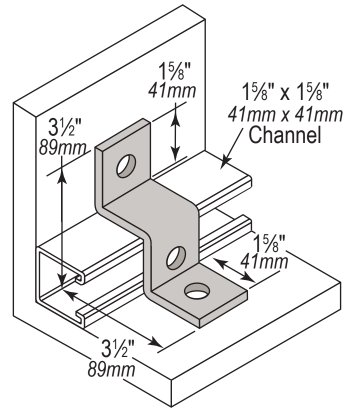
5-Hole, 4 Tap Panel Mount "W" Fitting



For 1-⅝" x 1-⅝" channel.

FLORIDA STRUT	VERSABAR	WESANCO
--	VF3103	--

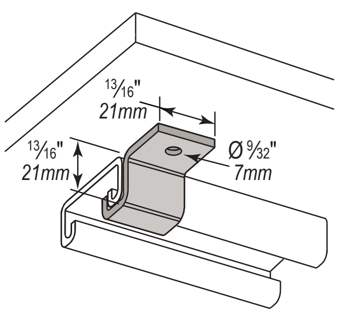
3-Hole "W" / 3 Way Interior Corner



For 1-⅝" x 1-⅝" channel.

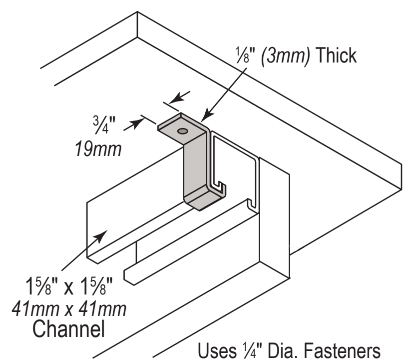
FLORIDA STRUT	VERSABAR	WESANCO
--	VF3303	--

Z Fitting Channel Hanger



FLORIDA STRUT	VERSABAR	WESANCO	Channel Height
Z40	--	--	13/16" *(21mm)*
Z41	--	--	1-⅝" *(41mm)*
Z42	--	--	2-7/16" *(62mm)*
Z43	--	--	3-¼" *(62mm)*

Z Fitting Channel Hanger Tabletop Frame Clip



FLORIDA STRUT	VERSABAR	WESANCO
--	VF4109	--

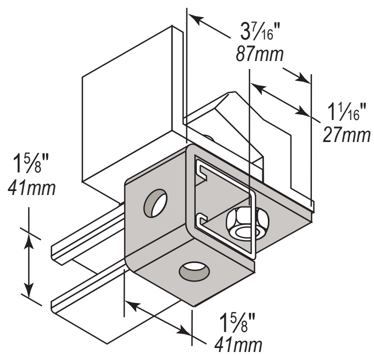
Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

"U" Shape Fittings

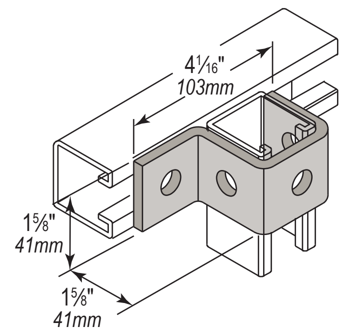
Standard Finish: Electro Galvanized (EG)

J Support For Square Channel



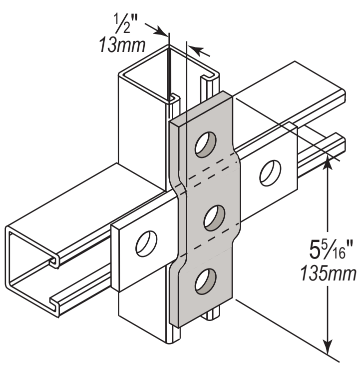
FLORIDA STRUT	VERSABAR	WESANCO
--	VF5302	--

4-Hole U-Fitting Cup Support



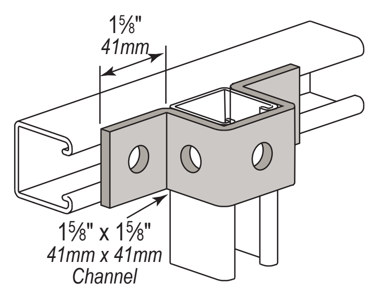
FLORIDA STRUT	VERSABAR	WESANCO
U50	VF6301A	--

3-Hole Strap For ¼" Flat Fitting



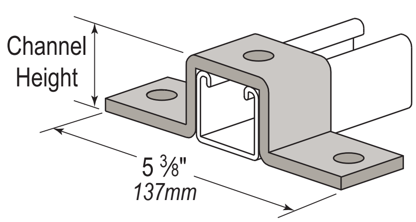
FLORIDA STRUT	VERSABAR	WESANCO
--	VF6308	--

5-Hole "U" Support for 1-⅝" Channel



FLORIDA STRUT	VERSABAR	WESANCO
U11	VF6402	W5312

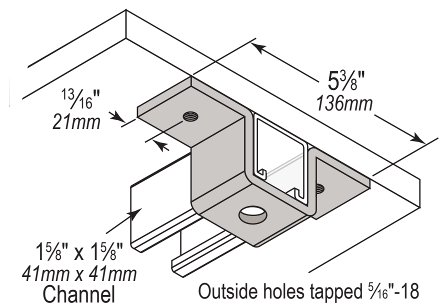
Three-Hole "U" Support



FLORIDA STRUT	VERSABAR	WESANCO	Channel Height
U10	VF64024	W5315	13/16" *(21mm)*
--	VF640210	W5318	1" *(25mm)*
--	VF64026	W5313	1-3/8" *(35mm)*
--	VF64023	--	2-1/2" *(64mm)*
U12	--	W5311	2-7/16" *(62mm)*
U13	VF6317	W5316	3-1/4" *(62mm)*
U14	VF6319	W5312	4-7/8" *(124mm)*

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: ¼" *(6mm)*

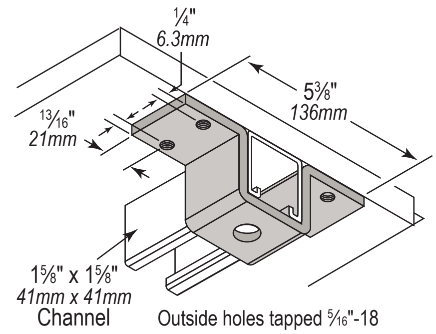
1-Hole, 2-Threaded Holes "U" Support for 1-⅝" Channel



For 1-⅝" x 1-⅝" channel.

FLORIDA STRUT	VERSABAR	WESANCO
--	VF6101	--

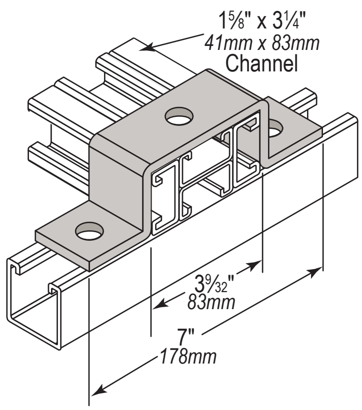
1-Hole, 4-Threaded Holes "U" Support for 1-⅝" Channel



For 1-⅝" x 1-⅝" channel.

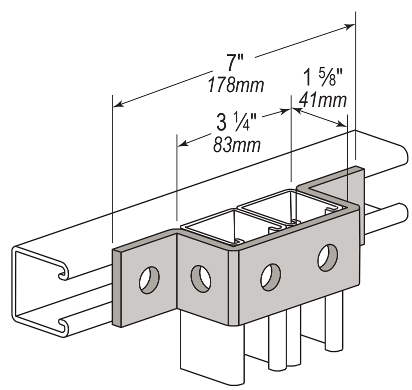
FLORIDA STRUT	VERSABAR	WESANCO
--	VF6102	--

3-Hole U-Fitting for 3-¼" Channel



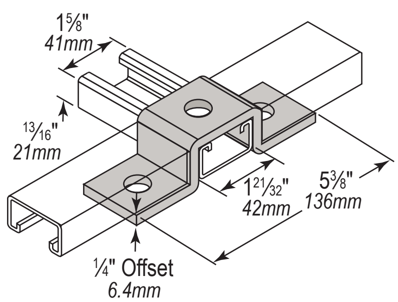
FLORIDA STRUT	VERSABAR	WESANCO
--	VF640144	--

6-Hole U-Fitting for 1-⅝" Double Channel



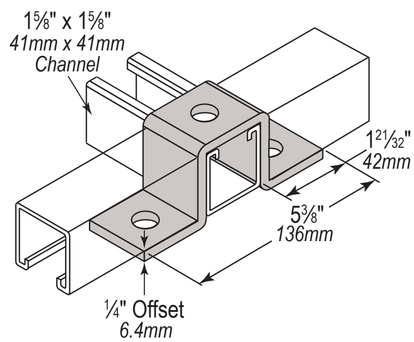
FLORIDA STRUT	VERSABAR	WESANCO
U16	VF6401	W5317

Square Channel "U" Connector Level Mount for 13/16" Channel



FLORIDA STRUT	VERSABAR	WESANCO
--	VF22064	--

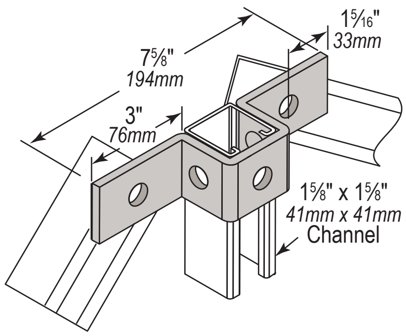
Square Channel "U" Connector Level Mount for 1-⅝" Channel



FLORIDA STRUT	VERSABAR	WESANCO
--	VF2206	--

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

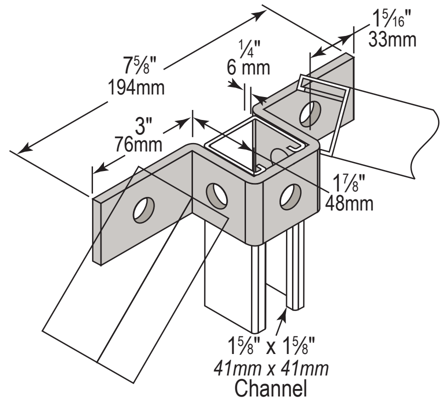
Connector For Double Diagonal Brace



For 1-5/8" x 1-5/8" channel.

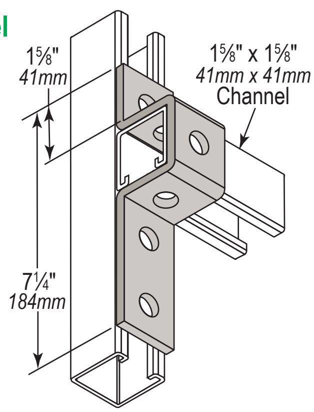
FLORIDA STRUT	VERSABAR	WESANCO
--	VF6403	--

Connector For Double Diagonal Brace



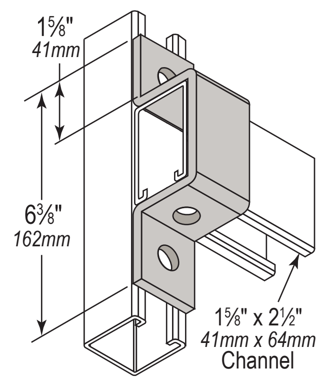
FLORIDA STRUT	VERSABAR	WESANCO
--	VF6404	--

6-Hole Strap for 1-5/8" Channel



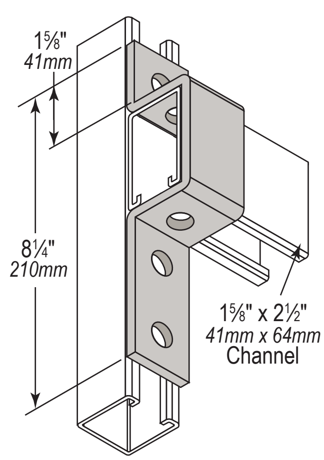
FLORIDA STRUT	VERSABAR	WESANCO
--	VF6501	--

4-Hole Strap For 2-½" Channel



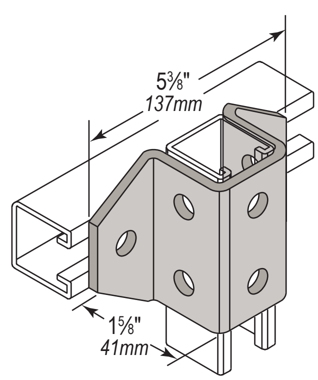
FLORIDA STRUT	VERSABAR	WESANCO
--	VF64023U	--

5-Hole Strap for 2-½" Channel



FLORIDA STRUT	VERSABAR	WESANCO
--	VF65013	--

8-Hole U-Fitting for 1-5/8" Channel



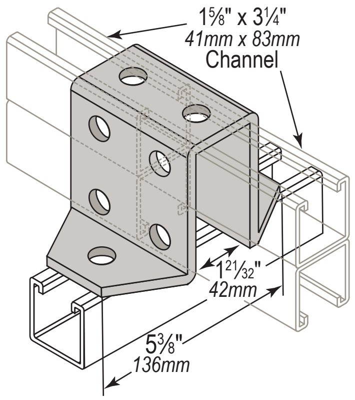
FLORIDA STRUT	VERSABAR	WESANCO
U15	VF6618	--

Hole Diameter: $\frac{9}{16}$" *(14mm)*; Hole Spacing - From End: $\frac{13}{16}$" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: $\frac{1}{4}$" *(6mm)*

"U" Shape Fittings

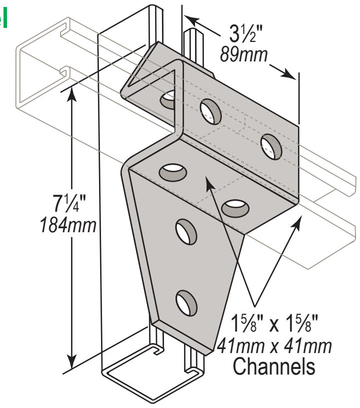
Standard Finish: Electro Galvanized (EG)

12-Hole U-Fitting for 3-¼" Channel



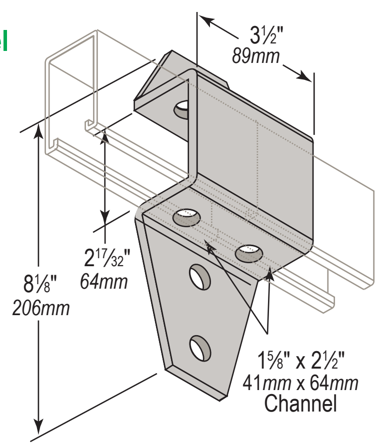
FLORIDA STRUT	VERSABAR	WESANCO
--	VF6619	--

9-Hole U-Fitting for 1-⅝" Channel



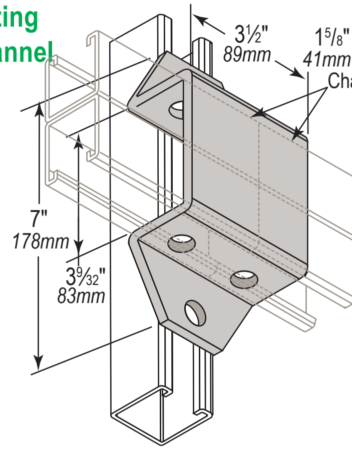
FLORIDA STRUT	VERSABAR	WESANCO
--	VF6701	--

7-Hole U-Fitting for 2-½" Channel



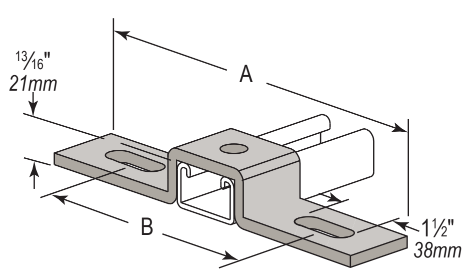
FLORIDA STRUT	VERSABAR	WESANCO
--	VF67013	--

6-Hole U-Fitting for 3-¼" Channel



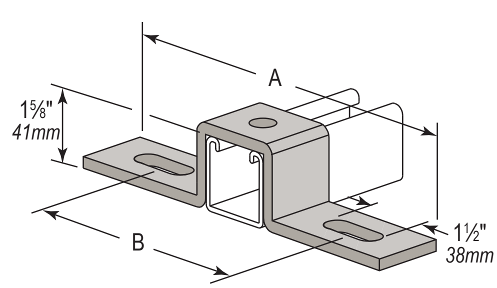
FLORIDA STRUT	VERSABAR	WESANCO
--	VF6802	--

1-Hole U-Fitting 2 Slot for ¹³⁄₁₆" Channel



FLORIDA STRUT	VERSABAR	WESANCO	A	B
--	VF63024	--	7-¼" (184mm)	4-⅛" (105mm)
--	VF63034	--	8-½" (216mm)	5-⅜" (136mm)
--	VF63044	--	10-⅜" (264mm)	7-¼" (184mm)

1-Hole U-Fitting 2 Slot for 1-⅝" Channel



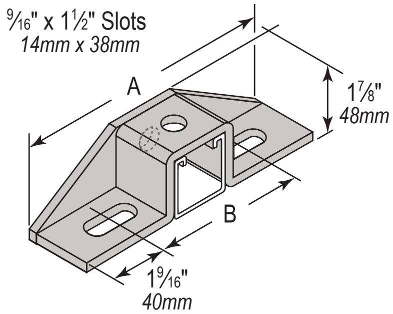
FLORIDA STRUT	VERSABAR	WESANCO	A	B
U20	VF6302	W5307	7-¼" (184mm)	4-⅛" (105mm)
U21	VF6303	W5308	8-½" (216mm)	5-⅜" (136mm)
U22	VF6304	W5310	10-⅜" (264mm)	7-¼" (184mm)

Hole Diameter: ⁹⁄₁₆" *(14mm)*; Hole Spacing - From End: ¹³⁄₁₆" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

"U" Shape Fittings

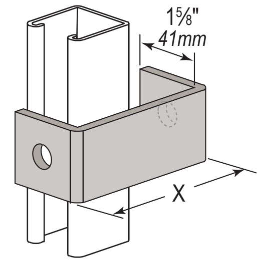
Standard Finish: Electro Galvanized (EG)

1-Hole U-Fitting 2 Slot Gusset Strap for 1-5/8" Channel



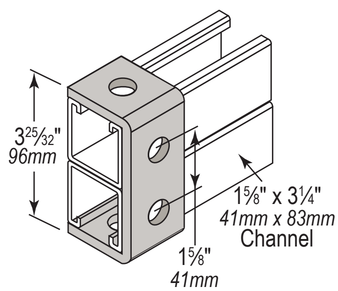
FLORIDA STRUT	VERSABAR	WESANCO	A	B
--	VF6305	--	7-¼" *(184mm)*	4-⅛" *(105mm)*
--	VF6306	--	8-½" *(216mm)*	5-⅜" *(136mm)*
--	VF6307	--	10-⅜" *(264mm)*	7-¼" *(184mm)*

Two-Hole U-Fitting Clevis



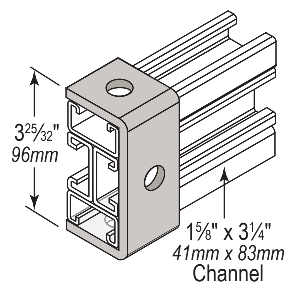
FLORIDA STRUT	VERSABAR	WESANCO	X
U600400	VF5203A	W5324	4" *(102mm)*
U600500	VF5203B	W5325	5" *(127mm)*
U600600	VF5203C	W5326	6" *(152mm)*
U600700	VF5203D	W5327	7" *(178mm)*
U600800	VF5203E	W5328	8" *(203mm)*

4-Hole "C" Fitting 3-¼" Inside



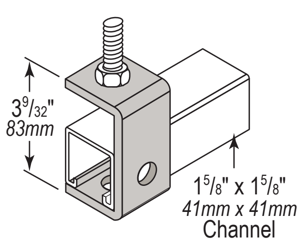
FLORIDA STRUT	VERSABAR	WESANCO
--	VF5401	--

3-Hole, 3.251" Deep Clevis



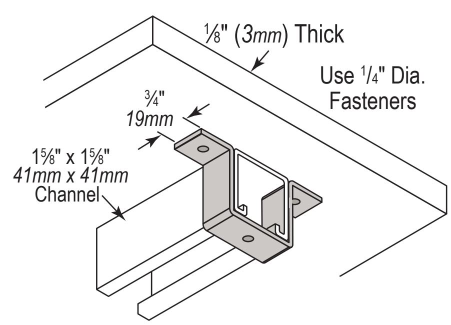
FLORIDA STRUT	VERSABAR	WESANCO
--	VF5401	--

3-Hole "C" Fitting 3¼" Inside



FLORIDA STRUT	VERSABAR	WESANCO
--	VF5401A	--

Tabletop Frame Strap

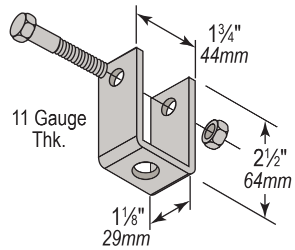


FLORIDA STRUT	VERSABAR	WESANCO
--	VF6316	--

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

Swing Clevis

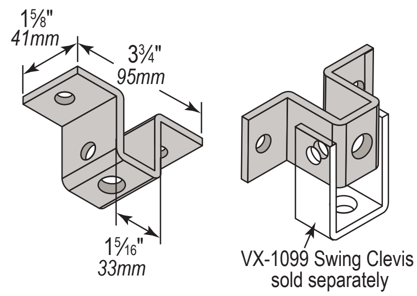


Side Holes are 7/16" *11mm* Dia.
Base Hole is 9/16" *14mm* Dia.

Includes ⅜"-16 x 2¼" HHCS
and ⅜" Dia. Hex Nut

FLORIDA STRUT	VERSABAR	WESANCO
--	VX1099	--

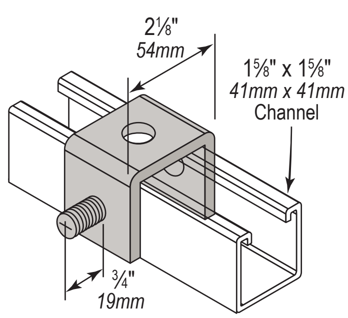
Swing Clevis Adaptor



Side Holes are 7/16" (11mm) Dia.
Base Hole is 9/16" (14mm) Dia.

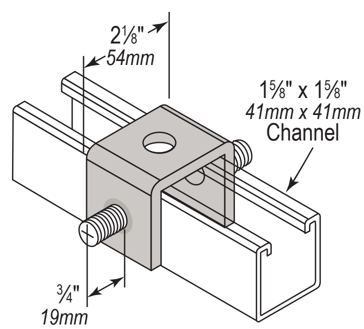
FLORIDA STRUT	VERSABAR	WESANCO
--	VX6402OH	--

2-Hole, 1-Stud Clevis Fitting with Stud



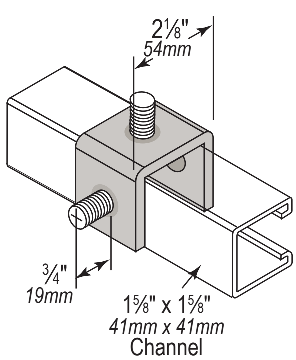
FLORIDA STRUT	VERSABAR	WESANCO
--	VF7110A	--

1-Hole, 2-Stud Clevis Fitting with Stud



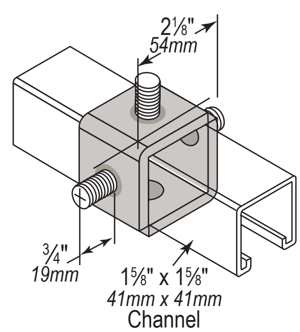
FLORIDA STRUT	VERSABAR	WESANCO
--	VF7110B	--

1-Hole, 2-Stud Clevis Fitting with Stud



FLORIDA STRUT	VERSABAR	WESANCO
--	VF7110C	--

3-Stud Clevis Fitting with Stud



FLORIDA STRUT	VERSABAR	WESANCO
--	VF7110D	--

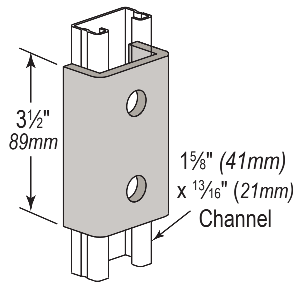
Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Introduction
Channel
Channel Nuts & Hardware
General Fittings
Brackets
Beam Clamps
Pipe & Conduit Supports
Electrical Fittings
Spring Steel
Concrete Inserts
Rooftop Supports
Technical Data

"U" Shape Fittings

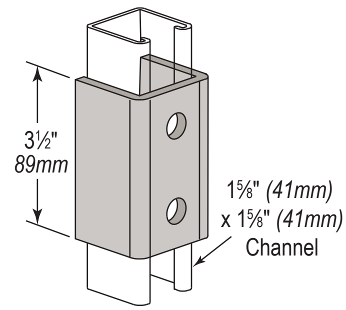
Standard Finish: Electro Galvanized (EG)

2-Hole Splice for 13/16" Channel



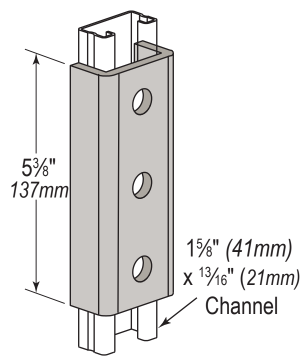
FLORIDA STRUT	VERSABAR	WESANCO
--	VF52044	W5342

2-Hole U-Fitting Splice for 1-⅝" Channel



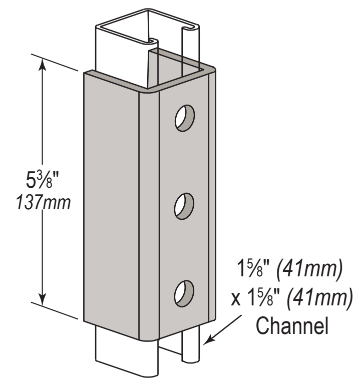
FLORIDA STRUT	VERSABAR	WESANCO
U30	VF5204	W5344

3-Hole Splice for 13/16" Channel



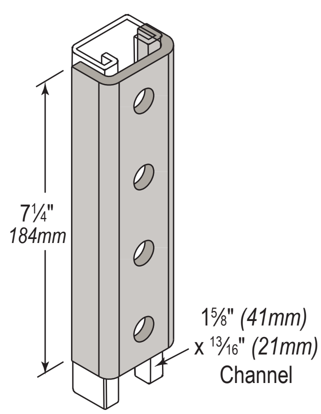
FLORIDA STRUT	VERSABAR	WESANCO
--	VF53044	W5343

3-Hole U-Fitting Splice for 1-⅝" Channel



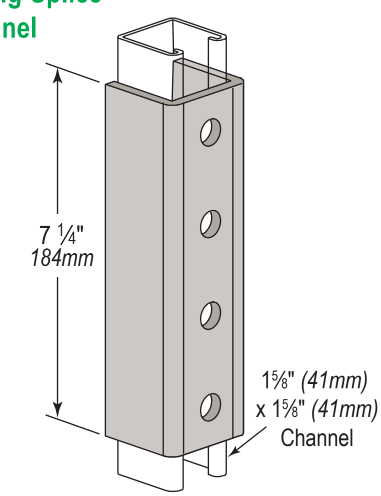
FLORIDA STRUT	VERSABAR	WESANCO
U31	VF5304	W5346

4-Hole Splice for 13/16" Channel



FLORIDA STRUT	VERSABAR	WESANCO
U33	VF54024	W5347

4-Hole U-Fitting Splice for 1-⅝" Channel



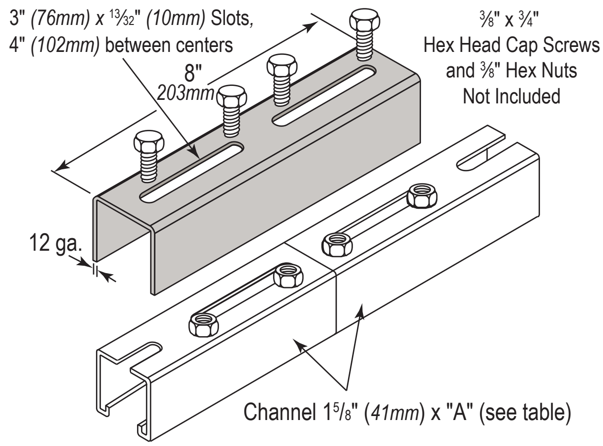
FLORIDA STRUT	VERSABAR	WESANCO
U32	VF5402	W5345

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Standard Finish: Electro Galvanized (EG)

IDEAL TRIDON GROUP

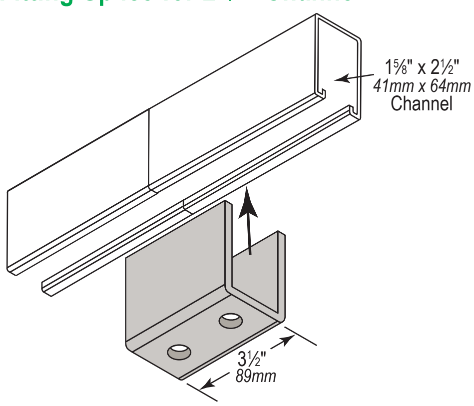
”P3S” Style - 2-Slot U-Fitting Splice for Channel



FLORIDA STRUT	VERSABAR	WESANCO	Channel Height
--	VF5405A4 *	--	13/16" (21mm)
--	VF5405A8 *	--	1" (25mm)
--	VF5405A6 *	--	1-3/8" (35mm)
--	VF5405A	--	1-5/8" (41mm)
--	VF5405A3 *	--	2-1/2" (62mm)
--	VF5405A11 *	--	3-1/4" (62mm)

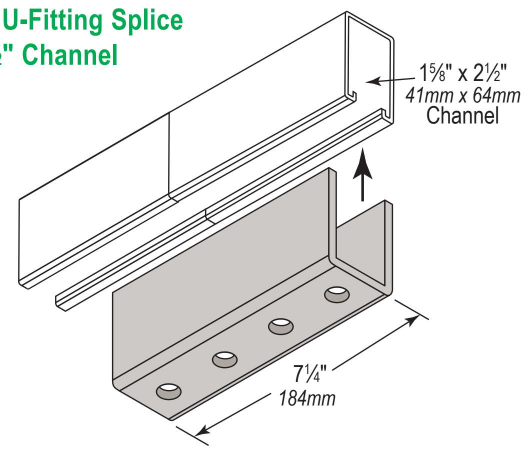
Includes Collar Only
* Denotes Special Order

2-Hole U-Fitting Splice for 2-1/2" Channel



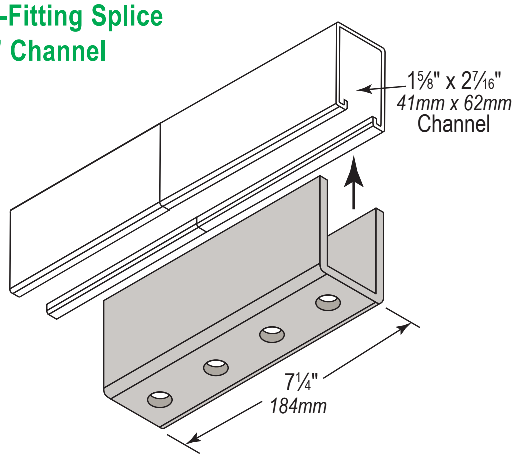
FLORIDA STRUT	VERSABAR	WESANCO
--	VF52043	--

4-Hole U-Fitting Splice for 2-1/2" Channel



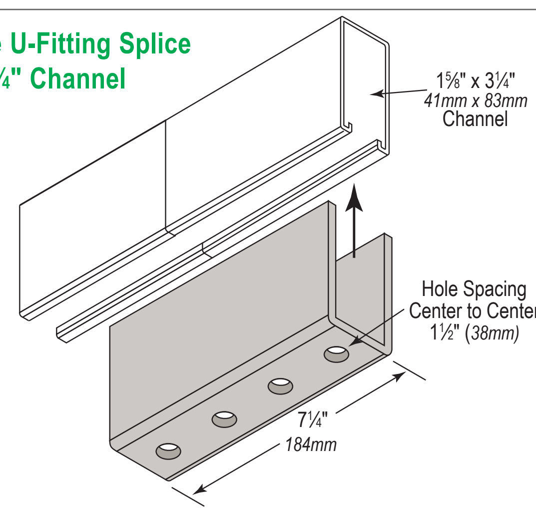
FLORIDA STRUT	VERSABAR	WESANCO
--	VF54023	--

4-Hole U-Fitting Splice for 2-7/16" Channel



FLORIDA STRUT	VERSABAR	WESANCO
--	--	W5349

4-Hole U-Fitting Splice for 3-1/4" Channel



FLORIDA STRUT	VERSABAR	WESANCO
--	VF540211	W5348

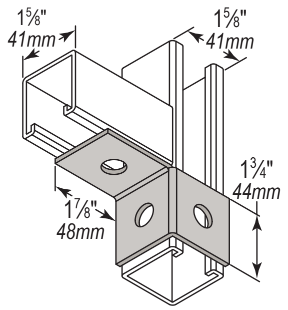
Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" (6mm)

IDEAL TRIDON GROUP

Wing Fittings

Standard Finish: Electro Galvanized (EG)

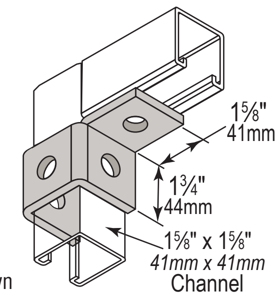
3-Hole Wing Fitting Single Corner, Left or Right Hand



Left Hand Shown

FLORIDA STRUT	VERSABAR	WESANCO	Description
W11	VF2216L	W5511	Left Hand
W10	VF2216R	W5510	Right Hand

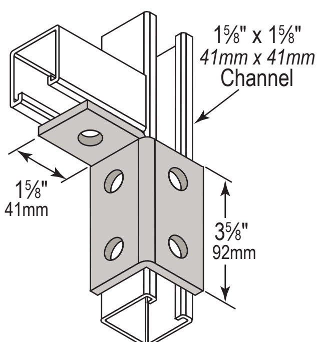
4 Hole "U" Collar Short Wing, Left or Right Hand



Right Hand Shown

FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF3431L	--	Left Hand
--	VF3431R	--	Right Hand

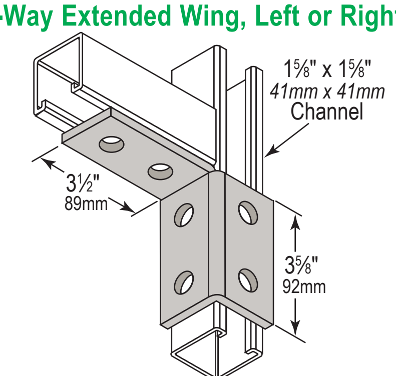
5-Hole Short Wing Fit, Left or Right Hand



Left Hand Version Illustrated, Right Opp.

FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF2324L	--	Left Hand
--	VF2324R	--	Right Hand

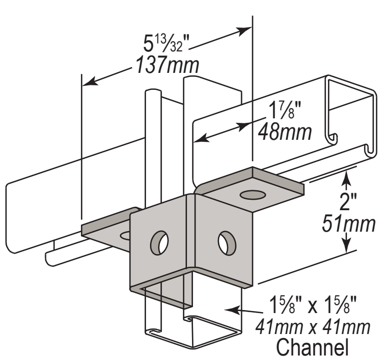
6-Hole, 1-Way Extended Wing, Left or Right Hand



Left Hand Version Illustrated, Right Opp.

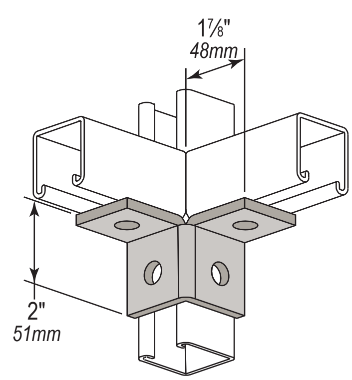
FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF2419L	--	Left Hand
--	VF2419R	--	Right Hand

5-Hole Wing Fitting Corner Connector Opposed



FLORIDA STRUT	VERSABAR	WESANCO
W30	VF2504	W5513

4-Hole Wing Fitting Double Corner



FLORIDA STRUT	VERSABAR	WESANCO
W20	VF3405	W5512

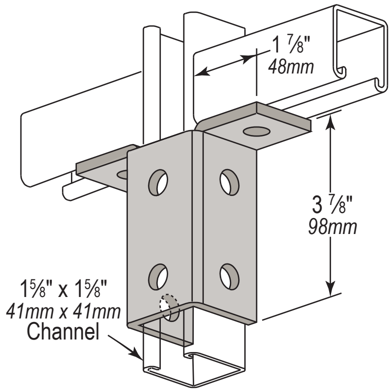
Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

Wing Fittings

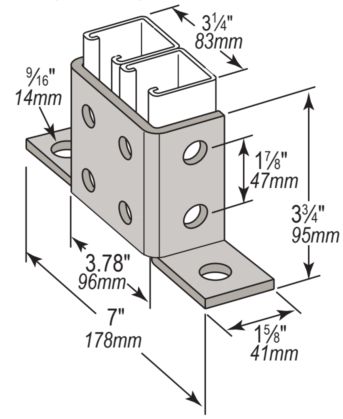
Standard Finish: Electro Galvanized (EG)

8-Hole Wing Fitting Corner Connector Opposed



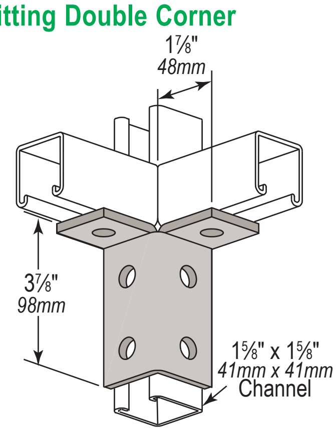
FLORIDA STRUT	VERSABAR	WESANCO
W31	VF6801	W5519

10-Hole Base Wing Fitting



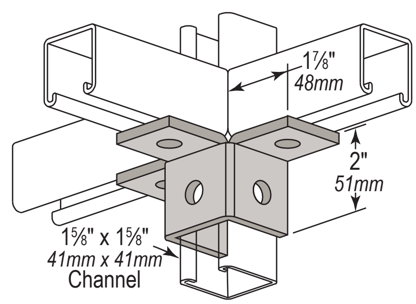
FLORIDA STRUT	VERSABAR	WESANCO
--	--	W5524

6-Hole Wing Fitting Double Corner



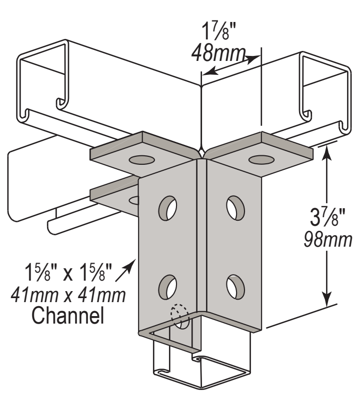
FLORIDA STRUT	VERSABAR	WESANCO
W21	VF3601	W5518

6-Hole Wing Fitting Triple Corner



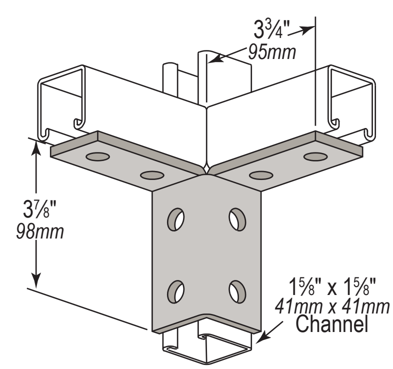
FLORIDA STRUT	VERSABAR	WESANCO
W40	VF3602	W5514

9-Hole Wing Fitting Triple Corner



FLORIDA STRUT	VERSABAR	WESANCO
W41	VF3901	W5517

8-Hole Wing Fitting Double Corner



FLORIDA STRUT	VERSABAR	WESANCO
W22	VF3802	W5515

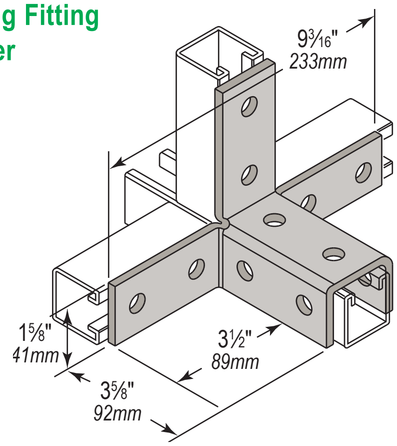
Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

Wing Fittings

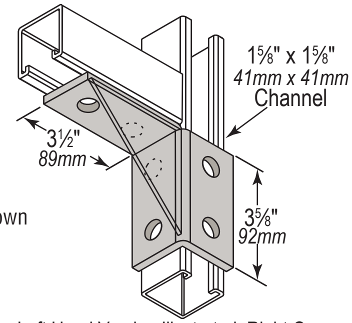
Standard Finish: Electro Galvanized (EG)

12-Hole Wing Fitting Triple Corner



FLORIDA STRUT	VERSABAR	WESANCO
W42	VF31201	W5522

1-Way Extended Gusset Wing, Left or Right Hand

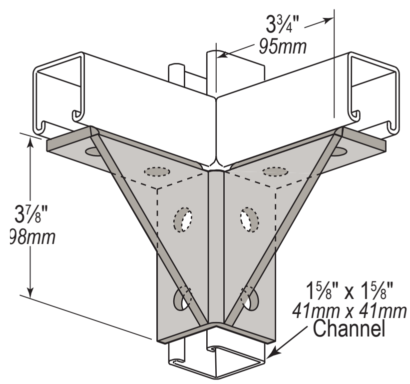


Left Hand Shown

Left Hand Version Illustrated, Right Opp.

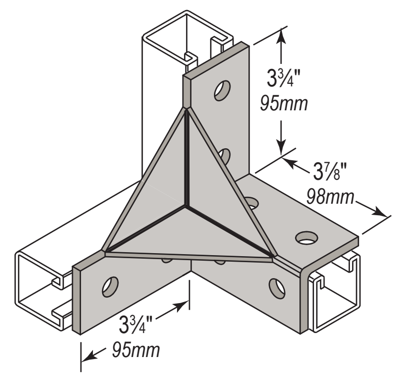
FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF2420L	--	Left Hand
--	VF2420R	--	Right Hand

8-Hole Wing Fitting Double Corner Gusset



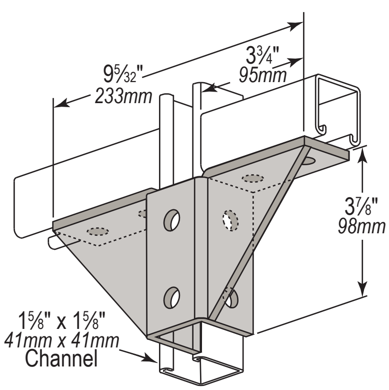
FLORIDA STRUT	VERSABAR	WESANCO
W23	VF3803	W5516

8-Hole Wing Fitting Double Corner Double Gusset



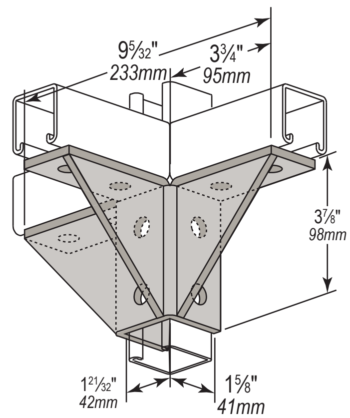
FLORIDA STRUT	VERSABAR	WESANCO
W24	--	--

10-Hole Wing Fitting Corner Connector Opposed Double Gusset



FLORIDA STRUT	VERSABAR	WESANCO
W33	VF210010	W5520

12-Hole Wing Fitting Triple Corner Gusset



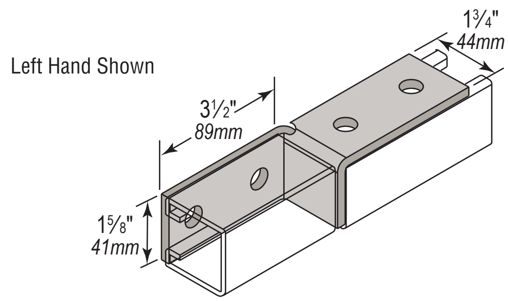
FLORIDA STRUT	VERSABAR	WESANCO
W43	VF31202	W5521

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

Wing Fittings

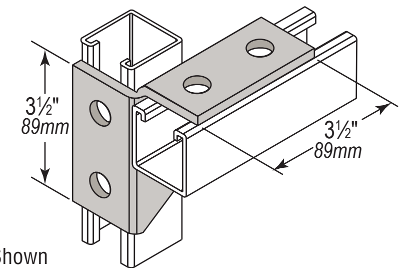
Standard Finish: Electro Galvanized (EG)

4-Hole Wing Fitting Single Corner, Left or Right Hand



FLORIDA STRUT	VERSABAR	WESANCO	Description
W13	--	--	Left Hand
W12	--	--	Right Hand

4-Hole Cross Connector Gusset, Left or Right Hand

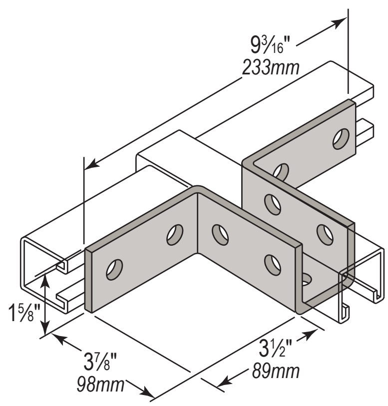


Right Hand Shown

Right Hand Version Illustrated, Left Opp.

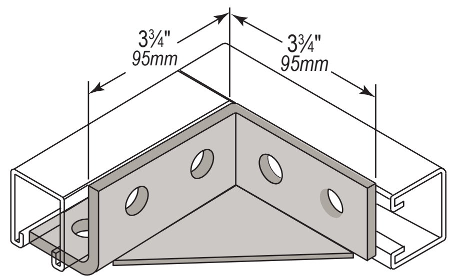
FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF3304L	--	Left Hand
--	VF3304R	--	Right Hand

10-Hole Wing Fitting Corner Connector Opposed



FLORIDA STRUT	VERSABAR	WESANCO
W32	VF61002	W5523

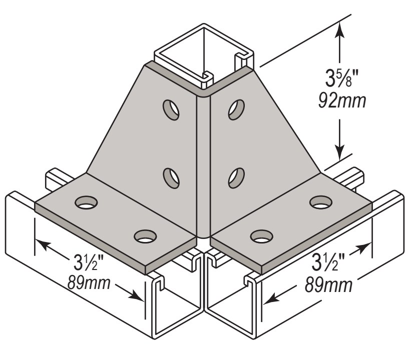
6-Hole Wing Fitting Single Corner Gusset, Left or Right Hand



Left Hand Shown

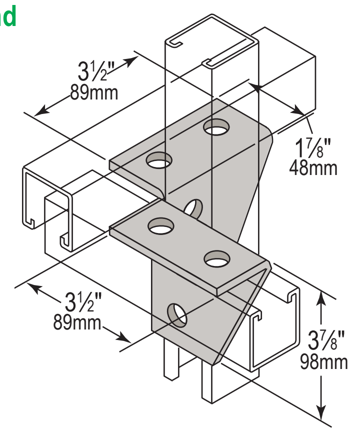
FLORIDA STRUT	VERSABAR	WESANCO	Description
W15	--	W5524L	Left Hand
W14	--	W5524R	Right Hand

8-Hole Wing Fitting Double Corner Connector



FLORIDA STRUT	VERSABAR	WESANCO
W50	VF7802	--

8-Hole, 2 Flange Channel Stand

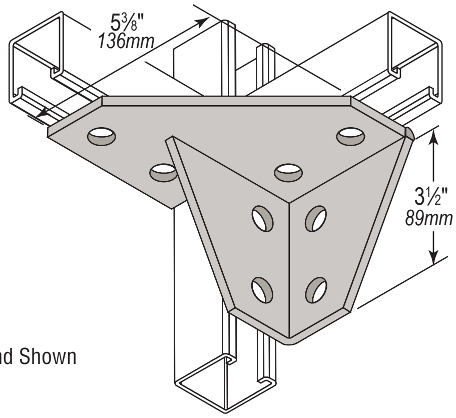


FLORIDA STRUT	VERSABAR	WESANCO
W50	VF7802	--

Hole Diameter: $\frac{9}{16}$" *(14mm)*; Hole Spacing - From End: $\frac{13}{16}$" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Standard Finish: Electro Galvanized (EG)

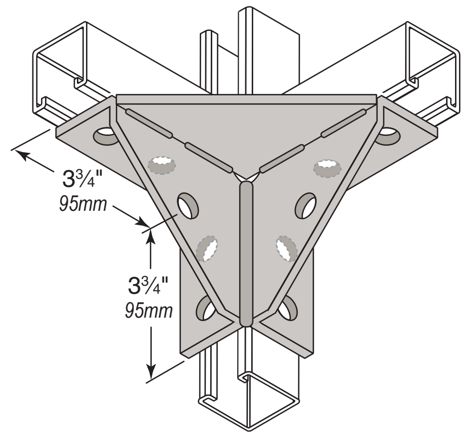
Triple Gusset Connector, Left or Right Hand



Left Hand Shown

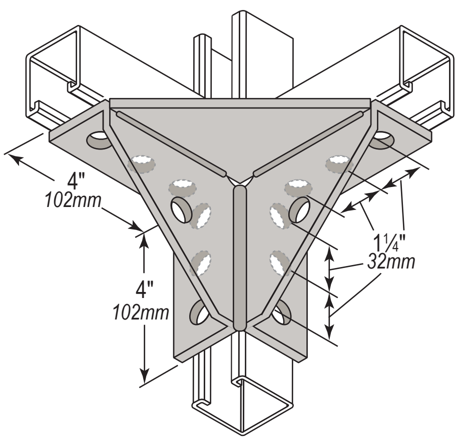
FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VF3805L	--	Left Hand
--	VF3805R	--	Right Hand

8-Hole Double Corner Gussetted Connector



FLORIDA STRUT	VERSABAR	WESANCO
--	--	W5525

14-Hole Gusset Corner Connector



FLORIDA STRUT	VERSABAR	WESANCO
--	VF3807	--

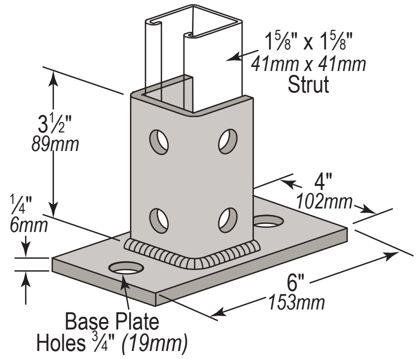
Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-7⁄8" (48mm); Width: 1-5⁄8"(41mm); Thickness: ¼" *(6mm)*

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

Post Bases

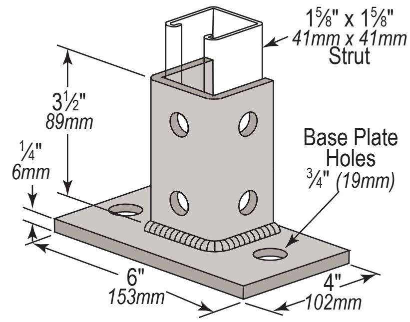
Standard Finish: Electro Galvanized (EG)

Rectangular Plate 8-Hole Post Base Single Channel Tall Clevis



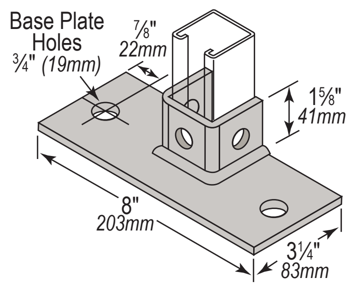
FLORIDA STRUT	VERSABAR	WESANCO
P10	--	W5810

Rectangular Plate 8-Hole Post Base Single Channel Tall Clevis



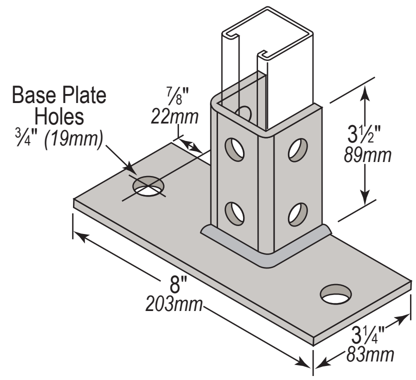
FLORIDA STRUT	VERSABAR	WESANCO
P11	--	W5810FL

Rectangular Plate 5-Hole Post Base Flush Single Channel



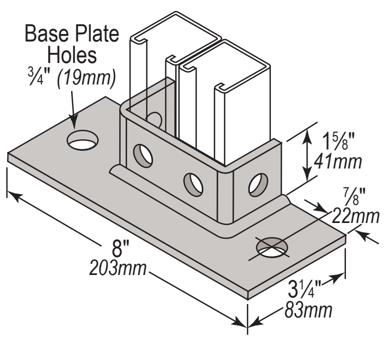
FLORIDA STRUT	VERSABAR	WESANCO
--	VF9601AFL	--

Rectangular Plate 8-Hole Post Base Flush Single Channel



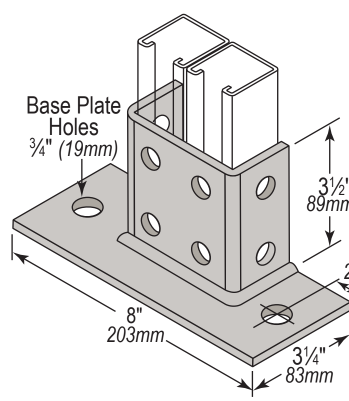
FLORIDA STRUT	VERSABAR	WESANCO
--	VF9601FL	--

Double Channel Stand/Wall Flush 6-Hole Post Base



FLORIDA STRUT	VERSABAR	WESANCO
--	VF9602AFL	--

Double Channel Stand/Wall Flush 10-Hole Post Base



FLORIDA STRUT	VERSABAR	WESANCO
--	VF9602FL	--

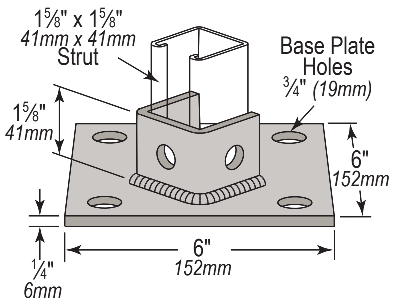
Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: ¼" *(6mm)*

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

Post Bases

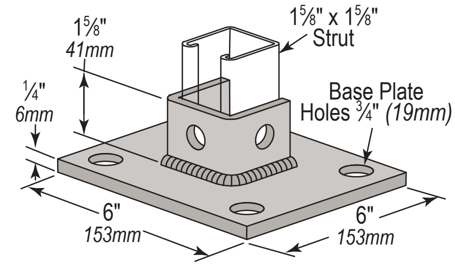
Standard Finish: Electro Galvanized (EG)

Post Base Single Channel 7-Hole Standard



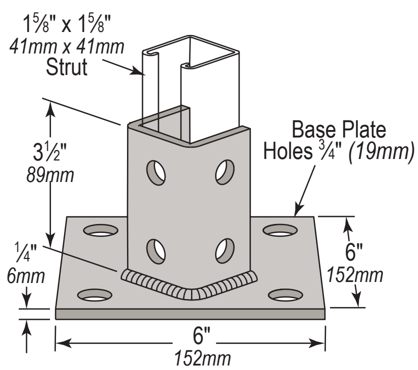
FLORIDA STRUT	VERSABAR	WESANCO
P12	VF9601A	W5813

Post Base Double Channel 7-Hole Square



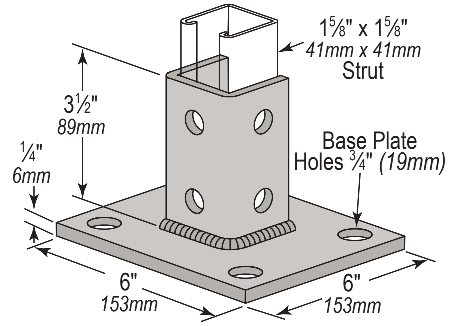
FLORIDA STRUT	VERSABAR	WESANCO
P22	VF9601ASQ	W5813SQ

Post Base Single Channel 10-Hole Standard



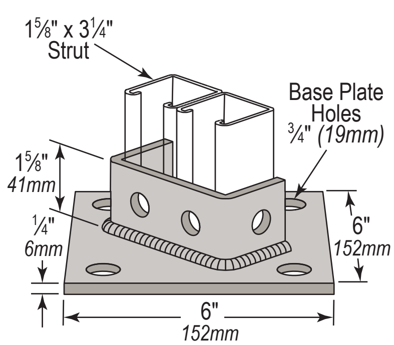
FLORIDA STRUT	VERSABAR	WESANCO
P13	VF9601	W5814

Post Base Single Channel 10-Hole Standard



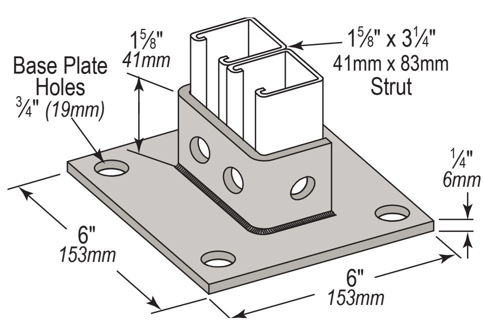
FLORIDA STRUT	VERSABAR	WESANCO
P14	VF9601SQ	W5814SQ

Post Base Double Channel 8-Hole Standard



FLORIDA STRUT	VERSABAR	WESANCO
P18	VF9602A	W5815

Post Base Double Channel 8-Hole Standard



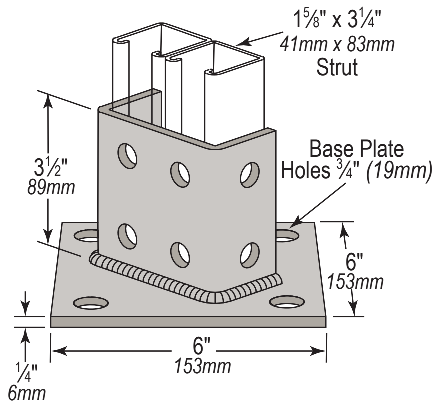
FLORIDA STRUT	VERSABAR	WESANCO
--	VF9602ASQ	W5815SQ

Hole Diameter: $\frac{9}{16}$" *(14mm)*; Hole Spacing - From End: $\frac{13}{16}$" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

IDEAL TRIDON GROUP

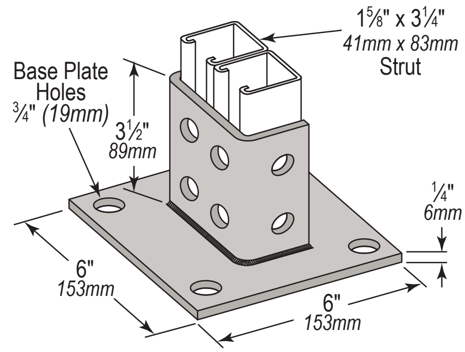
Standard Finish: Electro Galvanized (EG)

Post Base Double Channel 12-Hole Standard



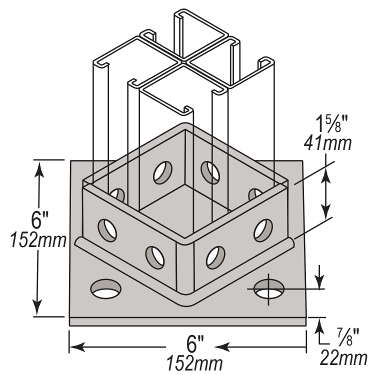
FLORIDA STRUT	VERSABAR	WESANCO
P19	VF9602	W5816

Post Base Double Channel 12-Hole Square



FLORIDA STRUT	VERSABAR	WESANCO
P20	VF9602SQ	W5816SQ

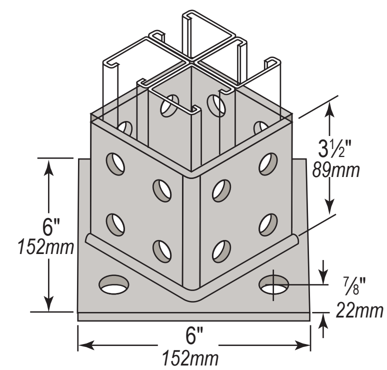
Post Base Quad-Channel 12-Hole Square



4-Base plate holes are ¾" (19mm) diameter

FLORIDA STRUT	VERSABAR	WESANCO
--	VF9605A	--

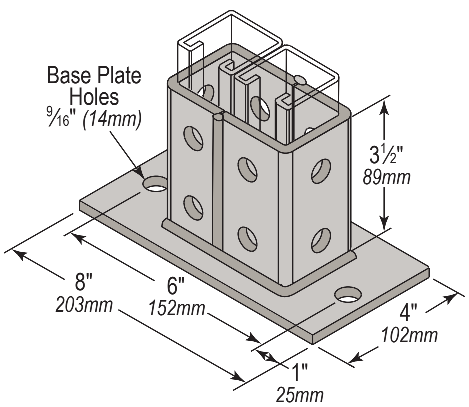
Post Base Quad-Channel 20-Hole Square



Base plate holes are ¾" (19mm) diameter

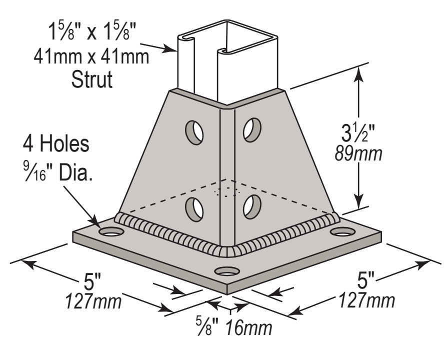
FLORIDA STRUT	VERSABAR	WESANCO
--	VF9605	--

Post Base Double Channel 14-Hole Square 3-½" Boxed



FLORIDA STRUT	VERSABAR	WESANCO
P17	--	--

Post Base Single Channel Gusset 8-Hole Square

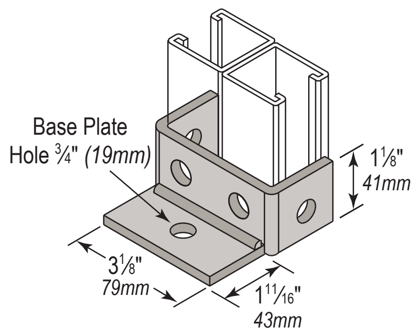


FLORIDA STRUT	VERSABAR	WESANCO
P15	VF7803	W5811

Hole Diameter: 9/16" (14mm); Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" (6mm)

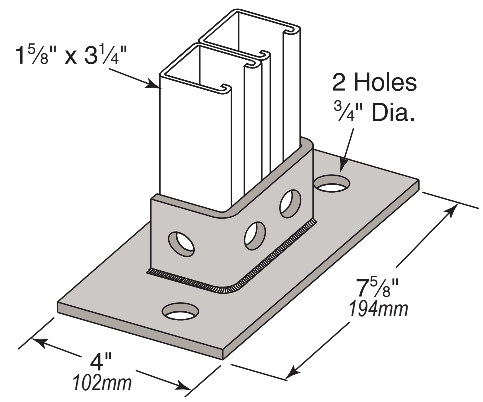
Standard Finish: Electro Galvanized (EG)

Post Base Double Channel 5-Hole



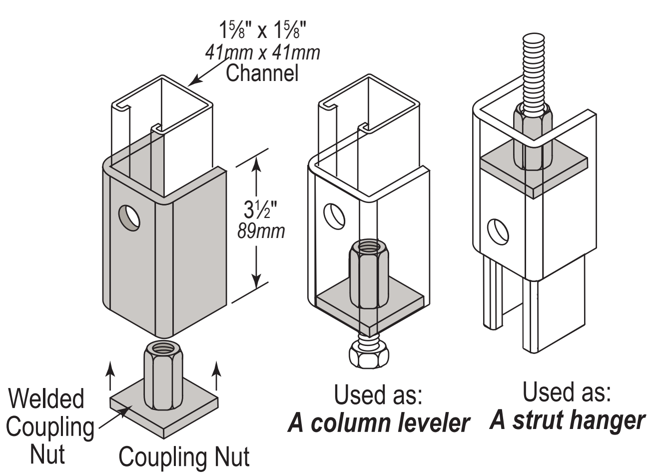
FLORIDA STRUT	VERSABAR	WESANCO
P16	VF9311	W5818

Rectangular Plate 6 Hole Post Base Double Channel Short Clevis



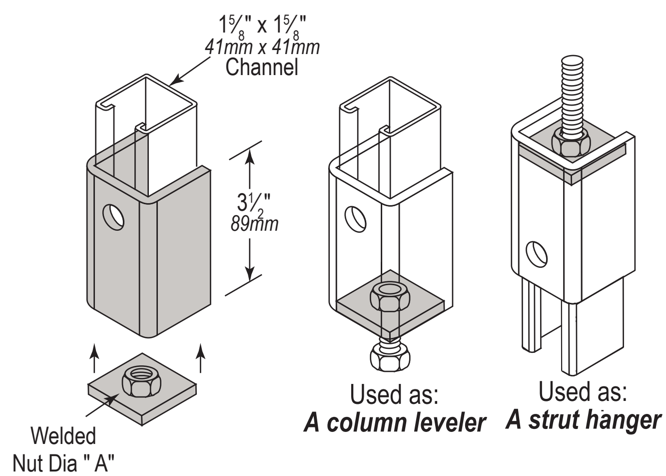
FLORIDA STRUT	VERSABAR	WESANCO
--	--	W5812

Channel Collar With ⅜" Pipe Coupling



FLORIDA STRUT	VERSABAR	WESANCO	Dia. "A"
--	VF7138A	--	⅜" *(9.5mm)*
--	VF7138B	--	½" *(12.7mm)*
--	VF7138C	--	¾" *(19.1mm)*

Channel Stand With Adjustable Nut



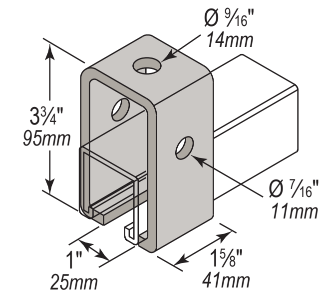
FLORIDA STRUT	VERSABAR	WESANCO	Dia. "A"
--	VF7139A	--	5/16" *(7.9mm)*
--	VF7139B	--	⅜" *(9.5mm)*
--	VF7139C	--	½" *(12.7mm)*
--	VF7139D	--	⅝" *(15.9mm)*
--	VF7139E	--	¾" *(19.1mm)*

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Standard Finish: Electro Galvanized (EG)

U-Fitting Trolley Support 3 Hole Standard

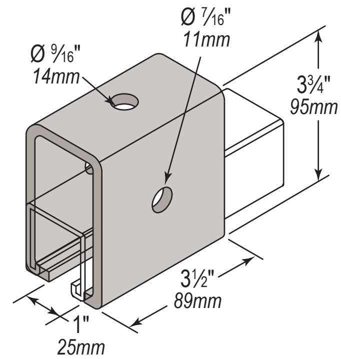
Permits suspension of 1-5/8" square channel and free passage of trolley unit.



FLORIDA STRUT	VERSABAR	WESANCO
U40	VF7101	W6604

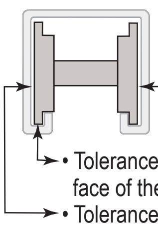
U-Fitting Trolley Support 3 Hole Heavy Duty

Permits suspension and splicing of 1-5/8" square channel and free passage of trolley unit.



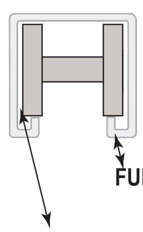
FLORIDA STRUT	VERSABAR	WESANCO
U41	VF7101A	W6603

Two Types of Trolley Support [Wheel w/Support in Strut Bend & Full Wheel)



Wheel w/Support in Strut Bend
The wider portion of the wheel sets on the inturned edge of the Strut Just like the Full Wheel
The narrow portion of the wheel sets in the space provided by the inturned edge.

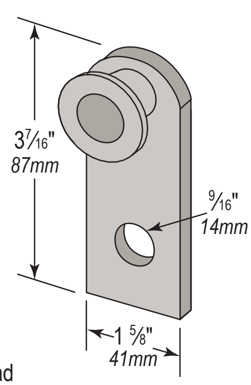
- Tolerance on the face of the wheel
- Tolerance on the Inturned edge
- Less weight allowed on the trolley since the trolley within inturned edge does not carry a load

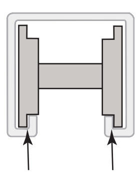


FULL Wheel sets on the inturned edge of the Strut

- Single tolerance on the face of the wheel
- Greater weight allowed on the trolley with the single edge on wheel

Single Wheel Trolley [Wheel w/Support]



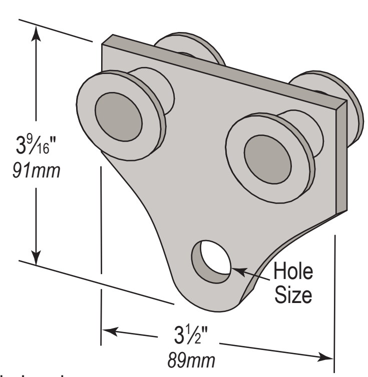


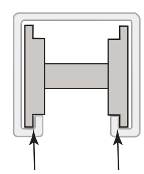
Wheel w/Support

Allowable load
300lbs *(2.00 kN)* max.

FLORIDA STRUT	VERSABAR	WESANCO
--	--	W6606

Four Wheel Trolley [Wheel w/Support]





Wheel w/Support

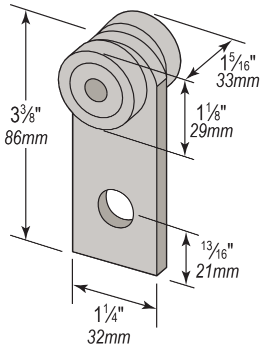
Allowable Load
600lbs (2.67 kN) max.

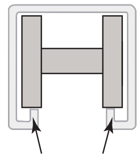
FLORIDA STRUT	VERSABAR	WESANCO	Hole Size
--	--	W6601	1-1/8" *(29mm)*
--	--	W6605	9/16" *(14mm)*

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: ¼" *(6mm)*

Standard Finish: Electro Galvanized (EG)

Two Wheel Trolley [Full Wheel]

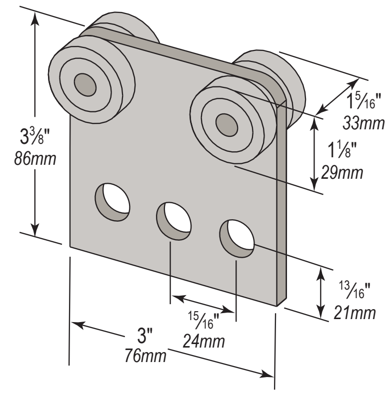


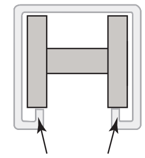

FULL Wheel

Safe load rating for steel bearing Trolley
437 lbs. *(1.94 kN)* @ 100 rpm
225 lbs. *(1.00 kN)* @ 300 rpm
150 lbs. *(0.67 kN)* @ 600 rpm

FLORIDA STRUT	VERSABAR	WESANCO	Description
R10	VX7026	W6602	All Steel Components
--	VX7026N	--	Steel Trolley, Nylon Plain Bearings
--	VX7026NSS	--	Stainless Steel Trolley, Nylon Plain Bearings
All Trolleys have carbon steel axles			

Four Wheel Trolley [Full Wheel]

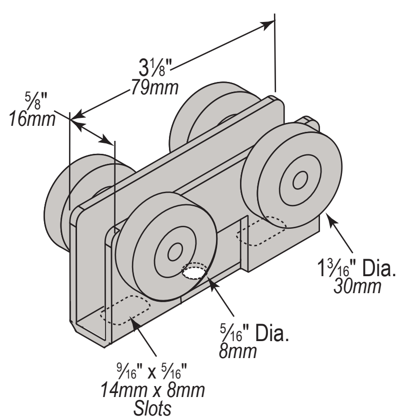


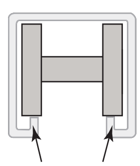

FULL Wheel

Safe load rating for steel bearing Trolley
600 lbs. *(2.67 kN)* @ 100 rpm
450 lbs. *(2.00 kN)* @ 300 rpm
300 lbs. *(1.33 kN)* @ 600 rpm

FLORIDA STRUT	VERSABAR	WESANCO	Description
R11	VX7027	W6600	All Steel Components
--	VX7027N	--	Steel Trolley, Nylon Plain Bearings
--	VX7027NSS	--	Stainless Steel Trolley, Nylon Plain Bearings
All Trolleys have carbon steel axles			

Four Wheel Trolley [Full Wheel]

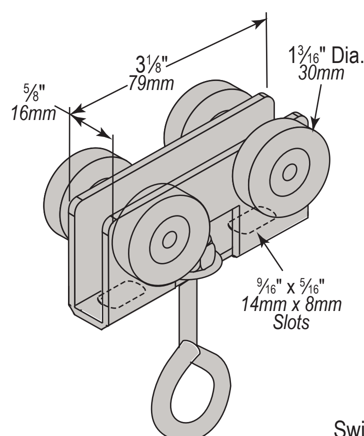


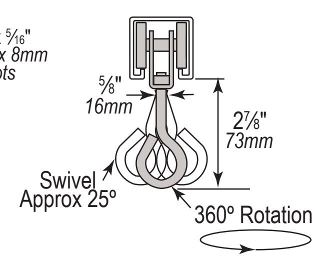

FULL Wheel

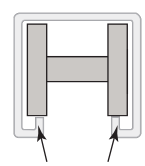
Safe load rating for
Steel bearing Trolley - 100 lbs. *(0.44 kN)*
Nylon bearing Trolley - 20 lbs. *(0.09 kN)*

FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VX7029	--	All Steel Components
--	VX7029N	--	Steel Trolley, Nylon Plain Bearings

Four Wheel Trolley [Full Wheel] with Swivel Loop






FULL Wheel

Safe load rating for
Steel bearing Trolley - 100 lbs. *(0.44 kN)*
Nylon bearing Trolley - 20 lbs. *(0.09 kN)*

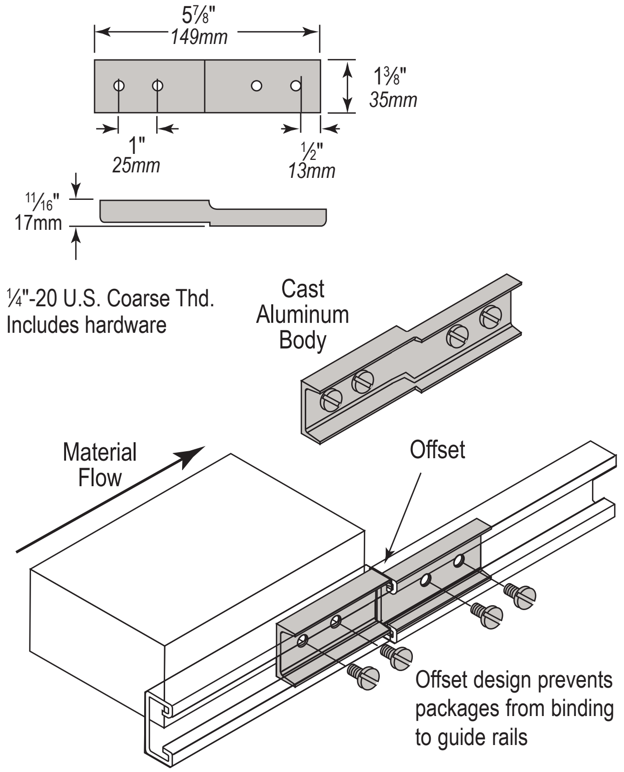
FLORIDA STRUT	VERSABAR	WESANCO	Description
--	VX7028	--	All Steel Components
--	VX7028N	--	Steel Trolley, Nylon Plain Bearings

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

Conveyor Application Fittings

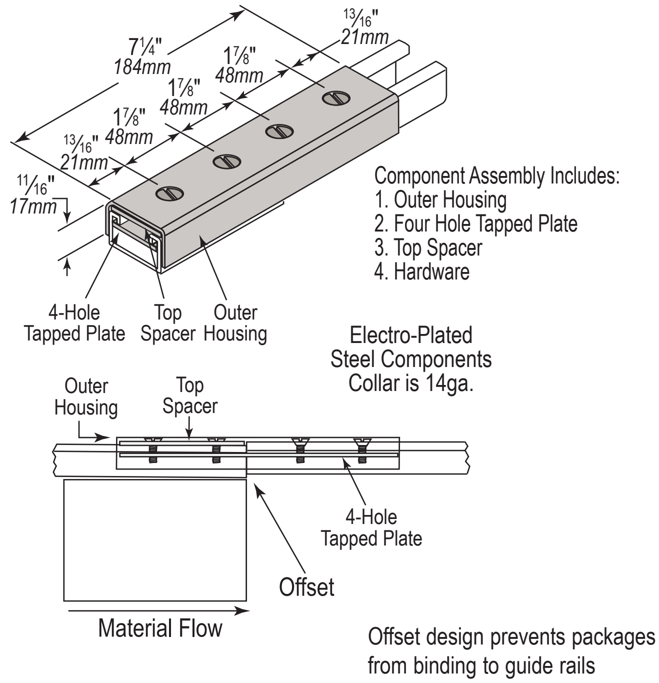
Standard Finish: Electro Galvanized (EG)

Conveyor Guard Rail Splice



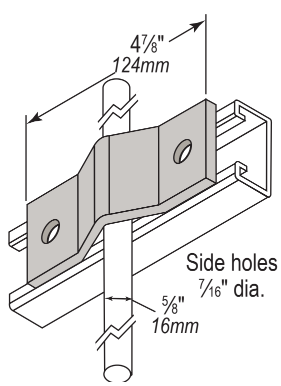
FLORIDA STRUT	VERSABAR	WESANCO
--	VF5801GRS	--

Conveyor Guard Rail Splice



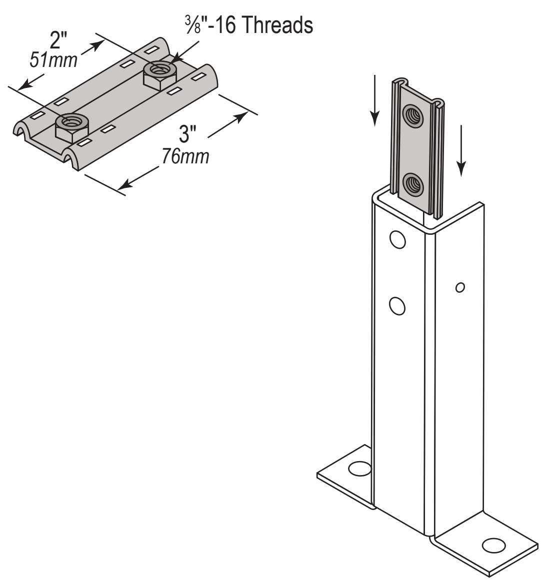
FLORIDA STRUT	VERSABAR	WESANCO
--	VF5403A4GRS	--

Guard Rail Clip



FLORIDA STRUT	VERSABAR	WESANCO
--	VF5802GRS	--

Footing Double Nut



FLORIDA STRUT	VERSABAR	WESANCO
--	VF5803GRS	--

Hole Diameter: ⁹⁄₁₆" *(14mm)*; Hole Spacing - From End: ¹³⁄₁₆" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

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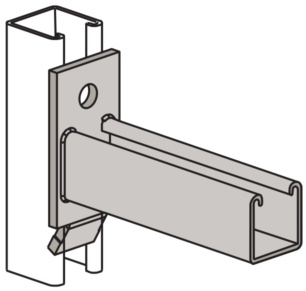
Brackets

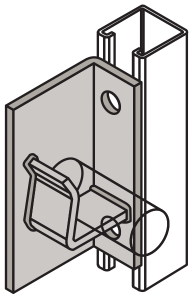
Channel Brackets

Pages 136 - 138



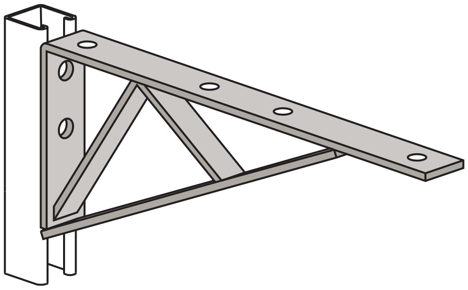
Reel Supports

Pages 144 - 145



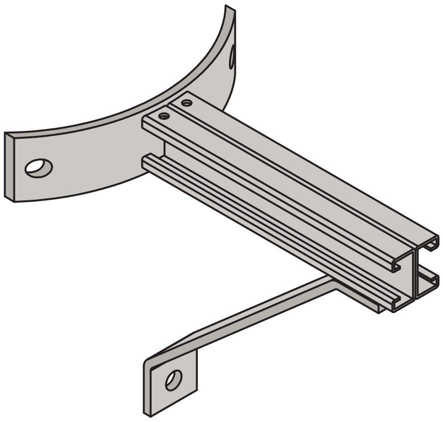
Shelf Brackets

Pages 139 - 143



Utility Brackets

Pages 146 - 150



Fittings Specifications		
Material	**ASTM**	**Description**
Hot Rolled Plate	A 575, A 1011, A 1018, A 576, A638	Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.
Fitting: Steel	A 366, A 36	Steel carbon, cold rolled sheet, commercial quality structural steel.
Strip Steel: Pipe Clamps	A 569	Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.
Stainless Steel	A 240 TYPE 304	Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel.
	A 240 TYPE 316	
Aluminum	B 221	Aluminum alloy extruded bar, rod, wire, shape and tube.

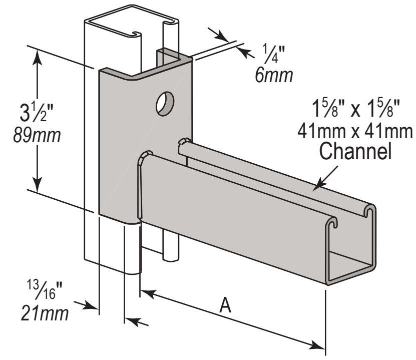
Fitting Finish Specifications	
Finish	**Description**
Paint-Green Powder Coating	A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.
Electroplated	Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.
Mill-Galvanized (Pre-Galvanized)	Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present.
Hot Dip Galvanized After Fabrication	Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications. ASTM A 123, ASTM A153, or ASTM A386.
Special Coatings	Other commercially available finishes can be supplied per specification when required to protect applications.

See page 25 for Material or Finish ordering codes for part numbers.

One-Hole Wrap Around Channel Bracket, Slot Up

FLORIDA STRUT	VERSABAR	WESANCO	A	Design Uniform Load Lbs. *(kN)* 1-⅝" - 12 Gauge Channel	Design Uniform Load Lbs. *(kN)* 1-⅝" - 14 Gauge Channel
W5641	VB1060	W5641	6" *(152mm)*	1,600 *(7.12 kN)*	1,200 *(5.34 kN)*
W5642	VB1120	W5642	12" *(305mm)*	800 *(3.56 kN)*	600 *(2.67 kN)*

Design Uniform Load when attached to listed upright column.
Do not install in inverted position.
Safety Factor: 2-½

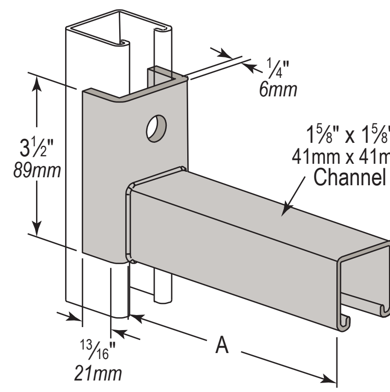


Do not install in inverted position.

One-Hole Wrap Around Channel Bracket, Slot Down

FLORIDA STRUT	VERSABAR	WESANCO	A	Design Uniform Load Lbs. *(kN)* 1-⅝" - 12 Gauge Channel	Design Uniform Load Lbs. *(kN)* 1-⅝" - 14 Gauge Channel
W5645	VB1060D	W5645	6" *(152mm)*	1,600 *(7.12 kN)*	1,200 *(5.34 kN)*
W5646	VB1120D	W5646	12" *(305mm)*	800 *(3.56 kN)*	600 *(2.67 kN)*

Design Uniform Load when attached to listed upright column.
Safety Factor: 2-½



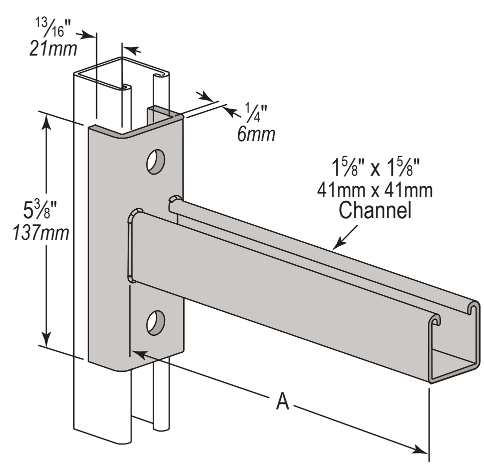
Do not install in inverted position.

Two-Hole Wrap Around Channel Bracket, Use Slot Up or Slot Down

Illustrated With Channel Up Bracket Arms are 1-⅝" Channel

FLORIDA STRUT	VERSABAR	WESANCO	A	Design Uniform Load Lbs. *(kN)* Used With 1-⅝" - 12 Gauge Channel
BR410600	--	--	6" *(152mm)*	1,250 *(5.56 kN)*
BR411200	--	--	12" *(305mm)*	750 *(3.34 kN)*
BR411800	VB1180	W5647	18" *(457mm)*	500 *(2.22 kN)*
BR412400	VB1240	W5648	24" *(610mm)*	350 *(1.56 kN)*

Design Uniform Load when attached to listed upright column.

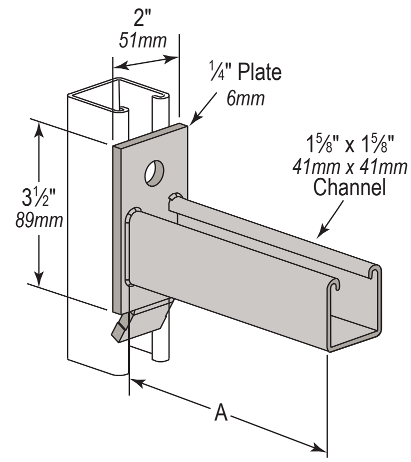


Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Standard Finish: Electro Galvanized (EG)

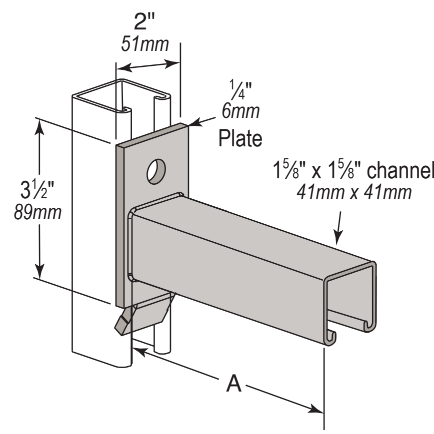
Bracket Arms are 1-⅝" Channel

FLORIDA STRUT	VERSABAR	WESANCO	A	Design Uniform Load Lbs. *(kN)*
BR430600	VB1060X	W5631	6" *(152mm)*	1,250 *(5.56 kN)*
BR430900	–	--	9" *(229mm)*	1,100 *(4.45 kN)*
BR431200	VB1120X	W5632	12" *(305mm)*	750 *(3.34 kN)*
--	--	W5633M	14" *(305mm)*	500 *(2.22 kN)*
BR431800	VB1180X	W5633	18" *(457mm)*	500 *(2.22 kN)*
BR432400	VB1240X	W5634	24" *(610mm)*	350 *(1.56 kN)*
Design Uniform Load when attached to listed upright column.				



Bracket Arms are 1-⅝" Channel

FLORIDA STRUT	VERSABAR	WESANCO	A	Design Uniform Load Lbs. *(kN)*
BR440600	VB1060XD	W5635	6" *(152mm)*	1,250 *(5.56 kN)*
BR440900	–	--	9" *(229mm)*	1,100 *(4.45 kN)*
BR441200	VB1120XD	W5636	12" *(305mm)*	750 *(3.34 kN)*
BR441800	VB1180XD	W5637	18" *(457mm)*	500 *(2.22 kN)*
BR442400	VB1240XD	W5638	24" *(610mm)*	350 *(1.56 kN)*
Design Uniform Load when attached to listed upright column.				



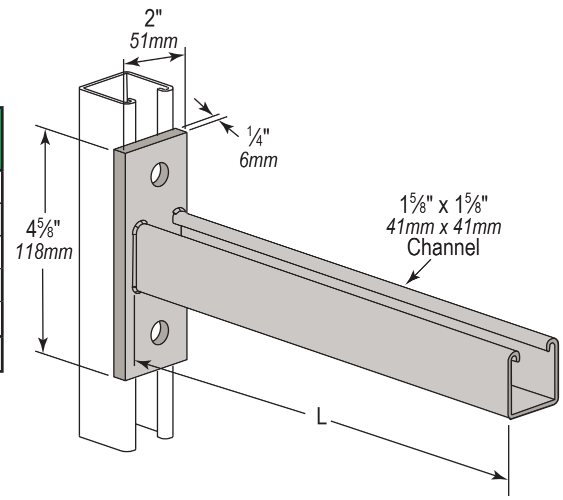
Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Standard Finish: Electro Galvanized (EG)

2-Hole, ¼" Plate with 1-⅝" Channel Bracket Arms

FLORIDA STRUT	VERSABAR	WESANCO	L	Design Uniform Load Lbs. *(kN)*
BR400600	--	W5661	6" *(152mm)*	1,250 *(5.56 kN)*
BR400900	--	--	9" *(229mm)*	1,100 *(4.45 kN)*
BR401200	--	W5662	12" *(305mm)*	750 *(3.34 kN)*
BR401800	--	W5663	18" *(457mm)*	500 *(2.22 kN)*
BR402400	--	W5664	24" *(610mm)*	350 *(1.56 kN)*

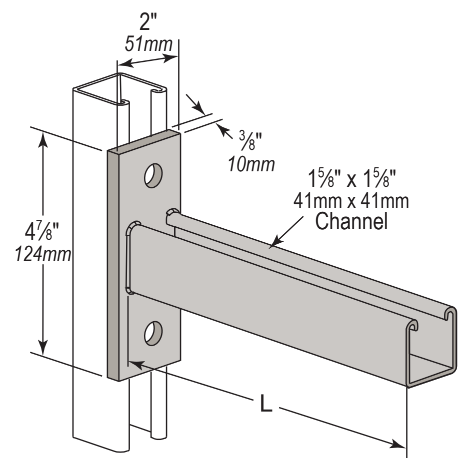
Design Uniform Load when attached to listed upright column.



2-Hole, ⅜" Plate with 1-⅝" Channel Bracket Arms

FLORIDA STRUT	VERSABAR	WESANCO	L	Design Uniform Load Lbs. *(kN)*
BR460600	VB1060FP	--	6" *(152mm)*	1,250 *(5.56 kN)*
BR460900	--	--	9" *(229mm)*	1,100 *(4.45 kN)*
BR461200	VB1120FP	--	12" *(305mm)*	750 *(3.34 kN)*
BR461800	VB1180FP	--	18" *(457mm)*	500 *(2.22 kN)*
BR462400	VB1240FP	--	24" *(610mm)*	350 *(1.56 kN)*

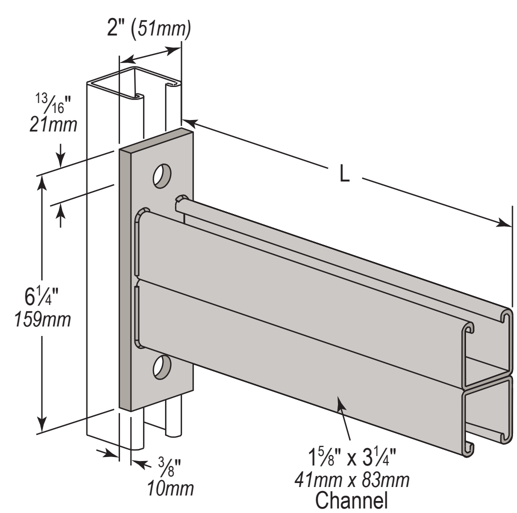
Design Uniform Load when attached to listed upright column.



2-Hole, ⅜" Plate with Double 1-⅝" Channel Bracket Arms

FLORIDA STRUT	VERSABAR	WESANCO	L	Design Uniform Load Lbs. *(kN)*
BR421200	VB11120	W5652	12" *(305mm)*	1,800 *(8.01 kN)*
BR421800	VB11180	W5653	18" *(457mm)*	1,200 *(5.34 kN)*
BR422400	VB11240	W5654	24" *(610mm)*	1,000 *(4.45 kN)*
BR423000	VB11300	W5655	30" *(762mm)*	800 *(3.56 kN)*
BR423600	VB11360	W5656	36" *(914mm)*	660 *(2.94 kN)*

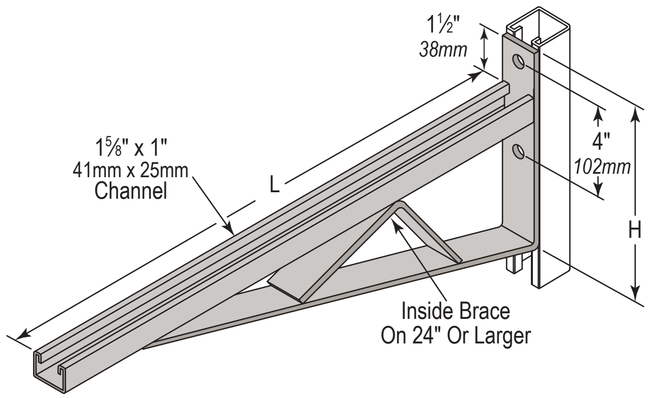
Design Uniform Load when attached to listed upright column.



Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

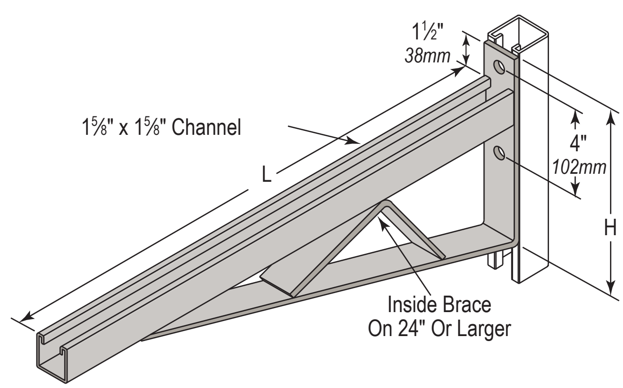
Standard Finish: Electro Galvanized (EG)

Two-Hole Bracket Arms are 1" Channel



FLORIDA STRUT	VERSABAR	WESANCO	L	H	Design Uniform Load Lbs. *(kN)* 1-⅝" x 1-⅝" 12 Gauge Channel
--	VB4120	W5682	12" *(305mm)*	8-¾" *(222mm)*	1,580 *(7.02kN)*
--	VB4180	W5683	18" *(475mm)*	8-¾" *(222mm)*	1,000 *(4.45kN)*
--	VB4240	W5684	24" *(610mm)*	8-¾" *(222mm)*	996 *(4.43kN)*
--	VB4300	W5685	30" *(762mm)*	11-¼" *(286mm)*	924 *(4.11kN)*
--	VB4360	W5686	36" *(914mm)*	11-¼" *(286mm)*	864 *(3.84kN)*
--	VB4420	W5687	42" *(1067mm)*	16" *(406mm)*	580 *(2.58kN)*
--	VB4480	W5688	48" *(1219mm)*	16" *(406mm)*	500 *(2.22kN)*
Design Uniform Load when attached to listed upright column.					

Two-Hole Bracket Arms are 1-⅝" Channel



FLORIDA STRUT	VERSABAR	WESANCO	L	H	Design Uniform Load Lbs. *(kN)* 1-⅝" x 1-⅝" 12 Gauge Channel
BR451200	--	--	12" *(305mm)*	8-¾" *(222mm)*	1,450 *(6.45 kN)*
BR451800	--	--	18" *(457mm)*	8-¾" *(222mm)*	900 *(4.00 kN)*
BR452400	--	--	24" *(610mm)*	8-¾" *(222mm)*	900 *(4.00 kN)*
BR453000	--	--	30" *(762mm)*	11-¼" *(286mm)*	800 *(3.56 kN)*
BR453600	--	--	36" *(914mm)*	11-¼" *(286mm)*	750 *(3.34 kN)*
Design Uniform Load when attached to listed upright column.					

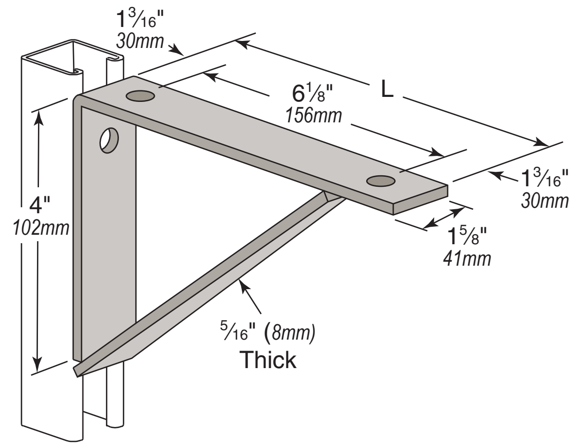
Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Shelf Bracket

Standard Finish: Electro Galvanized (EG)

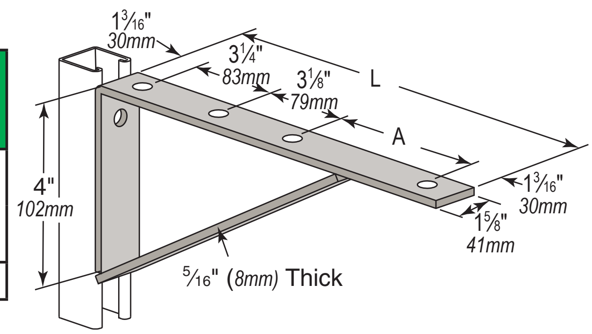
3-Hole Girder Style Bracket

FLORIDA STRUT	VERSABAR	WESANCO	L	Design Load Lbs. *(kN)* with 12 Ga. Strut
BR200850	VB4085	W5669	8-½" *(216mm)*	850 *(3.78 kN)*
BR201050	VB4105	W5671	10-½" *(267mm)*	
Design Uniform Load when attached to listed upright column.				



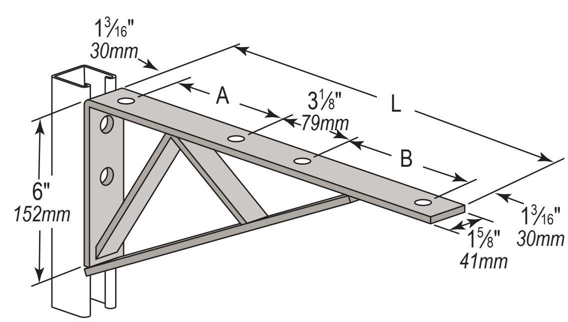
5-Hole Girder Style Bracket

FLORIDA STRUT	VERSABAR	WESANCO	L	A	Design Load Lbs. *(kN)* with 12 Ga. Strut
BR211250	VB4125	W5673	12-½" *(318mm)*	3-¾" *(95mm)*	900 *(4.00 kN)*
BR211450	VB4145	W5675	14-½" *(369mm)*	5-¾" *(146mm)*	
Design Uniform Load when attached to listed upright column.					



6-Hole Bracket with Brace

FLORIDA STRUT	VERSABAR	WESANCO	L	A	B	Design Load Lbs. *(kN)* with 12 Ga. Strut
BR221650	VB4165	W5677	16-½" *(419mm)*	5-¼" *(133mm)*	5-¾" *(146mm)*	1,200 *(5.34 kN)*
BR221850	VB4185	--	18-½" *(470mm)*	5-¼" *(133mm)*	7-¾" *(197mm)*	1,100 *(4.89 kN)*
BR222050	VB4205	--	20-½" *(521mm)*	7-¼" *(184mm)*	7-¾" *(197mm)*	900 *(4.00 kN)*
Design Uniform Load when attached to listed upright column.						



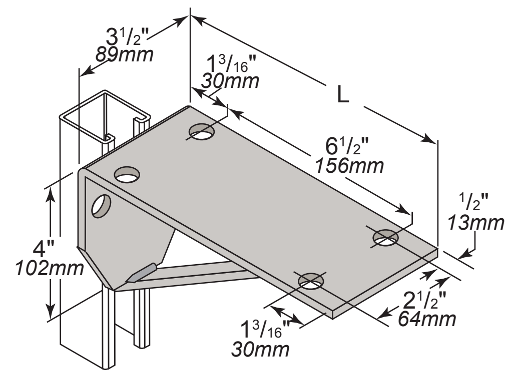
Hole Diameter: ⁹⁄16" *(14mm)*; Hole Spacing - From End: ¹³⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Shelf Bracket

Standard Finish: Electro Galvanized (EG)

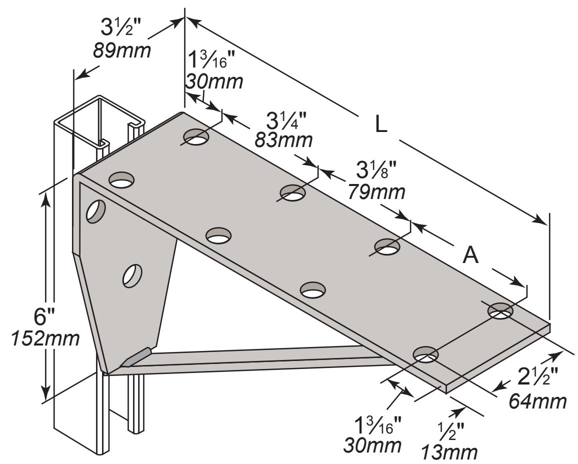
Seven-Hole Wide Girder Style Bracket

FLORIDA STRUT	VERSABAR	WESANCO	L	Design Load Lbs. *(kN)* with 12 Ga. Strut
--	VB4085D	--	8-½" *(216mm)*	800 *(3.78 kN)*
--	VB4105D	--	10-½" *(267mm)*	
Design Uniform Load when attached to listed upright column.				



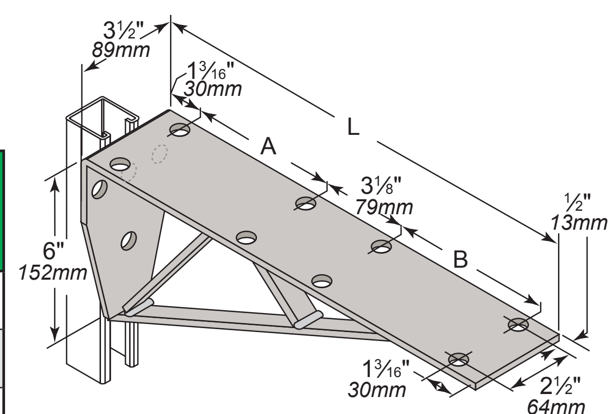
Twelve-Hole Wide Girder Style Bracket

FLORIDA STRUT	VERSABAR	WESANCO	L	A	Design Load Lbs. *(kN)* with 12 Ga. Strut
--	VB4125D	--	12-½" *(318mm)*	3-¾" *(95mm)*	900 *(4.00 kN)*
--	VB4145D	--	14-½" *(369mm)*	5-¾" *(146mm)*	
Design Uniform Load when attached to listed upright column.					



Wide Bracket with Brace

FLORIDA STRUT	VERSABAR	WESANCO	L	A	B	Design Load Lbs. *(kN)* with 12 Ga. Strut
--	VB4165D	--	16-½" *(419mm)*	5-¼" *(133mm)*	5-¾" *(146mm)*	1,200 *(5.34 kN)*
--	VB4185D	--	18-½" *(470mm)*	5-¼" *(133mm)*	7-¾" *(197mm)*	1,200 *(5.34 kN)*
--	VB4205D	--	20-½" *(521mm)*	7-¼" *(184mm)*	7-¾" *(197mm)*	1,200 *(5.34 kN)*
Design Uniform Load when attached to listed upright column.						



Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

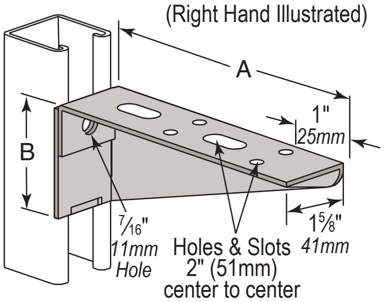
Shelf Bracket

Standard Finish: Electro Galvanized (EG)

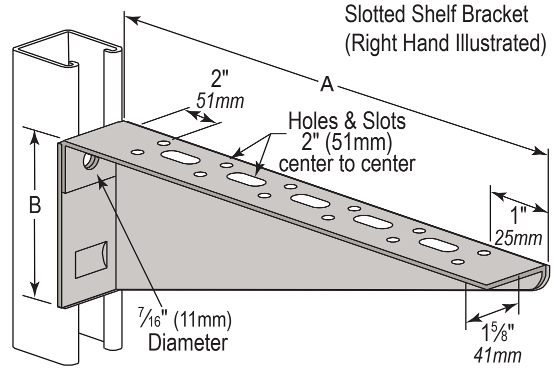
Slotted Shelf Brackets

Brackets are 12ga steel, electro-galvanized.
Furnished with 3/8" x 1" *(10mm x 25mm)* slotted holes and 9/32" *(7mm)* round holes

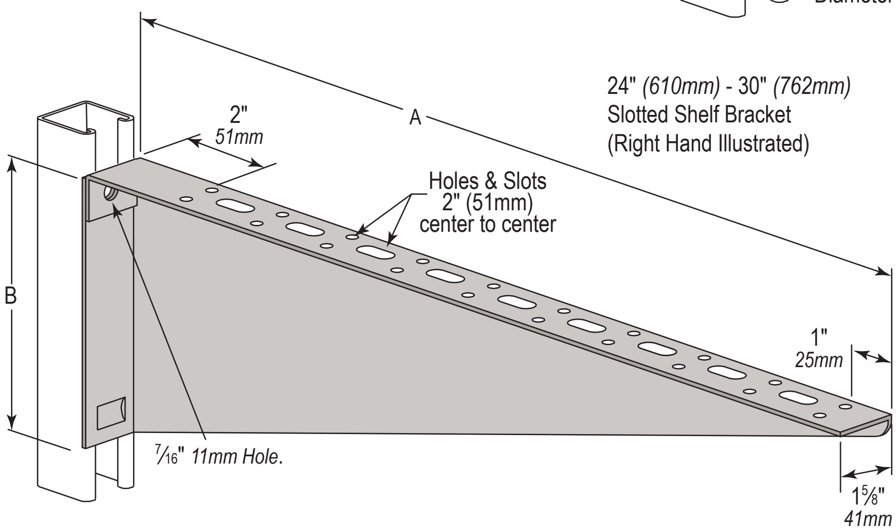
6" *(152mm)* - 10" *(254mm)*
Slotted Shelf Bracket
(Right Hand Illustrated)



12" *(305mm)* - 22" *(559 mm)*
Slotted Shelf Bracket
(Right Hand Illustrated)



24" *(610mm)* - 30" *(762mm)*
Slotted Shelf Bracket
(Right Hand Illustrated)



Left Hand			Right Hand			A	B	Design Uniform Load Lbs. *(kN)*	
FLORIDA STRUT	**VERSABAR**	**WESANCO**	**FLORIDA STRUT**	**VERSABAR**	**WESANCO**			**1-5/8" 12 Ga.**	**1-5/8" 14 Ga.**
BR8L0600	VB2106LSL	W5601	BR8R0600	VB2106RSL	W5602	6" *(152mm)*	1-15/16" *(49mm)*	300 *(1.33 kN)*	250 *(1.11 kN)*
BR8L0800	VB2108LSL	W5603	BR8R0800	VB2108RSL	W5604	8" *(203mm)*	2-7/16" *(62mm)*		
BR8L1000	VB2110LSL	W5605	BR8R1000	VB2110RSL	W5606	10" *(254mm)*	2-15/16" *(75mm)*		
BR8L1200	VB2112LSL	W5607	BR8R1200	VB2112RSL	W5608	12" *(305mm)*	3-7/16" *(87mm)*	300 *(1.33 kN)*	250 *(1.11 kN)*
BR8L1400	VB2114LSL	W5609	BR8R1400	VB2114RSL	W5610	14" *(356mm)*	3-15/16" *(100mm)*		
BR8L1600	VB2116LSL	W5611	BR8R1600	VB2116RSL	W5612	16" *(406mm)*	4-7/16" *(113mm)*		
BR8L1800	VB2118LSL	W5613	BR8R1800	VB2118RSL	W5614	18" *(457mm)*	4-15/16" *(125mm)*		
BR8L2000	VB2120LSL	W5615	BR8R2000	VB2120RSL	W5616	20" *(508mm)*	5-7/16" *(138mm)*		
BR8L2200	VB2122LSL	W5617	BR8R2200	VB2122RSL	W5618	22" *(559mm)*	5-15/16" *(151mm)*		
BR8L2400	VB2124LSL	W5619	BR8R2400	VB2124RSL	W5620	24" *(610mm)*	6-7/16" *(164mm)*	300 *(1.33 kN)*	250 *(1.11 kN)*
BR8L2600	VB2126LSL	W5621	BR8R2600	VB2126RSL	W5622	26" *(660mm)*	6-15/16" *(176mm)*		
BR8L2800	VB2128LSL	W5623	BR8R2800	VB2128RSL	W5624	28" *(711mm)*	7-7/16" *(189mm)*		
BR8L3000	VB2130LSL	W5625	BR8R3000	VB2130RSL	W5626	30" *(762mm)*	7-15/16" *(202mm)*		

Design Uniform Load when attached to listed upright column.
Safety Factor 2-1/2

Note: When brackets are used for mechanical supports, load capacities should conform to American Standard Code for Pressure Piping.

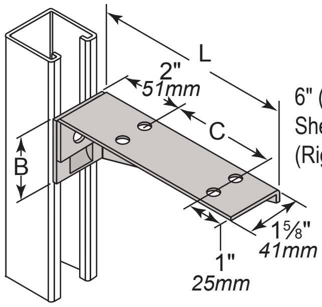
Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

IDEAL TRIDON GROUP

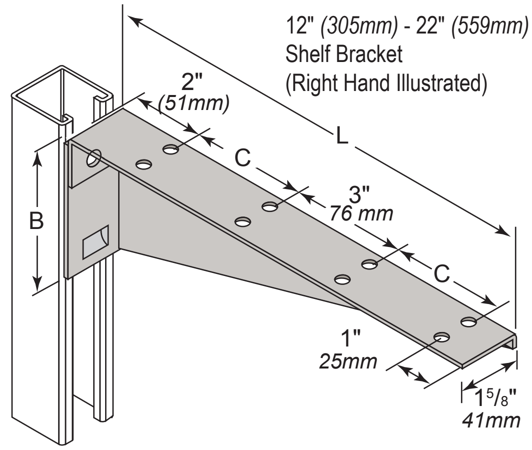
Standard Finish: Electro Galvanized (EG)

Shelf Brackets

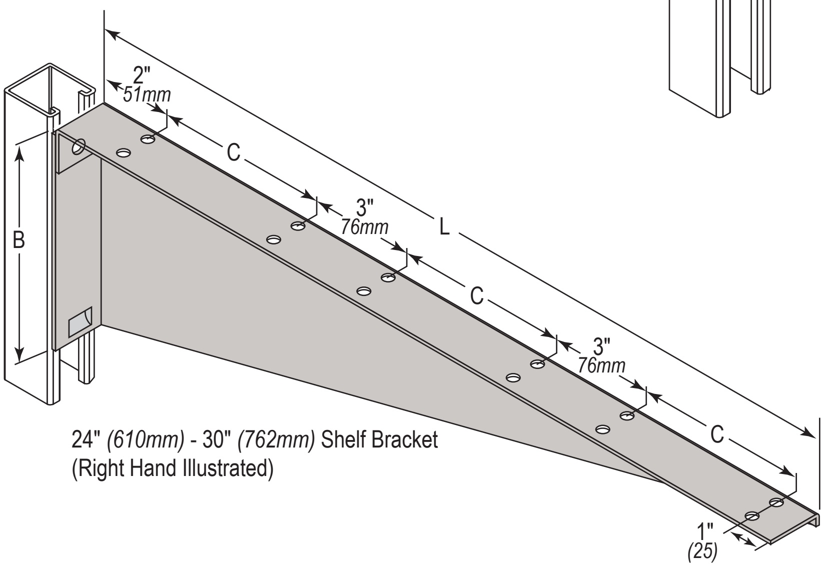
Brackets are 12ga steel, electro-galvanized.
Furnished with 3/8" x 1" *(10mm x 25mm)* slotted holes and 9/32" *(7mm)* round holes



6" (152mm) - 10" (254mm)
Shelf Bracket
(Right Hand Illustrated)



12" *(305mm)* - 22" *(559mm)*
Shelf Bracket
(Right Hand Illustrated)



24" *(610mm)* - 30" *(762mm)* Shelf Bracket
(Right Hand Illustrated)

Left Hand			Right Hand			L	B	C	Design Uniform Load Lbs. *(kN)*	
FLORIDA STRUT	VERSABAR	WESANCO	FLORIDA STRUT	VERSABAR	WESANCO				1-5/8" - 12 Ga.	1-5/8" - 14 Ga.
--	VB2106L	--	--	VB2106R	--	6" *(152mm)*	1-15/16" *(49mm)*	3" *(76mm)*	300 *(1.33 kN)*	250 *(1.11 kN)*
--	VB2108L	--	--	VB2108R	--	8" *(203mm)*	2-7/16" *(-62mm)*	5" *(127mm)*		
--	VB2110L	--	--	VB2110R	--	10" *(254mm)*	2-15/16" *(75mm)*	7" *(178mm)*		
--	VB2112L	--	--	VB2112R	--	12" *(305mm)*	3-7/16" *(87mm)*	3" *(76mm)*	300 *(1.33 kN)*	250 *(1.11 kN)*
--	VB2114L	--	--	VB2114R	--	14" *(356mm)*	3-15/16" *(100mm)*	4" *(102mm)*		
--	VB2116L	--	--	VB2116R	--	16" *(406mm)*	4-7/16" *(113mm)*	5" *(127mm)*		
--	VB2118L	--	--	VB2118R	--	18" *(457mm)*	4-15/16" *(125mm)*	6" *(152mm)*		
--	VB2120L	--	--	VB2120R	--	20" *(508mm)*	5-7/16" *(138mm)*	7" *(178mm)*		
--	VB2122L	--	--	VB2122R	--	22" *(559mm)*	5-15/16" *(151mm)*	8" *(203mm)*		
--	VB2124L	--	--	VB2124R	--	24" *(610mm)*	6-7/16" *(164mm)*	5" *(127mm)*	300 *(1.33 kN)*	250 *(1.11 kN)*
--	VB2126L	--	--	VB2126R	--	26" *(660mm)*	6-15/16" *(176mm)*	5-21/32" *(144mm)*		
--	VB2128L	--	--	VB2128R	--	28" *(711mm)*	7-7/16" *(189mm)*	6-11/32" *(160mm)*		
--	VB2130L	--	--	VB2130R	--	30" *(762mm)*	7-15/16" *(202mm)*	7" *(178mm)*		

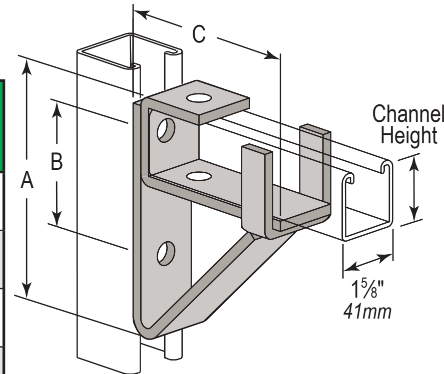
Design Uniform Load when attached to listed upright column.
Safety Factor 2-½

Note: When brackets are used for mechanical supports, load capacities should conform to American Standard Code for Pressure Piping.

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: ¼" *(6mm)*

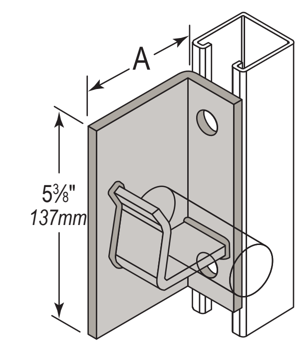
Cantilever Support Bracket

FLORIDA STRUT	VERSABAR	WESANCO	Channel Height	A	B	C	Design Load with 12 ga. Channel
--	VF73014	--	13/16" *(21mm)*	3-7/8" *(98mm)*	-	3-3/4" *(95mm)*	-
BR30	VF7301	W5651	1-5/8" *(41mm)*	5-7/8" *(149mm)*	3" *(76mm)*		5,800 *(655 kN)*
--	VF73013	--	2-1/2" *(64mm)*	-	-	4-3/4" *(121mm)*	-
BR31	VF7301B	W5650	3-1/4" *(83mm)*	7-1/2" *(191mm)*	4-5/8" *(118mm)*		12,500 *(1412 kN)*
Max load applies to bracket only, not the strength of the strut arm.							



Single Axle Cable Reel Support

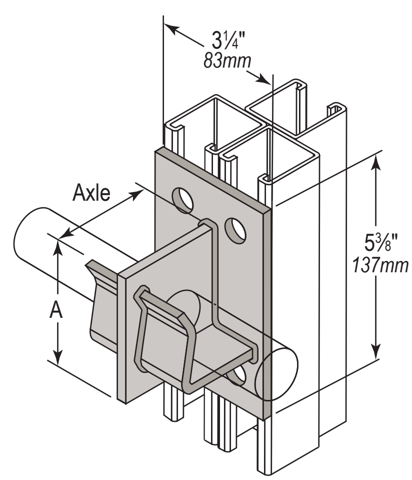
FLORIDA STRUT	VERSABAR	WESANCO	A	Axle	Description
--	VF7207L	--	3" *(76mm)*	1-1/4" *(32mm)*	Left Hand
--	VF7208L	--	3-5/8" *(92mm)*	2" *(51mm)*	Left Hand
--	VF7207R	--	3" *(76mm)*	1-1/4" *(32mm)*	Right Hand
--	VF7208R	--	3-5/8" *(92mm)*	2" *(51mm)*	Right Hand
Design Uniform Load when attached to listed upright column.					



Right Hand Shown

Double Axle Cable Reel Support

FLORIDA STRUT	VERSABAR	WESANCO	A	Axle
--	VF7307	--	3-1/4" *(83mm)*	2-5/8" *(67mm)*
--	VF7308	--	3-1/8" *(79mm)*	3-1/2" *(89mm)*
Design Uniform Load when attached to listed upright column.				

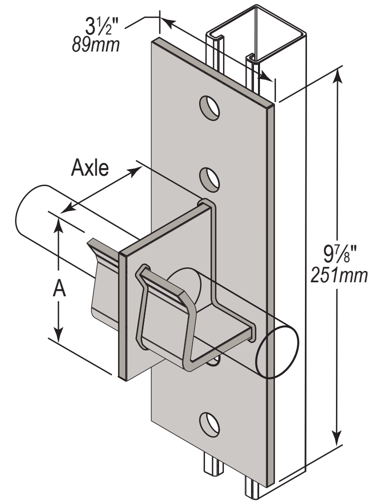


Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

Standard Finish: Electro Galvanized (EG)

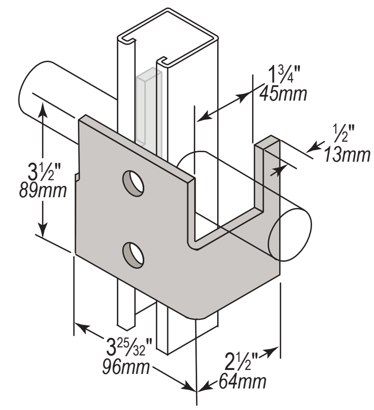
IDEAL TRIDON GROUP

Double Axle Cable Reel Support



FLORIDA STRUT	VERSABAR	WESANCO	A	Axle
--	VF7407	--	3-¼" *(83mm)*	2-⅝" *(67mm)*
--	VF7408	--	3-⅛" *(79mm)*	3-½" *(89mm)*
Design Uniform Load when attached to listed upright column.				

Cable Reel Support



FLORIDA STRUT	VERSABAR	WESANCO
--	VF7210	--

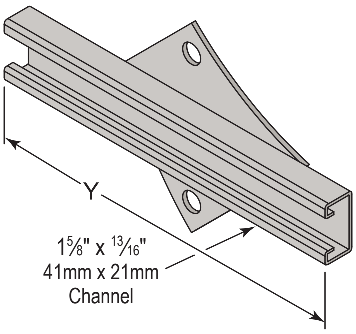
Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Utility Brackets

Standard Finish: Hot Dip Galvanized (HG)

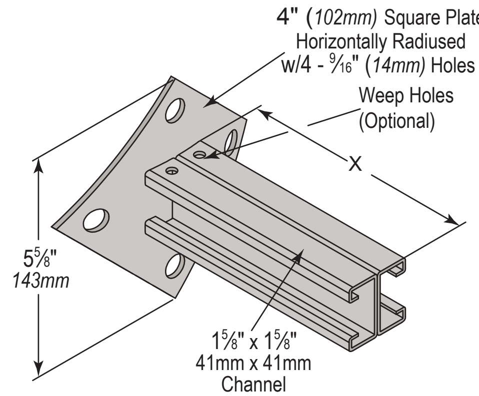
Low Profile Diamond Back with Horizontal Strut Riser.

Standard channel 4" square plate horizontally radiused
(5-5/8" nominal corner to corner).
Welded top and bottom at apex of radiused back plate.



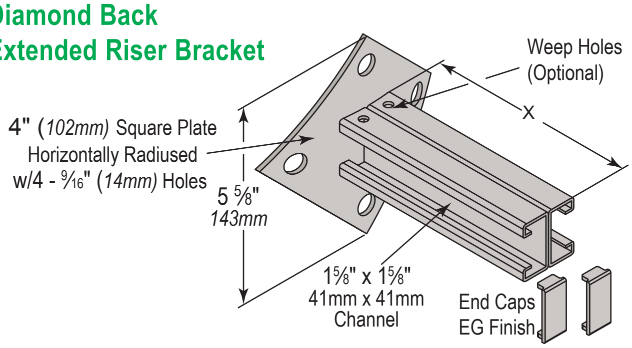
FLORIDA STRUT	VERSABAR	WESANCO	Y
--	--	W10196	6" *(152mm)*
--	--	W10198	8" *(203mm)*
--	--	W101910	10" *(254mm)*
--	--	W101912	12" *(305mm)*
--	--	W101916	16" *(406mm)*
--	--	W101918	18" *(457mm)*
--	--	W101924	24" *(610mm)*

Diamond Back Extended Riser Bracket



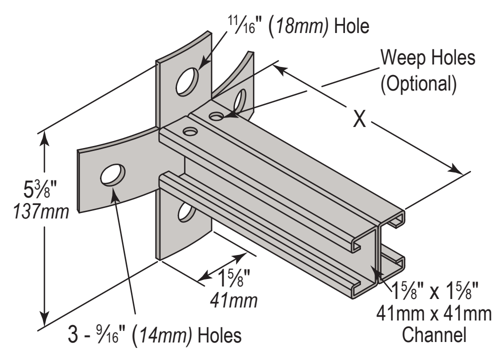
FLORIDA STRUT	VERSABAR	WESANCO	Y
--	--	W10106	6" *(152mm)*
--	--	W10108	8" *(203mm)*
--	--	W101010	10" *(254mm)*
--	--	W101012	12" *(305mm)*
--	--	W101016	16" *(406mm)*
--	--	W101018	18" *(457mm)*
--	--	W101024	24" *(610mm)*

Diamond Back Extended Riser Bracket



FLORIDA STRUT	VERSABAR	WESANCO	Y
--	--	W10116	6" *(152mm)*
--	--	W10118	8" *(203mm)*
--	--	W101110	10" *(254mm)*
--	--	W101112	12" *(305mm)*
--	--	W101116	16" *(406mm)*
--	--	W101118	18" *(457mm)*
--	--	W101124	24" *(610mm)*
--	--	W101130	30" *(762mm)*
--	--	W101136	36" *(914mm)*
--	--	W101140	40" *(1,016mm)*
--	--	W101148	48" *(1,219mm)*

Cross Back Extended Riser Bracket



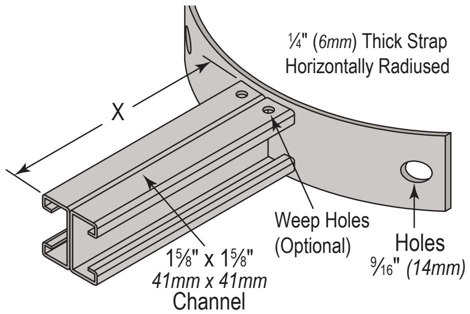
FLORIDA STRUT	VERSABAR	WESANCO	Y
--	--	W10156	6" *(152mm)*
--	--	W10158	8" *(203mm)*
--	--	W101510	10" *(254mm)*
--	--	W101512	12" *(305mm)*
--	--	W101516	16" *(406mm)*
--	--	W101518	18" *(457mm)*
--	--	W101524	24" *(610mm)*

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*
Typical: Weep Holes top and bottom (optional), Appropriate (hot dipped galvanized) end caps available on any unit (optional)

Utility Brackets

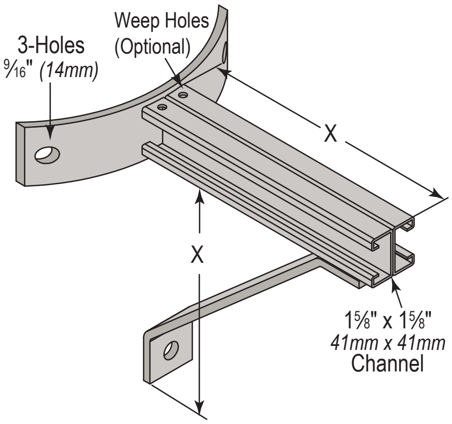
Standard Finish: Hot Dip Galvanized (HG)

Strap Back Extended Riser Bracket



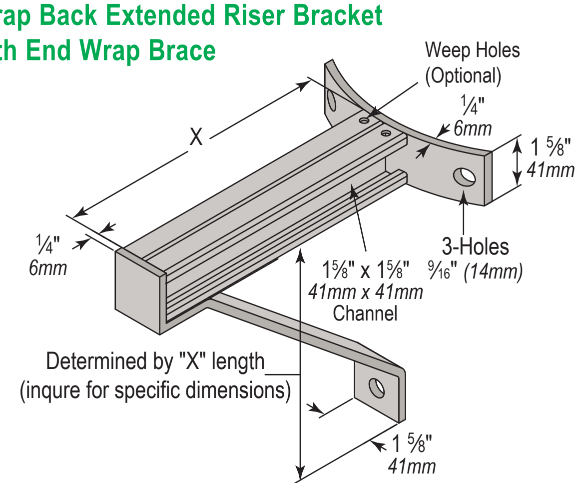
FLORIDA STRUT	VERSABAR	WESANCO	Y
--	--	W10126	6" *(152mm)*
--	--	W10128	8" *(203mm)*
--	--	W101210	10" *(254mm)*
--	--	W101212	12" *(305mm)*
--	--	W101216	16" *(406mm)*
--	--	W101218	18" *(457mm)*
--	--	W101224	24" *(610mm)*

Strap Back Extended Riser Bracket with Bottom Attached Brace.



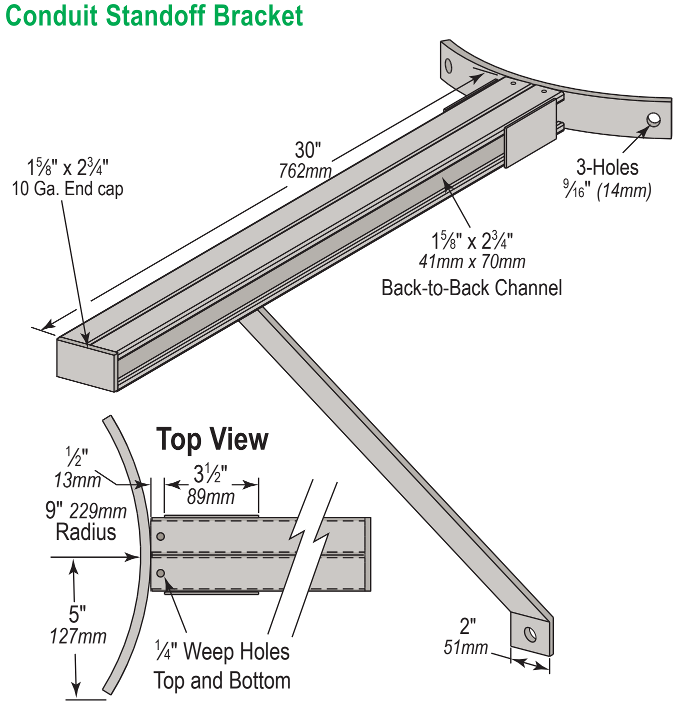
FLORIDA STRUT	VERSABAR	WESANCO	Y
--	--	W10136	6" *(152mm)*
--	--	W10138	8" *(203mm)*
--	--	W101310	10" *(254mm)*
--	--	W101312	12" *(305mm)*
--	--	W101316	16" *(406mm)*
--	--	W101318	18" *(457mm)*
--	--	W101324	24" *(610mm)*

Strap Back Extended Riser Bracket with End Wrap Brace



FLORIDA STRUT	VERSABAR	WESANCO	Y
--	--	W10166	6" *(152mm)*
--	--	W10168	8" *(203mm)*
--	--	W101610	10" *(254mm)*
--	--	W101612	12" *(305mm)*
--	--	W101616	16" *(406mm)*
--	--	W101618	18" *(457mm)*
--	--	W101624	24" *(610mm)*

Conduit Standoff Bracket



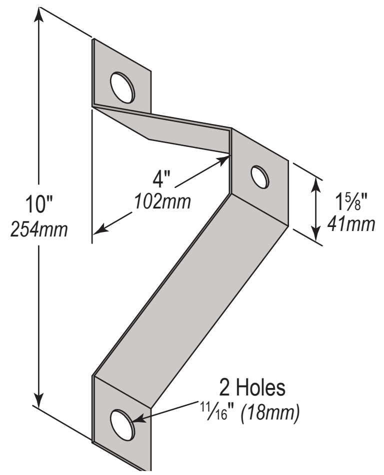
FLORIDA STRUT	VERSABAR	WESANCO
--	--	WSF101668

Hole Diameter: ⁹⁄₁₆" *(14mm)*; Hole Spacing - From End: ¹³⁄₁₆" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*
Typical: Weep Holes top and bottom (optional), Appropriate (hot dipped galvanized) end caps available on any unit (optional)

Utility Brackets

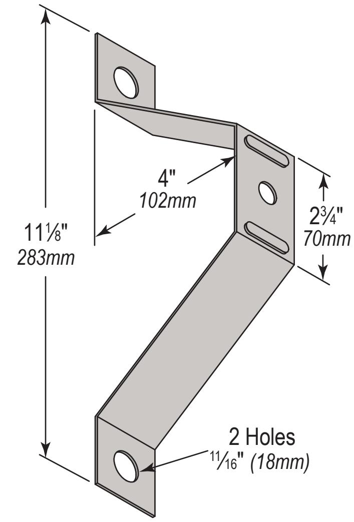
Standard Finish: Hot Dip Galvanized (HG)

Bracket



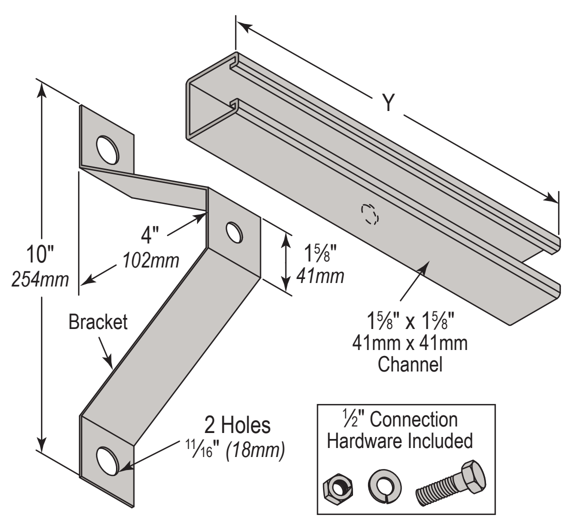
FLORIDA STRUT	VERSABAR	WESANCO
--	--	W1017

Anti-Rotation Bracket



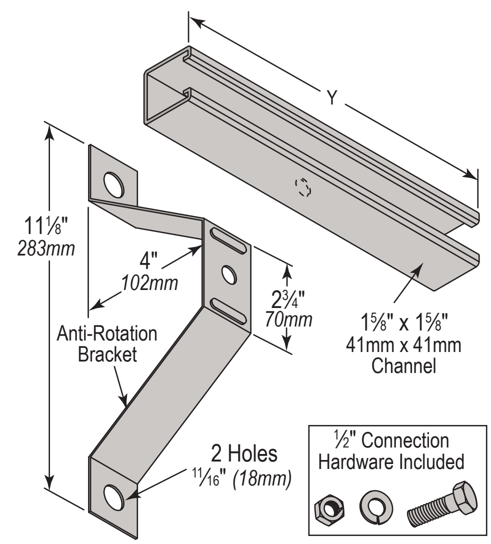
FLORIDA STRUT	VERSABAR	WESANCO
--	--	W1017AR

Bracket Assembly



FLORIDA STRUT	VERSABAR	WESANCO	Y
--	--	W1017A6	6" *(152mm)*
--	--	W1017A8	8" *(203mm)*
--	--	W1017A10	10" *(254mm)*
--	--	W1017A12	12" *(305mm)*
--	--	W1017A16	16" *(406mm)*
--	--	W1017A18	18" *(457mm)*
--	--	W1017A24	24" *(610mm)*

Anti-Rotation Bracket Assembly

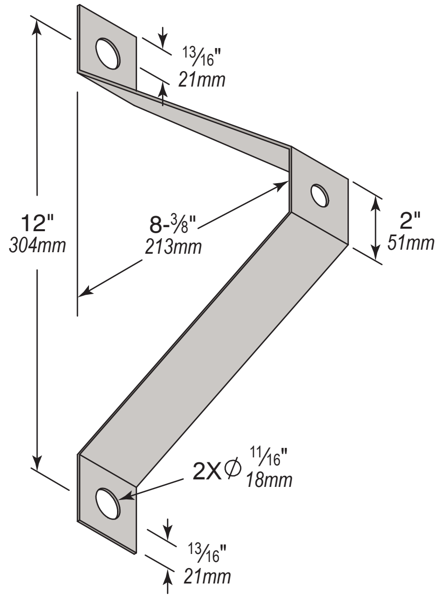


FLORIDA STRUT	VERSABAR	WESANCO	Y
--	--	W1017ARA6	6" *(152mm)*
--	--	W1017ARA8	8" *(203mm)*
--	--	W1017ARA10	10" *(254mm)*
--	--	W1017ARA12	12" *(305mm)*
--	--	W1017ARA16	16" *(406mm)*
--	--	W1017ARA18	18" *(457mm)*
--	--	W1017ARA24	24" *(610mm)*

Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-7⁄8" (48mm); Width: 1-5⁄8"(41mm); Thickness: ¼" *(6mm)*
Typical: Weep Holes top and bottom (optional), Appropriate (hot dipped galvanized) end caps available on any unit (optional)

Standard Finish: Hot Dip Galvanized (HG)

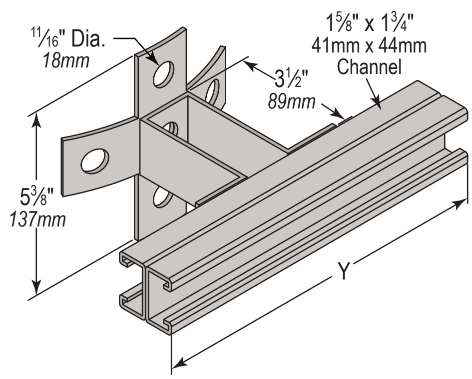
Large Bracket



FLORIDA STRUT	VERSABAR	WESANCO
--	--	W1017E

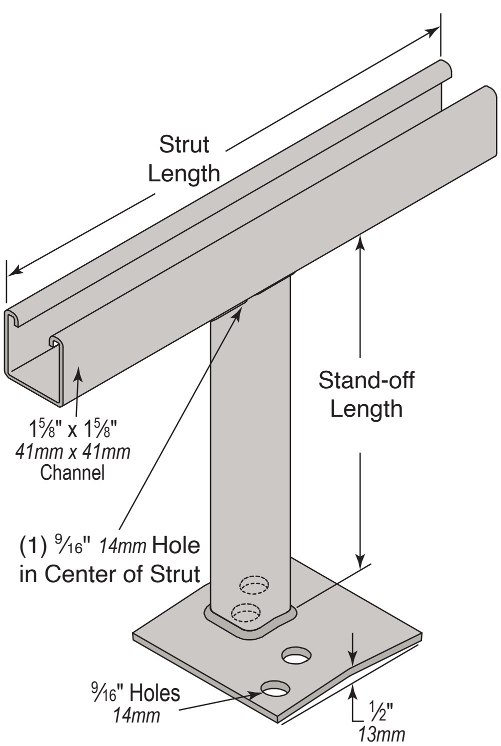
Diamond Back Extended Riser Bracket with Horizontal Strut

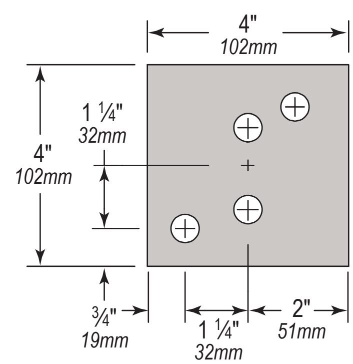
Also available W1007 E-Y with (3) W6162-HG; each clamp with Everdur hardware



FLORIDA STRUT	VERSABAR	WESANCO	Y
--	--	W10076	6" *(152mm)*
--	--	W10078	8" *(203mm)*
--	--	W100710	10" *(254mm)*
--	--	W100712	12" *(305mm)*
--	--	W100716	16" *(406mm)*
--	--	W100718	18" *(457mm)*
--	--	W100724	24" *(610mm)*

Square Tube Stand Off





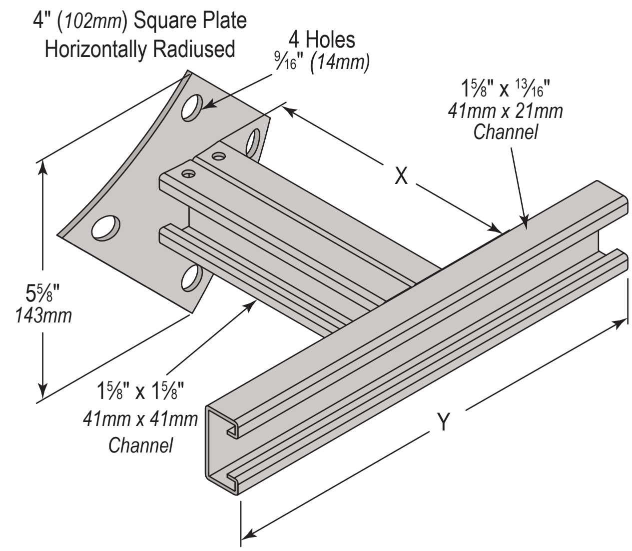
FLORIDA STRUT	VERSABAR	WESANCO	Stand-off Length	Strut Length
--	--	W102281/8	8-1/8" *(206mm)*	12" *(305mm)*
--	--	W102281/8M	8-1/8" *(206mm)*	16" *(406mm)*
--	--	W102210X12	10" *(254mm)*	12" *(305mm)*
--	--	W102210X16	10" *(254mm)*	16" *(406mm)*
--	--	W102212X12	12" *(305mm)*	12" *(305mm)*

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*
Typical: Weep Holes top and bottom (optional), Appropriate (hot dipped galvanized) end caps available on any unit (optional)

Utility Brackets

Standard Finish: Hot Dip Galvanized (HG)

Extended Profile Diamond Back with Horizontal Riser Strut



FLORIDA STRUT	VERSABAR	WESANCO	X	Y
--	--	W102166	6" *(152mm)*	6" *(152mm)*
--	--	W102168		8" *(203mm)*
--	--	W1021610		10" *(254mm)*
--	--	W1021612		12" *(305mm)*
--	--	W1021616		16" *(406mm)*
--	--	W1021618		18" *(457mm)*
--	--	W1021624		24" *(610mm)*
--	--	W102186	8" *(203mm)*	6" *(152mm)*
--	--	W102188		8" *(203mm)*
--	--	W1021810		10" *(254mm)*
--	--	W1021812		12" *(305mm)*
--	--	W1021816		16" *(406mm)*
--	--	W1021818		18" *(457mm)*
--	--	W1021824		24" *(610mm)*
--	--	W1021106	10" *(254mm)*	6" *(152mm)*
--	--	W1021108		8" *(203mm)*
--	--	W10211010		10" *(254mm)*
--	--	W10211012		12" *(305mm)*
--	--	W10211016		16" *(406mm)*
--	--	W10211018		18" *(457mm)*
--	--	W10211024		24" *(610mm)*
--	--	W1021126	12" *(305mm)*	6" *(152mm)*
--	--	W1021128		8" *(203mm)*
--	--	W10211210		10" *(254mm)*
--	--	W10211212		12" *(305mm)*
--	--	W10211216		16" *(406mm)*
--	--	W10211218		18" *(457mm)*
--	--	W10211224		24" *(610mm)*

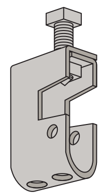
FLORIDA STRUT	VERSABAR	WESANCO	X	Y
--	--	W1021166	16" *(406mm)*	6" *(152mm)*
--	--	W1021168		8" *(203mm)*
--	--	W10211610		10" *(254mm)*
--	--	W10211612		12" *(305mm)*
--	--	W10211616		16" *(406mm)*
--	--	W10211618		18" *(457mm)*
--	--	W10211624		24" *(610mm)*
--	--	W1021186	18" *(457mm)*	6" *(152mm)*
--	--	W1021188		8" *(203mm)*
--	--	W10211810		10" *(254mm)*
--	--	W10211812		12" *(305mm)*
--	--	W10211816		16" *(406mm)*
--	--	W10211818		18" *(457mm)*
--	--	W10211824		24" *(610mm)*
--	--	W1021246	24" *(610mm)*	6" *(152mm)*
--	--	W1021248		8" *(203mm)*
--	--	W10212410		10" *(254mm)*
--	--	W10212412		12" *(305mm)*
--	--	W10212416		16" *(406mm)*
--	--	W10212418		18" *(457mm)*
--	--	W10212424		24" *(610mm)*

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*
Typical: Weep Holes top and bottom (optional), Appropriate (hot dipped galvanized) end caps available on any unit (optional)

Beam Clamps

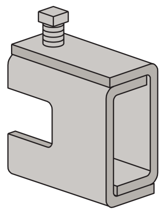
All Purpose Beam Clamps

Page 152



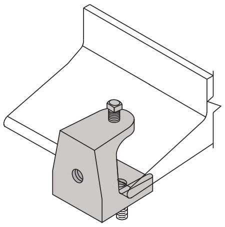
Formed Steel Beam Clamps

Page 153



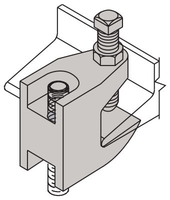
Rod Suspension Beam Clamps

Pages 154 - 156



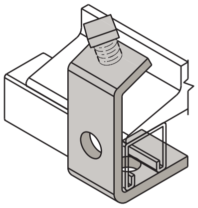
Universal Beam Clamps

Pages 156 - 157



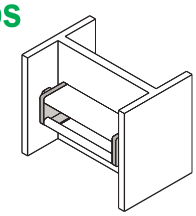
C-Type & Z-Type Beam Clamps

Pages 158 - 159



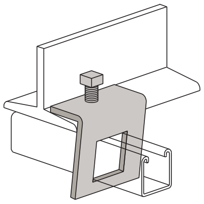
Strut to Beam Spreader Caps

Page 160



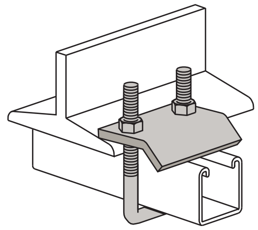
Notched or Window Type Beam Clamps

Page 161



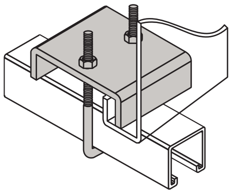
U-Bolt Beam Clamps

Pages 163 - 165



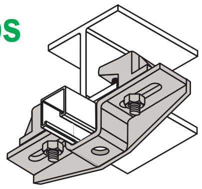
Purlin Beam Clamps

Page 166



Combination Beam Clamps

Page 166



Fittings Specifications

Material	ASTM	ASTM Description
Hot Rolled Plate	A 575, A 1011, A 1018, A 576, A638	Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.
Fitting: Steel	A 366, A 36	Steel carbon, cold rolled sheet, commercial quality structural steel.
Strip Steel: Pipe Clamps	A 569	Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.
Stainless Steel	A 240 TYPE 304	Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel.
	A 240 TYPE 316	
Aluminum	B 221	Aluminum alloy extruded bar, rod, wire, shape and tube.

See page 25 for Material or Finish ordering codes for part numbers.

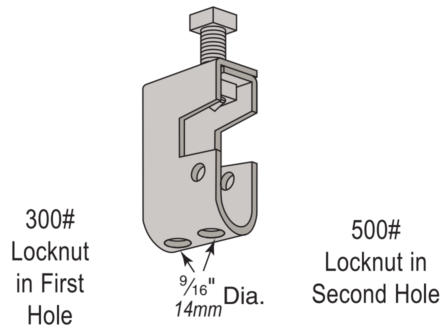
Fitting Finish Specifications

Finish	Description
Paint-Green Powder Coating	A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.
Electroplated	Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.
Mill-Galvanized (Pre-Galvanized)	Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present.
Hot Dip Galvanized After Fabrication	Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications. ASTM A 123, ASTM A153, or ASTM A386.
Special Coatings	Other commercially available finishes can be supplied per specification when required to protect applications.

Beam Clamps

Standard Finish: Electro Galvanized (EG)

All Purpose Beam Clamp



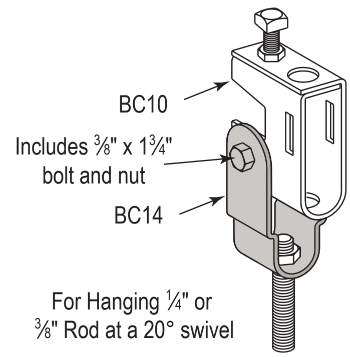
Provides for hanging rod directly below set screw.
A 20° swivel is possible using ¼" or ⅜" rod.
Alternate use provides ¼", ⅜" or ½" rod to be extended from the top to the bottom of the clamp on the end opposite the set screw. A ¼" flat washer must be used with ¼" rod.

Position	Design Load
A	500 Lbs. *(2.22 kN)*
B	300 Lbs. *(1.33 kN)*

FLORIDA STRUT	VERSABAR	WESANCO
BC10	VX1000A	W5750

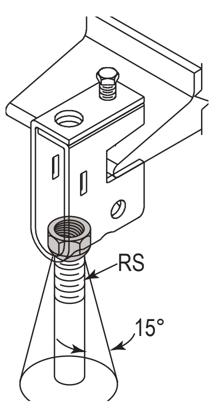
Beam Clamp Swivel Adapter

For use with ¼", ⅜" or ½" rod *(6mm, 8mm or 10mm)*.
If swivel is required use BC12 Swivel Nut.



FLORIDA STRUT	VERSABAR	WESANCO	Design Load
BC14	VX1090A	W5751	500 Lbs. *(2.22 kN)*

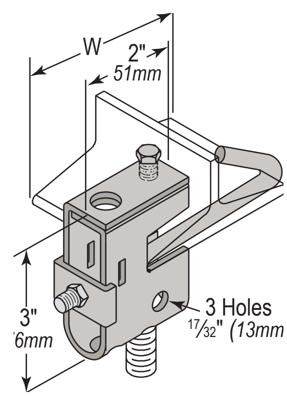
Swivel Nut for use with All Purpose Beam Clamp



FLORIDA STRUT	VERSABAR	WESANCO	Rod Size
BC120025	--	--	¼"-20
BC120037	--	--	⅜"-16
BC120050	--	--	½"-13

Beam Clamp Formed Steel with J–Hook

Includes:
Clamp, J-Hook, ⅜" hex nut and clip.



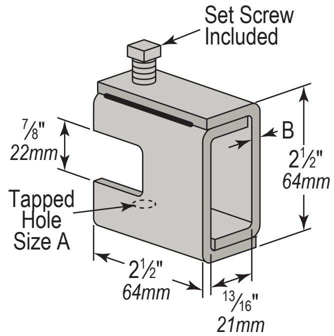
FLORIDA STRUT	VERSABAR	WESANCO	W
BC110600	VX1000B	--	3" thru 6" *(76 to 152mm)*
BC110900	--	--	6" thru 9" *(152 to 228mm)*
--	VX1000C	--	6" thru 10" *(152 to 254mm)*
BC111200	--	--	9" thru 12" *(228 to 305mm)*

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

Standard Finish: Electro Galvanized (EG)

Formed Steel Beam Clamp

Maximum flange thickness 7/8" *22mm*

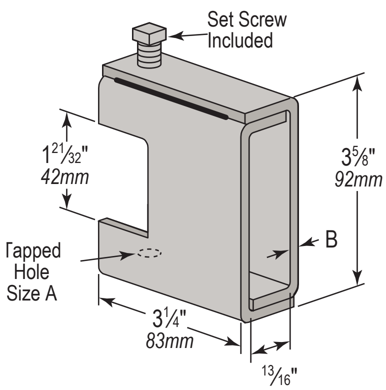


Bottom Rod against Beam (recommended)

FLORIDA STRUT	VERSABAR	WESANCO	A	B	Set Screw	Allowable Load Lbs. *(kN)* (ea.)
--	VX7002A	W5721	1/4"-20	1/8" *(3mm)*	3/8" x 1-1/2"	650 *(2.89 kN)*
--	VX7003A	W5722	5/16"-18			
BC150037	VX7004A	W5723	3/8"-16			
BC160037	VX7005A	W5724	3/8"-16	3/16" *(5mm)*	1/2" x 1-1/2"	1,100 *(4.89 kN)*
BC150050	VX7006A	W5725	1/2"-13			
BC160050	VX7007A	W5726	1/2"-13	1/4" *(6mm)*		1,600 *(7.12 kN)*
BC150062	VX7008A	W5727	5/8"-11			
BC160062	VX7009A	W5728	5/8"-11	5/16" *(8mm)*	5/8" x 1-1/2"	2,400 *(10.68 kN)*
--	VX7010A	W5729	3/4"-10			

Formed Steel Heavy Duty Beam Clamp

For 3/4" thru 1-5/8" *(19 thru 41mm)* flange thickness

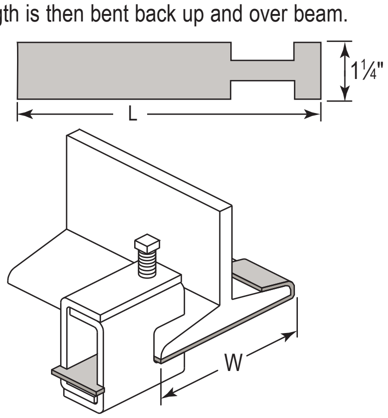


Bottom Rod against Beam (recommended)

FLORIDA STRUT	VERSABAR	WESANCO	A	B	Set Screw	Allowable Load Lbs. *(kN)* (ea.)
--	VX7011A	W5731	1/4"-20	1/8" *(3mm)*	3/8" x 2"	800 *(3.56 kN)*
--	VX7012A	W5732	5/16"-18			
BC170037	VX7013A	W5733	3/8"-16			
--	VX7014A	W5734	3/8"-16	3/16" *(5mm)*	1/2" x 2"	1,300 *(5.78 kN)*
BC170050	VX7015A	W5735	1/2"-13			
--	VX7016A	W5736	1/2"-13	1/4" *(6mm)*	1/2" x 2"	1,900 *(8.45 kN)*
BC170062	VX7017A	W5737	5/8"-11			
--	VX7018A	W5738	5/8"-11	5/16" *(8mm)*	5/8" x 2"	2,800 *(12.46 kN)*
--	VX7019A	W5739	3/4"-10			

Beam Clamp Anchor Strap

Straps can be used as a secondary method of securing clamp to beam. After inserting strap and mounting clamp to beam, excess length is then bent back up and over beam.

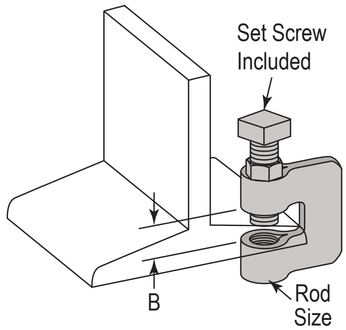


FLORIDA STRUT	VERSABAR	WESANCO	W * (Max)	L
BC130600	--	--	6" *(152mm)*	9" *(228mm)*
--	VX1006	WBC0906	7" *(178mm)*	10" *(254mm)*
BC130900	VX1007	--	9" *(228mm)*	12" *(305mm)*
--	VX1008	--	11" *(279mm)*	14" *(356mm)*
BC131200	--	--	12" *(305mm)*	15" *(381mm)*
--	VX1009	--	13" *(330mm)*	16" *(406mm)*
BC131500	VX1010	--	15" *(381mm)*	18" *(457mm)*

* For beam flange thickness greater than 3/4" (*19mm*) use next larger flange width size.

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

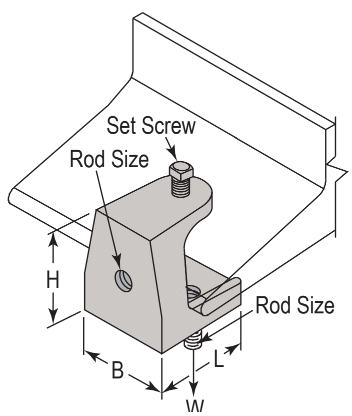
Beam Clamps



"Bottom Rod" Against Beam (Recommended)

FLORIDA STRUT	VERSABAR	WESANCO	Rod Size	B	Allowable Load Lbs. *(kN)*
W5741	VX111137	W5741	⅜"-16	¾" *(19mm)*	400 *(1.78 kN)*
W5742	VX111150	W5742	½"-13		500 *(2.22 kN)*
W5743	VX111162	W5743	⅝"-11		550 *(2.45 kN)*
W5744	VX111175	W5744	¾"-10		600 *(2.67 kN)*
W5745	VX111187	W5745	⅞"-9	1-1/16" *(27mm)*	900 *(4.00 kN)*
* For clamp with Locknut, add "N" to the part number ex: VX111137N					

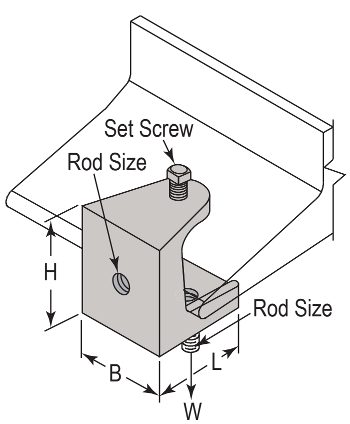
Malleable Iron Rod Support Beam Clamps



- Material: Malleable Iron
- Finish: Electrogalvanized (EG)
- Maximum flange thickness of ½" *(13mm)*

FLORIDA STRUT	VERSABAR	WESANCO	Rod Size	Set Screw Size	B	L	H	Max Load (W) lbs
BC900025	VX9004	BC9025	¼"–20	5/16"-18	1 5/16" *(33 mm)*	1⅜" *(35 mm)*	1⅜" *(35 mm)*	335 *(1.49kN)*
BC900037	VX9005	BC9037	⅜"–16	½"–13	2 1/16" *(52 mm)*	1⅞" *(48 mm)*	1¾" *(44 mm)*	525 *(2.34kN)*
BC900050	VX9006	BC9050	½"–13	½"–13	2½" *(64 mm)*	2⅜" *(60 mm)*	2 3/16" *(56 mm)*	750 *(3.34kN)*

Stainless Steel Rod Support Beam Clamps



- Material: Stainless Steel Type 316
- Maximum flange thickness of 1" *(25mm)*

FLORIDA STRUT	VERSABAR	WESANCO	Rod Size	Set Screw Size	Max. Flange	B	L	H	Max Load (W) lbs
--	VX9004SS	--	¼"–20	5/16"-18	¾" *(19 mm)*	1" *(25 mm)*	1 5/16" *(33 mm)*	1⅜" *(35 mm)*	150 *(0.68 kN)*
--	VX9005SS	--	⅜"–16	½"–13	1" *(25 mm)*	1⅞" *(48 mm)*	2" *(51 mm)*	1⅞" *(48 mm)*	750 *(3.34 kN)*
--	VX9006SS	--	½"–13	⅝"–11	1" *(25 mm)*	2⅛" *(54 mm)*	2¼" *(57 mm)*	2 3/16" *(56 mm)*	1,100 *(4.89 kN)*

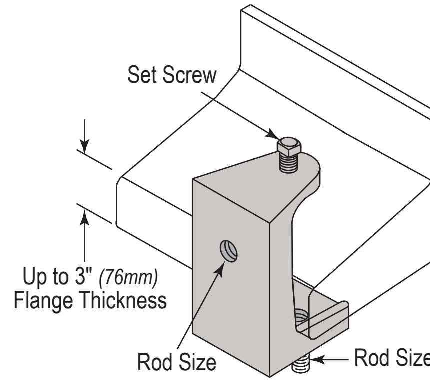
Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

Standard Finish: Electro Galvanized (EG)

Wide Mouth Rod Suspension Beam Clamps
Accepts up to 3" Thick Flanges

UL LISTED

- Material: Malleable Iron
- Finish: Bright Zinc
- Maximum flange thickness of 3" *(76mm)*

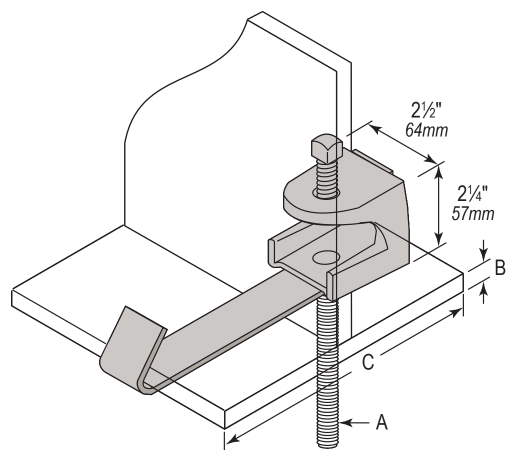


FLORIDA STRUT	VERSABAR	WESANCO	Rod Size	Set Screw Size	Max Work Load lbs *kN*
--	VX9004WM	--	¼"–20	5⁄16"-18 x 2½"	200 *(0.89kN)*
--	VX9005WM	--	⅜"–16	⅜"–16 x 2½"	300 *(1.33kN)*
--	VX9006WM	--	½"–13	½"–13 x 2½"	400 *(1.78kN)*

Rod Suspension Beam Clamps with Retainer

Stock Thickness on retainer strap is 14 ga. .075" (1.91)
Set Screw Diameter is ½"-13 x 1-¼

Includes:
Clamp & Set Screw, J-Hook, & ½"-13 Hex Head Cap Screw
(½" Diameter threaded rod sold separately).

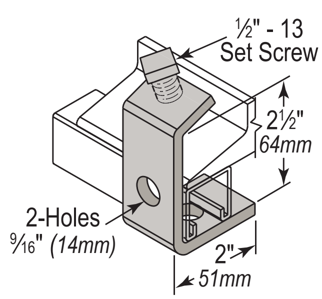


FLORIDA STRUT	VERSABAR	WESANCO	Rod Size A	B Beam Thickness	C Flange Width	Design Load lbs (kN)
--	VX9000	--	½"–13	⅜" to 13⁄16" *(9 to 21mm)*	4" thru- 6" *(102 thru 152mm)*	400 *(1.8kN)*
--	VX9001	--			7" thru 9" *(178 thru 229mm)*	
--	VX9002	--			10" thru 12" *(254 thru 305mm)*	
--	VX9003	--			13" thru 15" *(330 thru 381mm)*	

Retainer is supplied flat. Hammer end of retainer up and over beam after clamp is securely attached to beam flange

Strut to Beam Clamp C-Type, Parallel

⅜" *10mm* material thickness



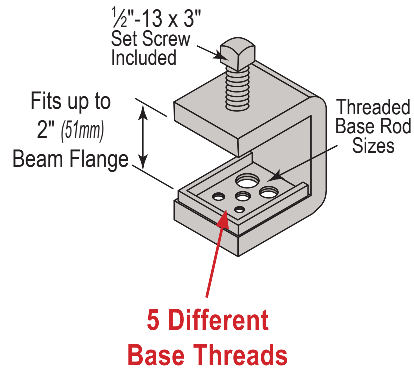
FLORIDA STRUT	VERSABAR	WESANCO
BC22	VX7002AL	W5714

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

Standard Finish: Electro Galvanized (EG)

"Handi-Clamp" Rod Suspension Clamps
Wide jaw fits up to 2" thick beam flange

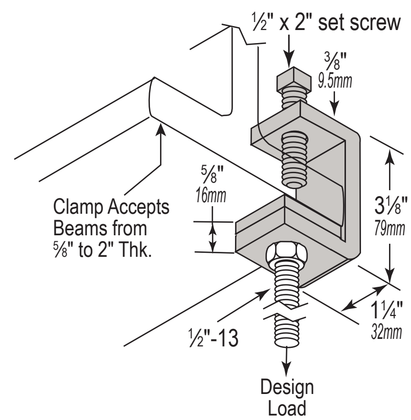
This beam clamp is used with conduit hangers, bridle rings, and threaded rod. VXH1 beam clamp is used to hang light, medium or heavy loads from structural beams. Their hardened, cup-point screw and carbon steel body will not distort or slip off the beam edge when tightened. Having a total of FIVE individual base threads always means you've got "the right clamp" in your hands. Wide jaw allows fitment to thick beams. Hot dipped finish is suitable for indoor or out door use.



FLORIDA STRUT	VERSABAR	WESANCO	Threaded Base Rod Sizes	Set Screw Size	* Max. Design Load for Threaded Base Lbs. *(kN)*
--	VXH1	--	¼"-20	½"-13 x 3"	250 *(1.11 kN)*
			5/16"-18		650 *(2.89 kN)*
			⅜"-16		750 *(3.34 kN)*
			½"-13		900 *(4.00 kN)*
			⅝"-11		1,000 *(4.45 kN)*

* Do not exceed design loading per rod diameter.

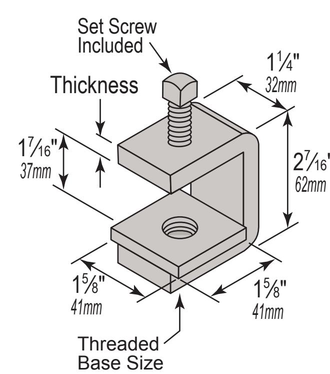
Heavy Beam ½" Rod Suspension Clamps



FLORIDA STRUT	VERSABAR	WESANCO	Design Load
--	VX704450	--	800 Lbs. *(3.56 kN)*

Heavy Duty Rod Suspension Clamps
Wide Jaw fits up to 1-⅜" Thick

Stainless Steel Type 316
Supplied with stainless 18-8 cup point square head set screw. (Stainless 316 available by special order)
All U.N.C course threads



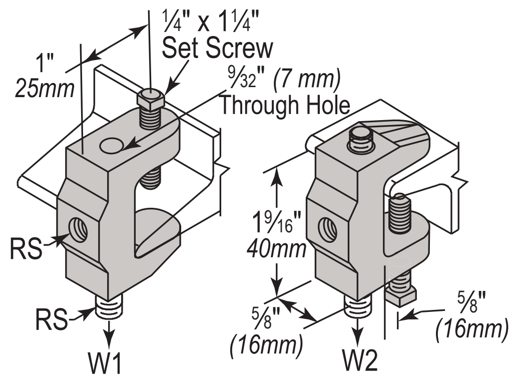
FLORIDA STRUT	VERSABAR	WESANCO	Threaded Base Rod Size	Set Screw Size	Clamp Thickness	* Max. Design Load for Threaded Base Lbs. *(kN)*
--	VX7070A	--	¼"-20	⅜"-16 x 2"	¼" *(6mm)*	250 *(1.11 kN)*
--	VX7070B	--	⅜"-16	½"-13 x 2"	⅜" *(10mm)*	750 *(3.34 kN)*
--	VX7070C	--	½"-13	½"-13 x 2"		1,130 *(5.03 kN)*
--	VX7070D	--	⅝"-11	⅝"-11 x 2"		1,130 *(5.03 kN)*

* Do not exceed design loading per rod diameter.
Load for Clamp base threaded rod suspended downward

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

Standard Finish: Electro Galvanized (EG)

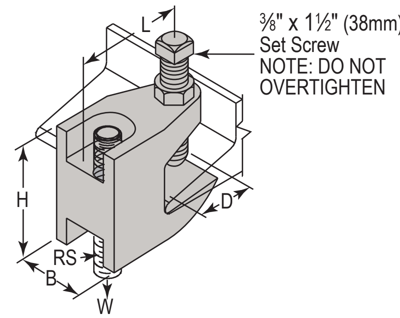
Malleable Iron Universal Beam Clamps



- Material: Malleable Iron
- Finish: Electrogalvanized (EG)
- Maximum flange thickness of ⅝" *(16mm)*

FLORIDA STRUT	VERSABAR	WESANCO	Rod Size (RS)	W1 Max Load	W2 Max Load
BC910025	--	BC91025	¼" – 20	100 *(0.44kN)*	250 *(1.11kN)*
The threaded hole on the back side of the clamp is not load rated. Do not over tighten set screw					

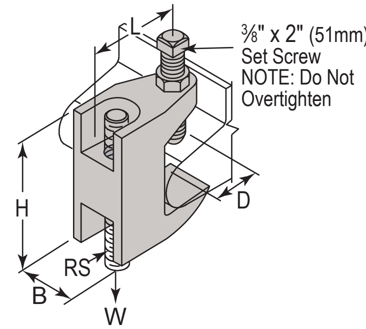
Malleable Iron Universal Beam Clamps



- Material: Malleable Iron
- Finish: Plain (PL),or Electrogalvanized (EG)
- Maximum flange thickness of ⅝" *(16mm)*

FLORIDA STRUT	VERSABAR	WESANCO	Rod Size (RS)	Max Load W lbs	Max Pipe Size	B	L	H	D
BC800037	--	BC8037	⅜" - 16	350 *(1.56kN)*	4" *(102mm)*	⅞" *(22mm)*	1 5/16" *(33mm)*	1½" *(38mm)*	½" *(13mm)*
BC800050	--	BC8050	½" - 13	470 *(2.09kN)*					
BC800062	--	BC8062	⅝" - 11	550 *(2.45kN)*	5" *(127mm)*	1⅛" *(29mm)*	1¾" *(45mm)*	1¾" *(45mm)*	⅝" *(16mm)*
BC800075	--	BC8075	¾" - 10	700 *(3.11kN)*	6" *(152mm)*	1⅜" *(35mm)*	1⅞" *(48mm)*	1⅞" *(48mm)*	

Wide Mouth Malleable Iron Universal Beam Clamps



- Material: Malleable Iron
- Finish: Plain (PL),or Electrogalvanized (EG)
- Maximum flange thickness of 1-1/16" *(27mm)*

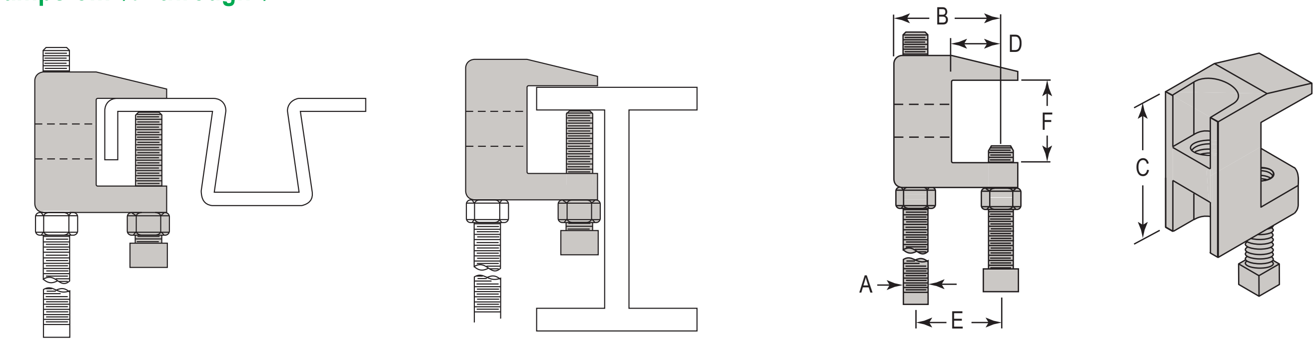
FLORIDA STRUT	VERSABAR	WESANCO	Rod Size (RS)	Max Load W lbs	Max Pipe Size	B	L	H	D
BC810037	--	BC81037	⅜" – 16	400 *(1.78kN)*	4" *(102mm)*	⅞" *(22mm)*	1⅜" *(35mm)*	2" *(51mm)*	½" *(13mm)*
BC810050	--	BC81050	½" – 13	500 *(2.22kN)*					
BC810062	--	BC81062	⅝" – 11			1¼" *(32mm)*	1⅞" *(48mm)*	2⅜" *(60mm)*	⅝" *(16mm)*

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

Beam Clamps

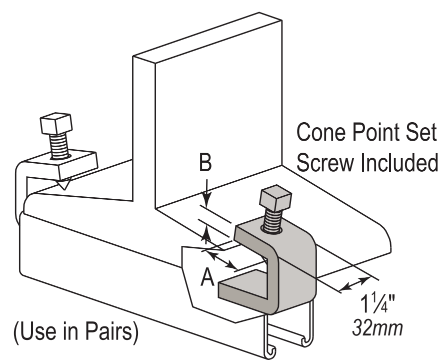
Standard Finish: Electro Galvanized (EG)

Top Beam Style, Reversible, with Tall Jaw Clamps om ⅜" through ¾"



FLORIDA STRUT	VERSABAR	WESANCO	Rod Size A	Max Load lbs (kN)	B	C	D	E	F	G
--	VX111137T	--	⅜" - 16	400 *(1.78kN)*	1⅝" *(41mm)*	2" *(51mm)*	¾" *(19mm)*	1" *(25mm)*	1¼" *(32mm)*	⅞" *(22mm)*
--	VX111150T	--	½" - 13	500 *(2.22kN)*	1⅝" *(41mm)*	2" *(51mm)*	¾" *(19mm)*	1" *(25mm)*	1¼" *(32mm)*	⅞" *(22mm)*
--	VX111162T	--	⅝" - 11	600 *(2.67kN)*	1¾" *(45mm)*	2¼" *(57mm)*	¾" *(19mm)*	1¼" *(32mm)*	1¼" *(32mm)*	1" *(25mm)*
--	VX111175T	--	¾" - 10	800 *(3.56kN)*	1⅞" *(48mm)*	2⅜" *(60mm)*	¾" *(19mm)*	1⅜" *(35mm)*	1¼" *(32mm)*	1¼" *(32mm)*

Strut to Beam Clamp C-Type

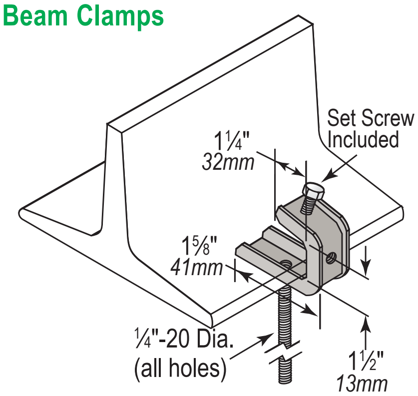


FLORIDA STRUT	VERSABAR	WESANCO	Count	Set Screw	Max Flange Thickness	A	B	H	Design Load Lbs. *(kN)* *(Used in Pairs)*
BC20	VX7001	W5715	Single Clamp	⅜"-16	1" *(25mm)*	1-¾" *(44mm)*	¼" *(6mm)*	⅞" *(22mm)*	--
--	VX7001A	--	Pair of Clamps						550 *(2.45 kN)*
BC21	VX7042	W5716	Single Clamp	½"-13	1" *(25mm)*	1-½" *(38mm)*	⅜" *(10mm)*	⅞" *(22mm)*	--
--	VX7042A	--	Pair of Clamps						1,000 *(4.45 kN)*
--	VX7043	W5717	Single Clamp	½"-13	2" *(51mm)*	1-¼" *(32mm)*	⅜" *(10mm)*	2-⅛" *(54mm)*	--
--	VX7043A	--	Pair of Clamps						900 *(4.00 kN)*

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

Standard Finish: Electro Galvanized (EG)

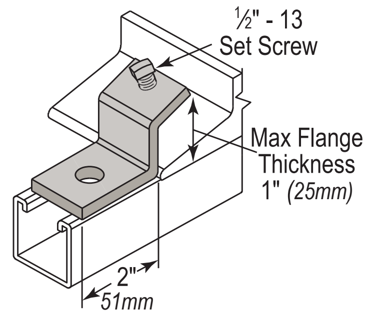
Mini Steel Beam Clamps



FLORIDA STRUT	VERSABAR	WESANCO	Design Load
BC92	VX7049A	--	75 Lbs. *(0.34 kN)*

Strut to Beam Clamp Z-Type

⅜" *10mm* material thickness



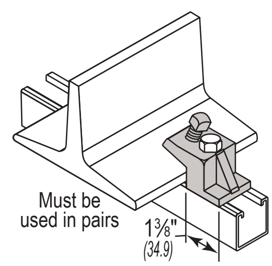
Use in Pairs

FLORIDA STRUT	VERSABAR	WESANCO
BC30	VX7106A	W5712

Strut to Beam Clamp Z-Type

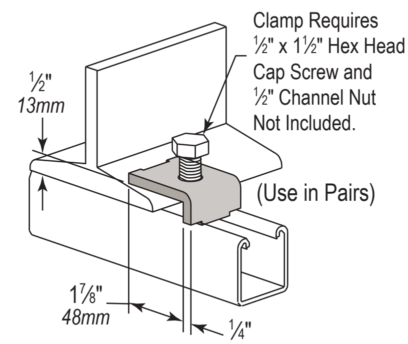
⅜" *10mm* material thickness

Use in Pairs



FLORIDA STRUT	VERSABAR	WESANCO	Includes	Design Uniform Load Lbs. *(kN)* 1-⅝" - 12 Ga.	Design Uniform Load Lbs. *(kN)* 1-⅝" - 14 Ga.
--	VX7101S	--	Clamp and Set Screw	600 *(2.67 kN)*	500 *(2.22 kN)*
--	VX7101A	--	All Hardware		
Load capacity when used in pairs					

Strut to Beam Clamp Notched Type



FLORIDA STRUT	VERSABAR	WESANCO	Includes	Design Uniform Load Lbs. *(kN)* 1-⅝" - 12 Ga.	Design Uniform Load Lbs. *(kN)* 1-⅝" - 14 Ga.
BC70	VF2102	W5713	Without Hardware	600 *(2.67 kN)*	500 *(2.22 kN)*
--	VF2102HW	--	With Hardware		
Load capacity when used in pairs					

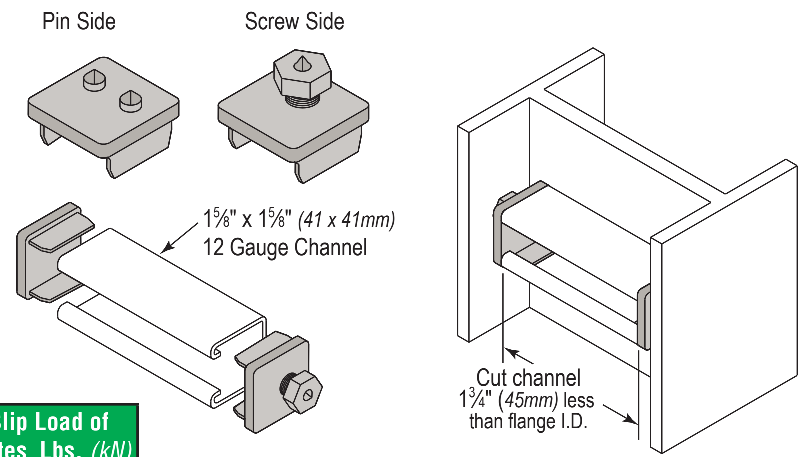
Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

Standard Finish: Electro Galvanized (EG)

Strut to Beam Spreader Caps

Cut 1-⅝" channel length 1-¾" (45mm) ***shorter*** than I.D. between beam flanges to allow for plate thickness.

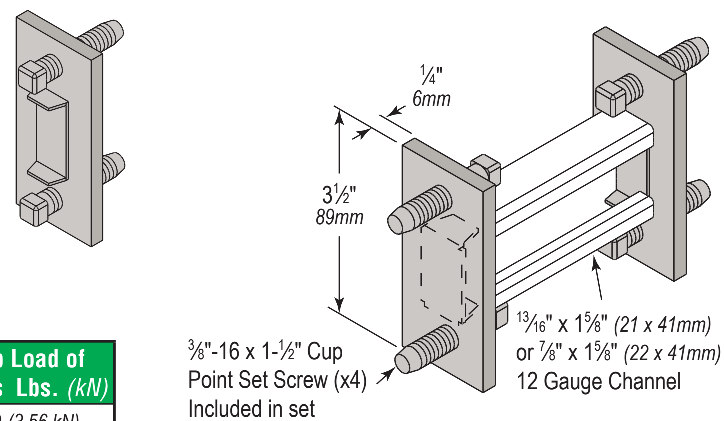
Column mounts are sold as a matching pair. Jacking screw provides pressure to hold channel between beam flanges. Hardened tips on pin side bite into opposite side. Channel can be mounted with slot facing up, down or out.



FLORIDA STRUT	VERSABAR	WESANCO	For Channel	Slip Load of plates Lbs. *(kN)*
--	VX7715A	--	1-⅝" *(41mm)*	800 *(3.56 kN)*
Channel Load rating is independent of clamp slip load rating				

Strut to Beam Spreader Caps

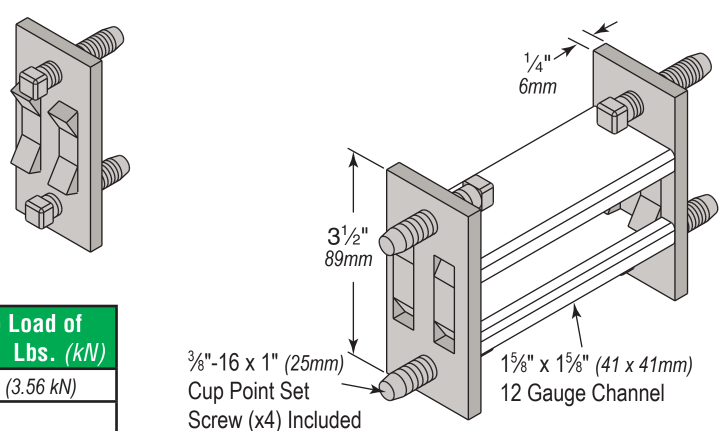
Undercut channel length min of ½" (13mm) to allow for plate thickness.



FLORIDA STRUT	VERSABAR	WESANCO	For Channel	Slip Load of plates Lbs. *(kN)*
--	VX7715A4	--	⅞", & 13/16"	800 *(3.56 kN)*
Channel Load rating is independent of clamp slip load rating				

Strut to Beam Spreader Caps

Undercut channel length min of ½" (13mm) to allow for plate thickness.



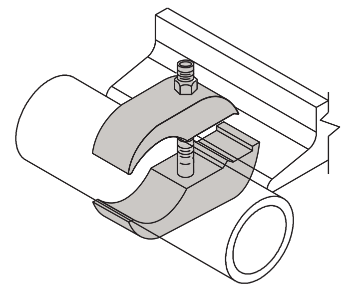
FLORIDA STRUT	VERSABAR	WESANCO	For Channel	Slip Load of plates Lbs. *(kN)*
--	VX7715B	--	1-⅝"	800 *(3.56 kN)*
Channel Load rating is independent of clamp slip load rating Available in Stainless Steel				

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

Standard Finish: Electro Galvanized (EG)

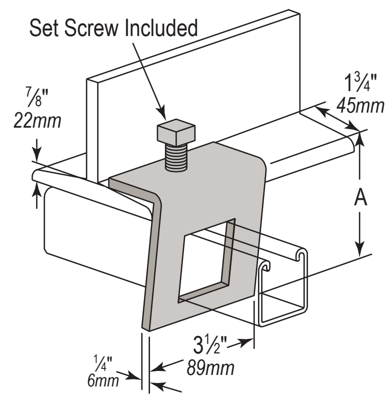
Parallel Clamp

Standard finish: Hot Dip Galv.



FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size
PAR0050	--	--	½" *(DN15)*
PAR0075	--	--	¾" *(DN20)*
PAR0100	--	--	1" *(DN25)*
PAR0125	--	--	1-¼" *(DN32)*
PAR015	--	--	1-½" *(DN40)*
PAR0200	--	--	2" *(DN50)*

Strut to Beam Clamp Window Type



FLORIDA STRUT	VERSABAR	WESANCO	A	For Channel	Design Uniform Load Lbs. *(kN)*
--	VX7037A4	W5705	2-11⁄16" *(68mm)*	1-⅝" x 13⁄16"	480 *(2.14 kN)*
--	VX7037A6	W5703	3-¼" *(83mm)*	1-⅝" x 1-⅜"	
BC40	VX7037A	W5702	3-½" *(89mm)*	1-⅝" x 1-⅝"	
--	VX7037A3	--	4-⅜" *(111mm)*	1-⅝" x 2-½"	

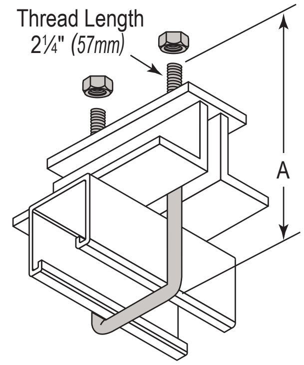
Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

Beams Clamps

Standard Finish: Electro Galvanized (EG)

Strut to Beam Clamps with Square U-Bolt

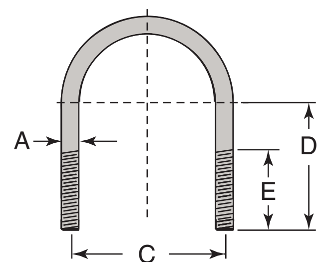
⅜"-16 Thread Hex Nuts
Included



FLORIDA STRUT	VERSABAR	WESANCO	A
--	VX7050A	--	3-½" *(89 mm)*
--	VX7050B	--	5" *(127 mm)*

Strut to Beam Clamps with U-Bolt

Zinc Electro Plated
ASTM B633 Table One
0.0003 - 0.0005 Thick.
Material per ASTM A36

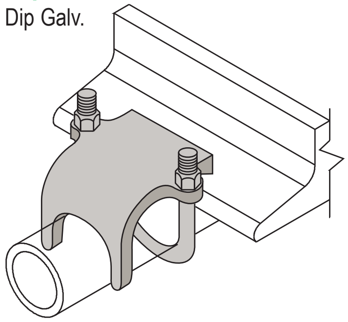


FLORIDA STRUT	VERSABAR	WESANCO	Nominal Pipe Size	A	C ±0.08	D ±0.01	E ±0.12	Threads
--	--	UB1/4P	¼" *(6mm)*		1.14 (29mm)	1.10 (28mm)	0.70 (18mm)	
--	--	UB3/8P	⅜" *(10mm)*		1.26 (32mm)	1.15 (29mm)	0.75 (19mm)	
--	--	UB1/2P	½" *(13mm)*	¼" *(6mm)*	1.50 (38mm)	1.50 (38mm)	1.00 (25mm)	1/4-20UNC-2A
--	--	UB3/4P	¾" *(19mm)*		1.50 (38mm)	1.50 (38mm)	1.00 (25mm)	
--	--	UB1P	1" *(25mm)*		1.80 (46mm)	1.70 (43mm)	1.00 (25mm)	
--	--	UB1-1/4P	1-¼" *(32mm)*		2.05 (52mm)	2.10 (53mm)	1.20 (31mm)	
--	--	UB1-1/2P	1-½" *(38mm)*	⅜" *(10mm)*	2.80 (71mm)	2.20 (56mm)	1.20 (31mm)	3/8-16UNC-2A
--	--	UB2P	2" *(51mm)*		3.35 (85mm)	2.5 (64mm)	1.20 (31mm)	
--	--	UB2-1/2P	2-½" *(64mm)*		3.88 (99mm)	3.00 (76mm)	1.40 (36mm)	
--	--	UB3P	3" *(76mm)*		4.50 (114mm)	3.30 (84mm)	1.40 (36mm)	
--	--	UB3-1/2P	3-½" *(89mm)*	½" *(13mm)*	5.00 (127mm)	3.70 (94mm)	1.50 (38mm)	1/2-13UNC-2A
--	--	UB4P	4" *(102mm)*		5.50 (140mm)	3.90 (99mm)	1.50 (38mm)	
--	--	UB5P	5" *(127mm)*		6.56 (167mm)	4.50 (114mm)	1.60 (41mm)	
--	--	UB6P	6" *(152mm)*	⅝" *(16mm)*	7.82 (199mm)	5.60 (142mm)	2.00 (51mm)	5/8-11UNC-2A
--	--	UB8P	8" *(203mm)*		9.88 (251mm)	6.60 (168mm)	2.00 (51mm)	
--	--	UB10P	10" *(254mm)*	¾" *(19mm)*	12.19 (310mm)	7.75 (197mm)	2.20 (56mm)	3/4-10UNC-2A
--	--	UB12P	12" *(305mm)*		14.19 (360mm)	8.80 (224mm)	2.20 (56mm)	
--	--	UB14P	14" *(356mm)*	⅞" *(22mm)*	15.50 (394mm)	10.00 (254mm)	2.50 (64mm)	7/8-9UNC-2A
--	--	UB16P	16" *(406mm)*		17.50 (445mm)	11.00 (279mm)	2.50 (64mm)	
--	--	UB18P	18" *(457mm)*		19.60 (498mm)	12.60 (320mm)	3.00 (76mm)	
--	--	UB20P	20" *(508mm)*	1" *(25mm)*	21.60 (549mm)	13.60 (345mm)	3.00 (76mm)	1-8UNC-2A
--	--	UB24P	24" *(610mm)*		25.60 (650mm)	17.00 (432mm)	4.20 (107mm)	

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

Right Angle Clamps

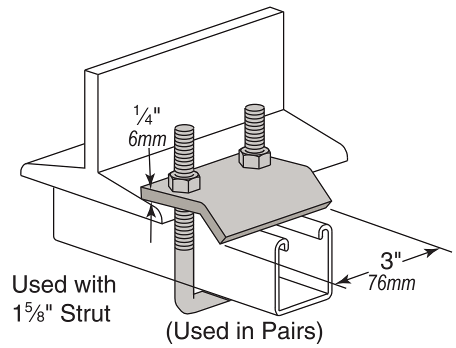
Standard finish: Hot Dip Galv.



FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size
--	VX2037	--	⅜" *(DN10)*
RA0050	VX2050 *	--	½" *(DN15)*
RA0075	VX2075 *	--	¾" *(DN20)*
RA0100	VX2100 *	--	1" *(DN25)*
RA0125	VX2125 *	--	1-¼" *(DN32)*
RA0150	VX2150 *	--	1-½" *(DN40)*
RA0200	VX2200 *	--	2" *(DN50)*
RA0250	VX2250 *	--	2-½" *(DN65)*
RA0300	VX2300 *	--	3" *(DN80)*
RA0350	VX2350 *	--	3-½" *(DN90)*
RA0400	VX2400 *	--	4" *(DN100)*
* Available in stainless steel type 316. Add suffix "-SS316" to part no.			

Strut to Beam Clamps with Square U-Bolt

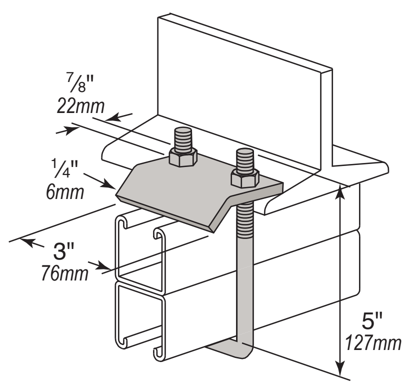
For 13/16" & 1-⅝" Channel



FLORIDA STRUT	VERSABAR	WESANCO	Allowable Load Lbs. *(kN)*
BC60	VX7038A	W5709	1,200 *(5.34 kN)*
Load capacity when used in pairs			

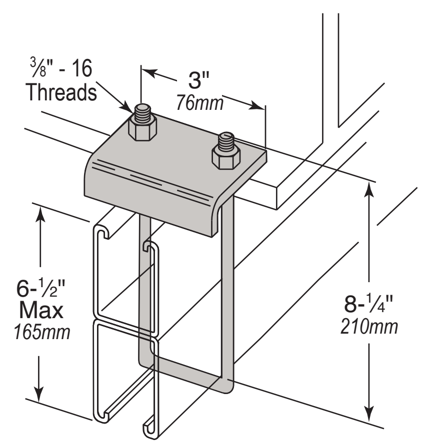
Strut to Beam Clamps with Square U-Bolt

For 2-7/16" & 3-¼" Channel



FLORIDA STRUT	VERSABAR	WESANCO	Allowable Load Lbs. *(kN)*
BC61	VX7038B	W5708	1,200 *(5.34 kN)*
Load capacity when used in pairs			

"U" Bolt Beam Clamps (Long) for 6-½" maximum

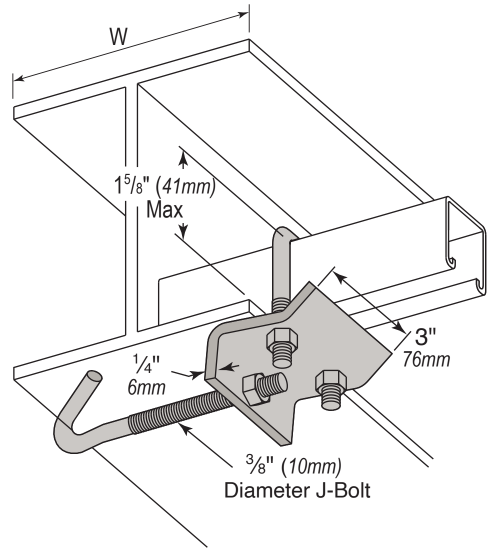


FLORIDA STRUT	VERSABAR	WESANCO	Allowable Load Lbs. *(kN)*
--	--	W5770	1,200 *(5.34 kN)*
Load capacity when used in pairs			

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

Strut to Beam Clamps with Square U-Bolt and J-Hook

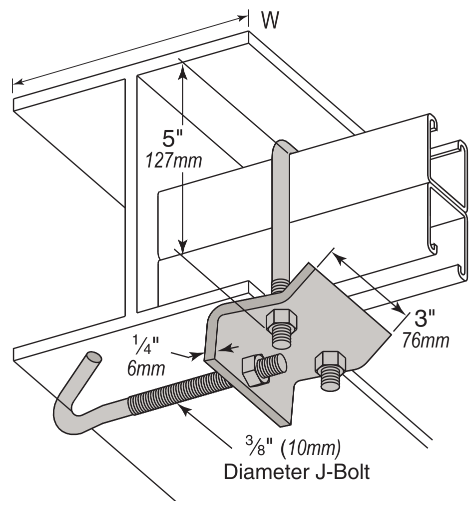
For 13⁄16" & 1-5⁄8"channel



FLORIDA STRUT	VERSABAR	WESANCO	For Flange Width "W"
BC620600	VX7041A4	W5771-6	4" thru- 6" *(102 thru 152mm)*
BC620900	VX7041A6	W5771-9	6" thru 9" *(152 thru 229mm)*
BC621200	VX7041A9	W5771-12	9" thru 12" *(229 thru 305mm)*
--	VX7041A12	W5771-15	12" thru 15" *(305 thru 378mm)*
--	--	W5771-18	15" thru 18" *(378 thru 457mm)*

Strut to Beam Clamps with Square U-Bolt and J-Hook

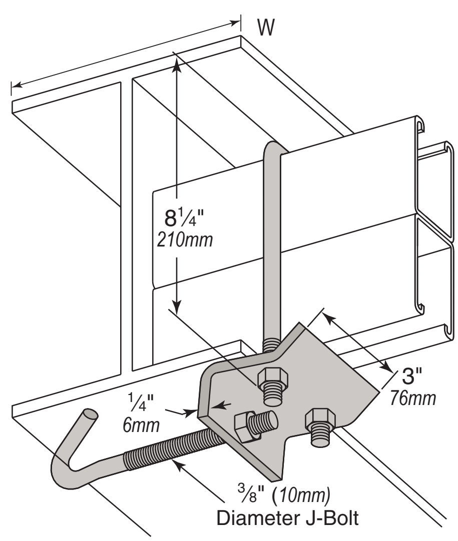
For 2-7⁄16" & 3-1⁄4" channel
• 1" Max. Flange Thickness



FLORIDA STRUT	VERSABAR	WESANCO	For Flange Width "W"
BC630600	VX7041B4	W5761	4" thru- 6" *(102 thru 152mm)*
BC630900	VX7041B6	W5761-9	6" thru 9" *(152 thru 229mm)*
BC631200	VX7041B9	W5761-12	9" thru 12" *(229 thru 305mm)*
--	VX7041B12	W5761-15	12" thru 15" *(305 thru 378mm)*
--	--	W5761-18	15" thru 18" *(378 thru 457mm)*

Strut to Beam Clamps with Square U-Bolt and J-Hook

For Back to Back 2-1⁄2", 2-7⁄16" & 3-1⁄4" channel
• 1" Max. Flange Thickness



FLORIDA STRUT	VERSABAR	WESANCO	For Flange Width "W"
BC690600	--	W5772-6	4" thru- 6" *(102 thru 152mm)*
BC690900	--	W5772-9	6" thru 9" *(152 thru 229mm)*
BC691200	--	W5772-12	9" thru 12" *(229 thru 305mm)*
--	--	W5772-15	12" thru 15" *(305 thru 378mm)*
--	--	W5772-18	15" thru 18" *(378 thru 457mm)*

Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

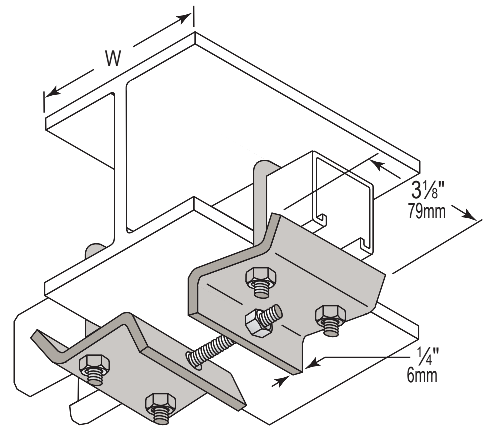
Standard Finish: Electro Galvanized (EG)

Strut to Beam Clamps with Two Square U-Bolts

For channel up to 1-⅝" Deep

Square U-bolts, rod and hex nuts included

FLORIDA STRUT	VERSABAR	WESANCO	Rod Length	For Flange Width "W"
--	VX7045A4	--	4" *(102mm)*	4" thru- 6" *(102 thru 152mm)*
--	VX7045A6	--	6" *(152mm)*	6" thru 9" *(152 thru 229mm)*
--	VX7045A9	--	9" *(229mm)*	9" thru 12" *(229 thru 305mm)*
--	VX7045A12	--	12" *(305mm)*	12" thru 15" *(305 thru 378mm)*

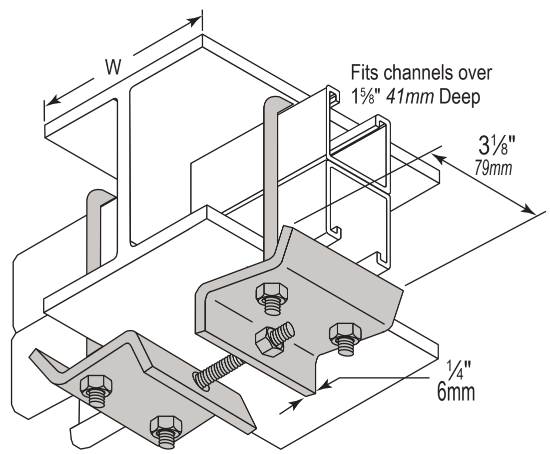


Strut to Beam Clamps with Two Square U-Bolts

For channel over 1-⅝" Deep

Square U-bolts, rod and hex nuts included

FLORIDA STRUT	VERSABAR	WESANCO	Rod Length	For Flange Width "W"
--	VX7045B4	--	4" *(102mm)*	4" thru- 6" *(102 thru 152mm)*
--	VX7045B6	--	6" *(152mm)*	6" thru 9" *(152 thru 229mm)*
--	VX7045B9	--	9" *(229mm)*	9" thru 12" *(229 thru 305mm)*
--	VX7045B12	--	12" *(305mm)*	12" thru 15" *(305 thru 378mm)*



Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

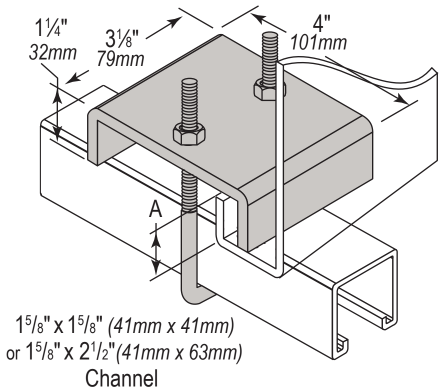
WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

Standard Finish: Electro Galvanized (EG)

One Piece Purlin Beam Clamp

For 13⁄16" & 1-5⁄8"channel

One piece purlin clamp set:
Includes U-bolt and hex nut

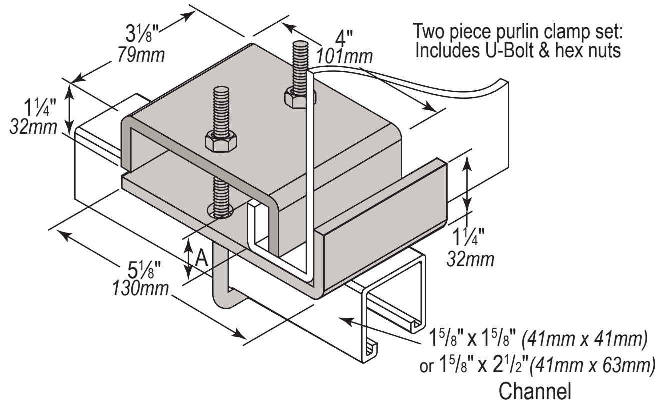


FLORIDA STRUT	VERSABAR	WESANCO	Maximum Purlin Lip Height "A"
--	VX9007	--	1" (25mm)

Two Piece Purlin Beam Clamp

For 13⁄16" & 1-5⁄8"channel

Two piece purlin clamp set:
Includes U-bolt and hex nut

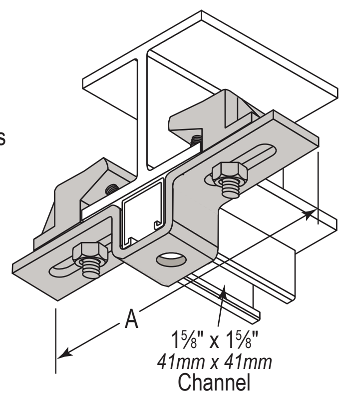


FLORIDA STRUT	VERSABAR	WESANCO	Maximum Purlin Lip Height "A"
--	VX9008	--	1" (25mm)

Combination Beam Clamp without Gusset

For 1-5⁄8" channel

Assembly Includes:
1 pair of cast iron beam clamps
Base Fitting
½" x 1-½" set screws
½" x 2-¼" HHCS & ½" Hex Nuts

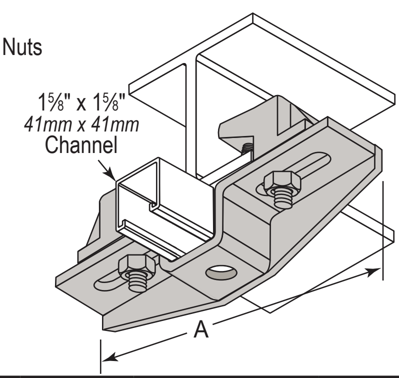


FLORIDA STRUT	VERSABAR	WESANCO	Flange Width Range	"A"
--	VF6302X	--	2⅜" to 4½" (60mm to 114mm)	7¼" (184mm)
--	VF6303X	--	3¾" to 5¾" (95mm to 146mm)	8½" (216mm)
--	VF6304X	--	5⅝" to 7⅝" (143mm to 194mm)	10⅜" (263mm)

Combination Beam Clamp with Gusset

For 1-5⁄8" channel

Assembly Includes:
1 pair of cast iron beam clamps
Base Fitting
½" x 1-½" set screws
½" x 2-¼" HHCS & ½" Hex Nuts



FLORIDA STRUT	VERSABAR	WESANCO	Flange Width Range	"A"
--	VF6305X	--	2⅜" to 4½" (60mm to 114mm)	7¼" (184mm)
--	VF6306X	--	3¾" to 5¾" (95mm to 146mm)	8½" (216mm)
--	VF6307X	--	5⅝" to 7⅝" (143mm to 194mm)	10⅜" (263mm)

Channel will NOT pass through fittings with gusset.

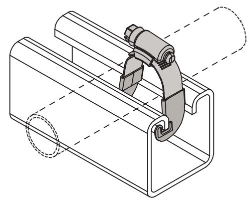
Opposing style clamps uniform loads are based on being used in pairs, installed against the flanges of the beam.
It is recommended that the beam be dimpled at set screw contact location.

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

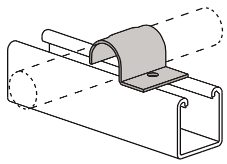
Pipe, Tube, & Conduit Supports

Pipe Clamps, Cushioned & Insulated Clamps & Support Saddles

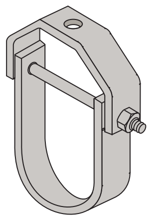
Strut Clamps
Pages 168 - 171



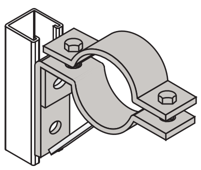
Tubing Clamps
Pages 172 - 173



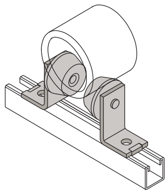
Pipe Hangers
Pages 173 - 179



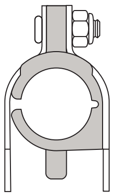
Pipe Brackets
Page 180



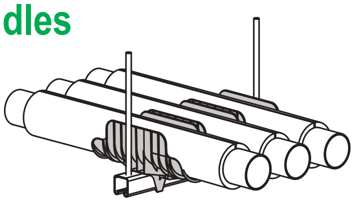
Pipe Rollers
Pages 181 - 182



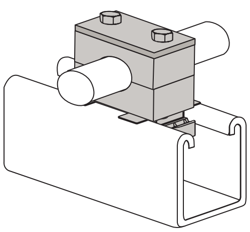
Cushioned Clamps
Pages 183 - 210



Pipe Insulation Saddles
Pages 211 - 224



Beta Clamps
Pages 225 - 226



Pipe Clamp Specifications

Material	ASTM	ASTM Description
Hot Rolled Plate	A 575	Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.
Fitting (Steel)	A 366	Steel carbon, cold rolled sheet, commercial quality structural steel.
	A 366	
	A 36	
Strip Steel: Pipe Clamps	A 569	Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.
Stainless Steel:	A 240 TYPE 304	Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel.
	A 240 TYPE 316	
Aluminum:	B 221	Aluminum alloy extruded bar, rod, wire, shape and tube.

Pipe Clamp Finish Specifications

Finish	Description
Paint-Green Powder Coating	A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.
Electroplated	Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.
Mill-Galvanized (Pre-Galvanized)	Galvanized steel used in the manufacture of channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present.
Hot Dip Galvanized After Fabrication	Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications. ASTM A 123, ASTM A153, or ASTM A386.
Special Coatings	Other commercially available finishes can be supplied per specification when required to protect applications. Plain, or Gold (Yellow Zinc Dichromate)

See page 25 for Material or Finish ordering codes for part numbers.

Standard Material: Stainless Steel

Strut Serpent®

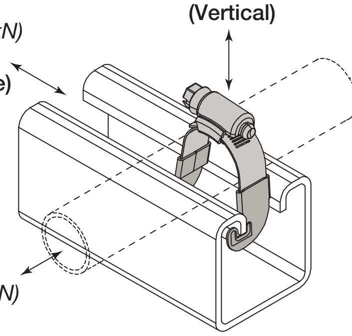
The Simplicity of the Strut Serpent!

Worm Gear Strut Clamp

Patent Pending

- Perfect for Trapeze Applications
- A significant reduction of 60% in labor costs to install.
- Worm Gear fastening method that ensures the proper torque-tension
- Directly Installs to Any Industry Standard Strut Profile.
- Electrical and Mechanical Applications
- Very Clean Appearance After the Assembly is Complete.
- Easy Relocation of Conduit, Pipe, or Tube Prior to Final Alignment.
- Secure the Conduit, Pipe, or Tube Above and/or Below the Strut

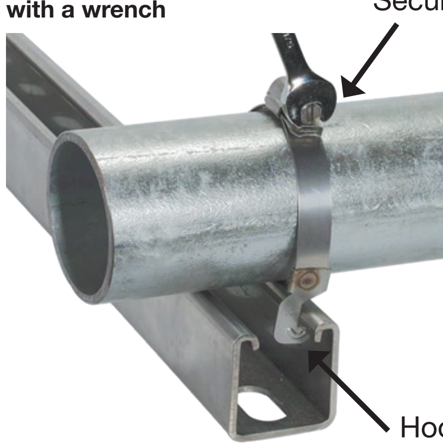
Part Number	Size	Outside Diameter	Conduit	Stainless Steel Material
SSEMT050	½" *(13mm)*	0.706 *(18mm)*	Electrical Metallic Tubing (EMT)	Type 301
SSEMT075	¾" *(19mm)*	0.922 *(23mm)*		
SSEMT100	1" *(25mm)*	1.163 *(30mm)*		
SSEMT125	1-¼" *(32mm)*	1.510 *(38mm)*		
SSEMT150	1-½" *(38mm)*	1.740 *(44mm)*		
SSEMT200	2" *(51mm)*	2.197 *(56mm)*		
SSGRC050	½" *(13mm)*	0.840 *(21mm)*	Galvanized Rigid Steel Conduit (GRC)	Type 301
SSGRC075	¾" *(19mm)*	1.050 *(27mm)*		
SSGRC100	1" *(25mm)*	1.315 *(33mm)*		
SSGRC125	1-¼" *(32mm)*	1.660 *(42mm)*		
SSGRC150	1-½" *(38mm)*	1.900 *(48mm)*		
SSGRC200	2" *(51mm)*	2.375 *(60mm)*		



Strut Serpent® – New Installations

Step 1: Place Strut Serpent over pipe and into channel

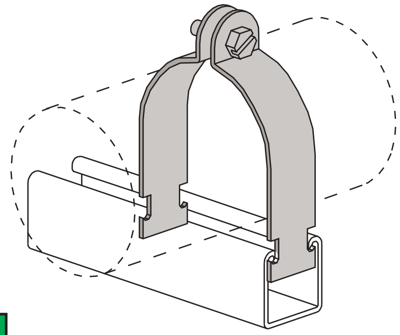
Step 2: Hook Teeth onto channel In-turned edges and Tighten with a wrench



Step 3: Completed. Simple!

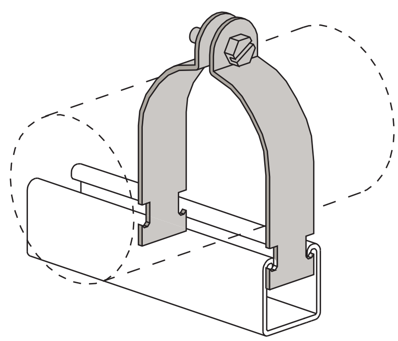
Standard Finish: Electro Galvanized (EG)

EMT Strut Clamp



FLORIDA STRUT	VERSABAR	WESANCO	EMT Size	O.D. Size	Allowable Load Lbs. *(kN)* (ea.)	Slotted Indented Hex Cap Screw
SCE0037	VPT1037	W6025A	3/8" *(10mm)*	0.577"	400 *(1.78 kN)*	1/4" x 3/4"
SCE0050	VPT1050	W6026A	1/2" *(13mm)*	0.706"		1/4" x 3/4"
SCE0075	VPT1075	W6028A	3/4" *(19mm)*	0.922"		1/4" x 3/4"
SCE0100	VPT1100	W6030A	1" *(25mm)*	1.163"	600 *(2.67 kN)*	1/4" x 3/4"
SCE0125	VPT1125	W6032A	1-1/4" *(32mm)*	1.510"		1/4" x 3/4"
SCE0150	VPT1150	W6034A	1-1/2" *(38mm)*	1.740"	800 *(3.56 kN)*	5/16" x 1"
SCE0200	VPT1200	W6038A	2" *(51mm)*	2.197"		5/16" x 1"
Each clamp consists of two halves, one kept nut and one slotted hex head cap screw.						

Rigid Strut Clamp



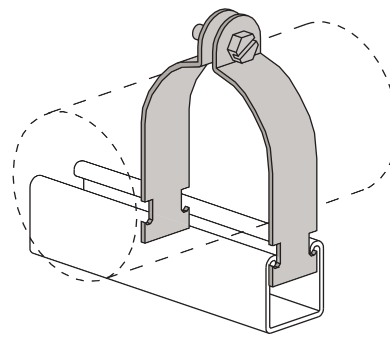
FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	O.D. Size	Allowable Load Lbs. *(kN)* (ea.)
SCR0012	--	--	1/8" *(3mm)*	0.405"	400 *(1.78 kN)*
SCR0025	--	--	1/4" *(6mm)*	0.540"	
SCR0037	VP1037	W6125A	3/8" *(10mm)*	0.675"	
SCR0050	VP1050	W6126A	1/2" *(13mm)*	0.840"	
SCR0075	VP1075	W6128A	3/4" *(19mm)*	1.050"	600 *(2.67 kN)*
SCR0100	VP1100	W6130A	1" *(25mm)*	1.315"	
SCR0125	VP1125	W6132A	1-1/4" *(32mm)*	1.660"	
SCR0150	VP1150	W6134A	1-1/2" *(38mm)*	1.900"	800 *(3.56 kN)*
SCR0200	VP1200	W6138A	2" *(51mm)*	2.375"	
SCR0250	VP9250	W6142A	2-1/2" *(64mm)*	2.875"	
SCR0300	VP9300	W6146A	3" *(76mm)*	3.500"	
SCR0350	VP9350	W6150A	3-1/2" *(89mm)*	4.000"	1,000 *(4.45 kN)*
SCR0400	VP9400	W6154A	4" *(102mm)*	4.500"	
--	VP1450	--	4-1/2" *(114mm)*	5.000"	
SCR0500	VP1500	W6162A	5" *(127mm)*	5.563"	
SCR0600	VP1600	W6170A	6" *(152mm)*	6.625"	
SCR0800	VP1800	W6174A	8" *(203mm)*	8.625"	
SCR1000	VP10000	W6176A	10" *(254mm)*	10.750"	
SCR1200	VP12000	W6178A	12" *(305mm)*	12.750"	
Each clamp consists of two halves one kept nut and one slotted hex head cap screw.					

IDEAL TRIDON GROUP

O.D. Strut Clamp

Standard Finish: Electro Galvanized (EG)

O.D. Size Range	Allowable Load (ea.)	Slotted Indented Hex Screw
¼" *(6mm)* - ⅞" *(22mm)*	400 *(1.78 kN)*	¼" x ¾"
1" *(25mm)* - 1-⅝" *(41mm)*	600 *(2.67 kN)*	¼" x ¾"
1-¾" *(44mm)* - 3-⅝" *(92mm)*	800 *(3.56 kN)*	5/16" x 1"
3-¾" *(95mm)* - 12-¾" *(324mm)*	1,000 *(4.45 kN)*	⅜" x 1-¼"

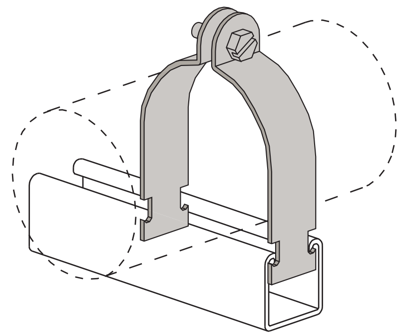


FLORIDA STRUT	VERSABAR	WESANCO	O.D. Size
SCO0025	VT1025	W6224A	¼" *(6mm)*
SCO0037	VT1037	W6225A	⅜" *(10mm)*
SCO0050	VT1050	W6226A	½" *(13mm)*
SCO0062	VT1062	W6227A	⅝" *(16mm)*
SCO0075	VT1075	W6228A	¾" *(19mm)*
SCO0087	VT1087	W6229A	⅞" *(22mm)*
SCO0100	VT1100	W6230A	1" *(25mm)*
SCO0112	VT1112	W6231A	1-⅛" *(29mm)*
SCO0125	VT1125	W6232A	1-¼" *(32mm)*
SCO0137	VT1137	W6233A	1-⅜" *(35mm)*
SCO0150	VT1150	W6234A	1-½" *(38mm)*
SCO0162	VT1162	W6235A	1-⅝" *(41mm)*
SCO0175	VT1175	W6034A	1-¾" *(44mm)*
SCO0187	VT1187	W6237A	1-⅞" *(48mm)*
SCO0200	VT1200	W6238A	2" *(51mm)*
SCO0212	VT1212	W6239A	2-⅛" *(54mm)*
SCO0225	VT1225	W6240A	2-¼" *(57mm)*
SCO0237	VT1237	W6138A	2-⅜" *(60mm)*
SCO0250	VT1250	W6242A	2-½" *(64mm)*
SCO0262	VT1262	W6243A	2-⅝" *(67mm)*
SCO0275	VT1275	W6244A	2-¾" *(70mm)*
SCO0287	VT1287	W6142A	2-⅞" *(73mm)*
SCO0300	VT1300	W6246A	3" *(76mm)*
SCO0312	VT1312	W6247A	3-⅛" *(79mm)*
SCO0325	VT1325	W6248A	3-¼" *(83mm)*
SCO0337	VT1337	W6249A	3-⅜" *(86mm)*
SCO0350	VT1350	W6146A	3-½" *(89mm)*
SCO0362	VT1362	W6251A	3-⅝" *(92mm)*
SCO0375	VT1375	W6252A	3-¾" *(95mm)*
SCO0387	VT1387	W6253A	3-⅞" *(98mm)*
SCO0400	VT1400	W6150A	4" *(102mm)*
SCO0412	VT1412	W6255A	4-⅛" *(105mm)*
SCO0425	VT1425	W6256A	4-¼" *(108mm)*
SCO0437	VT1437	W6257A	4-⅜" *(111mm)*
SCO0450	VT1450	W6154A	4-½" *(114mm)*
SCO0462	VT1462	W6259A	4-⅝" *(118mm)*
SCO0475	VT1475	W6260A	4-¾" *(121mm)*
SCO0487	VT1487	W6261A	4-⅞" *(124mm)*

FLORIDA STRUT	VERSABAR	WESANCO	O.D. Size
SCO0500	VT1500	W6262A	5" *(127mm)*
SCO0512	VT1512	W6263A	5-⅛" *(130mm)*
SCO0525	VT1525	W6264A	5-¼" *(133mm)*
SCO0537	VT1537	W6265A	5-⅜" *(137mm)*
SCO0550	VT1550	W6266A	5-½" *(140mm)*
SCO0562	VT1562	W6267A	5-⅝" *(143mm)*
SCO0575	VT1575	W6268A	5-¾" *(146mm)*
SCO0587	VT1587	W6269A	5-⅞" *(149mm)*
SCO0600	VT1600	W6270A	6" *(152mm)*
SCO0612	VT1612	W6271A	6-⅛" *(156mm)*
SCO0625	VT1625	W6271A	6-¼" *(159mm)*
SCO0637	VT1637	W6271B	6-⅜" *(162mm)*
SCO0650	VT1650	W6271C	6-½" *(165mm)*
SCO0662	VT1662	W6275A	6-⅝" *(168mm)*
SCO0675	VT1675	W6271D	6-¾" *(172mm)*
SCO0687	VT1687	W6279A	6-⅞" *(175mm)*
SCO0700	VT1700	W6272A	7" *(178mm)*
SCO0712	VT1712	W6281A	7-⅛" *(181mm)*
SCO0725	VT1725	--	7-¼" *(184mm)*
SCO0737	VT1737	W6280A	7-⅜" *(187mm)*
SCO0750	VT1750	--	7-½" *(191mm)*
SCO0762	VT1762	W6281AA	7-⅝" *(194mm)*
SCO0775	VT1775	--	7-¾" *(197mm)*
SCO0787	VT1787	W6281BA	7-⅞" *(200mm)*
SCO0800	VT1800	W6274A	8" (203mm)
SCO0812	VT1812	W6276A	8-⅛" *(206mm)*
SCO0825	VT1825	W6276AA	8-¼" *(210mm)*
SCO0837	VT1837	W6276BA	8-⅜" *(213mm)*
SCO0850	VT1850	W6277A	8-½" *(216mm)*
SCO0862	VT1862	W6277AA	8-⅝" *(219mm)*
SCO0875	VT1887	W6277CA	8-¾" *(222mm)*
SCO1000	VT10000	W6278A	10" *(254mm)*
SCO1075	VT10075	--	10-¾" *(273mm)*
SCO1137	VT11037	--	11-⅜" *(289mm)*
SCO1200	VT12000	W6282A	12" *(305mm)*
SCO1275	VT12075	--	12-¾" *(324mm)*

Standard Finish: Electro Galvanized (EG)

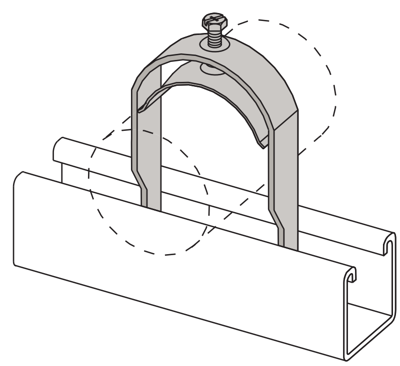
Universal Strut Clamp



FLORIDA STRUT	VERSABAR	WESANCO	Nominal Size	O.D. Size	Allowable Load Lbs. *(kN)* (ea.)
--	VP9037	--	⅜" *(13mm)*		400 *(1.78 kN)*
SCU0050	VP9050	W6056AS	½" *(13mm)*	0.773	
SCU0075	VP9075	W6058AS	¾" *(19mm)*	0.986	600 *(2.67 kN)*
SCU0100	VP9100	W6060AS	1" *(25mm)*	1.239	
SCU0125	VP9125	W6062AS	1-¼" *(32mm)*	1.585	
SCU0150	VP9150	W6064AS	1-½" *(38mm)*	1.820	800 *(3.56 kN)*
SCU0200	VP9200	W6068AS	2" *(51mm)*	2.286	
--	VP9250	--	2-½" *(64mm)*		
--	VP9300	--	3" *(76mm)*		
--	VP9350	--	3-½" *(89mm)*		1,000 *(4.45 kN)*
--	VP9400	--	4" *(102mm)*		

* These clamps are designed to fit both pipe (rigid conduit) and thin walled tubing (EMT) in the corresponding sizes.
Versabar part numbers add the suffix "-UA" for Unassembled Style.

Rigid Conduit One Piece Pipe Clamp



FLORIDA STRUT	VERSABAR	WESANCO	EMT Size	Rigid Conduit Size	Design Load
SCH0050	BMU050	BMU050	½" *(13mm)*	– –	200 *(0.89 kN)*
SCH0075	BMU075	BMU075	¾" *(19mm)*	½" *(13mm)*	
SCH0100	BMU100	BMU100	1" *(25mm)*	¾" *(19mm)*	300 *(1.33 kN)*
SCH0125	BMU125	BMU125	1¼" *(32mm)*	1" *(25mm)*	
SCH0150	BMU150	BMU150	1½" *(38mm)*	1¼" *(32mm)*	400 *(1.78 kN)*
SCH0200	BMU200	BMU200	2" *(51mm)*	1½" *(38mm)*	
SCH0250	BMU250	BMU250	2½" *(64mm)*	2½" *(64mm)*	
SCH0300	BMU300	BMU300	3" *(76mm)*	3" *(76mm)*	
SCH0350	BMU350	BMU350	3½" *(89mm)*	3½" *(89mm)*	
SCH0400	BMU400	BMU400	4" *(102mm)*	4" *(102mm)*	

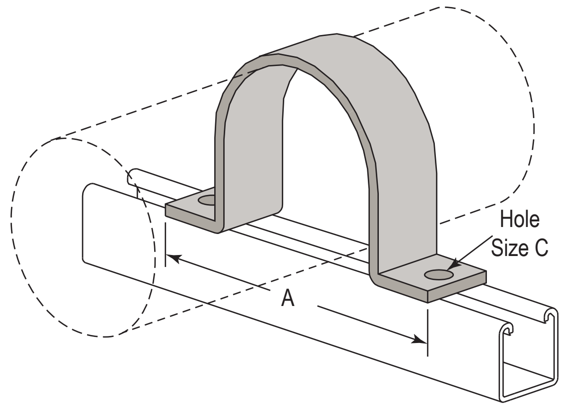
IDEAL TRIDON GROUP

Tube Clamps

Standard Finish: Electro Galvanized (EG)

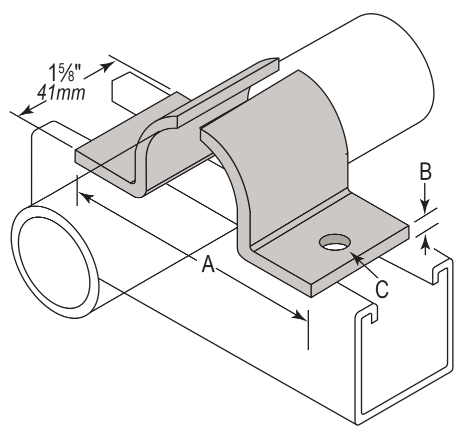
Pipe Strap

FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	"A" Length	"C" Hole Size
PS20050	VP4050	W7826	½"	15/16" *(24mm)*	5/16" *(7.9mm)*
PS20075	VP4075	W7828	¾"	1" *(25mm)*	
PS20100	VP4100	W7830	1"	1-⅛" *(29mm)*	
PS20125	VP4125	W7832	1-¼"	1-5/16" *(33mm)*	
PS20150	VP4150	W7834	1-½"	1-7/16" *(37mm)*	
PS20200	VP4200	W7838	2"	2-⅛" *(54mm)*	7/16" *(11.1mm)*
PS20250	VP4250	W7842	2-½"	2-⅜" *(60mm)*	
PS20300	VP4300	W7846	3"	2-11/16" *(68mm)*	
PS20350	VP4350	W7850	3-½"	2-15/16" *(75mm)*	
PS20400	VP4400	W7854	4"	3-3/16" *(81mm)*	
PS20500	VP4500	W7862	5"	3-¾" *(95mm)*	
PS20600	VP4600	W7870	6"	4-¼" *(108mm)*	



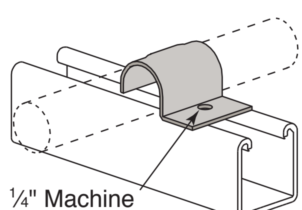
Split Standard Straps

FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	"A" Length	"C" Hole Size
--	VP5100	--	1"	3-5/16" *(84mm)*	9/32" *(7.1mm)*
--	VP5125	--	1-¼"	3-11/16" *(94mm)*	
--	VP5150	--	1-½"	3-15/16" *(100mm)*	
--	VP5200	--	2"	6" *(152mm)*	7/16" *(11.1mm)*
--	VP5250	--	2-½"	6-½" *(165mm)*	
--	VP5300	--	3"	7-⅛" *(181mm)*	
--	VP5350	--	3-½"	7-¾" *(197mm)*	9/16" *(14.2mm)*
--	VP5400	--	4"	8-¼" *(209mm)*	
--	VP5500	--	5"	9-5/16" *(237mm)*	
--	VP5600	--	6"	10-⅜" *(264mm)*	



1-Hole O.D. Tubing Clamp

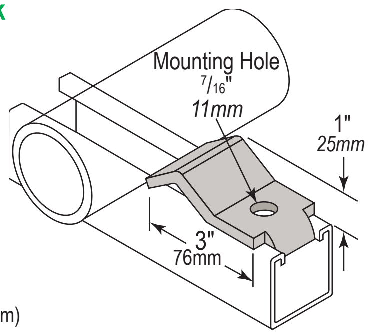
FLORIDA STRUT	VERSABAR	WESANCO	O.D. Tube Size	CL
TC10025	VT2025	W7724	¼"	9/16" *(14mm)*
TC10031	VT2031	W7724A	5/16"	9/16" *(14mm)*
TC10037	VT2037	W7725	⅜"	⅝" *(16mm)*
TC10050	VT2050	W7726	½"	11/16" *(17mm)*
TC10062	VT2062	W7727	⅝"	¾" *(19mm)*
TC10075	VT2075	W7728	¾"	13/16" *(21mm)*
TC10087	VT2087	W7729	⅞"	⅞" *(22mm)*
TC10100	VT2100	W7730	1"	15/16" *(24mm)*
TC10125	--	--	1-¼"	1-1/16" *(27mm)*
TC10150	--	--	1-½"	1-3/16" *(30mm)*
TC10200	--	--	2"	1-7/16" *(37mm)*



¼" Machine
Screw and Strut Nut
Not Included

Standard Finish: Electro Galvanized (EG)

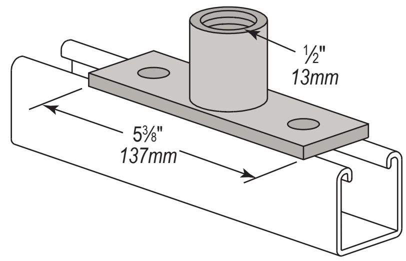
Knee Type Pipe Block



Inhibits lateral motion on 2" (51mm) thru 8" (203mm) standard Pipe

FLORIDA STRUT	VERSABAR	WESANCO
--	VF7108	--

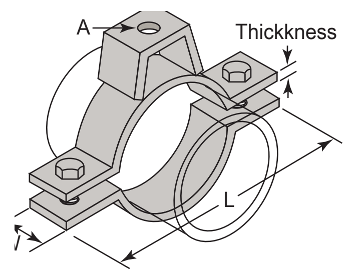
Pipe Coupling Fitting



FLORIDA STRUT	VERSABAR	WESANCO
--	--	W247050

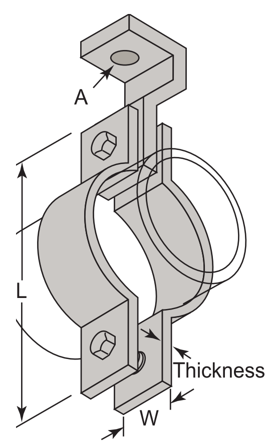
Rod Suspension Pipe Clamp

FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	Thickness	Dim "L"	Dim "A"	Dim "W"
--	VP10075	--	¾" (19mm)	⅛" (3.1mm)	3-15/16" (100mm)	7/16" (11mm)	1" (25mm)
--	VP10100	--	1" (25mm)		3-¾" (95mm)		
--	VP10125	--	1-¼" (32mm)		4" (101mm)		
--	VP10150	--	1-½" (38mm)		4-5/16" (109mm)		
--	VP10200	--	2" (51mm)	¼" (6.3mm)	5-½" (140mm)		
--	VP10250	--	2-½" (64mm)		6-⅜" (162mm)	9/16" (14mm)	
--	VP10300	--	3" (76mm)		7" (178mm)		
--	VP10350	--	3-½" (89mm)		7-9/16" (192mm)		
--	VP10400	--	4" (102mm)		8-⅝" (219mm)		1-¼" (32mm)
--	VP10500	--	5" (127mm)		9-¾" (247mm)	11/16" (17mm)	
--	VP10600	--	6" (152mm)	⅜" (9.5mm)	11-⅝" (295mm)	¾" (19mm)	1-½" (38mm)
--	VP10800	--	8" (203mm)		13-⅞" (352mm)	⅞" (22mm)	
2" thru 5" can be manufactured in stainless steel							



Rod Suspension Pipe Clamp

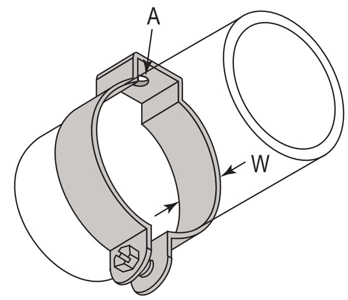
FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	Thickness	Dim "L"	Dim "A"	Dim "W"
--	VP11075	--	¾" (19mm)	⅛" (3.1mm)	3-15/16" (100mm)	7/16" (11mm)	1" (25mm)
--	VP11100	--	1" (25mm)		3-¾" (95mm)		
--	VP11125	--	1-¼" (32mm)		4" (101mm)		
--	VP11150	--	1-½" (38mm)		4-5/16" (109mm)		
--	VP11200	--	2" (51mm)	¼" (6.3mm)	5-½" (140mm)		
--	VP11250	--	2-½" (64mm)		6-⅜" (162mm)	9/16" (14mm)	
--	VP11300	--	3" (76mm)		7" (178mm)		
--	VP11350	--	3-½" (89mm)		7-9/16" (192mm)		
--	VP11400	--	4" (102mm)		8-⅝" (219mm)		1-¼" (32mm)
--	VP11500	--	5" (127mm)		9-¾" (247mm)	11/16" (17mm)	
--	VP11600	--	6" (152mm)	⅜" (9.5mm)	11-⅝" (295mm)	¾" (19mm)	1-½" (38mm)
--	VP11800	--	8" (203mm)		13-⅞" (352mm)	⅞" (22mm)	
2" thru 5" can be manufactured in stainless steel							



Standard Finish: Electro Galvanized (EG)

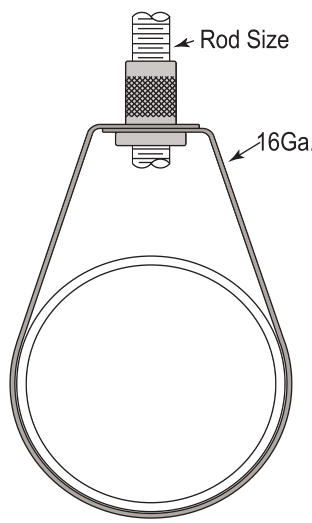
Conduit Hangers

FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	Stock Gauge	"A" Dim.	"W" Dim.
--	VP13050	--	½" *(13mm)*	18 ga. (1.3mm)	⁹⁄₃₂" *(7.1mm)*	¾" *(19mm)*
--	VP13075	--	¾" *(19mm)*			¾" *(19mm)*
--	VP13100	--	1" *(25mm)*			
--	VP13125	--	1-¼" *(32mm)*			
--	VP13150	--	1-½" *(38mm)*	16 ga. (1.3mm)	¹¹⁄₃₂" *(8.7mm)*	
--	VP13200	--	2" *(51mm)*			⁷⁄₁₆" *(11.1mm)*
--	VP13250	--	2-½" *(64mm)*			
--	VP13300	--	3" *(76mm)*			
--	VP13350	--	3-½" *(89mm)*			
--	VP13400	--	4" *(102mm)*			



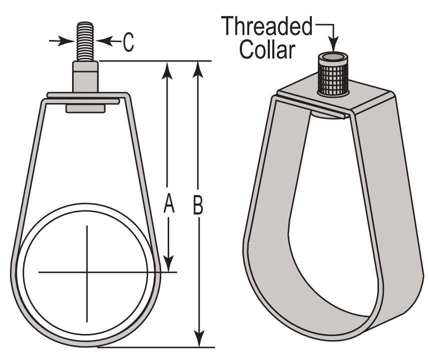
Loop Hangers

FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	Rod Size	Max Rec Load (Lbs.)
LH0050EG	--	--	½" *(13mm)*	⅜"	400 *(1.78 kN)*
LH0075EG	--	--	¾" *(19mm)*		
LH0100EG	--	--	1" *(25mm)*		
LH0125EG	--	--	1-¼" *(32mm)*		
LH0150EG	--	--	1-½" *(38mm)*		
LH0200EG	--	--	2" *(51mm)*		
LH0250EG	--	--	2-½" *(64mm)*		600 *(2.67 kN)*
LH0300EG	--	--	3" *(76mm)*		
LH0400EG	--	--	4" *(102mm)*		1,000 *(4.45 kN)*
LH0500EG	--	--	5" *(127mm)*	½"	1,250 *(5.56 kN)*
LH0600EG	--	--	6" *(152mm)*		
LH0800EG	--	--	8" (203mm)		



Adjustable Swivel Ring Hangers

FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	Rod Size C	A	B	Stock Size
--	VP7050	--	½" *(13mm)*	⅜"-16	2-⅝" *(67mm)*	3-³⁄₁₆" *(81mm)*	16ga. x ⅝"
--	VP7075	--	¾" *(19mm)*		2-½" *(64mm)*	3-³⁄₁₆" *(81mm)*	
--	VP7100	--	1" *(25mm)*		2-⅝" *(67mm)*	3-⅜" *(86mm)*	
--	VP7125	--	1-¼" *(32mm)*		2-¾" *(70mm)*	3-¾" *(95mm)*	
--	VP7150	--	1-½" *(38mm)*		2-⅞" *(73mm)*	4" *(102mm)*	
--	VP7200	--	2" *(51mm)*		3-¼" *(83mm)*	4-⅝" *(117mm)*	
--	VP7250	--	2-½" *(64mm)*	½"-13	3-¾" *(95mm)*	5-⅝" *(143mm)*	13ga. x ¾"
--	VP7300	--	3" *(76mm)*		4-½" *(114mm)*	6-¼" *(159mm)*	
--	VP7350	--	3-½" *(89mm)*		5" *(127mm)*	7" *(178mm)*	
--	VP7400	--	4" *(102mm)*	⅝"-11	5" *(127mm)*	7-⅜" *(188mm)*	11ga. x 1"
--	VP7500	--	5" *(127mm)*		6" *(152mm)*	9-⅛" *(232mm)*	
--	VP7600	--	6" *(152mm)*	¾"-10	7-¼" *(184mm)*	10-⅝" *(270mm)*	
--	VP7800	--	8" (203mm)		8-⅞" *(225mm)*	13-⅛" *(333mm)*	



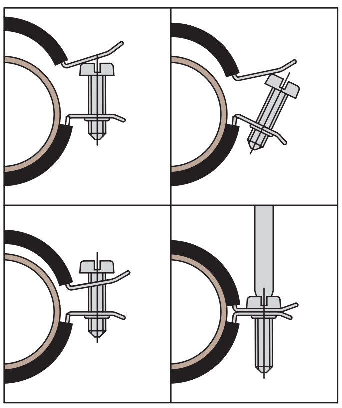
"EM-LOK" Style hangers are approved for use without additional locking nuts, which are normally required with pipe hangers.

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

SPH Cush-A-Ring Clamps

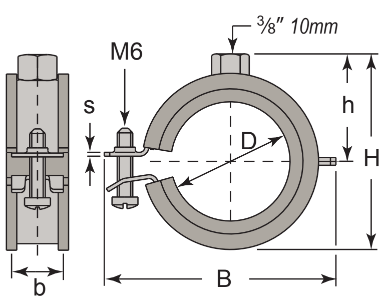
SPH Cush-A-Ring Clamp for Copper Tube or Steel Tube or Pipe

The **Cush-A-Ring** is a unique rubber lined hanger for copper and steel tube or pipe. The SPH-1 thru SPH-10 is a two-part clamp that has a hinged side with a single screw locking system. The quick locking system is easy to close with one hand, which makes it easier and faster for installation. The noise insulating rubber lining is made of UV-resistant EPDM rubber. The Cush-A-Ring is zinc plated for corrosion resistance.



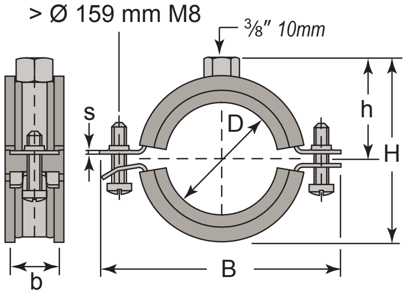
- Rubber lined, noise insulated, Lining resistant to aging
- With quick locking system
- Clamp easy to close with one hand
- UV-resistant black EPDM rubber lining
- Zinc plated
- Plenum rated - tested to ASTM E-84
- Meets - Buy America Act
- Temperature range -58°F to +200°F (-50°C to 93°C)

SPH-1 thru SPH-10



SPH-11 thru SPH-14

< Ø 141 mm M6
> Ø 159 mm M8



Part No.	Dimensions (in)						
	D (mm)	IP	CT	B	H	h	b x s (mm)
SPH-1	11 – 14	¼" (6mm)	⅜" (10mm)	1.9" (48mm)	1.4" (36mm)	0.87" (22mm)	
SPH-2	15 – 18	⅜" (10mm)	½" (13mm)	1.9" (48mm)	1.4" (36mm)	0.87" (22mm)	
SPH-3	20 – 23	½" (13mm)	¾" (19mm)	2.2" (56mm)	1.6" (41mm)	0.94" (24mm)	
SPH-4	25 – 28	¾" (19mm)	1" (25mm)	2.4" (61mm)	1.8" (46mm)	1.10" (28mm)	
SPH-5	31 – 35	1" (25mm)	1-¼" (32mm)	2.6" (66mm)	2.0" (51mm)	1.20" (30mm)	20 x 1.25
SPH-6	40 – 43	1-¼" (32mm)	1-½" (38mm)	3.0" (76mm)	2.4" (61mm)	1.30" (33mm)	
SPH-7	48 – 53	1-½" (38mm)	-	3.3" (84mm)	2.6" (66mm)	1.50" (38mm)	
SPH-8	54 – 56	-	2" (51mm)	3.5" (89mm)	2.8" (71mm)	1.60" (41mm)	
SPH-9	57 – 63	2" (51mm)	-	3.7" (94mm)	3.1" (79mm)	1.70" (43mm)	
SPH-10	64-70	-	2-½" (64mm)	4.5" (114mm)	3.9" (99mm)	2.20" (56mm)	23 x 2.00
Below parts have 2 bolt configurations							
SPH-11	73-80	2-½" (64 mm)	3" (76 mm)	5.0" (127 mm)	4.3" (109 mm)	2.40" (61 mm)	23 x 2.00
SPH-12	83-91	3" (76 mm)	-	5.4" (137 mm)	4.8" (122 mm)	2.60" (66 mm)	
SPH-13	100- 105	-	4" (102 mm)	6.0" (152 mm)	5.3" (135 mm)	2.90" (74 mm)	25 x 2.50
SPH-14	108-114	4" (102 mm)	-	6.3" (160 mm)	5.7" (145 mm)	3.10" (79 mm)	

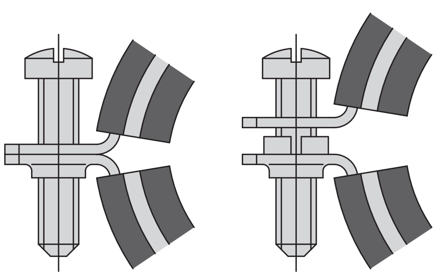
Standard Finish: Electro Galvanized (EG)

SPP Cush-A-Ring Clamps

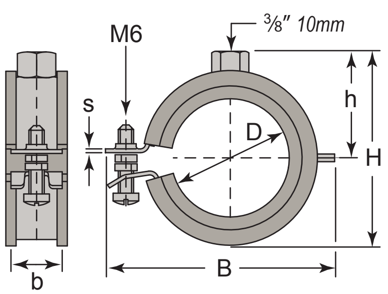
SPP Cush-A-Ring Clamp for PEX, CPVC, or PVC Pipe

The **Cush-A-Ring** is a unique rubber lined hanger for PEX, CPVC, and PVC pipe. The SPP-1 thru SPP-10 has a two-part clamp with a hinged side and a single screw locking system. The quick locking system is easy to close with one hand, which makes it easier and faster for installation. The noise insulating rubber lining is made of UV-resistant EPDM rubber. The Cush-A-Ring is zinc plated for corrosion resistance.

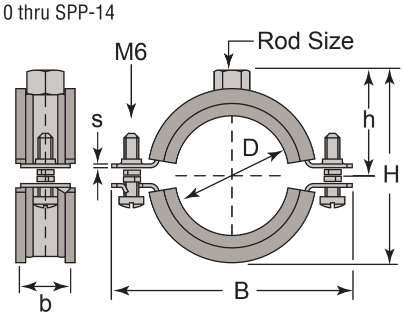
- With quick locking system
- Clamp easy to close with one hand
- Specially formulated, green, UV, and age resistant EPDM rubber lining
- Perfect for PEX, Fusion, CPVC, and PVC pipe
- ASTM E-84
- Complies with MSS SP-58 and SP-69
- Material steel, zinc plated



SPP-1 thru SPP-9



SPP-10 thru SPP-14

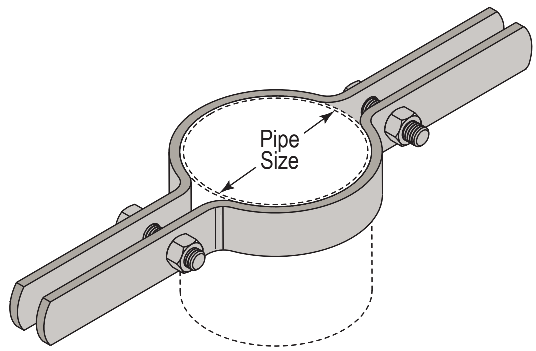


Part No.	Dimensions (in)						Rod Size
	D	IP	CT	B	H	h	
SPP-2	15 – 18	3/8" (10mm)	1/2" (13mm)	1.9" (48mm)	1.4" (36mm)	0.87" (22mm)	
SPP-3	20 – 23	1/2" (13mm)	3/4" (19mm)	2.2" (56mm)	1.7" (43mm)	0.94" (24mm)	
SPP-4	25 – 28	3/4" (19mm)	1" (25mm)	2.4" (61mm)	1.9" (48mm)	1.0" (25mm)	
SPP-5	31 – 35	1" (25mm)	1-1/4" (32mm)	2.6" (66mm)	2.2" (56mm)	1.2" (30mm)	
SPP-6	40 – 43	1-1/4" (32mm)	1-1/2" (38mm)	3.0" (76mm)	2.6" (66mm)	1.3" (33mm)	3/8" (10mm)
SPP-7	48 – 53	1-1/2" (38mm)	-	3.3" (84mm)	3.0" (76mm)	1.5" (38mm)	
SPP-8	54 – 56	-	2" (51mm)	3.5" (89mm)	3.0" (76mm)	1.6" (41mm)	
SPP-9	60 – 65	2" (51mm)	-	4.3" (109mm)	3.4" (86mm)	1.7" (43mm)	
SPP-10	70 – 76	2-1/2" (64mm)	-	4.9" (124mm)	4.1" (104mm)	2.2" (56mm)	
Below parts have 2 bolt configurations							
SPP-11	86 – 91	3" (76mm)	-	5.4" (137mm)	4.6" (117mm)	2.4" (61mm)	3/8" (10mm)
SPP-12	110 – 114	4" (102mm)	-	6.3" (160mm)	5.8" (147mm)	2.9" (74mm)	
SPP-13	124 – 132	-	-	6.8" (173mm)	5.9" (150mm)	3.1" (79mm)	1/2" (13mm)
SPP-14	155 – 160	-	-	8.0" (203mm)	7.4" (188mm)	3.9" (99mm)	

Standard Finish: Electro Galvanized (EG)

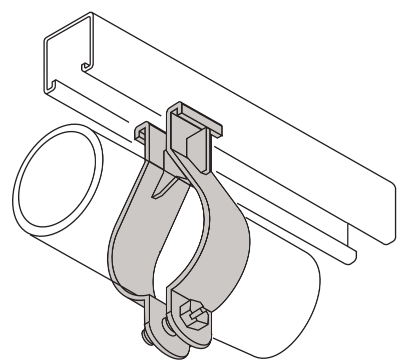
Pipe Riser Clamps

FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	Max Rec Load (Lbs.)
--	VP8075	--	¾" *(19mm)*	220 *(0.98 kN)*
RC0100	VP8100	--	1" *(25mm)*	255 *(1.13 kN)*
RC0125	VP8125	--	1-¼" *(32mm)*	
RC0150	VP8150	--	1-½" *(38mm)*	
RC0200	VP8200	--	2" *(51mm)*	
RC0250	VP8250	--	2-½" *(64mm)*	390 *(1.74 kN)*
RC0300	VP8300	--	3" *(76mm)*	530 *(2.36 kN)*
--	VP8350	--	3-½" *(89mm)*	600 *(2.67 kN)*
RC0400	VP8400	--	4" *(102mm)*	810 *(3.60 kN)*
--	VP8500	--	5" *(127mm)*	1,500 *(6.67 kN)*
RC0600	VP8600	--	6" *(152mm)*	1,570 *(6.98 kN)*
RC0800	VP8800	--	8" (203mm)	2,500 *(11.12 kN)*



Parallel Pipe Clamps

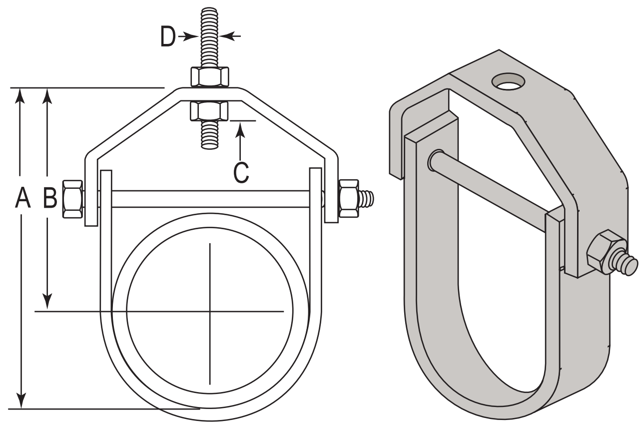
FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	Actual O.D.	Design Load (Lbs.)
--	VP6037	--	⅜" *(10mm)*	0.675" *(17.1mm)*	300 *(1.35 kN)*
--	VP6050	--	½" *(13mm)*	0.840" *(21.3mm)*	
--	VP6075	--	¾" *(19mm)*	1.050" *(26.7mm)*	
--	VP6100	--	1" *(25mm)*	1.315" *(33.4mm)*	400 *(1.80 kN)*
--	VP6125	--	1-¼" *(32mm)*	1.660" *(42.2mm)*	
--	VP6150	--	1-½" *(38mm)*	1.900" *(48.3mm)*	500 *(2.25 kN)*
--	VP6200	--	2" *(51mm)*	2.375" *(60.3mm)*	
--	VP6250	--	2-½" *(64mm)*	2.875" *(73.0mm)*	
--	VP6300	--	3" *(76mm)*	3.500" *(88.9mm)*	
--	VP6350	--	3-½" *(89mm)*	4.000" *(101.6mm)*	
--	VP6400	--	4" *(102mm)*	4.500" *(114.3mm)*	



Standard Finish: Electro Galvanized (EG)

Standard Adjustable Clevis Hangers

For: Non-Insulated, stationary pipe lines. General piping, heating and sprinkler installations. * Also available: Stainless, Hot-Dipped, and Black H.R.P.O., (Larger sizes for up to 30" rigid pipe can be supplied)



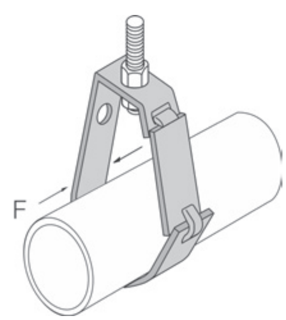
FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	A	B	C	Rod Size D	Design Load (Lbs.)
CH0050	VP2050	--	½" (13mm)	2-⅛" (54mm)	1-11/16" (43mm)	7/16" (11mm)	⅜" (10mm)	610 (2.71 kN)
CH0075	VP2075	--	¾" (19mm)	2-7/16" (62mm)	1-⅞" (48mm)	½" (13mm)		
CH0100	VP2100	--	1" (25mm)	2-13/16" (71mm)	2-⅛" (54mm)	⅝" (16mm)		
CH0125	VP2125	--	1-¼" (32mm)	3-7/16" (87mm)	2-9/16" (65mm)	⅞" (22mm)		
CH0150	VP2150	--	1-½" (38mm)	4" (102mm)	3" (76mm)	1-1/16" (27mm)		
CH0200	VP2200	--	2" (51mm)	4-⅞" (124mm)	3-11/16" (94mm)	1-⅝" (41mm)		
CH0250	VP2250	--	2-½" (64mm)	6-⅛" (156mm)	4-11/16" (119mm)	2" (51mm)	½" (13mm)	1,130 (5.03 kN)
CH0300	VP2300	--	3" (76mm)	6-9/16" (166mm)	4-¾" (121mm)	1-¾" (44mm)		
--	VP2350	--	3-½" (89mm)	6-15/16" (176mm)	4-15/16" (125mm)	1-¾" (44mm)		
CH0400	VP2400	--	4" (102mm)	7-13/16" (199mm)	5-9/16" (142mm)	1-15/16" (49mm)	⅝" (16mm)	
--	VP2500	--	5" (127mm)	9" (229mm)	6-3/16" (158mm)	1-¾" (44mm)		--
--	VP2600	--	6" (152mm)	10-⅛" (257mm)	6-13/16" (173mm)	1-⅞" (48mm)	¾" (19mm)	--
--	VP2800	--	8" (203mm)	12-⅝" (321mm)	8-5/16" (212mm)	2-⅛" (54mm)	⅞" (22mm)	--

*A & B Dimensions may vary

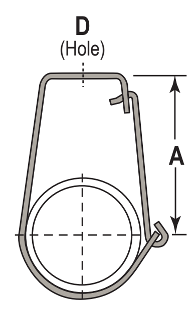
Side Opening Hangers

Swing Hinge Design

Can be supported by rod or bolted directly to wall.
Hanger is rigid enough to hold pipe prior to closure



FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	A	D	F
--	VP3050	--	½" (13mm)	2-7/16" (62mm)	⅜" (10mm)	¾" (19mm)
--	VP3075	--	¾" (19mm)	2-½" (64mm)		
--	VP3100	--	1" (25mm)	2-9/16" (65mm)		
--	VP3125	--	1-¼" (32mm)	2-11/16" (68mm)		
--	VP3150	--	1-½" (38mm)	2-⅞" (73mm)		
--	VP3200	--	2" (51mm)	3-5/16" (84mm)		
--	VP3250	--	2-½" (64mm)	3-⅞" (98mm)	½" (13mm)	1-¼" (32mm)
--	VP3300	--	3" (76mm)	4-⅛" (105mm)		
--	VP3350	--	3-½" (89mm)	4-⅝" (117mm)		
--	VP3400	--	4" (102mm)	5" (127mm)	⅝" (16mm)	

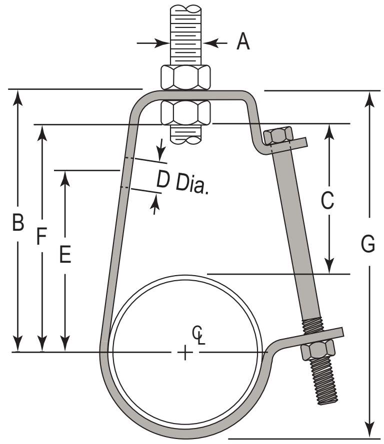


WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

Standard Finish: Electro Galvanized (EG)

J-Hanger

Finish: Electro Galvanized (standard) or Stainless Steel
Size Range: ½" thru 4" *(13mm to 102mm)* Pipe
Material: Carbon Steel
Function: Can be suspended by hanger rod or attached to a wall. "T" slot in hanger permits side bolt to be installed after installation and setting of pipe.
Approvals: Conforms to Manufacturers Standardization Society SP-69, Type 5.
Maximum Temperature: 650° F *(343°C)*
Finish: Carbon Steel

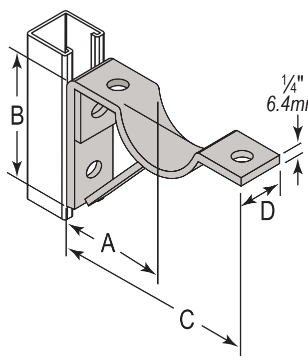


<table>
<tr><th>FLORIDA STRUT</th><th>VERSABAR</th><th>WESANCO</th><th>Pipe Size</th><th>A Rod Size</th><th>B</th><th>C</th><th>D</th><th>E</th><th>F</th><th>Bolt Size</th><th>G</th><th>Stock Size</th><th>Max. Rec. Load Lbs. (kN)</th></tr>
<tr><td></td><td>--</td><td>W4050</td><td>½"</td><td rowspan="6">⅜"</td><td>2-⅝"
(67 mm)</td><td>1-¾"
(44 mm)</td><td rowspan="6">7/16"
(11 mm)</td><td>1-½"
(38 mm)</td><td>1-15/16"
(49 mm)</td><td rowspan="6">¼"</td><td>3-5/32"
(80 mm)</td><td rowspan="6">12 ga. x ¾"</td><td rowspan="6">400
(1.78 kN)</td></tr>
<tr><td>--</td><td>--</td><td>W4075</td><td>¾"</td><td>2-⅞"
(73 mm)</td><td>1-⅞"
(48 mm)</td><td>1-11/16"
(43 mm)</td><td>2-⅛"
(54 mm)</td><td>3-½"
(89 mm)</td></tr>
<tr><td>--</td><td>--</td><td>W4100</td><td>1"</td><td>2-15/16"
(75 mm)</td><td>1-15/16"
(49 mm)</td><td>1-13/16"
(46 mm)</td><td>2-5/16"
(59 mm)</td><td>3-11/16"
(94 mm)</td></tr>
<tr><td>--</td><td>--</td><td>W4125</td><td>1-¼"</td><td>3-¼"
(83 mm)</td><td>2"
(51 mm)</td><td>2-1/16"
(52 mm)</td><td>2-⅝"
(67 mm)</td><td>4-⅛"
(105 mm)</td></tr>
<tr><td>--</td><td>--</td><td>W4150</td><td>1-½"</td><td>3-9/16"
(90 mm)</td><td>2-3/16"
(56 mm)</td><td>2-7/16"
(62 mm)</td><td>2-⅞"
(73 mm)</td><td>4-⅝"
(117 mm)</td></tr>
<tr><td>--</td><td>--</td><td>W4200</td><td>2"</td><td>3-11/16"
(94 mm)</td><td>2-⅛"
(54 mm)</td><td>2-9/16"
(65 mm)</td><td>3-1/16"
(78 mm)</td><td>5"
(127 mm)</td></tr>
<tr><td>--</td><td>--</td><td>W4250</td><td>2-½"</td><td rowspan="3">½"</td><td>4-7/16"
(113 mm)</td><td>2-7/16"
(62 mm)</td><td rowspan="4">9/16"
(14 mm)</td><td>3-3/16"
(81 mm)</td><td>3-⅝"
(92 mm)</td><td rowspan="4">⅜"</td><td>6"
(152 mm)</td><td>12 ga. x 1-¼"</td><td rowspan="3">500
(2.22 kN)</td></tr>
<tr><td>--</td><td>--</td><td>W4300</td><td>3"</td><td>4-13/16"
(122 mm)</td><td>2-9/16"
(65 mm)</td><td>3-½"
(89 mm)</td><td>4-1/16"
(103 mm)</td><td>6-21/32"
(169 mm)</td><td rowspan="3">3/16" x 1-¼"</td></tr>
<tr><td>--</td><td>--</td><td>W4350</td><td>3-½"</td><td>5-⅛"
(130 mm)</td><td>2-⅝"
(67 mm)</td><td>3-¾"
(95 mm)</td><td>4-⅜"
(111 mm)</td><td>7-5/16"
(186 mm)</td></tr>
<tr><td>--</td><td>--</td><td>W4400</td><td>4"</td><td>⅝"</td><td>6-⅛"
(156 mm)</td><td>3-3/16"
(81 mm)</td><td>4-⅝"
(117 mm)</td><td>5-3/16"
(132 mm)</td><td>8-9/16"
(217 mm)</td><td>550
(2.45 kN)</td></tr>
</table>

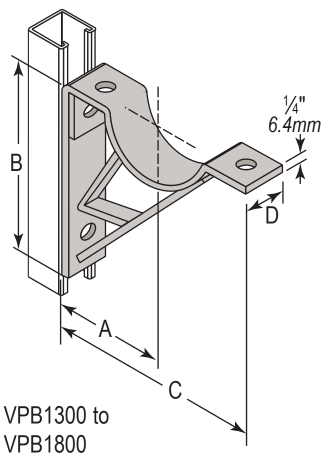
Standard Finish: Electro Galvanized (EG)

Offset Pipe Bracket Saddles With or Without Covers

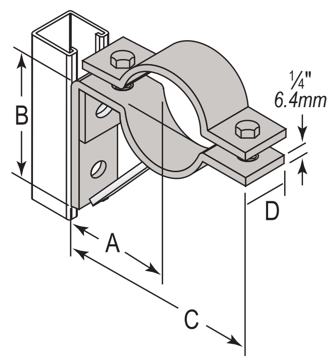
Without Covers | **With Covers**



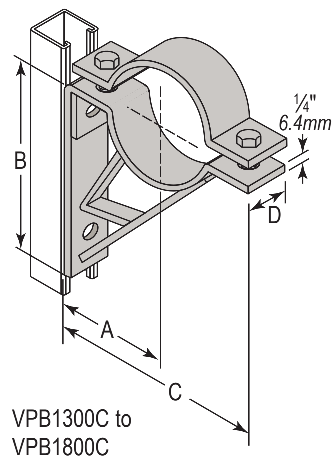
VPB1200 to
VPB1250



VPB1300 to
VPB1800



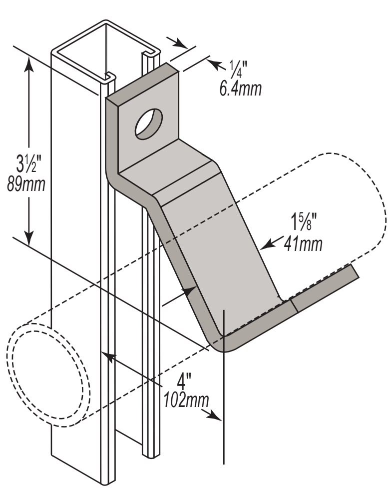
VPB1200C to
VPB1250C



VPB1300C to
VPB1800C

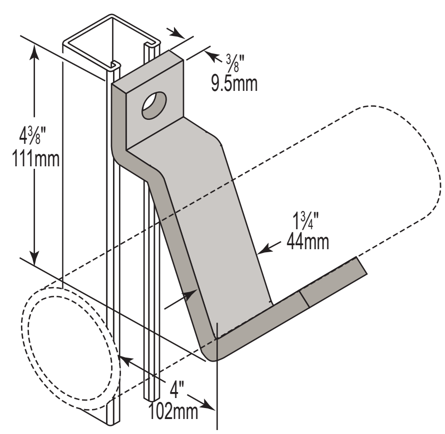
FLORIDA STRUT	VERSABAR		WESANCO	Pipe Size	"A" Dim.	"B" Dim.	"C" Dim.	"D" Dim.	Design Load Lbs. *(kN)*	
	Without Cover	With Cover							1-⅝" - 12 Ga.	1-⅝" - 14 Ga.
--	VPB1200	VPB1200C	--	2" *(51mm)*	4-½" *(114mm)*	4-½" *(114mm)*	7" *(178mm)*	1-⅝" *(41mm)*	300 *(1.35kN)*	215 *(0.97kN)*
--	VPB1250	VPB1250C	--	2-½" *(64mm)*	5" *(127mm)*	5" *(127mm)*	7-¾" *(197mm)*			
--	VPB1300	VPB1300C	--	3" *(76mm)*	5-½" *(140mm)*	5-¾" *(146mm)*	8-⅞" *(225mm)*		500 *(2.25kN)*	365 *(1.60kN)*
--	VPB1350	VPB1350C	--	3-½" *(89mm)*	6" *(152mm)*	6-¼" *(159mm)*	9-⅝" *(245mm)*			
--	VPB1400	VPB1400C	--	4" *(102mm)*	6-½" *(165mm)*	6-¾" *(171mm)*	10-⅝" *(270mm)*			
--	VPB1500	VPB1500C	--	5" *(127mm)*	7-½" *(191mm)*	8" *(203mm)*	12-⅜" *(315mm)*		700 *(3.15kN)*	500 *(2.25kN)*
--	VPB1600	VPB1600C	--	6" *(152mm)*	8" *(203mm)*	8-¾" *(222mm)*	13-½" *(343mm)*			
--	VPB1800	VPB1800C	--	8" *(203mm)*	9" *(229mm)*	10-½" *(267mm)*	15-¾" *(400mm)*	2" *(51mm)*		

Offset Pipe Bracket



FLORIDA STRUT	VERSABAR	WESANCO	Design Load 12 Ga. Channel
--	VPB7150	--	85 Lbs. *(0.38 kN)*

Offset Pipe Bracket



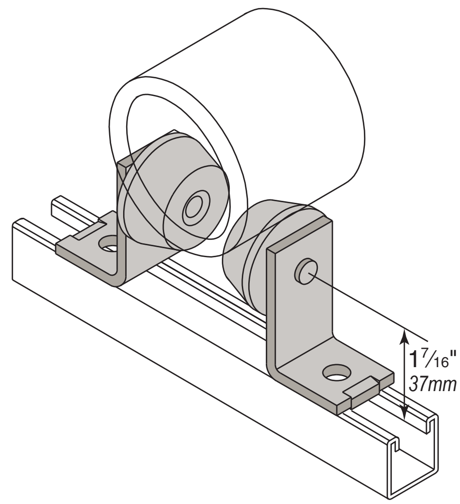
FLORIDA STRUT	VERSABAR	WESANCO	Design Load 12 Ga. Channel
--	VPB7300	--	185 Lbs. *(0.83 kN)*

Pipe Rollers

Standard Finish: Electro Galvanized (EG)

Pipe Roller - No Axle

For 1" to 4" Pipe

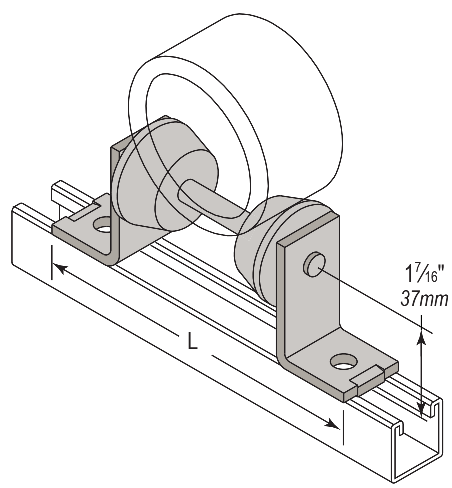


Cast Aluminum rollers
Steel portion has Electro-galvanized Finish

FLORIDA STRUT	VERSABAR	WESANCO	Design Load 12 Ga. Channel
R20	VPR	--	500 Lbs. *(2.22 kN)*

Pipe Roller - With Axle

For ½" to 10" Pipe



Cast Aluminum rollers
Steel portion has Electro-galvanized Finish

FLORIDA STRUT	VERSABAR	WESANCO	Pipe Size	L	Design Load 12 Ga. Channel
--	VPR1	--	½" *(13mm)* - 3" *(76mm)*	6-½" *(165mm)*	750 Lbs. *(3.3 kN)*
R213740	VPR2	--	3-½" *(89mm)* - 4" *(102mm)*	7" *(178mm)*	
R214360	VPR3	--	5" *(127mm)*	7-½" *(191mm)*	
	VPR4	--	6" *(152mm)*	7-¾" *(197mm)*	
R216380	VPR5	--	8" (203mm)	9" *(229mm)*	
R219010	--	--	9" (229mm) - 10" (254mm)	--	

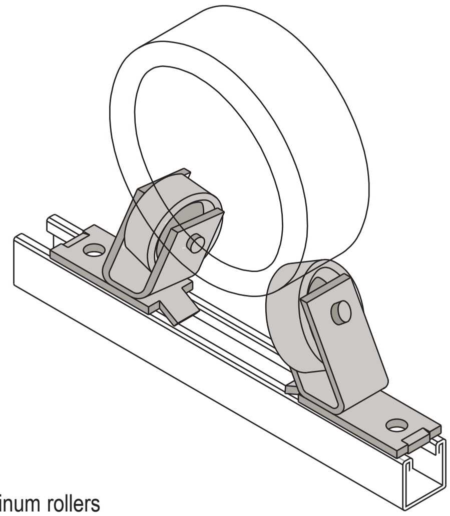
Pipe without insulation

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

Standard Finish: Electro Galvanized (EG)

Pipe Roller - Heavy Duty

For 6" to 18" Pipe

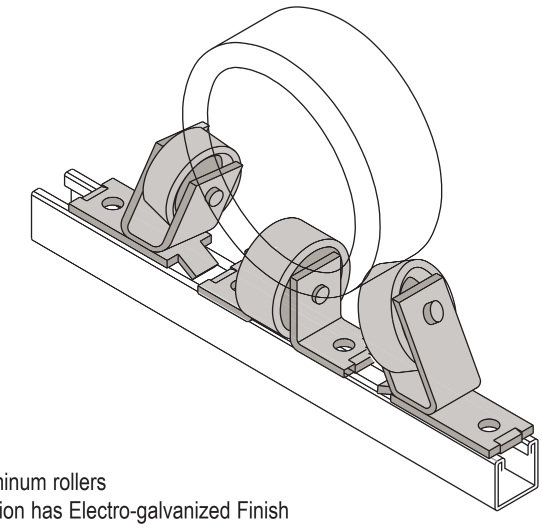


Cast Aluminum rollers
Steel portion has Electro-galvanized Finish

FLORIDA STRUT	VERSABAR	WESANCO	Design Load 12 Ga. Channel
R22	VPR2000	--	1,500 Lbs. *(6.67 kN)*

Pipe Roller - Heavy Duty

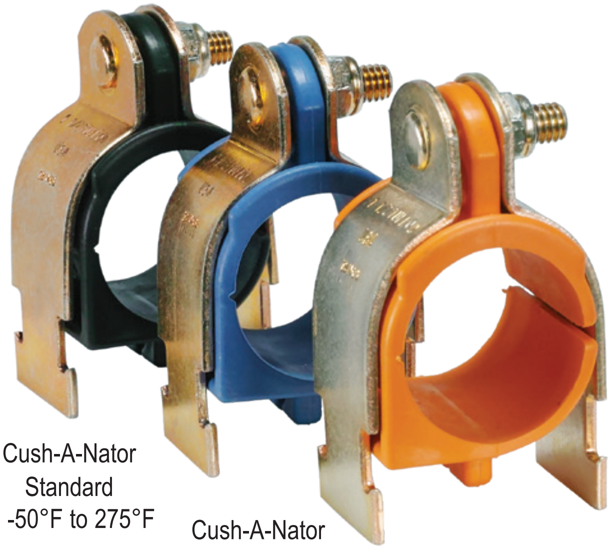
For 16" to 24" Pipe



Cast Aluminum rollers
Steel portion has Electro-galvanized Finish

FLORIDA STRUT	VERSABAR	WESANCO	Design Load 12 Ga. Channel
R23	VPR3000	--	2,000 Lbs. *(8.90 kN)*

Cush-A-Nator®



Cush-A-Nator
Standard
-50°F to 275°F

Cush-A-Nator
High Temp
-65°F to 340°F

Cush-A-Nator
High Intensity Temp
-65°F to 400°F

The Cush-A-Nator® cushion is manufactured in the United States and made from a new incredibly durable thermoplastic rubber that resists high heat and provides longer life against vibration fatigue. The Cush-A-Nator is made from a proprietary thermoplastic vulcanized material cross-linked with high performance rubber and thermoplastic elastomers, which produces the highest operating temperature range in the industry.

New Cush-A-Nator High Intensity Temp
has a service temperature of
-65°F to 400°F

The Cush-A-Nator® is designed to provide the user with a choice of the highest heat range resistance of any cushion on the market or simply the advanced features of a superior design.

The Cush-A-Nator is designed and manufactured in Michigan.

Features

A Thumb Drive

The Cush-A-Nator has the exclusive "Thumb Drive" that provides the installer a gripping point to easily open the cushion with the help of leverage tabs and a living hinge. Easy and effortlessly to install.

B Self-Alignment

Cushion can be opened and placed over the pipe or tube and rotated into place while on the channel and automatically aligned with the channel opening ready for clamping.

Cush-A-Nator® is manufactured under U.S. patents #9074715, #D702113, #D710190, and European Community patents #0013843410001, #0013843410002, and a United Kingdom patent pending.

C Pressure Control

The Cush-A-Nator cushion has a built in squeeze control as part of the cushion design. The side opening and the squeeze control tab provides evenly distributed pressure around the tube or pipe.

D Complete Clamping Unit

The Cush-A-Nator is the only strut mounted cushion that is mechanically connected to the supporting steel clamp because the bolt passes through the squeeze control tab forming the single unit connection. This design helps prevent the cushion from excess vibration by being attached directly to the clamp.

Installation examples shown on next page

Cush-A-Nator® – New Installations

Step 1:

Step 2:
Insert the Cush-A-Nator® onto the pipe and then use the exclusive "Thumb Drive" to rotate into position.

Step 3:
Add Pipe Clamps and tighten the assembly.

Cush-A-Nator® – Retrofit / Replacement Applications

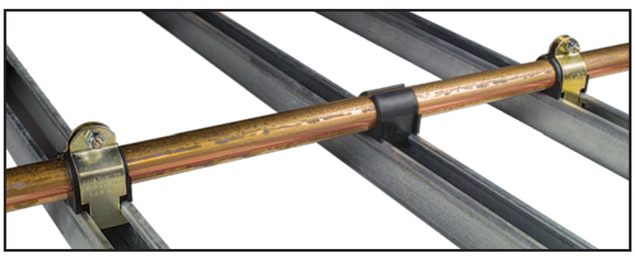
A key feature of the Cush-A-Nator is this ability to place the cushion and rotate into position. ***Perfect for retrofit applications!***

Retrofit - The Common Problem

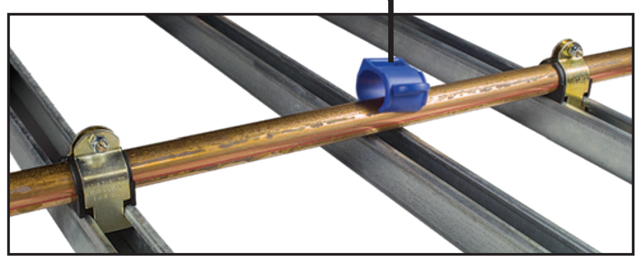
Replacing a cush-a-clamp within a long pipe run poses a problem. Clamps before and after the one to be replaced prohibit the pipe from being raised so that the new cushion can be installed correctly. All to often a work-around is used which compromises the connection.

Retrofit - The Perfect Solution

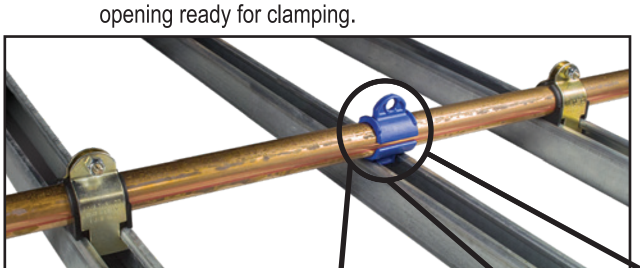
Step 1: Remove Bad Cushion.



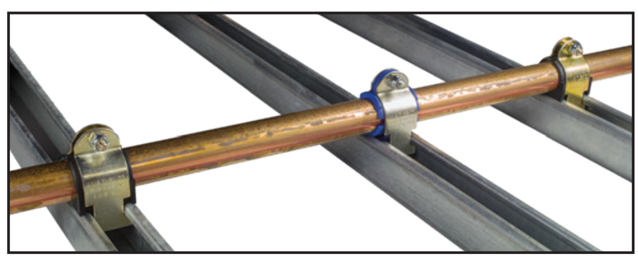
Step 2: The Cush-A-Nator can be installed without raising the pipe. The unique "Thumb Drive" allows you to rotate the Cush-A-Nator into position.

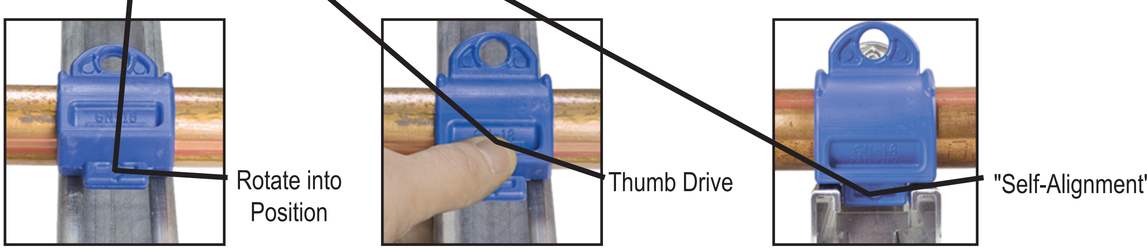


Step 3: Rotated into place while on the channel and the Self-Alignment tab automatically aligns with the channel opening ready for clamping.



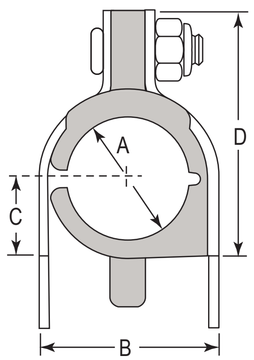
Step 3: Add Pipe Clamps and tighten the assembly.





Cush-A-Nator® Standard (CN) has an operating range of -50°F to 275°F (-45°C to 135°C).

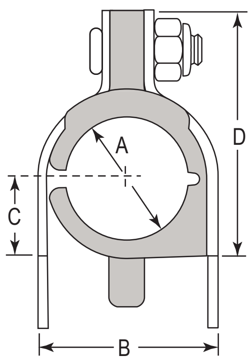
Cush-A-Nator® Standard (CN) Tube Part No.			O.D. Tube Size	Dimensions (inches)			
Steel	SS304	SS316		A	B	C	D
CN04	CN04SS	CN04S6	¼"	0.25" *(6mm)*	0.62" *(16mm)*	0.27" *(7mm)*	0.98" *(25mm)*
CN06	CN06SS	CN06S6	⅜"	0.37" *(9mm)*	0.82" *(21mm)*	0.33" *(8mm)*	1.13" *(29mm)*
CN08	CN08SS	CN08S6	½"	0.50" *(13mm)*	0.94" *(24mm)*	0.40" *(10mm)*	1.34" *(34mm)*
CN10	CN10SS	CN10S6	⅝"	0.62" *(16mm)*	1.06" *(27mm)*	0.46" *(12mm)*	1.54" *(39mm)*
CN12	CN12SS	CN12S6	¾"	0.75" *(19mm)*	1.20" *(30mm)*	0.52" *(13mm)*	1.68" *(43mm)*
CN14	CN14SS	CN14S6	⅞"	0.87" *(22mm)*	1.31" *(33mm)*	0.58" *(15mm)*	1.82" *(46mm)*
CN16	CN16SS	CN16S6	1"	1.00" *(25mm)*	1.44" *(37mm)*	0.65" *(17mm)*	1.95" *(50mm)*
CN18	CN18SS	CN18S6	1⅛"	1.12" *(28mm)*	1.57" *(40mm)*	0.70" *(18mm)*	2.08" *(53mm)*
CN20	CN20SS	CN20S6	1¼"	1.25" *(32mm)*	1.70" *(43mm)*	0.77" *(20mm)*	2.21" *(56mm)*
CN32M	CN32MSS	CN32MS6	32mm	32mm	1.51" *(38mm)*	0.76" *(19mm)*	2.55" *(65mm)*
CN22	CN22SS	CN22S6	1⅜"	1.37" *(35mm)*	1.82" *(46mm)*	0.83" *(21mm)*	2.34" *(59mm)*
CN24	CN24SS	CN24S6	1½"	1.50" *(38mm)*	1.95" *(50mm)*	0.90" *(23mm)*	2.47" *(63mm)*
CN26	CN26SS	CN26S6	1⅝"	1.62" *(41mm)*	2.07" *(53mm)*	0.96" *(24mm)*	2.60" *(66mm)*
CN28	CN28SS	CN28S6	1¾"	1.75" *(45mm)*	2.20" *(56mm)*	1.02" *(26mm)*	2.73" *(69mm)*
CN30	CN30SS	CN30S6	1⅞"	1.87" *(48mm)*	2.32" *(59mm)*	1.09" *(28mm)*	2.86" *(73mm)*
CN32	CN32SS	CN32S6	2"	2.00" *(51mm)*	2.45" *(62mm)*	1.15" *(29mm)*	3.04" *(77mm)*
CN34	CN34SS	CN34S6	2⅛"	2.12" *(54mm)*	2.57" *(65mm)*	1.27" *(32mm)*	3.23" *(82mm)*
CN36	CN36SS	CN36S6	2¼"	2.25" *(57mm)*	2.82" *(72mm)*	1.41" *(36mm)*	3.67" *(93mm)*
CN38	CN38SS	CN38S6	2⅜"	2.37" *(60mm)*	2.82" *(72mm)*	1.41" *(36mm)*	3.67" *(93mm)*
CN40	CN40SS	CN40S6	2½"	2.50" *(64mm)*	2.94" *(75mm)*	1.46" *(37mm)*	3.79" *(96mm)*
CN42	CN42SS	CN42S6	2⅝"	2.62" *(66mm)*	3.07" *(78mm)*	1.53" *(39mm)*	3.92" *(100mm)*
CN46	CN46SS	CN46S6	2⅞"	2.87" *(73mm)*	3.32" *(84mm)*	1.66" *(42mm)*	4.17" *(106mm)*
CN75M	CN75MSS	CN75MS6	75mm	75mm	3.37" *(86mm)*	1.69" *(43mm)*	4.68" *(119mm)*
CN48	CN48SS	CN48S6	3"	3.00" *(76mm)*	3.57" *(91mm)*	1.78" *(45mm)*	4.42" *(112mm)*
CN50	CN50SS	CN50S6	3⅛"	3.12" *(79mm)*	3.57" *(91mm)*	1.78" *(45mm)*	4.42" *(112mm)*
CN56	CN56SS	CN56S6	3½"	3.50" *(89mm)*	3.95" *(100mm)*	1.97" *(50mm)*	4.79" *(122mm)*
CN90M	CN90MSS	CN90MS6	90mm	90mm	3.86" *(98mm)*	1.94" *(49mm)*	5.23" *(133mm)*
CN64	CN64SS	CN64S6	4"	4.00" *(102mm)*	4.45" *(113mm)*	2.28" *(58mm)*	5.11" *(130mm)*
CN66	CN66SS	CN66S6	4⅛"	4.12" *(105mm)*	4.57" *(116mm)*	2.34" *(59mm)*	5.54" *(141mm)*
CN110M	CN110MSS	CN110MS6	110mm	110mm	4.99" *(127mm)*	2.81" *(71mm)*	6.38" *(162mm)*
CN72	CN72SS	CN72S6	4½"	4.50" *(114mm)*	4.95" *(126mm)*	2.53" *(64mm)*	5.92" *(150mm)*
CN125M	CN125MSS	CN125MS6	125mm	125mm	5.61" *(142mm)*	2.81" *(71mm)*	7.00" *(178mm)*
CN96	CN96SS	CN96S6	6"	6.00" *(152mm)*	6.62" *(168mm)*	3.31" *(84mm)*	7.63" *(194mm)*
CN160M	CN160MSS	CN160MS6	160mm	160mm	6.62" *(168mm)*	3.31" *(84mm)*	7.63" *(194mm)*



Cush-A-Nator® Standard (CN) Pipe Part No.			Pipe Size	Dimensions (inches)			
Steel	SS304	SS316		A	B	C	D
CN14P	CN14PSS	CN14PS6	½"	0.840" *(21mm)*	1.29" *(33mm)*	0.58" *(15mm)*	1.82" *(46mm)*
CN17P	CN17PSS	CN17PS6	¾"	1.050" *(27mm)*	1.57" (40mm)	0.70" *(18mm)*	2.08" *(53mm)*
CN21P	CN21PSS	CN21PS6	1"	1.315" *(33mm)*	1.76" *(45mm)*	0.81" *(21mm)*	2.34" *(59mm)*
CN30P	CN30PSS	CN30PS6	1½"	1.900" *(48mm)*	2.32" *(59mm)*	1.09" *(28mm)*	2.86" *(73mm)*
CN38P	CN38PSS	CN38PS6	2"	2.375" *(60mm)*	2.82" *(72mm)*	1.41" *(36mm)*	3.67" *(93mm)*
CN46P	CN46PSS	CN46PS6	2½"	2.875" *(73mm)*	3.32" *(84mm)*	1.66" *(42mm)*	4.17" *(106mm)*
CN56P	CN56PSS	CN56PS6	3"	3.500" *(89mm)*	3.95" *(100mm)*	1.97" *(50mm)*	4.79" *(122mm)*
CN64P	CN64PSS	CN64PS6	3½"	4.000" *(102mm)*	4.45" *(113mm)*	2.28" *(58mm)*	5.11" *(130mm)*
CN72P	CN72PSS	CN72PS6	4"	4.500" *(114mm)*	4.95" *(126mm)*	2.53" *(64mm)*	5.92" *(150mm)*

Contact Factory for Additional Sizes

Cush-A-Nator® High Temp (HT) has service temperatures of -65°F to 340°F (-53°C to 170°C).

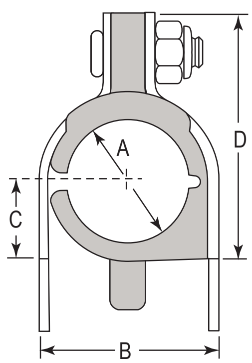


Cush-A-Nator® High Temp (HT) Tube Part No.			O.D. Tube Size	Dimensions (inches)			
Steel	SS304	SS316		A	B	C	D
HT04	HT04SS	HT04S6	1/4"	0.25" *(6mm)*	0.62" *(16mm)*	0.27" *(7mm)*	0.98" *(25mm)*
HT06	HT06SS	HT06S6	3/8"	0.37" *(9mm)*	0.82" *(21mm)*	0.33" *(8mm)*	1.13" *(29mm)*
HT08	HT08SS	HT08S6	1/2"	0.50" *(13mm)*	0.94" *(24mm)*	0.40" *(10mm)*	1.34" *(34mm)*
HT10	HT10SS	HT10S6	5/8"	0.62" *(16mm)*	1.06" *(27mm)*	0.46" *(12mm)*	1.54" *(39mm)*
HT12	HT12SS	HT12S6	3/4"	0.75" *(19mm)*	1.20" *(30mm)*	0.52" *(13mm)*	1.68" *(43mm)*
HT14	HT14SS	HT14S6	7/8"	0.87" *(22mm)*	1.31" *(33mm)*	0.58" *(15mm)*	1.82" *(46mm)*
HT16	HT16SS	HT16S6	1"	1.00" *(25mm)*	1.44" *(37mm)*	0.65" *(17mm)*	1.95" *(50mm)*
HT18	HT18SS	HT18S6	1 1/8"	1.12" *(28mm)*	1.57" *(40mm)*	0.70" *(18mm)*	2.08" *(53mm)*
HT20	HT20SS	HT20S6	1 1/4"	1.25" *(32mm)*	1.70" *(43mm)*	0.77" *(20mm)*	2.21" *(56mm)*
HT32M	HT32MSS	HT32MS6	32mm	32mm	1.51" *(38mm)*	0.76" *(19mm)*	2.55" *(65mm)*
HT22	HT22SS	HT22S6	1 3/8"	1.37" *(35mm)*	1.82" *(46mm)*	0.83" *(21mm)*	2.34" *(59mm)*
HT24	HT24SS	HT24S6	1 1/2"	1.50" *(38mm)*	1.95" *(50mm)*	0.90" *(23mm)*	2.47" *(63mm)*
HT26	HT26SS	HT26S6	1 5/8"	1.62" *(41mm)*	2.07" *(53mm)*	0.96" *(24mm)*	2.60" *(66mm)*
HT28	HT28SS	HT28S6	1 3/4"	1.75" *(45mm)*	2.20" *(56mm)*	1.02" *(26mm)*	2.73" *(69mm)*
HT30	HT30SS	HT30S6	1 7/8"	1.87" *(48mm)*	2.32" *(59mm)*	1.09" *(28mm)*	2.86" *(73mm)*
HT32	HT32SS	HT32S6	2"	2.00" *(51mm)*	2.45" *(62mm)*	1.15" *(29mm)*	3.04" *(77mm)*
HT34	HT34SS	HT34S6	2 1/8"	2.12" *(54mm)*	2.57" *(65mm)*	1.27" *(32mm)*	3.23" *(82mm)*
HT36	HT36SS	HT36S6	2 1/4"	2.25" *(57mm)*	2.82" *(72mm)*	1.41" *(36mm)*	3.67" *(93mm)*
HT38	HT38SS	HT38S6	2 3/8"	2.37" *(60mm)*	2.82" *(72mm)*	1.41" *(36mm)*	3.67" *(93mm)*
HT40	HT40SS	HT40S6	2 1/2"	2.50" *(64mm)*	2.94" *(75mm)*	1.46" *(37mm)*	3.79" *(96mm)*
HT42	HT42SS	HT42S6	2 5/8"	2.62" *(66mm)*	3.07" *(78mm)*	1.53" *(39mm)*	3.92" *(100mm)*
HT46	HT46SS	HT46S6	2 7/8"	2.87" *(73mm)*	3.32" *(84mm)*	1.66" *(42mm)*	4.17" *(106mm)*
HT75M	HT75MSS	HT75MS6	75mm	75mm	3.37" *(86mm)*	1.69" *(43mm)*	4.68" *(119mm)*
HT48	HT48SS	HT48S6	3"	3.00" *(76mm)*	3.57" *(91mm)*	1.78" *(45mm)*	4.42" *(112mm)*
HT50	HT50SS	HT50S6	3 1/8"	3.12" *(79mm)*	3.57" *(91mm)*	1.78" *(45mm)*	4.42" *(112mm)*
HT56	HT56SS	HT56S6	3 1/2"	3.50" *(89mm)*	3.95" *(100mm)*	1.97" *(50mm)*	4.79" *(122mm)*
HT90M	HT90MSS	HT90MS6	90mm	90mm	3.86" *(98mm)*	1.94" *(49mm)*	5.23" *(133mm)*
HT64	HT64SS	HT64S6	4"	4.00" *(102mm)*	4.45" *(113mm)*	2.28" *(58mm)*	5.11" *(130mm)*
HT66	HT66SS	HT66S6	4 1/8"	4.12" *(105mm)*	4.57" *(116mm)*	2.34" *(59mm)*	5.54" *(141mm)*
HT110M	HT110MSS	HT110MS6	110mm	110mm	4.99" *(127mm)*	2.81" *(71mm)*	6.38" *(162mm)*
HT72	HT72SS	HT72S6	4 1/2"	4.50" *(114mm)*	4.95" *(126mm)*	2.53" *(64mm)*	5.92" *(150mm)*
HT125M	HT125MSS	HT125MS6	125mm	125mm	5.61" *(142mm)*	2.81" *(71mm)*	7.00" *(178mm)*
HT96	HT96SS	HT96S6	6"	6.00" *(152mm)*	6.62" *(168mm)*	3.31" *(84mm)*	7.63" *(194mm)*
HT160M	HT160MSS	HT160MS6	160mm	160mm	6.62" *(168mm)*	3.31" *(84mm)*	7.63" *(194mm)*

Cush-A-Nator® High Temp (HT) Pipe Part No.			Pipe Size	Dimensions (inches)			
Steel	SS304	SS316		A	B	C	D
HT14P	HT14PSS	HT14PS6	1/2"	0.840" *(21mm)*	1.29" *(33mm)*	0.58" *(15mm)*	1.82" *(46mm)*
HT17P	HT17PSS	HT17PS6	3/4"	1.050" *(27mm)*	1.57" *(40mm)*	0.70" *(18mm)*	2.08" *(53mm)*
HT21P	HT21PSS	HT21PS6	1"	1.315" *(33mm)*	1.76" *(45mm)*	0.81" *(21mm)*	2.34" *(59mm)*
HT30P	HT30PSS	HT30PS6	1 1/2"	1.900" *(48mm)*	2.32" *(59mm)*	1.09" *(28mm)*	2.86" *(73mm)*
HT38P	HT38PSS	HT38PS6	2"	2.375" *(60mm)*	2.82" *(72mm)*	1.41" *(36mm)*	3.67" *(93mm)*
HT46P	HT46PSS	HT46PS6	2 1/2"	2.875" *(73mm)*	3.32" *(84mm)*	1.66" *(42mm)*	4.17" *(106mm)*
HT56P	HT56PSS	HT56PS6	3"	3.500" *(89mm)*	3.95" *(100mm)*	1.97" *(50mm)*	4.79" *(122mm)*
HT64P	HT64PSS	HT64PS6	3 1/2"	4.000" *(102mm)*	4.45" *(113mm)*	2.28" *(58mm)*	5.11" *(130mm)*
HT72P	HT72PSS	HT72PS6	4"	4.500" *(114mm)*	4.95" *(126mm)*	2.53" *(64mm)*	5.92" *(150mm)*

Contact Factory for Additional Sizes

Cush-A-Nator® High Intensity Temp (HIT) has service temperatures of -65°F to 400°F (-53°C to 204°C).



Cush-A-Nator® High Intensity Temp (HIT) Tube Part No.			O.D. Tube Size	Dimensions (inches)			
Steel	SS304	SS316		A	B	C	D
HIT04	HIT04SS	HIT04S6	1/4"	0.25" (6mm)	0.62" (16mm)	0.27" (7mm)	0.98" (25mm)
HIT06	HIT06SS	HIT06S6	3/8"	0.37" (9mm)	0.82" (21mm)	0.33" (8mm)	1.13" (29mm)
HIT08	HIT08SS	HIT08S6	1/2"	0.50" (13mm)	0.94" (24mm)	0.40" (10mm)	1.34" (34mm)
HIT10	HIT10SS	HIT10S6	5/8"	0.62" (16mm)	1.06" (27mm)	0.46" (12mm)	1.54" (39mm)
HIT12	HIT12SS	HIT12S6	3/4"	0.75" (19mm)	1.20" (30mm)	0.52" (13mm)	1.68" (43mm)
HIT14	HIT14SS	HIT14S6	7/8"	0.87" (22mm)	1.31" (33mm)	0.58" (15mm)	1.82" (46mm)
HIT16	HIT16SS	HIT16S6	1"	1.00" (25mm)	1.44" (37mm)	0.65" (17mm)	1.95" (50mm)
HIT18	HIT18SS	HIT18S6	1 1/8"	1.12" (28mm)	1.57" (40mm)	0.70" (18mm)	2.08" (53mm)
HIT20	HIT20SS	HIT20S6	1 1/4"	1.25" (32mm)	1.70" (43mm)	0.77" (20mm)	2.21" (56mm)
HIT32M	HIT32MSS	HIT32MS6	32mm	32mm	1.51" (38mm)	0.76" (19mm)	2.55" (65mm)
HIT22	HIT22SS	HIT22S6	1 3/8"	1.37" (35mm)	1.82" (46mm)	0.83" (21mm)	2.34" (59mm)
HIT24	HIT24SS	HIT24S6	1 1/2"	1.50" (38mm)	1.95" (50mm)	0.90" (23mm)	2.47" (63mm)
HIT26	HIT26SS	HIT26S6	1 5/8"	1.62" (41mm)	2.07" (53mm)	0.96" (24mm)	2.60" (66mm)
HIT28	HIT28SS	HIT28S6	1 3/4"	1.75" (45mm)	2.20" (56mm)	1.02" (26mm)	2.73" (69mm)
HIT30	HIT30SS	HIT30S6	1 7/8"	1.87" (48mm)	2.32" (59mm)	1.09" (28mm)	2.86" (73mm)
HIT32	HIT32SS	HIT32S6	2"	2.00" (51mm)	2.45" (62mm)	1.15" (29mm)	3.04" (77mm)
HIT34	HIT34SS	HIT34S6	2 1/8"	2.12" (54mm)	2.57" (65mm)	1.27" (32mm)	3.23" (82mm)
HIT36	HIT36SS	HIT36S6	2 1/4"	2.25" (57mm)	2.82" (72mm)	1.41" (36mm)	3.67" (93mm)
HIT38	HIT38SS	HIT38S6	2 3/8"	2.37" (60mm)	2.82" (72mm)	1.41" (36mm)	3.67" (93mm)
HIT40	HIT40SS	HIT40S6	2 1/2"	2.50" (64mm)	2.94" (75mm)	1.46" (37mm)	3.79" (96mm)
HIT42	HIT42SS	HIT42S6	2 5/8"	2.62" (66mm)	3.07" (78mm)	1.53" (39mm)	3.92" (100mm)
HIT46	HIT46SS	HIT46S6	2 7/8"	2.87" (73mm)	3.32" (84mm)	1.66" (42mm)	4.17" (106mm)
HIT75M	HIT75MSS	HIT75MS6	75mm	75mm	3.37" (86mm)	1.69" (43mm)	4.68" (119mm)
HIT48	HIT48SS	HIT48S6	3"	3.00" (76mm)	3.57" (91mm)	1.78" (45mm)	4.42" (112mm)
HIT50	HIT50SS	HIT50S6	3 1/8"	3.12" (79mm)	3.57" (91mm)	1.78" (45mm)	4.42" (112mm)
HIT56	HIT56SS	HIT56S6	3 1/2"	3.50" (89mm)	3.95" (100mm)	1.97" (50mm)	4.79" (122mm)
HIT90M	HIT90MSS	HIT90MS6	90mm	90mm	3.86" (98mm)	1.94" (49mm)	5.23" (133mm)
HIT64	HIT64SS	HIT64S6	4"	4.00" (102mm)	4.45" (113mm)	2.28" (58mm)	5.11" (130mm)
HIT66	HIT66SS	HIT66S6	4 1/8"	4.12" (105mm)	4.57" (116mm)	2.34" (59mm)	5.54" (141mm)
HIT110M	HIT110MSS	HIT110MS6	110mm	110mm	4.99" (127mm)	2.81" (71mm)	6.38" (162mm)
HIT72	HIT72SS	HIT72S6	4 1/2"	4.50" (114mm)	4.95" (126mm)	2.53" (64mm)	5.92" (150mm)
HIT125M	HIT125MSS	HIT125MS6	125mm	125mm	5.61" (142mm)	2.81" (71mm)	7.00" (178mm)
HIT96	HIT96SS	HIT96S6	6"	6.00" (152mm)	6.62" (168mm)	3.31" (84mm)	7.63" (194mm)
HIT160M	HIT160MSS	HIT160MS6	160mm	160mm	6.62" (168mm)	3.31" (84mm)	7.63" (194mm)

Cush-A-Nator® High Intensity Temp (HIT) Pipe Part No.			Pipe Size	Dimensions (inches)			
Steel	SS304	SS316		A	B	C	D
HIT14P	HIT14PSS	HIT14PS6	1/2"	0.840" (21mm)	1.29" (33mm)	0.58" (15mm)	1.82" (46mm)
HIT17P	HIT17PSS	HIT17PS6	3/4"	1.050" (27mm)	1.57" (40mm)	0.70" (18mm)	2.08" (53mm)
HIT21P	HIT21PSS	HIT21PS6	1"	1.315" (33mm)	1.76" (45mm)	0.81" (21mm)	2.34" (59mm)
HIT30P	HIT30PSS	HIT30PS6	1 1/2"	1.900" (48mm)	2.32" (59mm)	1.09" (28mm)	2.86" (73mm)
HIT38P	HIT38PSS	HIT38PS6	2"	2.375" (60mm)	2.82" (72mm)	1.41" (36mm)	3.67" (93mm)
HIT46P	HIT46PSS	HIT46PS6	2 1/2"	2.875" (73mm)	3.32" (84mm)	1.66" (42mm)	4.17" (106mm)
HIT56P	HIT56PSS	HIT56PS6	3"	3.500" (89mm)	3.95" (100mm)	1.97" (50mm)	4.79" (122mm)
HIT64P	HIT64PSS	HIT64PS6	3 1/2"	4.000" (102mm)	4.45" (113mm)	2.28" (58mm)	5.11" (130mm)
HIT72P	HIT72PSS	HIT72PS6	4"	4.500" (114mm)	4.95" (126mm)	2.53" (64mm)	5.92" (150mm)

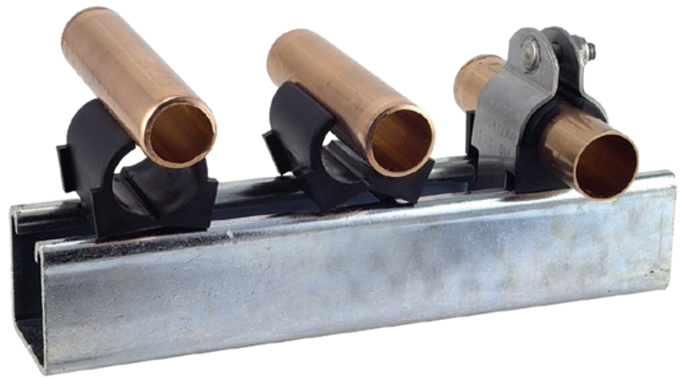
Contact Factory for Additional Sizes

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

Cush-A-Clamp®

Gold Electro-Galvanized Steel

Stainless Steel



The “Living Hinge” allows the cushion to be spread apart for quick, easy installation.

CUSH-A-CLAMP — Channel mounted clamping systems are ideal for multiple line runs, while absorbing shock and vibration, reducing unwanted noise, and preventing galvanic corrosion. Cush-A-Clamp fits any standard 1-5/8" wide channel.

Assembly consisting of steel clamp with locknut and thermoplastic elastomer cushion. All parts are marked for easy identification and packaged for small lot or bulk use. When specified, Cush-A-Clamp assemblies up to 2", are available individually packaged.

THE CLAMP — Features a unique shoulder stud which is securely fastened to one clamp half. Steel clamps for tube sizes up to 1-⅜" have the “**Controlled Squeeze**™” design which eliminates over-tightening and rotation while a nylon-insert nut assures a positive lock. Clamps are available in steel (with electro-dichromate finish), and stainless steel type 304. (Contact factory for type 316).

THE CUSHION — Made from a thermoplastic elastomer, it’s built tough to withstand the effects of most oils, chemicals and industrial cleaning compounds, in temperatures from -50°F to 275°F. Interlock edges and channel locator legs ensure that the cushion remains in place.

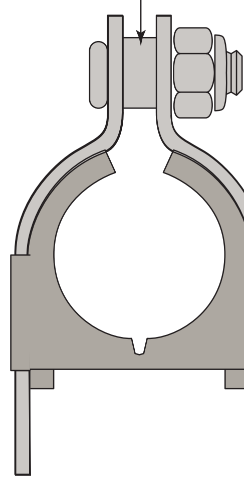
INSTALLATION — One man, one tool time savings. Retrofits can be added without disassembly. The “Living Hinge” allows the cushion to be spread apart for quick, easy installation on sizes from ¼" through 1-3/4".

ORDERING — Add finish code for finishes other than standard gold finish.

Stainless Steel uses "NS" in the part number instead of "N"

Examples:
"038N042" would be standard gold electro-galvanized finish
"038N042**G**" would be silver electro-galvanized finish
"038**NS**042" would be stainless steel type 304
"038**NS**042**S6**" would be stainless steel type 316.

Controlled Squeeze™ Shoulder Bolt Eliminates Over-Tightening



The controlled squeeze insures that the nut on the clamp is not overtighted which avoids damaging the pipe that is being installed.

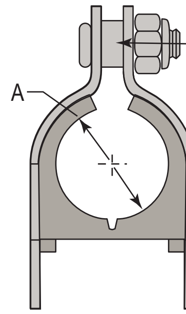
Loading Values Mounted in Standard 12 Gage Channel

Nut	Torque (in-lbs)	Products	Pullout (lbs)	Slip (lbs)	
				Along	Through
¼"	40	004T008 - 022T026	1,000	100	100
5⁄16"	60	024T028 - 050N056	2,200	200	200
⅜"	150	053N050 - 106N114	3,600	600	350
Loads are the same for Stainless Steel Clamps (Example 024NS028)					

Cush-A-Clamp®

Gold Electro-Galvanized Steel

Stainless Steel



Controlled Squeeze™
Eliminates Over-Tightening

Controlled Squeeze as shown in the drawing is included on smaller sizes of Cush-A-Clamp with "T" in the part number (e.g. 010T014).

Part No.		Dimension "A"			
Steel With Standard Gold Electro-Galvanized Finish	**Stainless Steel Type 304**	***Copper and Steel Tubing**	**Copper Water Pipe (Nom.)**	**Nom. Pipe Size**	**A**
004T008 - with Controlled Squeeze	004NS008	¼"	-	-	0.25" *(6mm)*
006T010 - with Controlled Squeeze	006NS010	⅜"	¼"	-	0.37" *(9mm)*
008T012 - with Controlled Squeeze	008NS012	½"	⅜"	-	0.50" *(13mm)*
009N012	009NS012	-	-	¼"	0.54" *(14mm)*
010T014 - with Controlled Squeeze	010NS014	⅝"	½"	-	0.62" *(16mm)*
011N014	011NS014	-	-	⅜"	0.67" *(17mm)*
012T016 - with Controlled Squeeze	012NS016	¾"	⅝"	-	0.75" *(19mm)*
014N018	014NS018	-	-	½"	0.84" *(21mm)*
014T018 - with Controlled Squeeze	014NS018	⅞"	¾"	-	0.87" *(22mm)*
016T020 - with Controlled Squeeze	016NS020	1"	-	-	1.00" *(25mm)*
017N022	017NS022	-	-	¾"	1.05" *(27mm)*
018T022 - with Controlled Squeeze	018NS022	1-⅛"	1"	-	1.12" *(28mm)*
020T024 - with Controlled Squeeze	020NS024	1-¼"	-	-	1.25" *(32mm)*
021N026	021NS026	-	-	1"	1.31" *(33mm)*
022T026 - with Controlled Squeeze	022NS026	1-⅜"	1-¼"	-	1.37" *(35mm)*
024N028	024NS028	1-½"	-	-	1.50" *(38mm)*
026N030	026NS030	1-⅝"	1-½"	-	1.62" *(41mm)*
027N032	027NS032	-	-	1-¼"	1.66" *(42mm)*
028N032	028NS032	1-¾"	-	-	1.75" *(44mm)*
030N034	030NS034	1-⅞"	-	1-½"	1.90" *(48mm)*
032N036	032NS036	2"	-	-	2.00" *(51mm)*
034N040	034NS040	2-⅛"	2"	-	2.12" *(54mm)*
038N042	038NS042	2-¼"	-	-	2.37" *(60mm)*
038N044	038NS044	2-⅜"	-	2"	2.37" *(60mm)*
040N046	040NS046	2-½"	-	-	2.50" *(64mm)*
042N048	042NS048	2-⅝"	2-½"	-	2.62" *(67mm)*
046N052	046NS052	2-⅞"	-	2-½"	2.87" *(73mm)*
050N054	050NS054	3"	-	-	3.00" *(76mm)*
050N056	050NS056	3-⅛"	3"	-	3.12" *(79mm)*
053N060	053NS060	3-5/16"	-	-	3.31" *(84mm)*
056N062	056NS062	3-½"	-	3"	3.50" *(89mm)*
058N064	058NS064	3-⅝"	3-½"	-	3.62" *(92mm)*
064N072	064NS072	4"	-	3-½"	4.00" *(102mm)*
066N074	066NS074	4-⅛"	4"	-	4.12" *(105mm)*
069N076	069NS076	4-5/16"	-	-	4.34" *(110mm)*
072N080	072NS080	4-½"	-	4"	4.50" *(114mm)*
082N090	082NS090	5-⅛"	5"	-	5.12" *(130mm)*
089N096	089NS096	-	-	5"	5.56" *(141mm)*
096N106	096NS106	6"	-	-	6.00" *(152mm)*
098N106	098NS106	6-⅛"	6"	-	6.12" *(155mm)*
106N114	106NS114	-	-	6"	6.62" *(168mm)*
138N146	138NS146	-	-	8"	8.62" *(219mm)*

*Tube O.D. is Cushion I.D. Design load deflection data available on request.

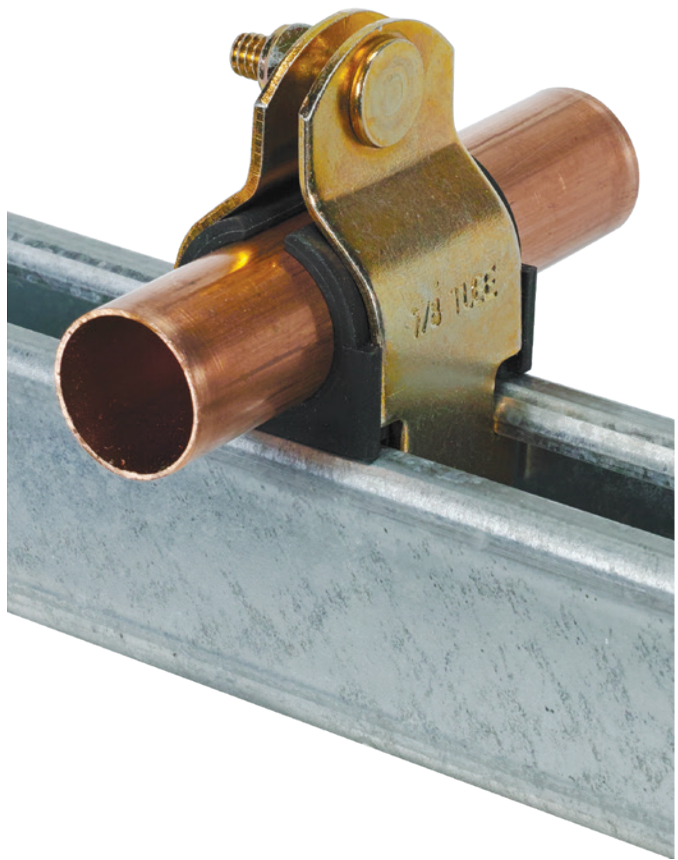
Introduction
Channel
Channel Nuts & Hardware
General Fittings
Brackets
Beam Clamps
Pipe & Conduit Supports
Electrical Fittings
Spring Steel
Concrete Inserts
Rooftop Supports
Technical Data

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

Hydra-Zorb® Premier Cushioned Clamp

Pipe & Metric Sizes

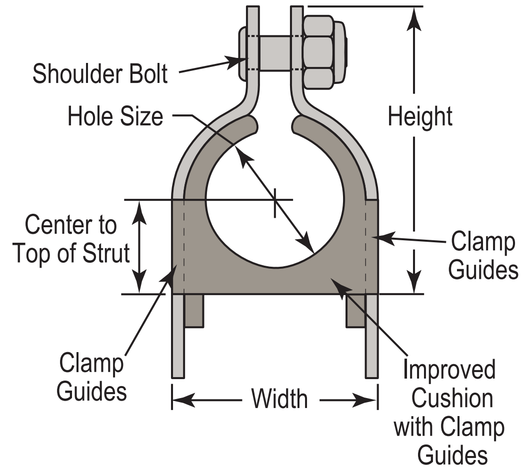
- Made in USA, Meets - Buy America Act
- UL Classified 2043 (25/50) for use in plenums and air handling systems
- Specified MSS-SP 58 Type 60 and Type 61
- Clamps are 1008-1010 carbon steel
- Eliminate shock and vibration
- Studs are projection welded
- Nylon insert locknut
- Resist most fuels, oils, gases, greases, solvents, mineral acids and other harsh materials
- UV resistant
- Allow fluid conductors to be added or removed from installations without disturbing adjacent lines
- Assembled or disassembled with a single hand or power wrench for fast and simple installation
- Permit various size lines to be mixed to suit installation
- All metal components have a yellow Tri-Valent (non-hex) plating
- Also available in EG Clear, 304 SS, 316 SS and Aluminum
- Cushion material is a thermoplastic elastomer
- Temperature rating: -65°F to +275°F *(-53.9°C to +135°C)*

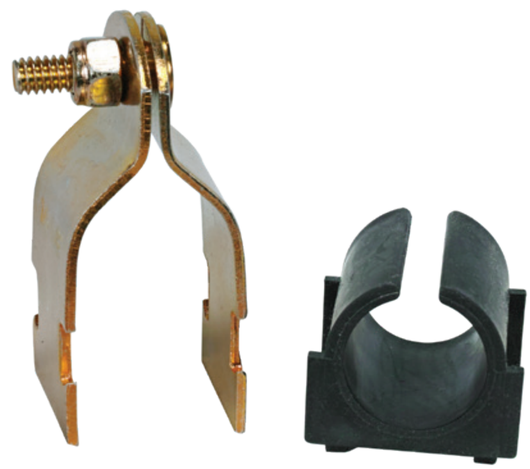


Nominal Pipe Sizes					
Part No.	Nom. Pipe	Hole Size	Width	Center to Top of Strut	Height
200025	¼"	0.540"	0.91"	0.63"	1.41"
200037	⅜"	0.675"	1.07"	0.45"	1.59"
200050	½"	0.840"	1.45"	0.59"	1.91"
200075	¾"	1.050"	1.79"	0.72"	2.16"
200100	1"	1.315"	2.22"	0.91"	2.75"
200125	1-¼"	1.660"	2.47"	1.03"	3.03"
200150	1-½"	1.900"	2.47"	1.16"	3.28"
200200	2"	2.375"	3.22"	1.41"	3.78"
200250	2-½"	2.875"	3.72"	1.66"	4.27"
200300	3"	3.500"	4.36"	1.97"	4.91"
200350	3-½"	4.000"	4.97"	2.28"	5.53"
200400	4"	4.500"	5.47"	2.53"	6.03"
200500	5"	5.563"	6.47"	3.03"	7.03"
200600	6"	6.625"	7.62"	3.53"	8.03"
200800	8"	8.625"	9.36"	5.00"	10.61"
Additional sizes available on request.					

Metric Pipe Sizes				
Part No.	Metric Pipe Sizes	Width	Center to Top of Strut	Height
20MMHZ	20mm	1.33"	0.53"	1.78"
25MMHZ	25mm	1.66"	0.66"	2.03"
32MMHZ	32mm	1.92"	0.78"	2.30"
40MMHZ	40mm	2.22"	0.91"	2.75"
50MMHZ	50mm	2.72"	1.16"	3.28"
63MMHZ	63mm	3.47"	1.53"	4.03"
75MMHZ	75mm	3.97"	1.78"	4.52"
90MMHZ	90mm	4.36"	1.97"	4.91"
110MMHZ	110mm	5.30"	2.44"	5.76"
125MMHZ	125mm	6.15"	2.71"	6.55"
160MMHZ	160mm	7.70"	3.41"	7.95"
Additional sizes available on request.				

Premier Cushioned Clamp
Tubing Sizes





Tubing O.D. Sizes						
Part No.	**Tubing O.D.**	**Copper (Nom.)**	**Hole Size**	**Width**	**Center to Top of Strut**	**Height**
100025	1/4"	-	0.250"	0.62"	0.22"	1.11"
100031	5/16"	-	0.313"	0.75"	0.28"	1.24"
100037	3/8"	1/4"	0.375"	0.75"	0.28"	1.24"
100047	0.47"	-	0.470"	0.87"	0.34"	1.36"
100050	1/2"	3/8"	0.500"	0.87"	0.34	1.36"
100062	5/8"	1/2"	0.625"	1.00"	0.41	1.50"
100075	3/4"	5/8"	0.750"	1.33"	0.53"	1.78"
100087	7/8"	3/4"	0.870"	1.45"	0.58"	1.91"
100100	1"	-	1.000"	1.66"	0.66"	2.03"
100112	1-1/8"	1"	1.125"	1.79"	0.72"	2.16"
100119	1.19"	-	1.190"	1.92"	0.72"	2.30"
100125	1-1/4"	-	1.250"	1.92"	0.78"	2.30"
100137	1-3/8"	1-1/4"	1.375"	2.22"	0.91"	2.75"
100150	1-1/2"	-	1.500"	2.22"	0.91"	2.75"
100162	1-5/8"	1-1/2"	1.625"	2.47"	1.03"	3.03"
100175	1-3/4"	-	1.750"	2.47"	1.03"	3.03"
100187	1-7/8"	-	1.900"	2.47"	1.16"	3.28"
100200	2"	-	2.000"	2.72"	1.16"	3.28"
100212	2-1/8"	2"	2.125"	2.97"	1.28"	3.53"
100225	2-1/4"	-	2.370"	3.22"	1.41"	3.78"
100237	2-3/8"	-	2.370"	3.22"	1.41"	3.78"
100251	2-1/2"	-	2.500"	3.47"	1.53"	4.03"
100262	2-5/8"	2-1/2"	2.625"	3.47"	1.53"	4.03"
100287	2-7/8"	-	2.870"	3.73"	1.65"	4.28"
100300	3"	-	3.000"	3.97"	1.78"	4.52"
100312	3-1/8"	3"	3.125"	3.97"	1.78"	4.52"
100337	3-3/8"	-	3.375"	4.09"	1.89"	4.84"
100362	3-5/8"	3-1/2"	3.625"	4.47"	2.03"	5.03"
100400	4"	-	4.000"	4.80"	2.28"	5.50"
100412	4-1/8"	4"	4.125"	5.09"	2.34"	5.66"
100425	4-1/4"	-	4.250"	5.21"	2.40"	5.76"
100431	4-5/16"	-	4.340"	5.27"	2.44"	5.85"
100437	4-3/8"	-	4.375"	5.33"	2.47"	5.92"
100462	4-5/8"	-	4.625"	5.59"	2.60"	6.17"
100492	4.92"	-	4.920"	5.88"	2.74"	6.46"
100500	5"	-	5.000"	6.25"	2.81"	6.75"
100512	5-1/8"	5"	5.125"	6.25"	2.81"	6.75"
100600	6"	-	6.000"	7.50"	3.31"	7.75"
100612	6-1/8"	6"	6.125"	7.50"	3.31"	7.75"
100631	6-5/16"	-	6.313"	7.71"	3.44"	8.06"
100637	6-3/8"	-	6.375"	7.77"	3.47"	8.12"
100650	6-1/2"	-	6.500"	7.90"	3.53"	8.25"

Additional sizes available on request.

TITAN® Insulation Riser Clamp

TITAN® Insulation Riser Clamp Series

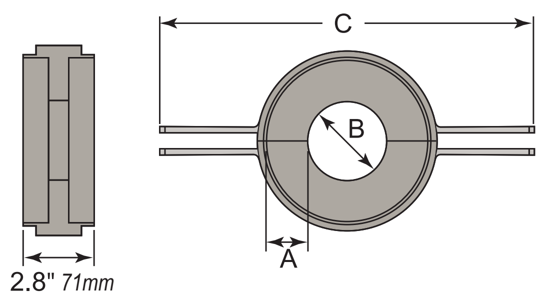
The patented Titan riser is made to fit insulated pipe and create a clean vapor barrier on vertical pipe runs. Klo-Shure Titan riser will dramatically improve the fit and finish of insulated tube and pipe runs.

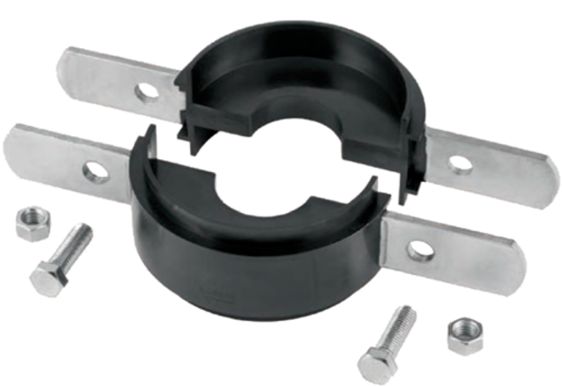
- Made in USA, Meets - Buy America Act
- Superior vapor barrier
- Three times faster installation of insulation
- Crush resistant design
- Dramatically improved finished appearance of insulated tube & pipe runs
- Eliminates insulation compression
- Available for ⅞" to 4-⅛" OD tube
- Insulation wall thickness from 1" to 1-½"
- Molded with high strength TPO plastic

Upper floor insulation from above.

Riser clamp assembly secures and supports the weight of pipe or tubing.

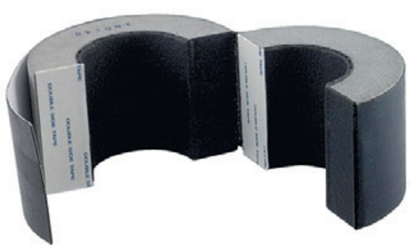
Pipe or tubing and insulation through floor.

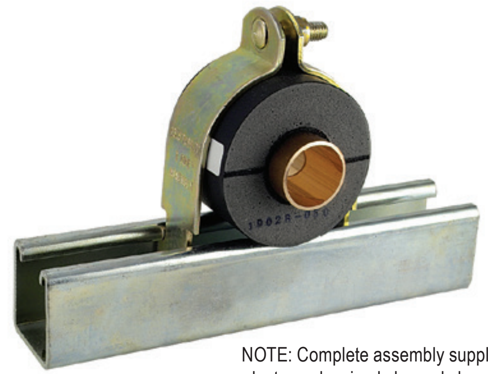




Part No.	Dimensions (in)			
	A Wall Thickness	B OD Size	C	Load Data Lbs
R087100	1" (25mm)	⅞" (22mm)	10-¼" (260mm)	75 (0.33 kN)
R112100		1-⅛"(29mm)	10-⅞" (276mm)	120 (0.53 kN)
R137100		1-⅜" (35mm)	11-½" (292mm)	150 (0.67 kN)
R162100		1-⅝" (41mm)	11-½" (292mm)	150 (0.67 kN)
R212100		2-⅛" (54mm)	11-½" (292mm)	190 (0.85 kN)
R262100		2-⅝" (67mm)	12-½" (318mm)	300 (1.34 kN)
R312100		3-⅛" (79mm)	12-½" (318mm)	300 (1.34 kN)
R412100		4-⅛" (105mm)	13.8" (351mm)	320 (1.42 kN)
R087150	1-½" (38mm)	⅞" (22mm)	10-⅞" (276mm)	75 (0.33 kN)
R112150		1-⅛"(29mm)	10-⅞" (276mm)	120 (0.67 kN)
R137150		1-⅜" (35mm)	11-½" (292mm)	150 (0.67 kN)
R162150		1-⅝" (41mm)	11-½" (292mm)	150 (0.67 kN)
R212150		2-⅛" (54mm)	12" (305mm)	150 (0.67 kN)
R262150		2-⅝" (67mm)	12" (305mm)	300 (1.34 kN)
R312150		3-⅛" (79mm)	13" (330mm)	300 (1.34 kN)
R412150		4-⅛" (105mm)	15-⅝" (397mm)	300 (1.34 kN)

Airtight Crush-Resistant Insulation Clamp





NOTE: Complete assembly supplied with gold electro-galvanized channel clamp and hardware

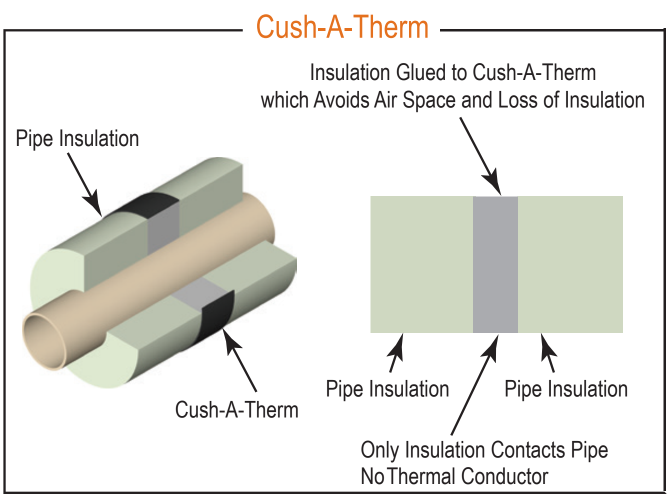
Cush-A-Therm Clamp is a perfect crush-resistant airtight seal for chilled refrigeration or mechanical pipe lines that require continuous insulation.

The rigid foam construction has an insulating tape inner lining which supports tube and absorbs vibration of operating pipe lines.

The outer cover consists of a special rubber coating which seals the cushion after installation in order to prevent condensation.

It's strong closed-cell structure is ideal for liquid cooling lines to prevent condensation, save energy, and maintain the vapor barrier.

- Temperature range: -70°F to +250°F *(-56.7°C to +121°C)*
- Flammability is Self-Extinguishing as tested under ASTM D 635
- Maintains thermal barrier protection
- Tested in Conformance with ASTM E84 (UL 723, NFPA 255) having results of 0 FSI (Flame Spread Index) and 50 SDI (Smoke Developed Index)
- Prevents condensation
- Properly supports pipe and tube
- Absorbs vibration
- Polyurethane foam laminated with a rubber lining



ASHRAE Insulation Recommendations

Cush-A-Therm is designed to meet the ASHRAE recommendations for insulation for mechanical systems which indicate that insulated pipe hangers should provide the following:

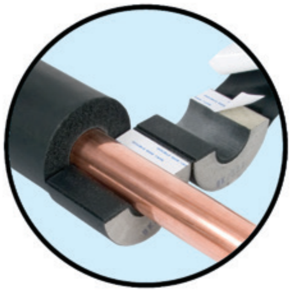
1. Complete sealing of pipe against water vapor ingress
2. No energy transfer of cold to supporting clamp to prevent condensation of water and possible growth of mold. If the support encasing the insulation is in contact with the pipe or tube and supported by a metallic clamp, which is not protected by insulation, below ambient temperatures will be transferred to the clamp causing energy transfer and condensation.
3. No interruption of the insulation envelope
4. Limit or avoid compression at support location

ASHRAE Section 23.13-23.14 further states “when the goal is avoiding compression of low-compressive-strength insulation products, it is recommended to use high-strength insulation inserts made of a product that offers the desired compressive strength and other necessary performance properties. Other higher-strength materials that are not thermal insulation material and interrupt the insulation envelope, or do not allow complete sealing of an insulation system against water vapor ingress are not recommended for supporting insulated piping on pipe hangers. Note that wood blocks have poor thermal conductivity and are not recommended, especially for cold pipe systems.”

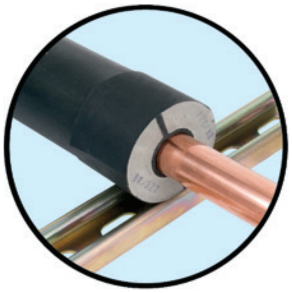
Insulated cold piping should receive special attention when exposed to ambient or unconditioned air. The Cush-A-Therm is a product that seals out air, and insulates the pipe/tube from the supporting clamp, and is therefore in compliance with the 2013 ASHRAE insulation recommendations.

Cush-A-Therm®

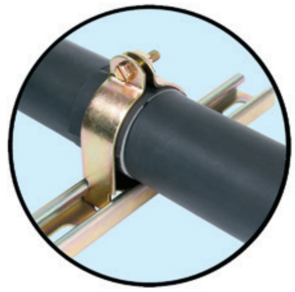
INSTALLATION IS AS EASY AS 1-2-3!



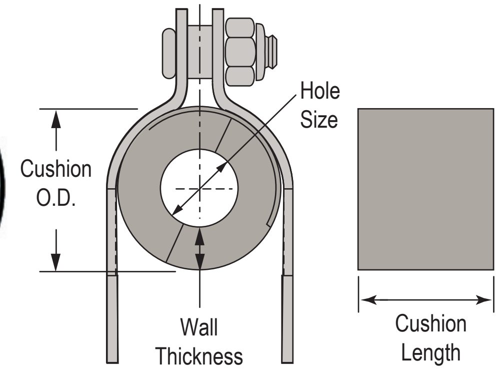
1. Insulation slides over pipes. Self adhesive surfaces provide seal.



2 Put in place and glue to insulation.

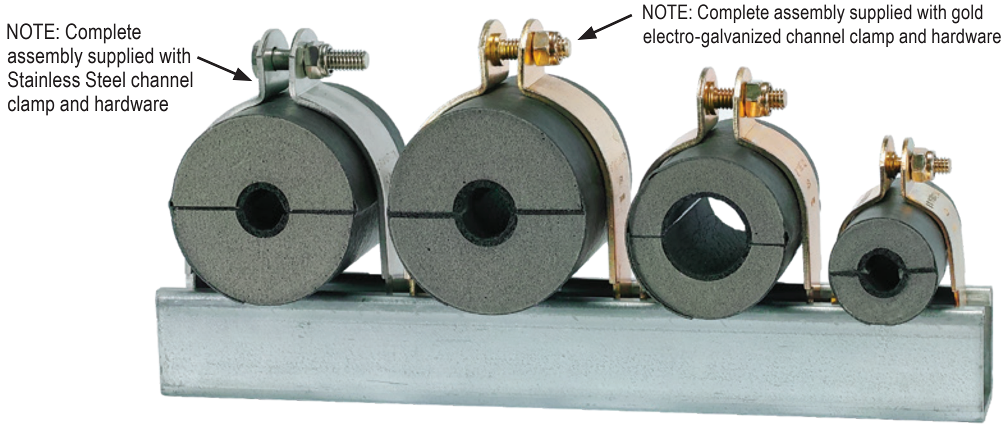


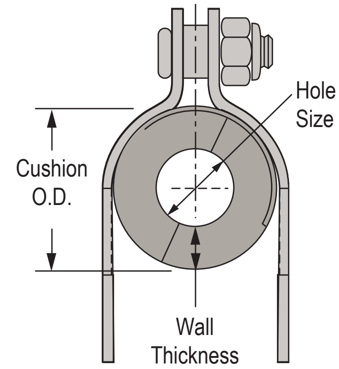
3. Wrap and seal with ProTape.



Dimensions (Inches)					Nominal ½" *(13mm)* Wall Thickness				Nominal ¾" *(19mm)* Wall Thickness			
Hole Size	Copper I.D.	Pipe O.D.	IPS	Cushion Length	Part No.			Cushion O.D.	Part No.			Cushion O.D.
					Steel	SS 304	SS 316		Steel	SS 304	SS 316	
¼" *(6mm)*	-	¼"	-		UX1412	UX1412SS	UX1412S6	1¼" (1.250") *(32mm)*	UX1434	UX1434SS	UX1434S6	1¾" (1.750") *(45mm)*
⅜" *(10mm)*	¼"	⅜"	-	2.953" *(75mm)*	UX3812	UX3812SS	UX3812S6	1⅜" (1.375") *(35mm)*	UX3834	UX3834SS	UX3834S6	1⅞" (1.875") *(48mm)*
½" *(13mm)*	⅜"	½"	¼"		UX1212	UX1212SS	UX1212S6	1½" (1.500") *(38mm)*	UX1234	UX1234SS	UX1234S6	2" (2.000") *(51mm)*
⅝" *(16mm)*	½"	⅝"	⅜"		UX5812	UX5812SS	UX5812S6	1⅝" (1.625") *(41mm)*	UX5834	UX5834SS	UX5834S6	2⅛" (2.125") *(54mm)*
¾" *(19mm)*	⅝"	¾"	-	2.953" *(75mm)*	UX3412	UX3412SS	UX3412S6	1¾" (1.750") *(45mm)*	UX3434	UX3434SS	UX3434S6	2¼" (2.250") *(57mm)*
⅞" *(22mm)*	¾"	⅞"	½"		UX7812	UX7812SS	UX7812S6	1⅞" (1.875") *(48mm)*	UX7834	UX7834SS	UX7834S6	2⅜" (2.375") *(60mm)*
1-⅛" *(29mm)*	1"	1⅛"	¾"		UX11812	UX11812SS	UX11812S6	2⅛" (2.125") *(54mm)*	UX11834	UX11834SS	UX11834S6	2⅝" (2.625") *(67mm)*
1-⅜" *(35mm)*	1¼"	1⅜"	1"	2.953" *(75mm)*	UX13812	UX13812SS	UX13812S6	2⅜" (2.375") *(60mm)*	UX13834	UX13834SS	UX13834S6	2⅞" (2.875") *(73mm)*
1-⅝" *(41mm)*	1½"	1⅝"	1¼"		UX15812	UX15812SS	UX15812S6	2⅝" (2.625") *(67mm)*	UX15834	UX15834SS	UX15834S6	3⅛" (3.125") *(79mm)*
1-⅞" *(48mm)*	–	1⅞"			UX17812	UX17812SS	UX17812S6	2⅞" (2.875") *(73mm)*	UX17834	UX17834SS	UX17834S6	3⅜" (3.375") *(86mm)*
2-⅛" *(54mm)*	2"	2⅛"	-	2.953" *(75mm)*	UX21812	UX21812SS	UX21812S6	3⅛" (3.125") *(79mm)*	UX21834	UX21834SS	UX21834S6	3⅝" (3.625") *(92mm)*
2-⅜" *(60mm)*	2¼"	2⅜"	2"		UX23812	UX23812SS	UX23812S6	3⅜" (3.375") *(86mm)*	UX23834	UX23834SS	UX23834S6	3⅞" (3.875") *(98mm)*
2-⅝" *(67mm)*	2½"	2⅝"	-		UX25812	UX25812SS	UX25812S6	3⅝" (3.625") *(92mm)*	UX25834	UX25834SS	UX25834S6	4⅛" (4.125") *(105mm)*
2-⅞" *(73mm)*	–	2⅞"	2½"	3.937" *(100mm)*	UX27812	UX27812SS	UX27812S6	3⅞" (3.875") *(98mm)*	UX27834	UX27834SS	UX27834S6	4⅜" (4.375") *(111mm)*
3-⅛" *(79mm)*	3"	3⅛"	-		UX31812	UX31812SS	UX31812S6	4⅛" (4.125") *(105mm)*	UX31834	UX31834SS	UX31834S6	4⅝" (4.625") *(118mm)*
3-½" *(89mm)*	–	3½"	3"		UX31212	UX31212SS	UX31212S6	4½" (4.500") *(114mm)*	UX31234	UX31234SS	UX31234S6	5" (5.000") *(127mm)*
3-⅝" *(92mm)*	3½"	3⅝"	-	3.937" *(100mm)*	UX35812	UX35812SS	UX35812S6	4⅝" (4.625") *(118mm)*	UX35834	UX35834SS	UX35834S6	5⅛" (5.125") *(130mm)*
4-⅛" *(105mm)*	4"	4-⅛"	3½"		UX41812	UX41812SS	UX41812S6	5⅛" (5.125") *(130mm)*	UX41834	UX41834SS	UX41834S6	5⅝" (5.625") *(143mm)*

Cush-A-Therm®

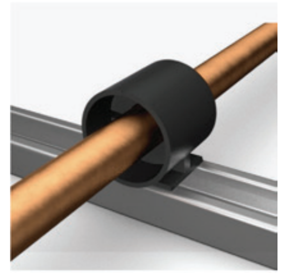


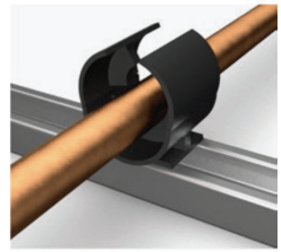


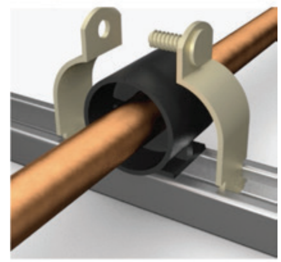
Hole Size	Nominal 1" *(25mm)* Wall Thickness				Nominal 1-½" *(38mm)* Wall Thickness				Nominal 2" *(51mm)* Wall Thickness			
	Part No.			Cushion O.D.	Part No.			Cushion O.D.	Part No.			Cushion O.D.
	Steel	SS 304	SS 316		Steel	SS 304	SS 316		Steel	SS 304	SS 316	
¼" *(6mm)*	UX1410	UX1410SS	UX1410S6	2¼" (2.250") *(57mm)*	UX1415	UX1415SS	UX1415S6	3¼" (3.250") *(83mm)*	–	–	–	–
⅜" *(10mm)*	UX3810	UX3810SS	UX3810S6	2⅜" (2.375") *(60mm)*	UX3815	UX3815SS	UX3815S6	3⅜" (3.375") *(86mm)*	–	–	–	–
½" *(13mm)*	UX1210	UX1210SS	UX1210S6	2½" (2.500") *(64mm)*	UX1215	UX1215SS	UX1215S6	3½" (3.500") *(89mm)*	–	–	–	–
⅝" *(16mm)*	UX5810	UX5810SS	UX5810S6	2⅝" (2.625") *(67mm)*	UX5815	UX5815SS	UX5815S6	3⅝" (3.625") *(92mm)*	UX5820	UX5820SS	UX5820S6	4⅝" (4.625") *(118mm)*
¾" *(19mm)*	UX3410	UX3410SS	UX3410S6	2¾" (2.750") *(70mm)*	UX3415	UX3415SS	UX3415S6	3¾" (3.750") *(95mm)*	UX3420	UX3420SS	UX3420S6	4¾" (4.750") *(121mm)*
⅞" *(22mm)*	UX7810	UX7810SS	UX7810S6	2⅞" (2.875") *(73mm)*	UX7815	UX7815SS	UX7815S6	3⅞" (3.875") *(98mm)*	UX7820	UX7820SS	UX7820S6	4⅞" (4.875") *(124mm)*
1-⅛" *(29mm)*	UX11810	UX11810SS	UX11810S6	3⅛" (3.125") *(79mm)*	UX11815	UX11815SS	UX11815S6	4⅛" (4.125") *(105mm)*	UX11820	UX11820SS	UX11820S6	5⅛" (5.125") *(130mm)*
1-⅜" *(35mm)*	UX13810	UX13810SS	UX13810S6	3⅜" (3.375") *(86mm)*	UX13815	UX13815SS	UX13815S6	4⅜" (4.375") *(111mm)*	UX13820	UX13820SS	UX13820S6	5⅜" (5.375") *(137mm)*
1-⅝" *(41mm)*	UX15810	UX15810SS	UX15810S6	3⅝" (3.625") *(92mm)*	UX15815	UX15815SS	UX15815S6	4⅝" (4.625") *(118mm)*	UX15820	UX15820SS	UX15820S6	5⅝" (5.625") *(143mm)*
1-⅞" *(48mm)*	UX17810	UX17810SS	UX17810S6	3⅞" (3.875") *(98mm)*	UX17815	UX17815SS	UX17815S6	4⅞" (4.875") *(124mm)*	UX17820	UX17820SS	UX17820S6	5⅞" (5.875") *(149mm)*
2-⅛" *(54mm)*	UX21810	UX21810SS	UX21810S6	4⅛" (4.125") *(105mm)*	UX21815	UX21815SS	UX21815S6	5⅛ (5.125") *(130mm)*	UX21820	UX21820SS	UX21820S6	6⅛" (6.125") *(156mm)*
2-⅜" *(60mm)*	UX23810	UX23810SS	UX23810S6	4⅜" (4.375") *(111mm)*	UX23815	UX23815SS	UX23815S6	5⅜" (5.375") *(137mm)*	UX23820	UX23820SS	UX23820S6	6⅜" (6.375") *(162mm)*
2-⅝" *(67mm)*	UX25810	UX25810SS	UX25810S6	4⅝" (4.625") *(118mm)*	UX25815	UX25815SS	UX25815S6	5⅝" (5.625") *(143mm)*	UX25820	UX25820SS	UX25820S6	6⅝" (6.625") *(168mm)*
2-⅞" *(73mm)*	UX27810	UX27810SS	UX27810S6	4⅞" (4.875") *(124mm)*	UX27815	UX27815SS	UX27815S6	5⅞" (5.875") *(149mm)*	UX27820	UX27820SS	UX27820S6	6⅞" (6.875") *(175mm)*
3-⅛" *(79mm)*	UX31810	UX31810SS	UX31810S6	5⅛" (5.125") *(130mm)*	UX31815	UX31815SS	UX31815S6	6⅛" (6.125") *(156mm)*	UX31820	UX31820SS	UX31820S6	7⅛" (7.125") *(181mm)*
3-½" *(89mm)*	UX31210	UX31210SS	UX31210S6	5½" (5.500") *(140mm)*	UX31215	UX31215SS	UX31215S6	6½" (6.500") *(165mm)*	UX31220	UX31220SS	UX31220S6	7½" (7.500") *(191mm)*
3-⅝" *(92mm)*	UX35810	UX35810SS	UX35810S6	5⅝" (5.625") *(143mm)*	UX35815	UX35815SS	UX35815S6	6⅝" (6.625") *(168mm)*	UX35820	UX35820SS	UX35820S6	7⅝" (7.625") *(1200mm)*
4-⅛" *(105mm)*	UX41810	UX41810SS	UX41810S6	6⅛" (6.125") *(156mm)*	UX41815	UX41815SS	UX41815S6	7⅛" (7.125") *(181mm)*	UX41820	UX41820SS	UX41820S6	8⅛" (8.125") *(206mm)*

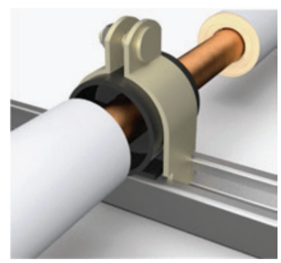
Klo-Shure® Insulation Couplings

Patented Klo-Shure® Insulation Couplings allow sections of closed-cell, elastomeric or fiberglass insulation to be secured, eliminating most secondary operations at suspension points. It can also be used to simply join and secure two lengths of insulation.





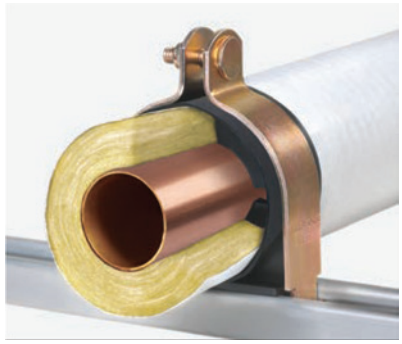




7-Series Strut Mount

For elastomeric insulation. Supports and secures tubing in strut mounted applications.

9-Series Strut Mount



For fiberglass insulation, available in copper tube, iron pipe and mm sizing.

Features:

- All insulated copper tube and iron pipe lines are to be secured using can be insulated and secured
- Insulation is inserted inside coupling until it contacts internal wall
- Secondary operations (glue + tape) can be performed at installer's discretion
- Entire assembly can be assembled or disassembled with a single hand or power wrench
- Keep conductor runs as straight as possible.
- Overwrap of Klo-Shure coupling with insulation is not required
- Acceptable for horizontal and vertical installations

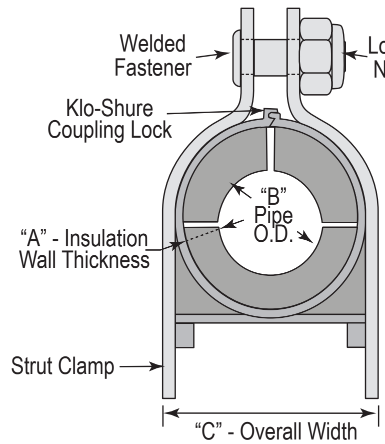
Specification Data & Guidelines:

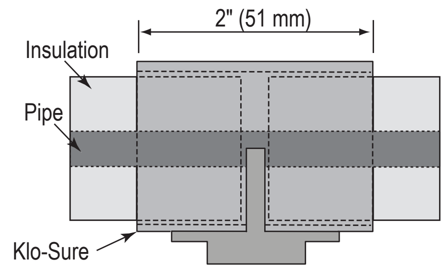
- Made in USA
- UL Classified 2043 (25/50) for use in plenums and air handling systems
- Specified MSS-SP 58 Type 60 and Type 61
- Manufactured from high strength TPO plastic
- Superior vapor barrier
- Three times faster installation of closed-cell elastomeric and fiberglass insulation
- Dramatically improved finished appearance of insulated tubing
- UV resistan
- Eliminates insulation compression at suspension points
- Available with strut mounted clamps and clevis hangers
  - OD tube from ¼" to 4-⅛"
  - Nominal pipe ½" to 3"
  - Metric sizes 25mm –110mm
- All metal components have a yellow Trivalent (non-hex) plating

Klo-Shure® Insulation Couplings

7-Series for Elastomeric Insulation

7-Series Strut Mount



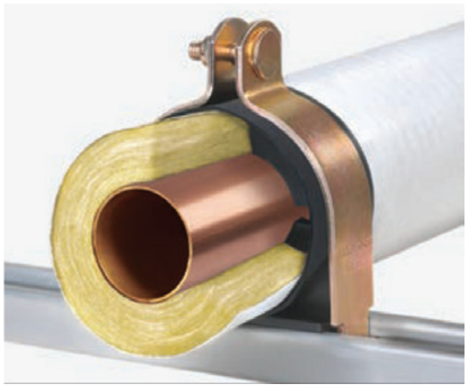


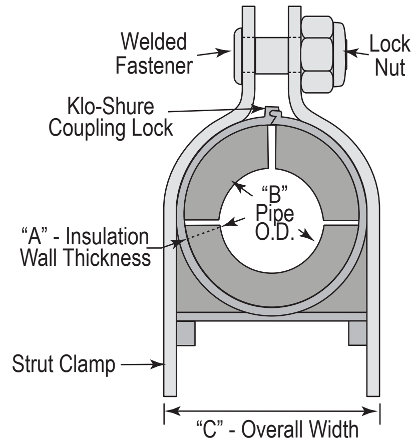
Part No.	Insulation Wall Thickness	Copper Tube O.D.	C Overall Width
723025		¼" OD	1.12" *(28mm)*
723037		⅜" OD	1.25" *(32mm)*
723050		½" OD	1.37" *(35mm)*
723062		⅝" OD	1.50" *(38mm)*
723075		¾" OD	1.62" *(41mm)*
723087	⅜"	⅞" OD	1.75" *(44mm)*
723100		1" OD	1.87" *(47mm)*
723112		1-⅛" OD	2.00" *(51mm)*
723137		1-⅜" OD	2.25" *(57mm)*
723162		1-⅝" OD	2.50" *(64mm)*
723212		2-⅛" OD	3.00" *(76mm)*
724025		¼" OD	1.12" *(28mm)*
724037		⅜" OD	1.50" *(38mm)*
724050		½" OD	1.62" *(41mm)*
724062		⅝" OD	1.75" *(44mm)*
724075		¾" OD	1.87" *(47mm)*
724087		⅞" OD	2.00" *(51mm)*
724100		1" OD	2.12" *(54mm)*
724112	½"	1-⅛" OD	2.25" *(57mm)*
724137		1-⅜" OD	2.50" *(64mm)*
724162		1-⅝" OD	2.75" *(70mm)*
724212		2-⅛" OD	3.25" *(83mm)*
724262		2-⅝" OD	3.75" *(95mm)*
724312		3-⅛" OD	4.25" *(108mm)*
724362		3-⅝" OD	4.75" *(121mm)*
724412		4-⅛" OD	5.25" *(133mm)*
726025		¼" OD	1.87" *(47mm)*
726037		⅜" OD	2.00" *(51mm)*
726050		½" OD	2.12" *(54mm)*
726062		⅝" OD	2.25" *(57mm)*
726075		¾" OD	2.37" *(60mm)*
726087		⅞" OD	2.50" *(64mm)*
726112	¾"	1-⅛" OD	2.75" *(70mm)*
726137		1-⅜" OD	3.00" *(76mm)*
726162		1-⅝" OD	3.25" *(83mm)*
726212		2-⅛" OD	3.75" *(95mm)*
726262		2-⅝" OD	4.25" *(108mm)*
726312		3-⅛" OD	4.75" *(121mm)*
726362		3-⅝" OD	5.25" *(133mm)*
726412		4-⅛" OD	5.75" *(146mm)*

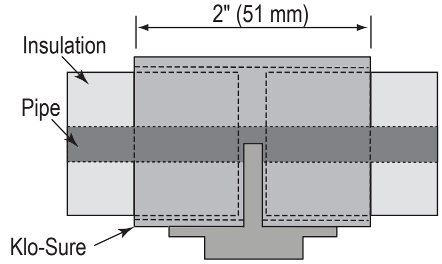
Part No.	Insulation Wall Thickness	Copper Tube O.D.	C Overall Width
728025		¼" OD	2.37" *(60mm)*
728031		5/16" OD	2.43" *(62mm)*
728037		⅜" OD	2.50" *(64mm)*
728050		½" OD	2.62" *(67mm)*
728062		⅝" OD	2.75" *(70mm)*
728075		¾" OD	2.87" *(73mm)*
728087		⅞" OD	3.00" *(76mm)*
728112	1"	1-⅛" OD	3.25" *(83mm)*
728137		1-⅜" OD	3.50" *(89mm)*
728162		1-⅝" OD	3.75" *(95mm)*
728212		2-⅛" OD	4.25" *(108mm)*
728262		2-⅝" OD	4.75" *(121mm)*
728312		3-⅛" OD	5.25" *(133mm)*
728362		3-⅝" OD	5.75" *(146mm)*
728412		4-⅛" OD	6.25" *(159mm)*
729031		5/16" OD	3.43" *(87mm)*
729037		⅜" OD	3.50" *(89mm)*
729050		½" OD	3.62" *(92mm)*
729062		⅝" OD	3.75" *(95mm)*
729087		⅞" OD	4.00" *(102mm)*
729112	1-½"	1-⅛" OD	4.25" *(108mm)*
729137		1-⅜" OD	4.50" *(114mm)*
729162		1-⅝" OD	4.75" *(121mm)*
729212		2-⅛" OD	5.25" *(133mm)*
729262		2-⅝" OD	5.75" *(146mm)*
729312		3-⅛" OD	6.25" *(159mm)*
729412		3-⅝" OD	7.25" *(184mm)*

Klo-Shure® Insulation Couplings
9-Series for Fiberglass Insulation

9-Series Strut Mount





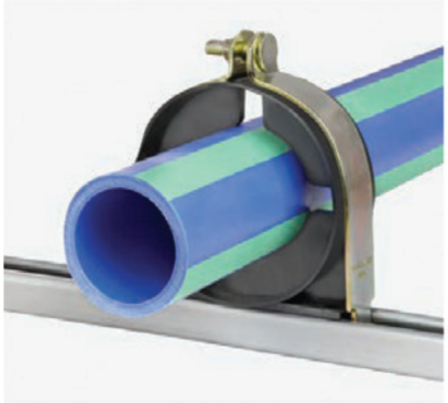


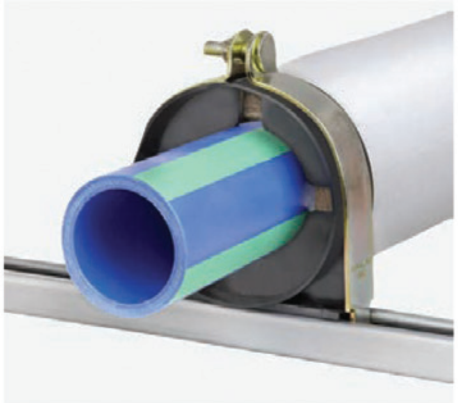
Part No.	Insulation Wall Thickness	Copper Tube O.D.	C Overall Width
924062	1/2"	5/8" OD	1.79" *(45mm)*
924087		7/8" OD	2.03" *(51mm)*
924112		1-1/8" OD	2.29" *(58mm)*
924137		1-3/8" OD	2.50" *(64mm)*
924162		1-5/8" OD	2.85" *(72mm)*
924212		2-1/8" OD	3.29" *(83mm)*
928062	1"	5/8" OD	3.01" *(76mm)*
928087		7/8" OD	3.01" *(76mm)*
928112		1-1/8" OD	3.01" *(76mm)*
928137		1-3/8" OD	3.64" *(92mm)*
928162		1-5/8" OD	3.64" *(92mm)*
928212		2-1/8" OD	4.14" *(105mm)*
928262		2-5/8" OD	4.65" *(118mm)*
928312		3-1/8" OD	5.14" *(131mm)*
928362		3-5/8" OD	5.69" *(145mm)*
928412		4-1/8" OD	6.87" *(174mm)*
928512		5-1/8" OD	7.87" *(200mm)*
929087	1-1/2"	7/8" OD	4.14" *(105mm)*
929112		1-1/8" OD	4.14" *(105mm)*
929137		1-3/8" OD	4.65" *(118mm)*
929162		1-5/8" OD	5.14" *(131mm)*
929212		2-1/8" OD	5.14" *(131mm)*
929262		2-5/8" OD	5.69" *(145mm)*
929312		3-1/8" OD	6.87" *(174mm)*
929362		3-5/8" OD	6.87" *(174mm)*
929412		4-1/8" OD	7.87" *(200mm)*
922062	2"	5/8" OD	4.65" *(118mm)*
922087		7/8" OD	5.14" *(131mm)*
922112		1-1/8" OD	5.14" *(131mm)*
922137		1-3/8" OD	5.7" *(145mm)*
922162		1-5/8" OD	5.7" *(145mm)*
922212		2-1/8" OD	6.87" *(174mm)*
922262		2-5/8" OD	6.87" *(174mm)*
922312		3-1/8" OD	7.87" *(200mm)*
922362		3-5/8" OD	7.87" *(200mm)*
922412		4-1/8" OD	8.87" *(225mm)*

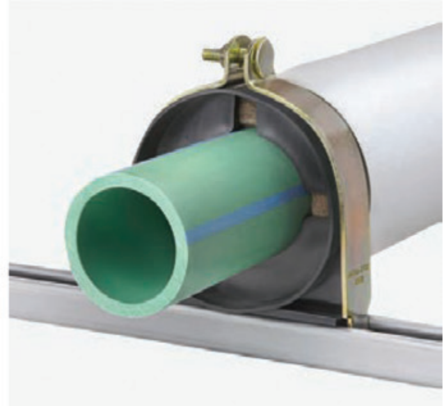
Part No.	Insulation Wall Thickness	Iron Pipe O.D.		C Overall Width
924084	1/2"	1/2" OD	0.840	2.03" *(52mm)*
924105		3/4" OD	1.050	2.29" *(58mm)*
924131		1" OD	1.315	2.50" *(64mm)*
924166		1-1/4" OD	1.660	2.85" *(72mm)*
924190		1-1/2" OD	1.900	3.29" *(84mm)*
928084	1"	1/2" OD	0.840	3.03" *(77mm)*
928105		3/4" OD	1.050	3.29" *(84mm)*
928131		1" OD	1.315	3.50" *(89mm)*
928166		1-1/4" OD	1.660	3.85" *(98mm)*
928190		1-1/2" OD	1.900	4.29" *(109mm)*
928237		2" OD	2.375	4.65" *(118mm)*
928287		2-1/2" OD	2.875	5.14" *(131mm)*
928350		3" OD	3.500	5.75" *(146mm)*
928362		3-5/8" OD	3.625	5.90" *(150mm)*
928412		4-1/8" OD	4.125	6.40" *(163mm)*
928512		5-1/8" OD	5.125	7.40" *(188mm)*
929084	1-1/2"	1/2" OD	0.840	4.03" *(102mm)*
929105		3/4" OD	1.050	4.29" *(109mm)*
929131		1" OD	1.315	4.50" *(114mm)*
929166		1-1/4" OD	1.660	4.85"*(123mm)*
929190		1-1/2" OD	1.900	5.29" *(134mm)*
929262		2-5/8" OD	3.625	6.87" *(175mm)*
929312		3-1/8" OD	4.125	7.37" *(187mm)*
929350		3" OD	3.500	6.74" *(171mm)*
929362		3-5/8" OD	3.625	6.87" *(175mm)*
929412		4-1/8" OD	4.125	7.37" *(187mm)*
922212	2"	2-1/8" OD	2.125	6.37" *(162mm)*
922262		2-5/8" OD	2.625	6.87" *(175mm)*
922312		3-1/8" OD	3.125	7.37" *(187mm)*
922362		3-5/8" OD	3.625	7.87" *(200mm)*

Klo-Shure® Insulation Couplings

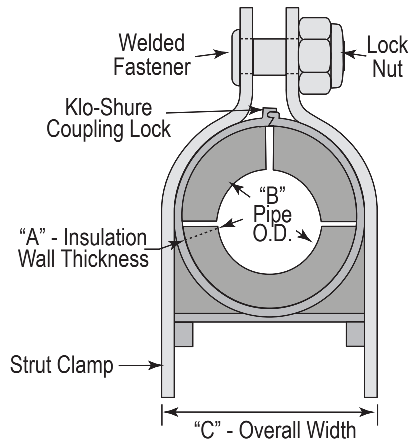
9-Series for Fiberglass Insulation

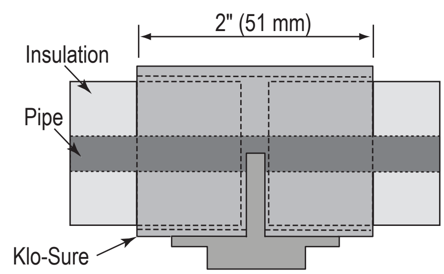






Part No.	Insulation Wall Thickness	Metric Pipe		C Overall Width
928M25	1"	25mm	0.98"	3.01 *(76mm)*
928M32		32mm	1.26"	3.64 *(92mm)*
928M40		40mm	1.57"	3.64 *(92mm)*
928M50		50mm	1.97"	4.14 *(105mm)*
928M63		63mm	2.48"	4.64 *(118mm)*
928M75		75mm	2.95"	5.14 *(131mm)*
928M90		90mm	3.54"	5.75 *(146mm)*
928M110		110mm	4.33"	6.87 *(174mm)*
929M25	1-½"	25mm	0.98"	4.13 *(105mm)*
929M32		32mm	1.26"	4.63 *(118mm)*
929M40		40mm	1.57"	5.14 *(131mm)*
929M50		50mm	1.97"	5.14 *(131mm)*
929M63		63mm	2.48"	5.69 *(145mm)*
929M75		75mm	2.95"	6.87 *(174mm)*
929M90		90mm	3.54"	6.87 *(174mm)*



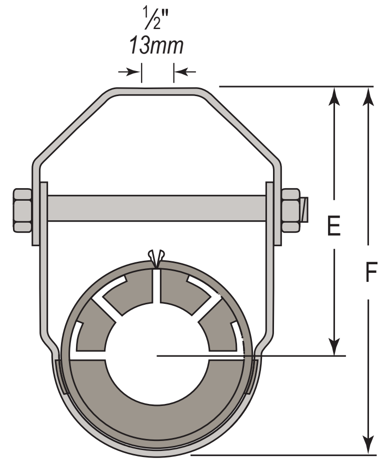


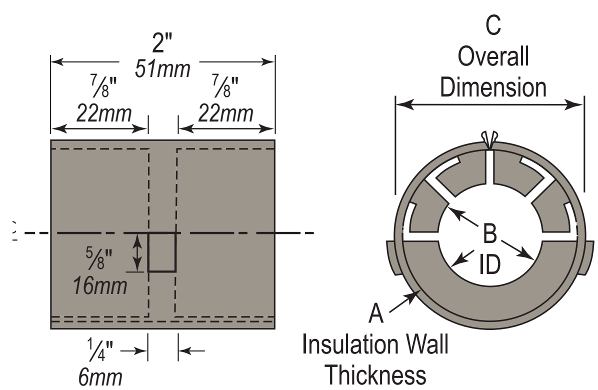
Clevis Hanger Insulation Couplings

Klo-Shure Clevis Hanger System includes clevis hanger, plastic coupling and fastening clip.

Part No.	Insulation Wall Thickness	Pipe O.D.	Dimensions (inches)		
			C	E	F
703025*	3/8"	1/4" OD	1.12 *(28mm)*	-	-
703037*		3/8" OD	1.25 *(32mm)*	-	-
703050*		1/2" OD	1.37 *(35mm)*	-	-
703062*		5/8" OD	1.50 *(38mm)*	-	-
703075*		3/4" OD	1.62 *(41mm)*	-	-
703087		7/8" OD	1.75 *(44mm)*	3-3/8" *(86mm)*	4-3/8" *(111mm)*
703100		1" OD	1.87 *(47mm)*	3-7/16" *(87mm)*	4-1/2" *(114mm)*
703112		1-1/8" OD	2.00 *(51mm)*	3-1/2" *(89mm)*	4-5/8" *(118mm)*
703137		1-3/8" OD	2.25 *(57mm)*	3-13/16" *(97mm)*	5" *(27mm)*
703162		1-5/8" OD	2.50 *(64mm)*	4" *(102mm)*	5-1/2" *(140mm)*
703212		2-1/8" OD	3.00 *(76mm)*	4-3/4" *(121mm)*	6-1/2" *(165mm)*
704037*	1/2"	3/8" OD	1.50 *(38mm)*	--	--
704050*		1/2" OD	1.62 *(41mm)*	--	--
704062		5/8" OD	1.75 *(44mm)*	3-3/8" *(86mm)*	4-3/8" *(111mm)*
704075		3/4" OD	1.87 *(47mm)*	3-7/16" *(87mm)*	4-1/2" *(114mm)*
704087		7/8" OD	2.00 *(51mm)*	3-1/2" *(89mm)*	4-5/8" *(118mm)*
704100		1" OD	2.12 *(54mm)*	3-5/8" *(92mm)*	4-7/8" *(124mm)*
704112		1-1/8" OD	2.25 *(57mm)*	3-13/16" *(97mm)*	5" *(127mm)*
704137		1-3/8" OD	2.50 *(64mm)*	4" *(102mm)*	5-1/2" *(140mm)*
704162		1-5/8" OD	2.75 *(70mm)*	4-3/8" *(111mm)*	5-7/8" *(149mm)*
704212		2-1/8" OD	3.25 *(83mm)*	5-1/8" *(130mm)*	6-7/8" *(175mm)*
704262		2-5/8" OD	3.75 *(95mm)*	5-5/8" *(143mm)*	7-5/8" *(194mm)*
704312		3-1/8" OD	4.25 *(108mm)*	6-7/16" *(164mm)*	8-3/4" *(222mm)*
704362		3-5/8" OD	4.75 *(121mm)*	6-7/8" *(175mm)*	9-3/8" *(238mm)*
704412		4-1/8" OD	5.25 *(133mm)*	7-1/2" *(191mm)*	10-1/8" *(257mm)*
706025	3/4"	1/4" OD	1.87 *(47mm)*	3-7/16" *(87mm)*	4-1/2" *(114mm)*
706037		3/8" OD	2.00 *(51mm)*	3-1/2" *(89mm)*	4-5/8" *(118mm)*
706050		1/2" OD	2.12 *(54mm)*	3-5/8" *(92mm)*	4-7/8" *(124mm)*
706062		5/8" OD	2.25 *(57mm)*	3-13/16" *(97mm)*	5" *(127mm)*
706075		3/4" OD	2.37 *(60mm)*	3-15/16" *(100mm)*	5-1/4" *(133mm)*
706087		7/8" OD	2.50 *(64mm)*	4" *(102mm)*	5-1/2" *(140mm)*
706112		1-1/8" OD	2.75 *(70mm)*	4-3/8" *(111mm)*	5-7/8" *(149mm)*
706137		1-3/8" OD	3.00 *(76mm)*	4-3/4" *(121mm)*	6-1/2" *(165mm)*
706162		1-5/8" OD	3.25 *(83mm)*	5-1/8" *(130mm)*	6-7/8" *(175mm)*
706212		2-1/8" OD	3.75 *(95mm)*	5-5/8" *(143mm)*	7-5/8" *(194mm)*
706262		2-5/8" OD	4.25 *(108mm)*	6-7/16" *(164mm)*	8-3/4" *(222mm)*
706312		3-1/8" OD	4.75 *(121mm)*	6-7/8" *(175mm)*	9-3/8" *(238mm)*
706362		3-5/8" OD	5.25 *(133mm)*	7-1/2" *(191mm)*	10-1/8" *(257mm)*
706412		4-1/8" OD	5.75 *(146mm)*	7-7/8" *(181mm)*	10-3/4" *(273mm)*
708062	1"	5/8" OD	2.75 *(70mm)*	4-3/8" *(111mm)*	5-7/8" *(149mm)*
708087		7/8" OD	3.00 *(76mm)*	4-3/4" *(121mm)*	6-1/2" *(165mm)*
708112		1-1/8" OD	3.25 *(83mm)*	5-1/8" *(130mm)*	6-7/8" *(175mm)*
708137		1-3/8" OD	3.50 *(89mm)*	5-3/8" *(137mm)*	7-1/4" *(184mm)*
708162		1-5/8" OD	3.75 *(95mm)*	5-5/8" *(143mm)*	7-5/8" *(194mm)*
708212		2-1/8" OD	4.25 *(108mm)*	6-7/16" *(164mm)*	8-3/4" *(222mm)*
708262		2-5/8" OD	4.75 *(121mm)*	6-7/8" *(175mm)*	9-3/8" *(238mm)*
708312		3-1/8" OD	5.25 *(133mm)*	7-1/2" *(191mm)*	10-1/8" *(257mm)*
708362		3-5/8" OD	5.75 *(146mm)*	7-7/8" *(181mm)*	10-3/4" *(273mm)*

Note: *Part number includes plastic coupling only. All metal parts have Tri-Valent plating.





Coupling "C" Dimension	Material size	Cross Bolt Size	Max Recommended Loads Lbs
2.12" to 3.25"	14 gauge x 1.25	5/16"	250 *(1.11 kN)*
3.50" to 5.75"	12 gauge x 1.25	5/16"	350 *(1.156 kN)*

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

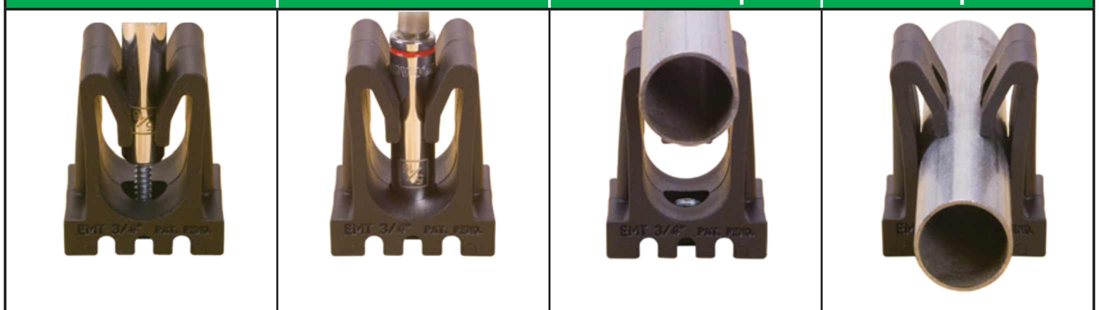
Cush-A-Claw®

Strut Mounted

Insert	Twist & Lock	Position Pipe	Snap In

Surface Mounted

Position	Mount w/Screw	Position Pipe	Snap In

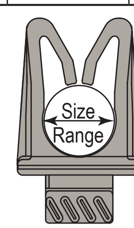


Side grooves provide Centering guide	Counter-sunk hole allows tightening of any type of #10 fastener

The **Cush-A-Claw** Grabs on to your Tube, Pipe, or Hose and holds it in place. The unique one piece patented design allows for quick, simple, and easy installation. It will not rust because it's molded from the same choice TPE Material of some of our other products that you've come to know and trust.

- Easy Snap-in Installation of Tube, Pipe, or Hose
- Sure Grip Strut Base easily rotates into strut
- Will not rust
- Non Conducting
- Saves Time and Money
- Temp Range: -50° to 275° F *(-45°C to 135°C)*
- Works Great Indoors or Outdoors
- Seven Sizes of Tube and Three Sizes of EMT
- Designed for Light Duty Loads and Applications
- Prevents Galvanic Corrosion of Dissimilar Metals
- An Excellent Alternative to Steel, Stainless Steel, or Galvanized Clamps.

O.D. Tube Size			EMTS Conduit Sizes		
Strut Mount Part #	Surface Mount Part #.	Size O.D.	Strut Mount Part #	Surface Mount Part #.	Size O.D.
CL-04	CLS-04	¼" *(6mm)*	EMT-1/2	EMTS-1/2	½" *(18mm)*
CL-06	CLS-06	⅜" *(10mm)*	EMT-3/4	EMTS-3/4	¾" *(23mm)*
CL-08	CLS-08	½" *(13mm)*	EMT-1	EMTS-1	1" *(30mm)*
CL-10	CLS-10	⅝" *(16mm)*			
CL-12	CLS-12	¾" *(19mm)*			
CL-14	CLS-14	⅞" *(22mm)*			
CL-18	CLS-18	1⅛" *(29mm)*			



75 Lbs. Load
(Safety Factor: 3)

Cush-A-Claw® is manufactured under U.S. patent #D631739, #D679177, and European Community patent #0011520030001, #0011520030002, #0011520030003, #0011520030004, #0011520030005, #0011520030006, #0011520030007

Omega Series™

The Omega Series™ clamp assembly retains, guides, protects, and uniformly spaces line runs. Attached with two standard fasteners to any flat surface, the Omega Series™ clamp eliminates the use of special channels, providing a savings in both space and cost. They go up fast, lines are rigid, and look neat.

THE CLAMP — Steel with gold electro-dichromate finish, or stainless steel type 304.

THE CUSHION — Manufactured from a thermoplastic elastomer, it's built tough to withstand the effects of most oils, chemicals and industrial cleaning compounds. Interlock edge ensures that the cushion remains in place.

Stainless Steel

Assembly consists of clamp and thermoplastic elastomer cushion. Fasteners not included.

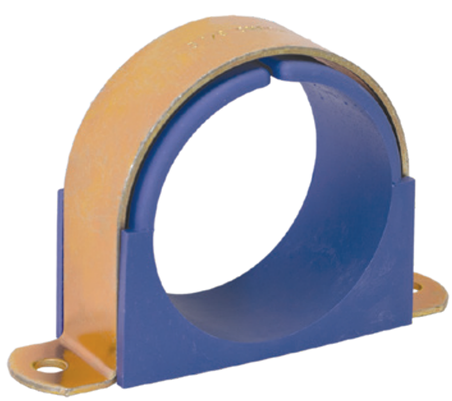
Stainless Steel

Gold Electro-Galvanized Steel

Standard

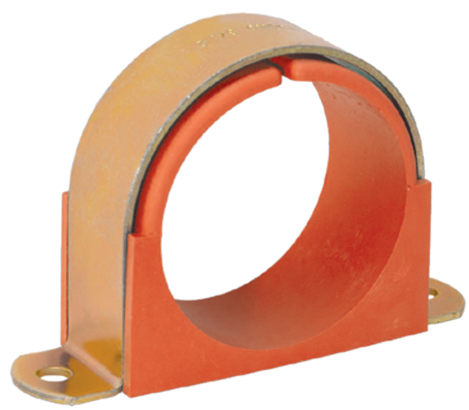
-50°F to 275°F
(-45°C to 135°C)

Extreme Temp (HT)



-65°F to 340°F
(-53°C to 170°C)

High Intensity Temp (HIT)



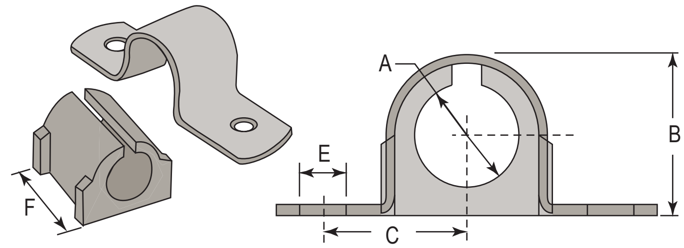
-65°F to 400°F
(-53°C to 204°C)

Omega Series™

Standard
-50°F to 275°F
(-45°C to 135°C)

Extreme Temp (HT)
-65°F to 340°F
(-53°C to 170°C)

High Intensity Temp (HIT)
-65°F to 400°F
(-53°C to 204°C)



Steel - Part No. Standard Black	Steel - Part No. Extreme Blue	Steel - Part No. High Intensity Temp	Copper & Steel Tubing O.D.	Copper Water Pipe (Nom.)	Pipe Size (Nom.)	Dimensions (inches) A	B	C	E	F	Hanging Design Load
004M007	HT004M007	HIT004M007	¼"	-	-	0.25" *(6mm)*	0.48" *(12mm)*	0.60" *(15mm)*	0.26" *(7mm)*	0.78"	50 *(0.22 kN)*
006M008	HT006M008	HIT006M008	⅜"	¼"	-	0.37" *(9mm)*	0.62" *(16mm)*	0.66" *(17mm)*		0.81"	
008M011	HT008M011	HIT008M011	½"	⅜"	¼"	0.50" *(13mm)*	0.81" *(21mm)*	0.83" *(21mm)*		0.98" *(25mm)*	
010M013	HT010M013	HIT010M013	⅝"	½"	⅜"	0.62" *(16mm)*	0.93" *(24mm)*	0.85" *(22mm)*			
012M015	HT012M015	HIT012M015	¾"	⅝"	-	0.75" *(19mm)*	1.02" *(26mm)*	0.90" *(23mm)*			
014M017	HT014M017	HIT014M017	⅞"	¾"	½"	0.87" *(22mm)*	1.12" *(28mm)*	1.03" *(26mm)*			
016M019	HT016M019	HIT016M019	1"	-	-	1.00" *(25mm)*	1.24" *(31mm)*	1.04" *(26mm)*			
018M020	HT018M020	HIT018M020	-	-	¾"	1.05" *(27mm)*	1.40" *(36mm)*	1.11" *(28mm)*			
018M021	HT018M021	HIT018M021	1-⅛"	1"	-	1.12" *(28mm)*	1.40" *(36mm)*	1.17" *(30mm)*			
020M024	HT020M024	HIT020M024	1-¼"	-	-	1.25" *(32mm)*	1.60" *(41mm)*	1.20" *(30mm)*		1.56" *(40mm)*	
021M026	HT021M026	HIT021M026	-	-	1"	1.31" *(33mm)*	1.71" *(43mm)*	1.28" *(33mm)*			
022M026	HT022M026	HIT022M026	1-⅜"	1-¼"	-	1.37" *(35mm)*	1.71" *(43mm)*	1.28" *(33mm)*			
024M028	HT024M028	HIT024M028	1-½"	-	-	1.50" *(38mm)*	1.85" *(47mm)*	1.36" *(35mm)*			200 *(0.89 kN)*
026M030	HT026M030	HIT026M030	1-⅝"	1-½"	-	1.62" *(41mm)*	1.98" *(50mm)*	1.43" *(36mm)*			
027M032	HT027M032	HIT027M032	-	-	1-¼"	1.66" *(42mm)*	2.12" *(54mm)*	1.55" *(39mm)*	0.34" *(9mm)*		400 *(1.78 kN)*
028M032	HT028M032	HIT028M032	1-¾"	-	-	1.75" *(44mm)*	2.12" *(54mm)*	1.55" *(39mm)*			
030M034	HT030M034	HIT030M034	1-⅞"	-	1-½"	1.87" *(47mm)*	2.25" *(57mm)*	1.64" *(42mm)*			
032M036	HT032M036	HIT032M036	2"	-	-	2.00" *(51mm)*	2.38" *(60mm)*	1.69" *(43mm)*			
034M040	HT034M040	HIT034M040	2-⅛"	-	-	2.12" *(54mm)*	2.62" *(67mm)*	1.86" *(47mm)*			
038M044	HT038M044	HIT038M044	2-⅜"	-	2"	2.37" *(60mm)*	2.88" *(73mm)*	1.94" *(49mm)*			
040M046	HT040M046	HIT040M046	2-½"	-	-	2.50" *(64mm)*	3.00" *(76mm)*	2.00" *(51mm)*			
042M048	HT042M048	HIT042M048	2-⅝"	2-½"	-	2.62" *(67mm)*	3.13" *(80mm)*	2.07" *(53mm)*			
046M052	HT046M052	HIT046M052	2-⅞"	-	2-½"	2.87" *(73mm)*	3.38" *(86mm)*	2.19" *(56mm)*			
050M056	HT050M056	HIT050M056	3-⅛"	3"	-	3.12" *(79mm)*	3.68" *(93mm)*	2.32" *(59mm)*			
056M062	HT056M062	HIT056M062	3-½"	-	3"	3.50" *(89mm)*	4.06" *(103mm)*	2.50" *(64mm)*			
058M064	HT058M064	HIT058M064	3-⅝"	3-½"	-	3.62" *(92mm)*	4.19" *(106mm)*	2.57" *(65mm)*			700 *(3.11 kN)*
064M072	HT064M072	HIT064M072	4"	-	3-½"	4.00" *(102mm)*	4.68" *(119mm)*	2.82" *(72mm)*			
066M074	HT066M074	HIT066M074	4-⅛"	4"	-	4.12" *(105mm)*	4.84" *(123mm)*	3.05" *(77mm)*	0.43" *(11mm)*		800 *(3.56 kN)*
072M080	HT072M080	HIT072M080	4-½"	-	4"	4.50" *(114mm)*	5.22" *(133mm)*	3.24" *(82mm)*			
082M090	HT082M090	HIT082M090	5-⅛"	5"	-	5.12" *(130mm)*	5.82" *(148mm)*	3.55" *(90mm)*			
089M096	HT089M096	HIT089M096	-	-	5"	5.56" *(141mm)*	6.31" *(160mm)*	4.00" *(102mm)*	0.56" *(14mm)*		1,200 *(5.34 kN)*
098M106	HT098M106	HIT098M106	6-⅛"	6"	-	6.12" *(155mm)*	6.90" *(175mm)*	4.31" *(109mm)*			
106M114	HT106M114	HIT106M114	-	-	6"	6.62" *(168mm)*	7.39" *(188mm)*	4.56" *(116mm)*			

PART NO. SUFFIX			Cushions	Example
CHANGE "M" IN PART NUMBER TO 'MS'			Thermoplastic elastomer	004M007 (STEEL) - 004MS007 (STAINLESS STEEL)
N	–		Flame Retardant	004M007N (STEEL) - 004MS007N (STAINLESS STEEL)
NH	–		Flame Retardant Halogen Free	004M007NH (STEEL) - 004MS007NH (STAINLESS STEEL)

Note: Fasteners not included.

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

Alpha Series™ Standard & Extreme Temps

Tube Sizes

Alpha Series™

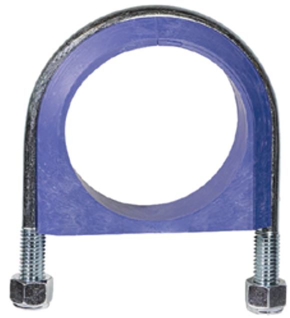
Designed for the tough jobs, the **Alpha Series**™ U-Bolt Assembly secures pipe runs to any flat surface. The cushion design provides total load distribution, allowing the U-Bolt to become a full contact hanger, eliminating knife-edge loading. The U-Bolt traps and secures the cushion in place to prevent lateral movement, while nylon insert locknuts provide a positive lock.

Alpha Series™ U-Bolt Assembly conforms to MIL-S-901D for shock testing.

Standard

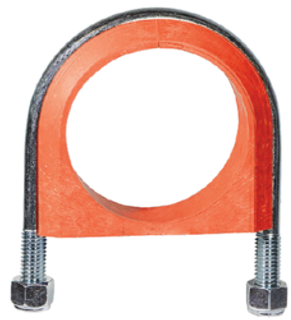
-50°F to 275°F
(-45°C to 135°C)

Extreme Temp (HT)

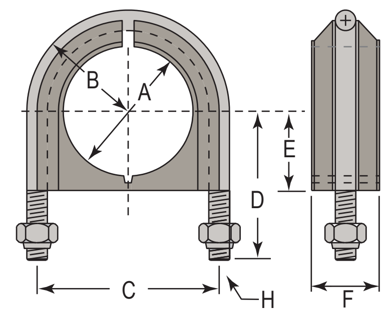


-65°F to 340°F
(-53°C to 170°C)

High Intensity Temp (HIT)



-65°F to 400°F
(-53°C to 204°C)



½" thru 6" assembly

Assembly Part No.			Tube Size (O.D.)	Dimensions (Inches)							Torque	Design Load Lbs. *(kN)*	Slip Thru
Standard Black	Extreme Blue	High Intensity Temp		A Dia.	B Radius	C	D	E	F	H Bolt Size			
UB7/8TA	HTUB7/8TA	HITUB7/8TA	7/8"	0.875" *(22mm)*	0.80" *(20mm)*	1.60" *(41mm)*	1.50" *(38mm)*	0.67" *(17mm)*	0.68" *(17mm)*	1/4"-20 UNC-2B	100	485 *(2.16 kN)*	500
UB1TA	HTUB1TA	HITUB1TA	1"	1.00" *(25mm)*	0.90" *(23mm)*	1.80" *(46mm)*	1.60" *(41mm)*	0.78" *(20mm)*	0.68" *(17mm)*	1/4"-20 UNC-2B			500
UB11/4TA	HTUB1-1/4TA	HITUB1-1/4TA	1-1/4"	1.25" *(32mm)*	1.02" *(26mm)*	2.05" *(52mm)*	1.70" *(43mm)*	0.91" *(23mm)*	0.68" *(17mm)*	1/4"-20 UNC-2B			500
UB13/8TA	HTUB1-3/8TA	HITUB1-3/8TA	1-3/8"	1.375" *(35mm)*	1.02" *(26mm)*	2.05" *(52mm)*	1.70" *(43mm)*	0.91" *(23mm)*	0.68" *(17mm)*	1/4"-20 UNC-2B			500
UB2TA	HTUB2TA	HITUB2TA	2"	2.00" *(51mm)*	1.40" *(36mm)*	2.80" *(71mm)*	2.20" *(56mm)*	1.19" *(30mm)*	1.24" *(31mm)*	3/8"-16 UNC-2B	150	1,220 *(5.43 kN)*	500
UB3TA	HTUB3TA	HITUB3TA	3"	3.00" *(76mm)*	1.95" *(50mm)*	3.90" *(99mm)*	3.00" *(76mm)*	1.69" *(43mm)*	1.24" *(31mm)*	1/2"-13 UNC-2B	200	2,260 *(10.05 kN)*	500
UB4TA	HTUB4TA	HITUB4TA	4"	4.00" *(102mm)*	2.52" *(64mm)*	5.05" *(128mm)*	3.70" *(94mm)*	2.25" *(57mm)*	1.24" *(31mm)*	1/2"-13 UNC-2B			500
UB5TA	HTUB5TA	HITUB5TA	5"	5.00" *(127mm)*	3.25" *(83mm)*	6.56" *(167mm)*	4.50" *(114mm)*	3.03" *(77mm)*	1.24" (31mm)	1/2"-13 UNC-2B			500
UB6TA	HTUB6TA	HITUB6TA	6"	6.00" *(152mm)*	3.87" *(98mm)*	7.75" *(197mm)*	5.40" *(137mm)*	3.56" *(90mm)*	1.44" *(37mm)*	5/8"-11 UNC-2B	250	3,620 *(16.10 kN)*	500

SUFFIX			Clamp	Cushion	Example
NONE			Electro-galvanized	Thermoplastic elastomer	UB½PA
6			Stainless Steel, Type 316	Thermoplastic elastomer	UB½PA6
N6	–	–	Stainless Steel, Type 316	Flame Retardant	UB½PAN6
N	–	–	Electro-galvanized		UB½PAN
NH	–	–	Electro-galvanized	Flame Retardant Halogen Free	UB½PANH
NH6	–	–	Stainless Steel,Type 316		UB½PANH6

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

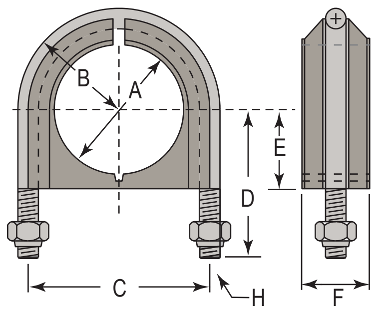
Alpha Series™ Standard & Extreme Temps

Pipe Sizes

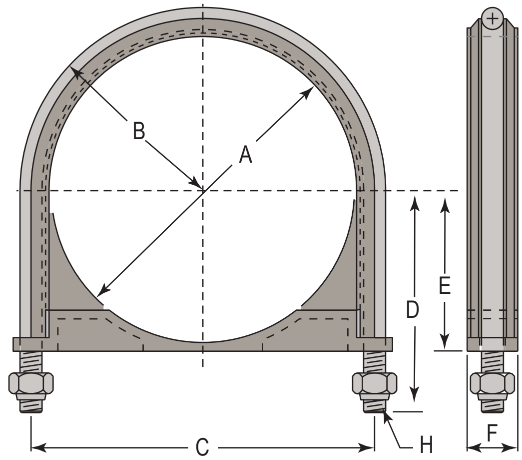
Standard
-50°F to 275°F
(-45°C to 135°C)

Extreme Temp (HT)
-65°F to 340°F
(-53°C to 170°C)

High Intensity Temp (HIT)
-65°F to 400°F
(-53°C to 204°C)



½" thru 6" assembly



8" thru 12" assembly – Two piece cushion design

Assembly Part No. Standard Black	Assembly Part No. Extreme Blue	Assembly Part No. High Intensity Temp	Pipe Size (Nom.)	Dimensions (Inches) A Dia.	B Radius	C	D	E	F	H	Torque	Design Load Lbs. (kN)	Slip Thru
UB1/2PA	HTUB1/2PA	HITUB1/2PA	½"	0.840" (21mm)	0.80" (20mm)	1.60 (41mm)	1.50" (38mm)	0.67" (17mm)	0.68" (17mm)	¼"-20 UNC-2B	100	485 (2.16 kN)	500
UB3/4PA	HTUB3/4PA	HITUB3/4PA	¾"	1.05" (27mm)	0.90" (23mm)	1.80 (46mm)	1.60" (41mm)	0.78" (20mm)	0.68" (17mm)	¼"-20 UNC-2B			500
UB1PA	HTUB1PA	HITUB1PA	1"	1.31" (33mm)	1.02" (26mm)	2.05 (52mm)	1.70" (43mm)	0.91" (23mm)	0.68" (17mm)	¼"-20 UNC-2B			500
UB1-1/4PA	HTUB1-1/4PA	HITUB1-1/4PA	1-¼"	1.66" (42mm)	1.27" (32mm)	2.55 (65mm)	2.10" (53mm)	1.08" (27mm)	1.24" (31mm)	⅜"-16 UNC-2B	150	1,220 (5.43 kN)	500
UB1-1/2PA	HTUB1-1/2PA	HITUB1-1/2PA	1-½"	1.90" (48mm)	1.40" (36mm)	2.80 (71mm)	2.20" (56mm)	1.19" (30mm)	1.24" (31mm)	⅜"-16 UNC-2B			500
UB2PA	HTUB2PA	HITUB2PA	2"	2.37" (60mm)	1.67" (42mm)	3.35 (85mm)	2.50" (64mm)	1.45" (37mm)	1.24" (31mm)	⅜"-16 UNC-2B			500
UB2-1/2PA	HTUB2-1/2PA	HITUB2-1/2PA	2-½"	2.87" (73mm)	1.95" (50mm)	3.90 (99mm)	3.00" (76mm)	1.69" (43mm)	1.24" (31mm)	½"-13 UNC-2B	200	2,260 (10.05 kN)	500
UB3PA	HTUB3PA	HITUB3PA	3"	3.50" (89mm)	2.27" (58mm)	4.55 (116mm)	3.30" (84mm)	2.00" (51mm)	1.24" (31mm)	½"-13 UNC-2B			500
UB3-1/2PA	HTUB3-1/2PA	HITUB3-1/2PA	3-½"	4.00" (102mm)	2.52" (64mm)	5.05 (128mm)	3.70" (94mm)	2.25" (57mm)	1.24" (31mm)	½"-13 UNC-2B			500
UB4PA	HTUB4PA	HITUB4PA	4"	4.50" (114mm)	2.50" (64mm)	5.50 (140mm)	3.90" (99mm)	2.50" (64mm)	1.24" (31mm)	½"-13 UNC-2B			500
UB5PA	HTUB5PA	HITUB5PA	5"	5.56" (141mm)	3.25" (83mm)	6.56 (167mm)	4.50" (114mm)	3.03" (77mm)	1.24" (31mm)	½"-13 UNC-2B			500
UB6PA	HTUB6PA	HITUB6PA	6"	6.62" (168mm)	3.87" (98mm)	7.75 (197mm)	5.40" (137mm)	3.56" (90mm)	1.44" (37mm)	⅝"-11 UNC-2B	250	3,620 (16.10 kN)	500
UB8PA	HTUB8PA	HITUB8PA	8"	8.62" (219mm)	4.85" (123mm)	9.82 (249mm)	6.40" (163mm)	4.56" (116mm)	1.44" (37mm)	⅝"-11 UNC-2B			500
UB10PA	HTUB10PA	HITUB10PA	10"	10.75" (273mm)	6.08" (154mm)	12.16 (309mm)	7.70" (196mm)	5.68" (144mm)	1.65" (42mm)	¾"-10 UNC-2B	275	5,420 (25.11 kN)	500
UB12PA	HTUB12PA	HITUB12PA	12"	12.75" (324mm)	7.13" (181mm)	14.25 (362mm)	8.7" (221mm)	6.68" (170mm)	1.65" (42mm)	¾"-10 UNC-2B			500

SUFFIX			Clamp	Cushion	Example
NONE			Electro-galvanized	Thermoplastic elastomer	UB½PA
6			Stainless Steel, Type 316	Thermoplastic elastomer	UB½PA6
N6	–	–	Stainless Steel, Type 316	Flame Retardant	UB½PAN6
N	–	–	Electro-galvanized		UB½PAN
NH	–	–	Electro-galvanized	Flame Retardant Halogen Free	UB½PANH
NH6	–	–	Stainless Steel,Type 316		UB½PANH6

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

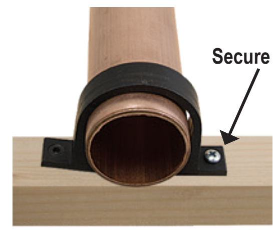
Cush-a-Glide™

Cush-A-Glide is designed for fast installation of copper tube or pipe, and can be easily installed in seconds with fasteners of your choice. Just spread the clamp apart placing it over the top of a tube or pipe and fasten one side. Push in the opposite side to the desired tightness, allowing for expansion and contraction, then fasten the other side.

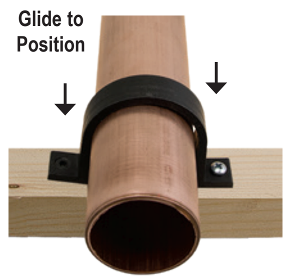
- Allows for expansion and contraction of copper tube and pipe
- Excellent alternative to stainless or galvanized clamps
- Fits tightly and securely against mounting surfaces
- Made from trusted high quality TPE material
- One piece molded split ring design
- Suitable for indoor or outdoor applications
- Temperature range of -50°F to 275°F *(-45°C to 135°C)*
- Will not rust and prevents and eliminates galvanic corrosion
- Made in the USA

Step 1: Spread open Cush-a-Glide, and place it over tube, pipe, or hose

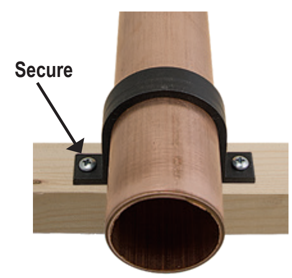
Step 2: Secure one side of Cush-a-Glide with a fastener of your choice

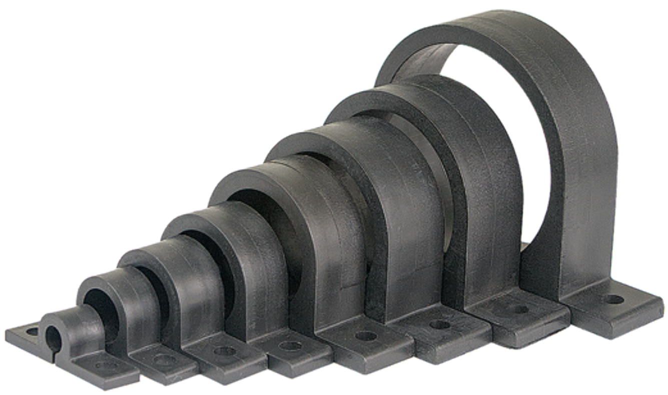


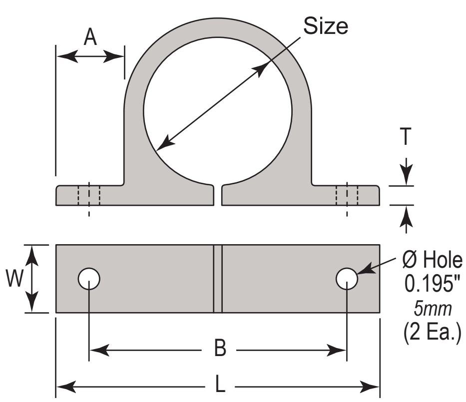
Step 3: Simply glide tube or pipe through the Cush-a-Glide to desired position



Step 4: Fasten second side of the Cush-a-Glide



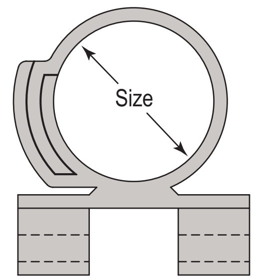




<table>
<tr><th rowspan="2">Part No.</th><th rowspan="2">Pipe, Hose or Tube Size</th><th rowspan="2">Size</th><th colspan="5">Dimensions – inches</th></tr>
<tr><th>A</th><th>B</th><th>L</th><th>T Thickness</th><th>W</th></tr>
<tr><td>CAGB04</td><td>1/4"</td><td>0.245" (6mm)</td><td rowspan="3">0.500" (13mm)</td><td>1.000" (25mm)</td><td>1.465" (37mm)</td><td rowspan="3">0.110" (3mm)</td><td rowspan="3">0.375" (10mm)</td></tr>
<tr><td>CAGB06</td><td>3/8"</td><td>0.370" (9mm)</td><td>1.125" (29mm)</td><td>1.590" (40mm)</td></tr>
<tr><td>CAGB08</td><td>1/2"</td><td>0.495" (13mm)</td><td>1.250" (32mm)</td><td>1.715" (44mm)</td></tr>
<tr><td>CAGB10</td><td>5/8"</td><td>0.620" (16mm)</td><td rowspan="2">0.563" (14mm)</td><td>1.500" (38mm)</td><td>2.045" (52mm)</td><td rowspan="2">0.150" (4mm)</td><td rowspan="2">0.500" (13mm)</td></tr>
<tr><td>CAGB14</td><td>7/8"</td><td>0.870" (22mm)</td><td>1.750" (44mm)</td><td>2.295" (58mm)</td></tr>
<tr><td>CAGB18</td><td>1 1/8"</td><td>1.120" (28mm)</td><td rowspan="5">0.625" (16mm)</td><td>2.125" (54mm)</td><td>2.730" (69mm)</td><td rowspan="5">0.180" (5mm)</td><td rowspan="3">0.625" (16mm)</td></tr>
<tr><td>CAGB20</td><td>1 1/4"</td><td>1.250" (32mm)</td><td>2.250" (57mm)</td><td>2.855" (73mm)</td></tr>
<tr><td>CAGB22</td><td>1 3/8"</td><td>1.370" (35mm)</td><td>2.375" (60mm)</td><td>2.980" (76mm)</td></tr>
<tr><td>CAGB26</td><td>1 5/8"</td><td>1.620" (41mm)</td><td>2.625" (67mm)</td><td>3.230" (82mm)</td><td rowspan="2">0.750" (19mm)</td></tr>
<tr><td>CAGB34</td><td>2 1/8"</td><td>2.120" (54mm)</td><td>3.125" (79mm)</td><td>3.730" (95mm)</td></tr>
</table>

Quick-Clip

Quick-Clip's unique one-piece composite polyamide alloy design combines strength with light weight. It will overcome the problems of using cable ties for piping, electrical, optical and network cabling.



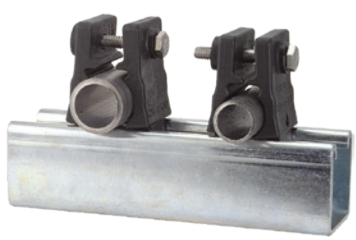
- Quick-Clip locates easily on 3/8" rod
- No breaks in insulation material
- Fast and easy installation, saves time and money
- Single handed installation
- Manufactured from a composite polyamide, tested from -40°F to + 275°F, *(-40°C to +135°C)* makes it ideal for network cables
- Studding panel inserts.

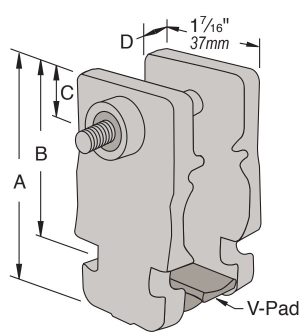
Slide onto threaded rod, twist to engage. Insert pipe and clip to lock.

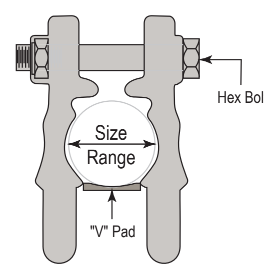
Part No.	Standard Copper (no insulation)	Metric Copper (no insulation)	Copper Tube with 3/8" *(10mm)* Insulation	Copper Tube with 1/2" *(13mm)* Insulation	Condensate Drain
QC12	3/4"	-	-	-	-
QC14	7/8"	22mm	-	-	yes
QC16	1"	-	1/4" tube	-	-
QC18	1 1/8"	28mm	3/8" tube	-	-
QC20	1 1/4"	-	1/2" tube	1/4" tube	-
QC22	1 3/8"	-	5/8" tube	3/8" tube	yes
QC24	1 1/2"	-	7/8" tube	5/8" tube	-
QC26	1 5/8"	42mm	1 1/8" tube	3/4" tube	yes
QC32	2"	-	-	7/8" tube	-
QC34	2 1/8"	54mm	1 3/8" tube	1 1/8" tube	yes

Inside diameter: Certain clips have two or more positions to accommodate both metric and standard sizes

Cush-A-Grip







FEATURES:

- Ten sizes of tube, five sizes of pipe
- Diameters from .25" to 1.31"

ADVANTAGES:

- Reduces inventory SKU's
- Simplifies take-offs and requirements on projects using both tube and pipe sizes
- Easy installation, non-conducting
- Permissible outdoors
- Temp. range: -40˚F to +380˚F *(-40°C to 193°C)*
- No galvanic reaction, Will not rust

BENEFITS:

- Lowers overall inventory costs
- Works with screw or nut driver
- Resists vibration
- Use in place of steel clamps with steel tube
- Multi-environmental
- Covers a wide range of applications and maintains thermal barrier
- For use on copper tube
- Use in place of stainless, aluminum, PVC or hot dipped galvanized clamps

Part No.	O.D. Tube Sizes			Pipe Sizes	Metric Sizes	Diameters (in)
CG-10	1/4"	3/8"	1/2"	1/4"	6mm – 14mm	0.25 – 0.54
CG-20	5/8"	3/4"	7/8"	3/8" – 1/2"	15mm – 22mm	0.62 – 0.87
CG-30	7/8"	1"	1-1/8"	3/4"	22mm – 28mm	0.87 – 1.12
CG-40	1"	1-1/8"	1-1/4"	3/4" – 1"	26mm – 32mm	1.00 – 1.31

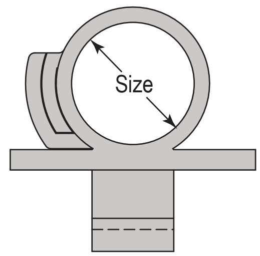
Part No.	Nominal Pipe Size	Dimensions "A"	Dimensions "B"	Dimensions "C"	Dimensions "D"	Hex Head Cap Screw & Lock Nut
CG-10	1/4"	1-15/16" *(49mm)*	1-3/8" *(35mm)*	3/8" *(10mm)*	3/16" *(5mm)*	1/4"-20 x 1-1/2"
CG-20	3/8"	2-3/8" *(60mm)*	1-5/8" *(41mm)*	7/16" *(11mm)*	1/4" *(6mm)*	1/4"-20 x 2"
CG-30	1/2"	2-9/16" *(65mm)*	1-13/16" *(46mm)*	7/16" *(11mm)*	5/16" *(8mm)*	1/4"-20 x 2"
CG-40	3/4"	2-11/16" *(68mm)*	1-15/16" *(49mm)*	7/16" *(11mm)*	5/16" *(8mm)*	1/4"-20 x 2"

Cush-A-Clip® & Cush-A-Click

Cush-A-Clip®

A Simple, Economical, Lightweight Hanger For Supporting Tubing

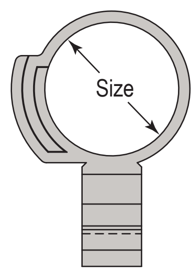
- Manufactured from polyamide alloy
- U.L. Rated
- Sizes from 3/8" to 1 1/8"
- One piece design makes installation a snap.
- No nuts to tighten, no parts to lose.
- Temperatures from -40°F to 275°F *(-40°C to 135°C)*
- Secure but non-tightening design allows for expansion, greatly reducing joint fractures



Part No.	Tube O.D.
RPC-3/8	3/8" *(10mm)*
RPC-1/2	1/2" *(13mm)*
RPC-5/8	5/8" *(16mm)*
RPC-3/4	3/4" *(19mm)*
RPC-7/8	7/8" *(22mm)*
RPC-1-1/8	1-1/8" *(29mm)*

Cush-A-Click

The great advantage with the **Cush-A-Click** is it retains an unbroken vapor barrier seal, eliminating the problem of sweating on metal fittings.
The Cush-A-Click is ideal for the installation of refrigeration systems allowing the barrier seal to run the length of the pipe work without cutting the insulation material. The Cush-A-Click quickly secures both the pipe and the insulation.

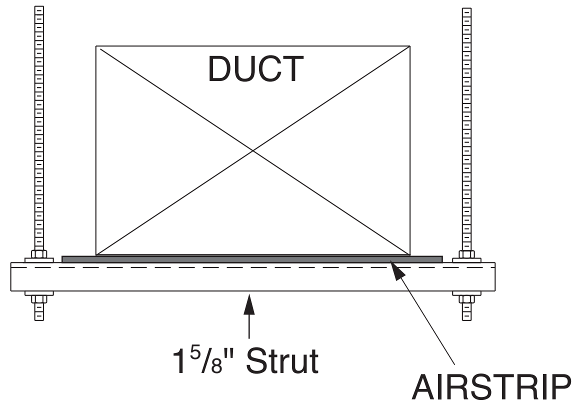


- Time and labor savings
- Simple, secure installation of refrigeration and plumbing pipe work
- No break insulation material
- Corrosion resistance
- Light weight

Part No.	Standard Copper	Metric Copper	Copper Tube		Condensate Drain
	(no insulation)		with 3/8" *(10mm)* Insulation	with 1/2" *(13mm)* Insulation	
CAC12	3/4"	-	-	-	-
CAC14	7/8"	22mm	-	-	yes
CAC16	1"	-	1/4" tube	-	-
CAC18	1 1/8"	28mm	3/8" tube	-	-
CAC20	1 1/4"	-	1/2" tube	1/4" tube	-
CAC22	1 3/8"	-	5/8" tube	3/8" tube	yes
CAC24	1 1/2"	-	7/8" tube	5/8" tube	-
CAC26	1 5/8"	42mm	1 1/8" tube	3/4" tube	yes
CAC32	2"	-	-	7/8" tube	-
CAC34	2 1/8"	54mm	1 3/8" tube	1 1/8" tube	yes

Inside diameter: Certain clips have two or more positions to accommodate both metric and standard sizes

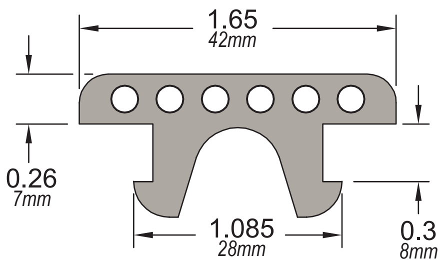
AIRSTRIP®

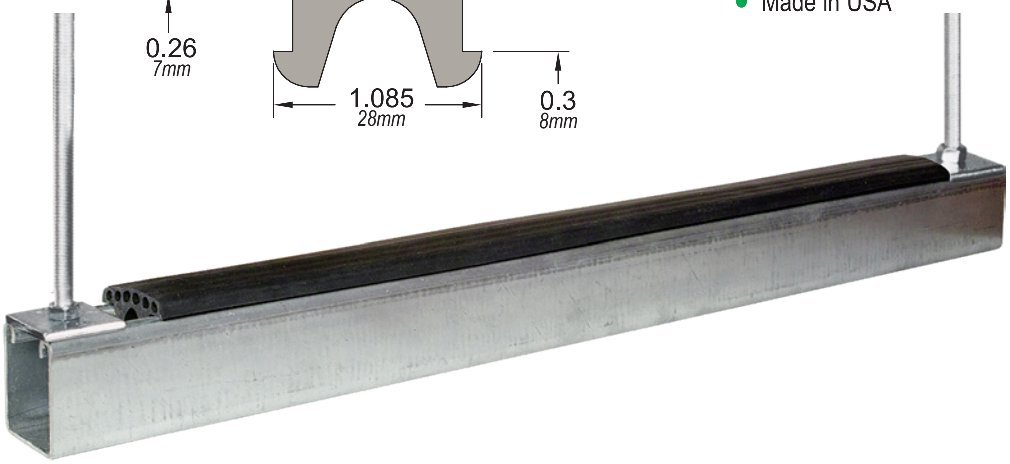


The AIRSTRIP is designed to dampen the noise and vibration that can occur between piping or duct work and the supporting channel. Made from 64 Durometer Santoprene, the AIRSTRIP 1is light weight, dependable, and long-lasting.

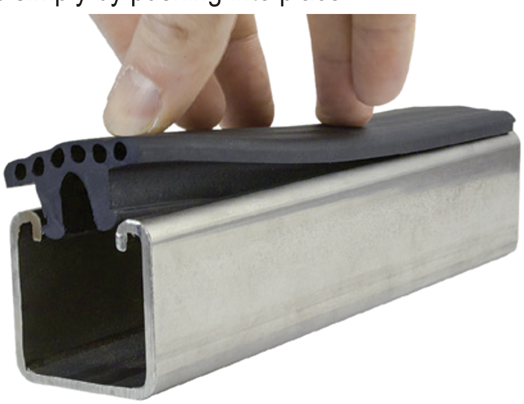
Part No.	Max. Load Lbs. per Lineal In.		Length	
	Lbs.	*(kg/25.4mm)*	Ft.	*(m)*
AS1	40	*18.1*	10	*3.05*

- Temp Range: -40°F to 250°F (-40°C to 121°C)
- Available in 10' *(3m)* lengths
- Santoprene UL94HB rated
- Made in USA





Installs simply by pushing into place



To remove, squeeze the tabs at the end and push up

Introduction
Channel
Channel Nuts & Hardware
General Fittings
Brackets
Beam Clamps
Pipe & Conduit Supports
Electrical Fittings
Spring Steel
Concrete Inserts
Rooftop Supports
Technical Data

Cush-A-Strip™

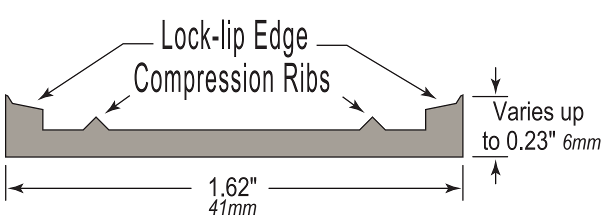
- Manufactured from a thermoplastic elastomer, Cush-A-Strip is designed for use from -50°F to 275°F.
- Easy Stocking – Packaged in 20 foot rolls in an E-Z dispenser box for convenience in handling and storage. **Cush-A-Strip roll part number is S-716**
- Easy Measuring – Marked in ¼" increments for fast measuring and cutting, while eliminating waste.
- Lock-lip edges ensure that Cush-A-Strip will remain in place with a balanced grip.
- Clamps ordered separately. They are available with a standard bolt and nylon lock nut in steel (electro-dichromate), and stainless steel, in sizes ranging from ¼" tube to 6" pipe.

(1) Cut appropriate length strip using the cutting schedule shown on right.

(2) Place the pipe on the Cush-A-Strip

(3) Insert the clamps in the strut

(4) Tighten the clamps.



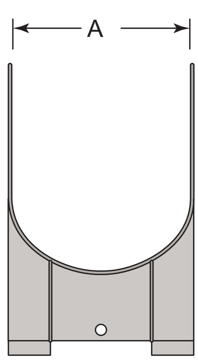
Cush-A-Strip™ Cutting Guide

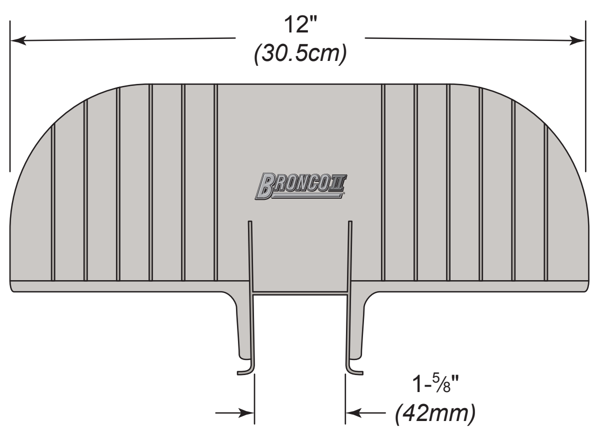
Clamp Part No.		Dimensions (Inches)			
Gold Plated Steel	Stainless Steel Type 304	Clamp Size O.D.	Tube Size O.D.	Pipe Size (Nom.)	Cutting Schedule
TG008C	NS008	½"	¼"	–	⅞"
TG010C	NS010	⅝"	⅜"	–	1-⅛"
TG012C	NS012	¾"	½"	¼"	1-½"
TG014C	NS014	⅞"	⅝"	⅜"	2"
TG016C	NS016	1"	¾"	–	2-¼"
TG018C	NS018	1-⅛"	⅞"	½"	3"
TG020C	NS020	1-¼"	1"	¾"	3-¼"
TG022C	NS022	1-⅜"	1-⅛"	–	3-⅝"
TG024C	NS024	1-½"	1-3⁄16"	–	3-⅞"
TG024C	NS024	1-½"	1-¼"	1"	4"
TG026C	NS026	1-⅝"	1-⅜"	–	4-½"
NG028C	CS028	1-¾"	1-½"	–	4-⅞"
NG030C	CS030	1-⅞"	1-⅝"	1-¼"	5-¼"
NG032C	CS032	2"	1-¾"		5-½"
NG034C	CS034	2-⅛"	1-⅞"	1-½"	6"
NG036C	CS036	2-¼"	2"	–	6-⅜"
NG038C	CS038	2-⅜"	2-⅛"	–	6-¾"
NG040C	CS040	2-½"	2-¼"	–	7-¼"
NG042C	CS042	2-⅝"	2-⅜"	2"	7-½"
NG044C	CS044	2-¾"	2-½"	–	8"
NG048C	CS048	3"	2-¾"	–	8-¾"
NG050C	CS050	3-⅛"	2-⅞"	2-½"	9-¼"
NG054C	CS054	3-¼"	3"	–	9-½"
NG060C	CS060	3-¾"	3-½"	3"	11"
NG068C	CS068	4-¼"	4"	3-½"	12-¼"
NG076C	CS076	4-¾"	4-½"	4"	14"
NG092C	CS092	5-¾"	–	5"	15-½"
NG110C	CS110	6-⅞"	–	6"	18-½"

* Gold Plated Steel Clamps Supplied with Fixed Stud and Nylon Lock Nut
* Stainless Steel Clamps Supplied with fixed Stud and Nylon Lock Nut from ½" through 1-¾" Sizes and 1-⅞" through 6-⅞" Sizes are supplied with a Loose Bolt and Hex Nut

- Universal mounting feature allows secure fit on either side of channel.
- Molded with self-tapping screw location hole
- UL Classified 2043 (25/50) for use in plenums and air handling systems
- Manufactured from high-strength Polypropylene Copolymer
- Extra strength ribbed side walls
- No assembly or tools required
- Enhanced safety lip prevents insulation crushing and tearing from pipe movement
- UV resistant
- Available in black and white to match insulation
- Excellent finished appearance
- Made in the U.S.A.

Part No.		A
Black	**White**	
225B2S	225W2S	2.25" *(57mm)*
325B2S	325W2S	3.25" *(82mm)*
425B2S	425W2S	4.25" *(108mm)*
525B2S	525W2S	5.25" *(133mm)*
625B2S	625W2S	6.25" *(159mm)*
825B2S	825W2S	8.25" *(204mm)*





BRONCO II®

Insulated Tube & Pipe Saddle for Mounting on Strut

<table>
<tr><th rowspan="2">Copper Tube Size</th><th colspan="5">Insulation Thickness</th></tr>
<tr><th>1/2" (13mm)</th><th>3/4" (19mm)</th><th>1" (25mm)</th><th>1-1/2" (38mm)</th><th>2" (50mm)</th></tr>
<tr><td>3/8" (9.5 mm)</td><td rowspan="6">225B2S</td><td rowspan="3">225B2S</td><td rowspan="6">325B2S</td><td rowspan="6">425B2S</td><td rowspan="6">525B2S</td></tr>
<tr><td>1/2" (13 mm)</td></tr>
<tr><td>5/8" (16 mm)</td></tr>
<tr><td>3/4" (19 mm)</td><td rowspan="5">325B2S</td></tr>
<tr><td>7/8" (22 mm)</td></tr>
<tr><td>1-1/8" (29 mm)</td></tr>
<tr><td>1-3/8" (35 mm)</td><td rowspan="3">325B2S</td><td rowspan="3">425B2S</td><td rowspan="3">525B2S</td><td rowspan="3">625B2S</td></tr>
<tr><td>1-5/8" (41 mm)</td></tr>
<tr><td>2-1/8" (54 mm)</td><td rowspan="2">425B2S</td></tr>
<tr><td>2-5/8" (67 mm)</td><td rowspan="2">425B2S</td><td rowspan="2">525B2S</td><td rowspan="2">625B2S</td><td rowspan="4">825B2S</td></tr>
<tr><td>3-1/8" (79 mm)</td><td rowspan="2">525B2S</td></tr>
<tr><td>3-5/8" (92 mm)</td><td rowspan="2">525B2S</td><td rowspan="2">625B2S</td><td rowspan="2">825B2S</td></tr>
<tr><td>4-1/8" (105 mm)</td><td>625B2S</td></tr>
</table>

Available in Black (B) or White (W) to match insulation

<table>
<tr><th rowspan="2">Schedule 40/80 Pipe Size</th><th colspan="5">Insulation Thickness</th></tr>
<tr><th>1/2" (13mm)</th><th>3/4" (19mm)</th><th>1" (25mm)</th><th>1-1/2" (38mm)</th><th>2" (50mm)</th></tr>
<tr><td>1/4" (6.4 mm)</td><td rowspan="4">225B2S</td><td rowspan="2">225B2S</td><td rowspan="4">325B2S</td><td rowspan="4">425B2S</td><td rowspan="4">525B2S</td></tr>
<tr><td>3/8" (9.5 mm)</td></tr>
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<tr><td>3/4" (19 mm)</td></tr>
<tr><td>1" (25 mm)</td><td rowspan="3">325B2S</td><td rowspan="4">425B2S</td><td rowspan="4">525B2S</td><td rowspan="4">625B2S</td></tr>
<tr><td>1-1/4" (31 mm)</td></tr>
<tr><td>1-1/2" (38 mm)</td><td rowspan="2">425B2S</td></tr>
<tr><td>2" (50 mm)</td><td rowspan="2">425B2S</td></tr>
<tr><td>2-1/2" (63 mm)</td><td rowspan="2">525B2S</td><td>525B2S</td><td>625B2S</td><td rowspan="4">825B2S</td></tr>
<tr><td>3" (75 mm)</td><td rowspan="3">525B2S</td><td rowspan="3">625B2S</td><td rowspan="3">825B2S</td></tr>
<tr><td>3-1/2" (88 mm)</td><td rowspan="2">625B2S</td></tr>
<tr><td>4" (100 mm)</td></tr>
</table>

Available in Black (B) or White (W) to match insulation

Snap-A-Saddle Pro™

Insulated Pipe Saddle for Mounting on Strut

Its revolutionary design allows for pipe movement within the support, eliminating common problems related to traditional pipe saddles: rotation, displacement and thermal insulation damages.

Breakthrough Innovation

Snap-a-Saddle Pro™ is designed to accommodate movement of the pipes generated by thermal expansion and vibration. With its unique sliding design at each end, Snap-a-Saddle Pro easily and effectively cradles and protects pipes allowing them to expand and vibrate without damaging their insulation.

Snap-a-Saddle Pro permanently eliminates insulation tears, refrigerant leaks, condensing, and freezing. It holds up to the highest quality standards of the industry.

Maintains Pipe Insulation Properties

Eliminates displacement and/or failing of pipe support, leading to refrigerant leaks

Maintains Liquid Line In Place

Eliminates refrigerant leaks

Fastest Installation In The Industry

60% faster than metal or plastic shields

80% faster than clamps and collars

Keeps Thermal Bridge Intact

Eliminates insulation compression

<table>
<tr><th rowspan="2">Copper Tube Size</th><th colspan="5">Insulation Thickness</th></tr>
<tr><th>½" (13mm)</th><th>¾" (19mm)</th><th>1" (25mm)</th><th>1½" (38mm)</th><th>2" (50mm)</th></tr>
<tr><td>¼" (6.4 mm)</td><td rowspan="6">SAS225</td><td rowspan="3">SAS225</td><td rowspan="6">SAS325</td><td rowspan="6">SAS425</td><td rowspan="6">SAS525</td></tr>
<tr><td>⅜" (9.5 mm)</td></tr>
<tr><td>½" (13 mm)</td></tr>
<tr><td>⅝" (16 mm)</td><td rowspan="5">SAS325</td></tr>
<tr><td>¾" (19 mm)</td></tr>
<tr><td>⅞" (22 mm)</td></tr>
<tr><td>1-⅛" (29 mm)</td><td rowspan="3">SAS325</td><td rowspan="3">SAS425</td><td rowspan="3">SAS525</td><td rowspan="3">SAS625</td></tr>
<tr><td>1-⅜" (35 mm)</td></tr>
<tr><td>1-⅝" (41 mm)</td><td rowspan="2">SAS425</td></tr>
<tr><td>2-⅛" (54 mm)</td><td rowspan="2">SAS425</td><td rowspan="2">SAS525</td><td rowspan="2">SAS625</td><td rowspan="3">SAS825</td></tr>
<tr><td>2-⅝" (67 mm)</td><td rowspan="2">SAS525</td></tr>
<tr><td>4-⅛" (105 mm)</td><td rowspan="2">SAS525</td><td>SAS625</td><td rowspan="2">SAS825</td></tr>
<tr><td>5-⅛" (130 mm)</td><td>SAS825</td><td>SAS825</td><td>-</td></tr>
</table>

<table>
<tr><th rowspan="2">Schedule 40/80 Pipe Size</th><th colspan="5">Insulation Thickness</th></tr>
<tr><th>½" (13mm)</th><th>¾" (19mm)</th><th>1" (25mm)</th><th>1½" (38mm)</th><th>2" (50mm)</th></tr>
<tr><td>¼" (6.4 mm)</td><td rowspan="4">SAS225</td><td rowspan="2">SAS225</td><td rowspan="4">SAS325</td><td rowspan="4">SAS425</td><td rowspan="4">SAS525</td></tr>
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<tr><td>1-¼" (31 mm)</td></tr>
<tr><td>1-½" (38 mm)</td><td rowspan="2">SAS425</td></tr>
<tr><td>2" (50 mm)</td><td rowspan="2">SAS425</td></tr>
<tr><td>2-½" (63 mm)</td><td rowspan="2">SAS525</td><td>SAS525</td><td>SAS625</td><td rowspan="4">SAS825</td></tr>
<tr><td>3" (75 mm)</td><td rowspan="2">SAS525</td><td rowspan="2">SAS625</td><td rowspan="3">SAS825</td></tr>
<tr><td>3-½" (88 mm)</td><td rowspan="2">SAS625</td></tr>
<tr><td>4" (100 mm)</td><td>SAS625</td><td rowspan="2">SAS825</td></tr>
<tr><td>5" (127 mm)</td><td rowspan="2">SAS825</td><td rowspan="2">SAS825</td><td rowspan="2">-</td><td rowspan="2">-</td></tr>
<tr><td>6" (152 mm)</td><td>-</td></tr>
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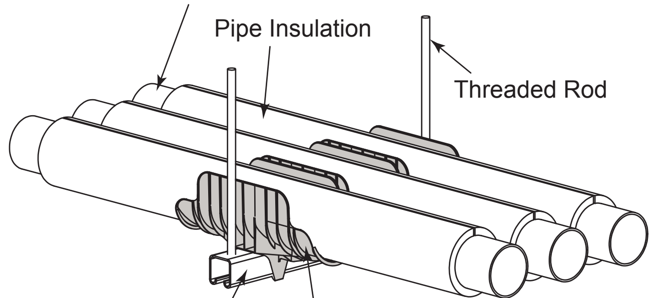
Snap-A-Saddle Pro™

Insulated Pipe Saddle



Applications:

Refrigeration, Air Conditioning and Plumbing

Installation:

Tool-Free, "Clips" directly on standard 1-⅝" x 1-⅝" *(41mm x 41mm)* strut channel.

Suited for horizontal pipe installation.

Certification:

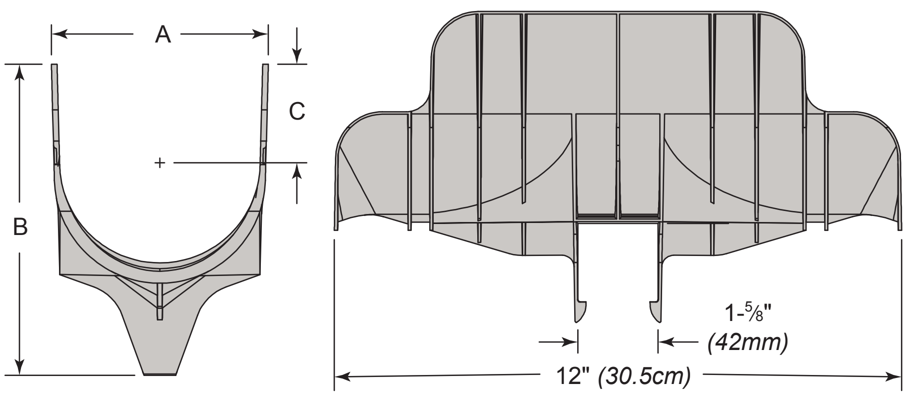
UL classified for USA (UL-723 (ASTM E 84)) and ULC listed for Canada (ULC-S102.2).

Material:

Polypropylene copolymer

- UV resistant
- Operating temperature -40° to 178°F *(-40° to 81°C)*
- Paintable (preserves mechanical properties even after painting)

- Non-adhesive surface for linear expansion of thermal insulation. SAS825B & SAS825W have 20% glass filled material for additional strength.



Part No.		A	B	C
Black	White			
SAS225B	SAS225W	2.25" *(57mm)*	4.56" *(116mm)*	1.09" *(28mm)*
SAS325B	SAS325W	3.25" *(82mm)*	5.57" *(140mm)*	1.59" *(40mm)*
SAS425B	SAS425W	4.25" *(108mm)*	6.59" *(167mm)*	2.09" *(53mm)*
SAS525B	SAS525W	5.25" *(133mm)*	7.57" *(192mm)*	2.58" *(66mm)*
SAS625B	SAS625W	6.25" *(159mm)*	8.57" *(218mm)*	3.09" *(78mm)*
SAS825B	SAS825W	8.25" *(204mm)*	11.04" *(280mm)*	4.27" *(108mm)*

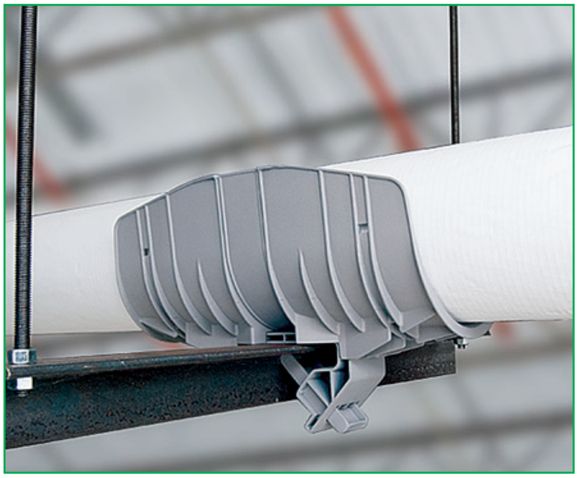
WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

Snap-A-Saddle Pro Multi™

Adaptable Insulated Pipe Saddle

Snap-A-Saddle Pro Multi™ Adapts To Your Needs!

Allows use on various sizes of strut, H-Beam , floor-mount , Clevis and steel angle mountings
Adapts to different suspension systems, simply by swapping clipping adapters.



Breakthrough Innovation

Piping installations require different types of suspension systems, which vary in size. This new design adapts to various sizes of strut, H-Beam, floor-mount, clevis hangers, and steel angles. Thanks to the interchangeable bottom adapters, Snap-a-Saddle Pro Multi eliminates the hassle and headaches of compatibility problems you've been dealing with for so long!

Standardize Your Installation

Snap-a-Saddle Pro Multi™ makes the installer's job easier while standardizing piping installations and improving appearance. Whether you are looking at new or existing installations, the Snap-a-Saddle Pro Multi clip-on adapters will adapt to both the suspension system and the selected size of saddle core.

One Part Suits Multiple Uses

Simply change adapters

Fastest Installation In The Industry

40% Faster than metal or plastic shields

80% Faster than clamps and collars

Keeps Thermal Bridge Intact

Prevents insulation damage and compression

Tool-Free Installation

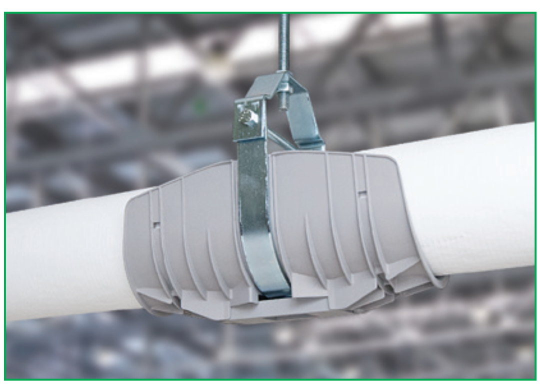
One simple click is all it takes

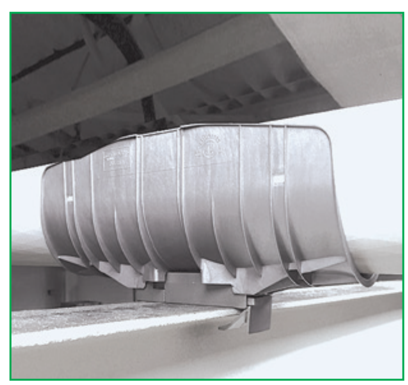
Maintains Pipe Insulation Properties

Permanent solution to displacement and/or falling of pipe support

Maintains Liquid Line In Place

Eliminates refrigerant leaks





Snap-A-Saddle Pro Multi™

Adaptable Insulated Pipe Saddle

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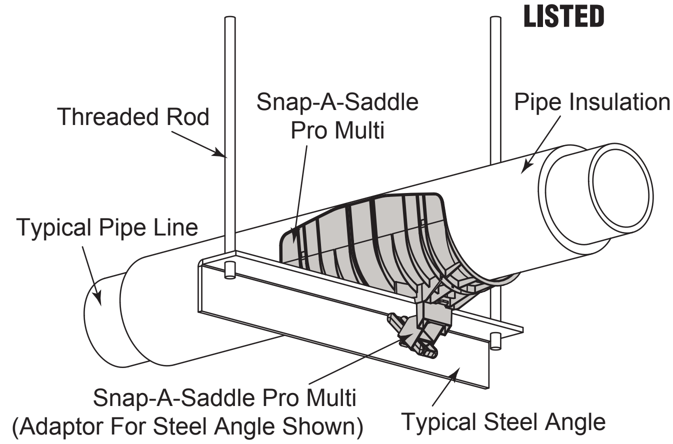


Applications:

Plumbing, Mechanical, Refrigeration, and Air Conditioning

Installation:

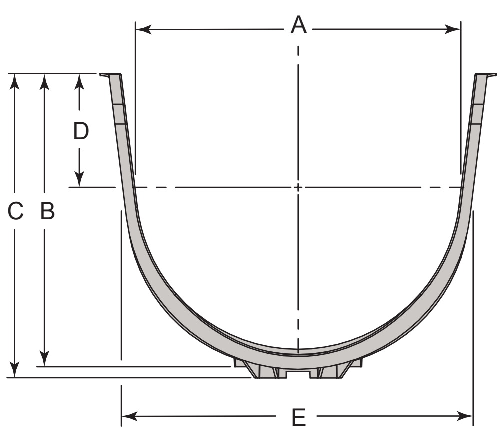
Tool-Free, suited for horizontal pipe installation.

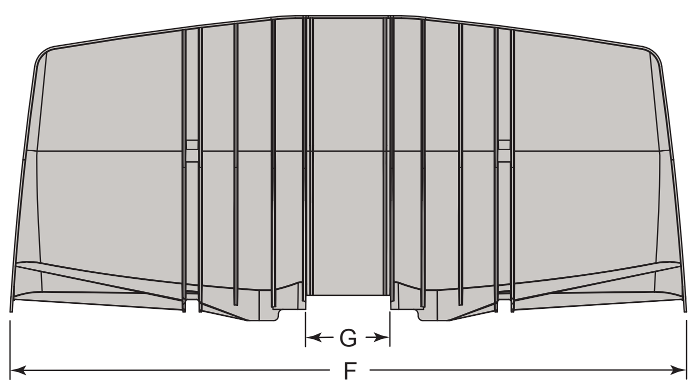
Certification:

UL classified for USA (UL-723 (ASTM E 84)) and
ULC listed for Canada (ULC-S102.2).

Material:

- Polypropylene 20% glass filled
- UV resistant
- Operating temperature -40° to 178°F *(-40° to 81°C)*
- Paintable (preserves mechanical properties even after painting)
- Non-adhesive surface for linear expansion of thermal insulation.

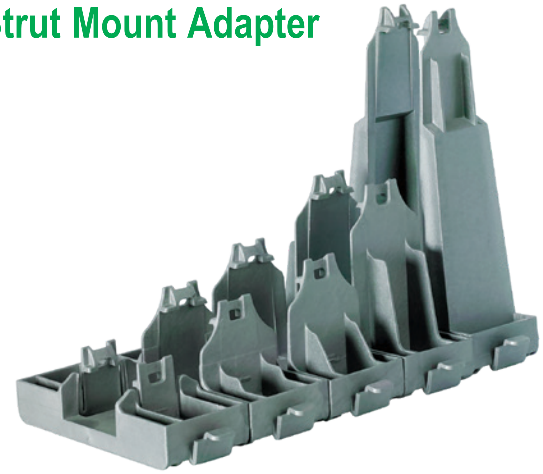


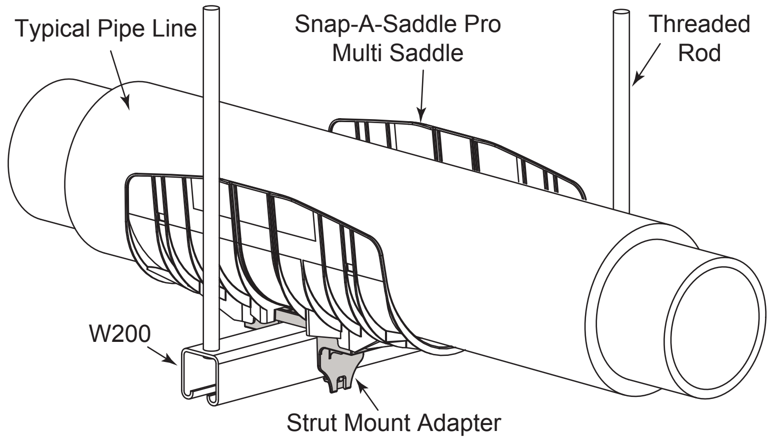


Part No. Grey	A	B	C	D	E	F Length	G
SASM250G	2.34" *(60mm)*	1.92" *(49mm)*	2.33" *(59mm)*	0.40" *(10mm)*	2.45" *(62mm)*		1.20" *(30mm)*
SASM350G	3.45" *(88mm)*	3.17" *(81mm)*	3.58" *(91mm)*	1.09" *(28mm)*	3.56" *(90mm)*		1.48" *(38mm)*
SASM450G	4.50" *(114mm)*	3.89" *(99mm)*	4.19" *(106mm)*	1.17" *(30mm)*	4.61" *(117mm)*	12" *(305mm)*	1.75" *(44mm)*
SASM550G	5.56" *(140mm)*	4.90" *(124mm)*	5.20" *(132mm)*	1.66" *(42mm)*	5.75" *(146mm)*		1.78" *(45mm)*
SASM650G	6.46" *(165mm)*	5.96" *(151mm)*	6.26" *(159mm)*	2.18" *(55mm)*	6.75" *(171mm)*		2.08" *(53mm)*
SASM850G	8.65" *(219mm)*	7.83" *(199mm)*	8.13" *(207mm)*	3.04" *(77mm)*	8.75" *(222mm)*	18" *(457mm)*	
SASM1050G	10.65" *(271mm)*	7.80" *(198mm)*	8.10" *(206mm)*	1.76" *(45mm)*	10.59" *(269mm)*	23" *(584mm)*	2.26" *(57mm)*
SASM1250G	12.65" *(321mm)*	9.18" *(233mm)*	9.48" *(241mm)*	2.14" *(54mm)*	12.52" *(318mm)*		

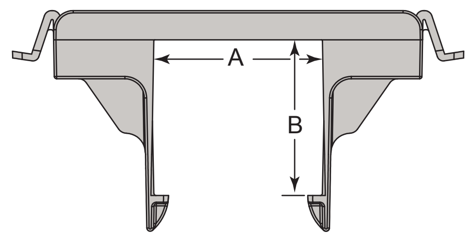
The use of the Stabilizer Adapter with 10" SASM1050G and 12" SASM1250G Saddles is suggested for additional support.

Strut Mount Adapter





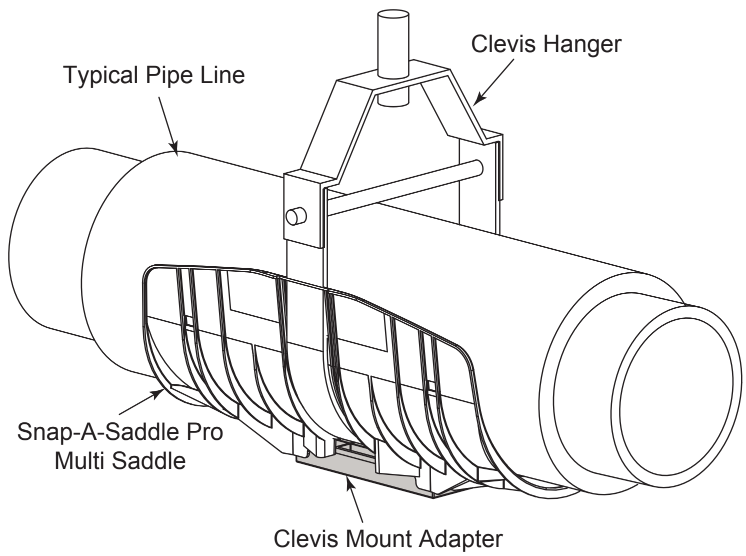
Part No.	A	B	Use with Channel Sizes
SASM30X30G	1-3/16" (30mm)	1-3/16" (30mm)	-
SASM31X43G	1-5/64" (31mm)	1-11/16" (43mm)	-
SASM40X38G	1-9/16" (40mm)	1-1/2" (38mm)	-
SASM42X20G	1-5/8" (41mm)	13/16" (21mm)	1-5/8" x 13/16"
SASM42X42G		1-5/8" (41mm)	1-5/8" x 1-5/8", 1-5/8" x 13/16" Back-to-Back
SASM42X84G		3-1/4" (165mm)	1-5/8" x 1-5/8" Back-to-Back, 1-5/8" x 3-1/4"
SASM42X166G		6-1/2" (165mm)	1-5/8" x 3-1/4" Back-to-Back
SASM4D21G	2-1/8" (54mm)	1-1/16" (27mm)	-
SASM4D22G		2-1/8" (54mm)	-

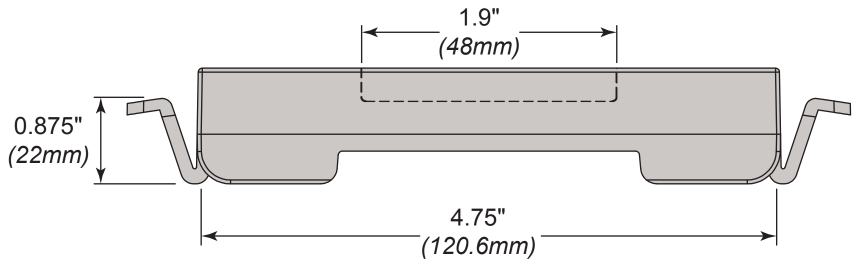


The use of the Stabilizer Adapter with 10" SASM1050G and 12" SASM1250G Saddles is suggested for additional support.

SASMCLEVISG

Clevis Mount Adapter





SnapShock™ can be attached to Clevis Mount Adapter.

Stabilizer can be attached with Clevis Mount Adapter

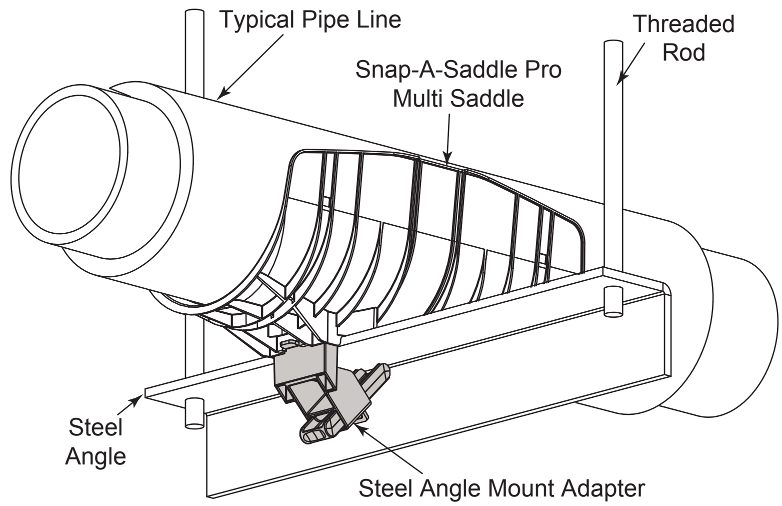
Clevis Mount Adapter is utilized with Floor Adapter assembly.

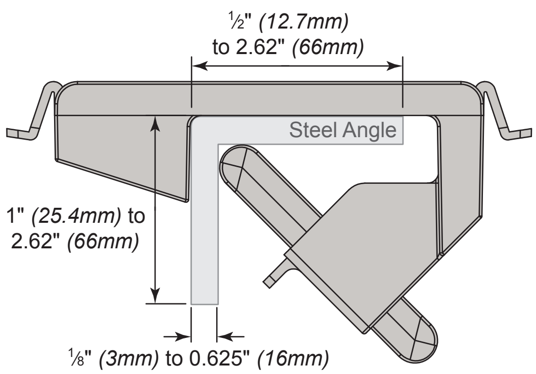
Snap-A-Saddle Pro Multi™ - Adapters

Adaptable Insulated Pipe Saddle

SASM2-5/8G

Steel Angle Mount Adapter

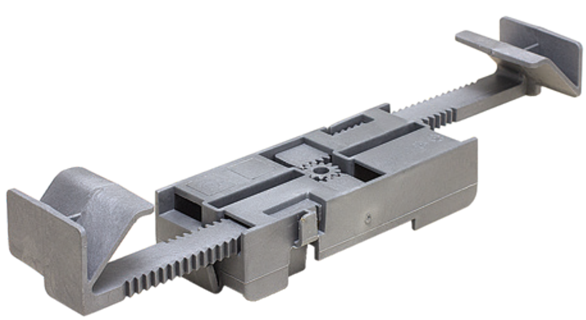


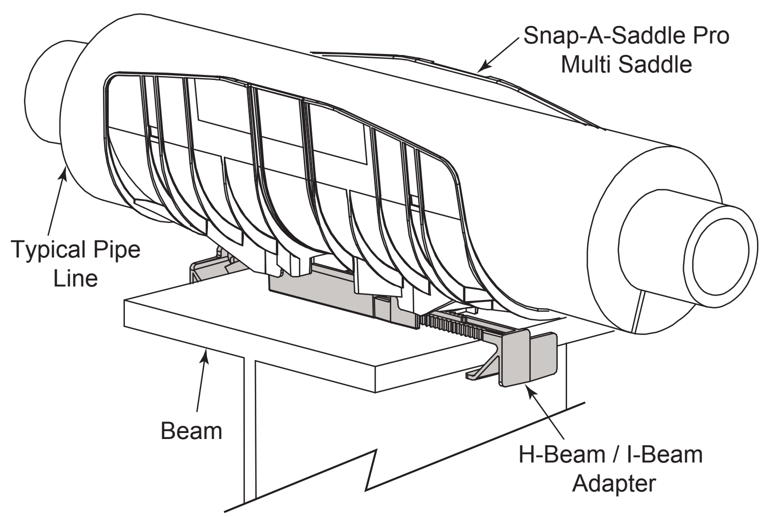


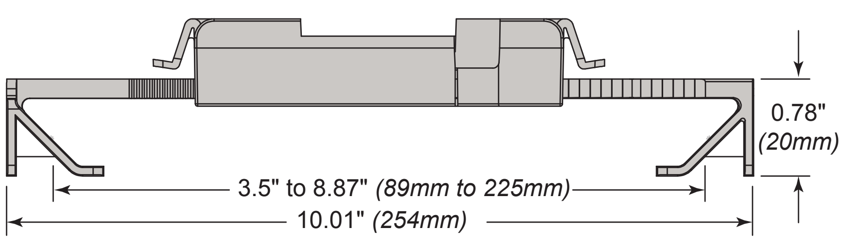
The use of the Stabilizer Adapter with 10" SASM1050G and 12" SASM1250G Saddles is suggested for additional support.

SASMHBEAMG

H-Beam / I-Beam Adapter





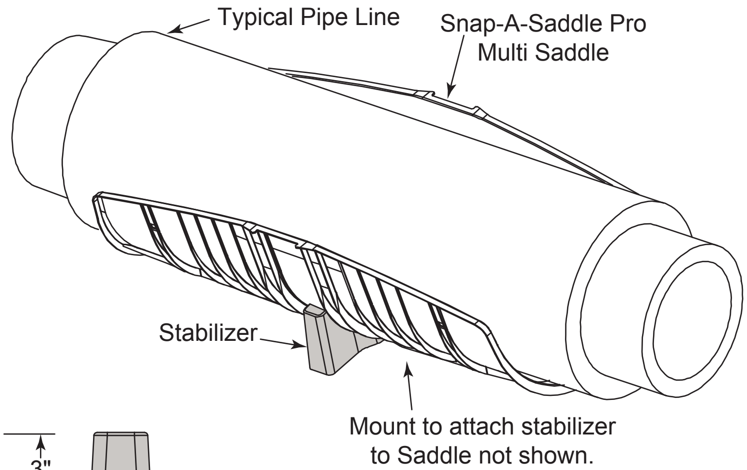


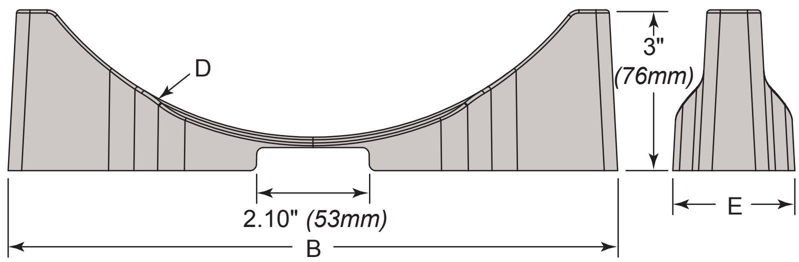
The use of the Stabilizer Adapter with 10" SASM1050G and 12" SASM1250G Saddles is suggested for additional support.

Snap-A-Saddle Pro Multi™ - Adapters

Adaptable Insulated Pipe Saddle

Stabilizer



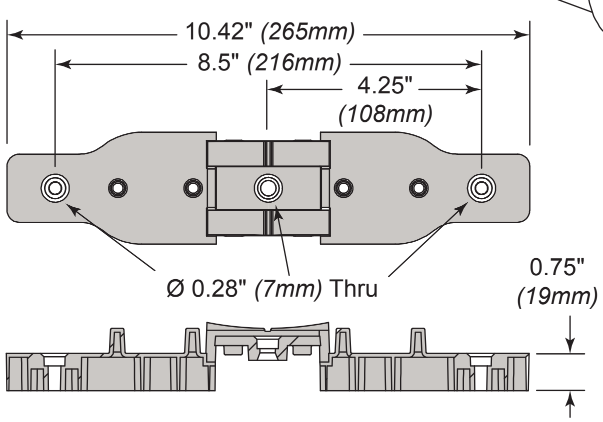


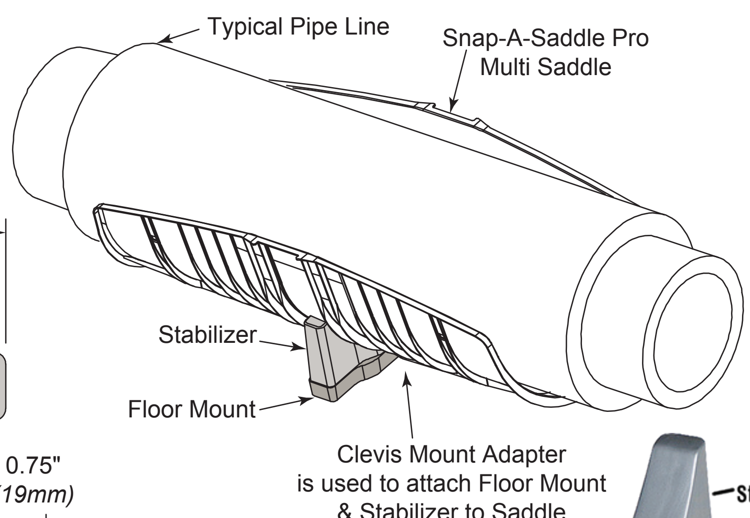
Part Number	B	D	E	Compatible Only with Saddle
SASMSTAB1050G	10.34" *(263mm)*	R5.13	2.24" *(57mm)*	SASM1050G
SASMSTAB1250G	11.38" *(289mm)*	R6.13	2.28" *(58mm)*	SASM1250G

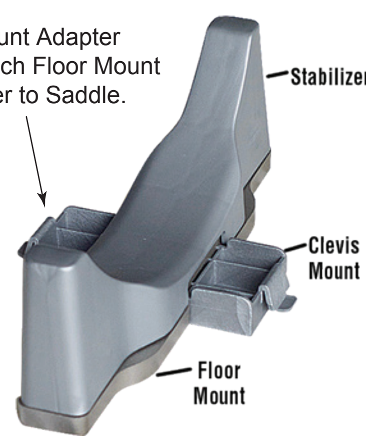
Stabilizer is attached to Saddle with Strut Mount, Steel Angle, H & I-Beam and Clevis Mount adapters.

The use of this Stabilizer Adapter with 10" SASM1050G and 12" SASM1250G Saddles is suggested for additional support.

Floor Adapter







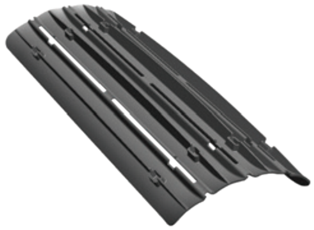
Floor Mount works with 10" SASM1050G and 12" SASM1250G Saddles.
Requires the Stabilizer and Clevis Mount Adapters as shown in photo to the right.

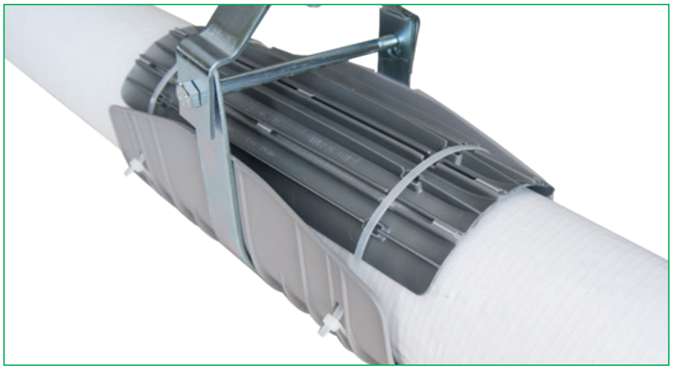
Part Number	Compatible Only with Saddle	Requires a Stabilizer	Requires a Clevis Mount
SASMFLOOR10-12G	SASM1050G & SASM1250G	SASMSTAB1050G & SASMSTAB1250G	SASCLEVISG

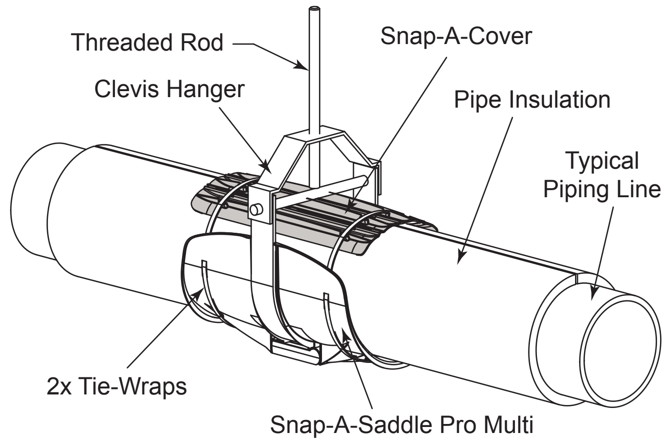
Snap-A-Cover™

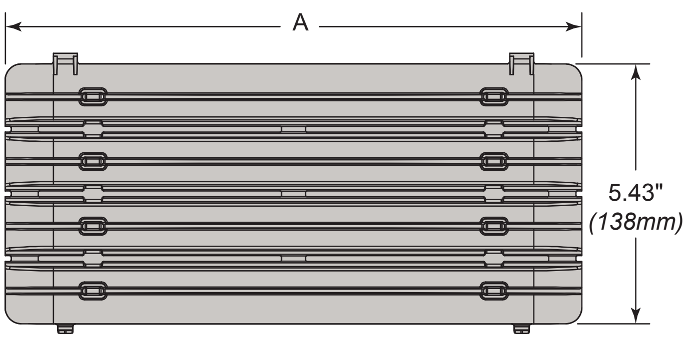
Cover for Insulated Pipe Saddle

Snap-A-Cover™
Insulated Pipe Saddle Cover









Applications:

Refrigeration, Air Conditioning and Plumbing

Installation:

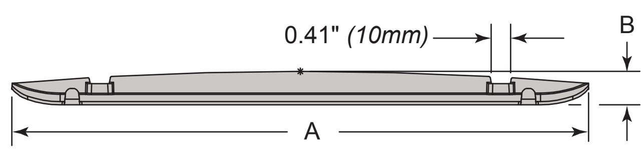
Tool-Free, Suited for vertical or horizontal pipe installation.

Certification:

UL classified for USA (UL-723 (ASTM E 84)) and
ULC listed for Canada (ULC-S102.2).

Material:

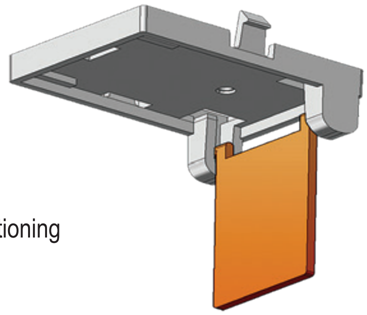
- Polypropylene
- UV resistant
- Operating temperature -40° to 178°F *(-40° to 81°C)*
- Paintable (preserves mechanical properties even after painting)
- Non-adhesive surface for linear expansion of thermal insulation.

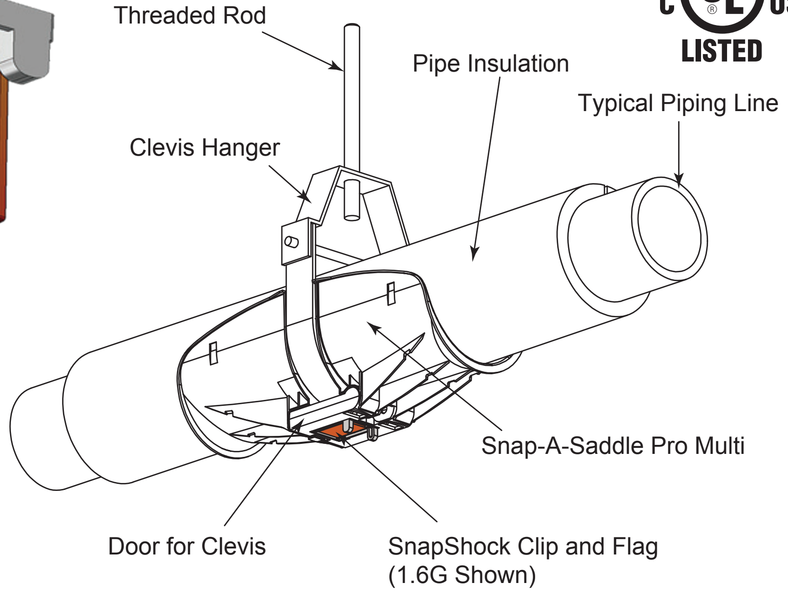


Part Number	Color	Use With Snap-A-Saddle Pro Part Numbers	A	B
SACX25B	Black	SAS225B, SAS325B, SAS425B, SAS525B, SAS625B	12" *(305mm)*	0.83" *(21mm)*
SACX25W	White	SAS225W, SAS325W, SAS425W, SAS525W, SAS625W		
SAC825B	Black	SAS825B		
SAC825W	White	SAS825W		

Part Number	Color	Use With Snap-A-Saddle Pro Multi Part Numbers	A	B
SACX50G	Grey	SASM250G, SASM350G, SASM450G, SASM550G, SASM650G	12" *(305mm)*	0.83" *(21mm)*
SACL50G	Grey	SASM850G, SASM1050G, SASM1250G	18" *(457mm)*	0.77" *(19.5mm)*

SnapShock™





Applications:

Refrigeration, Air Conditioning and Plumbing

Installation:

Tool-Free, clips directly into the Clevis adapter of the Snap-A-Saddle Pro Multi™

Certification:

UL classified for USA (UL-723 (ASTM E 84) and ULC listed for Canada (ULC-S102.2).

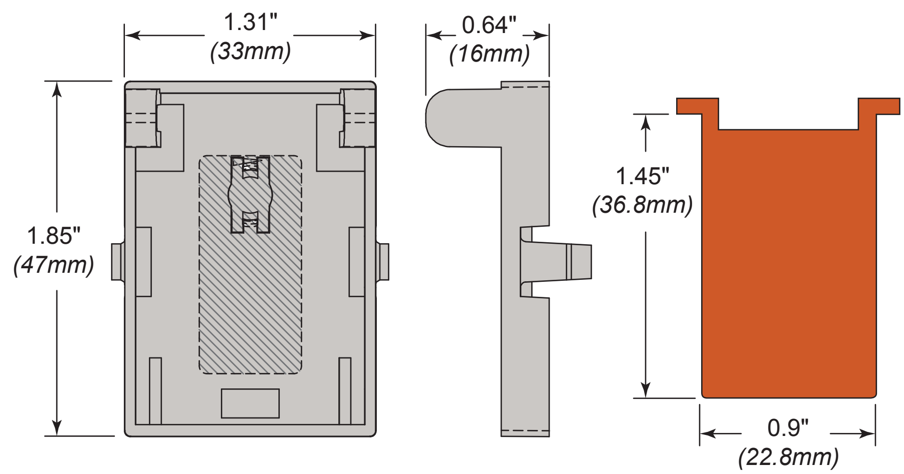
Material:

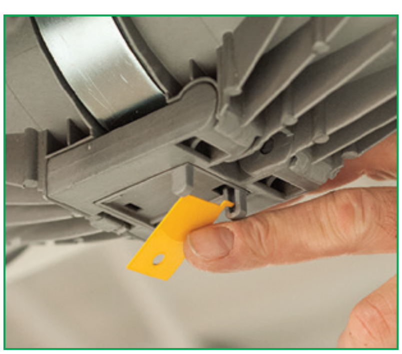
- Polypropylene 20% glass filled
- UV resistant
- Operating temperature -40° to 178°F *(-40° to 81°C)*

Each color coded flag will trigger at a different shock intensity. Flags are easily interchangeable for different shock tolerance. Flag thickness varies by shock intensity.

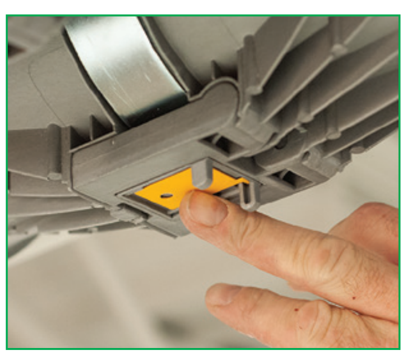
- 1.8G (Downward Allowable Stress Design)
- 1.6G (Downward Allowable Stress Design)
- 1.4G (Downward Allowable Stress Design)

SnapShock is sold by the set. Each set is supplied complete with all three flags.

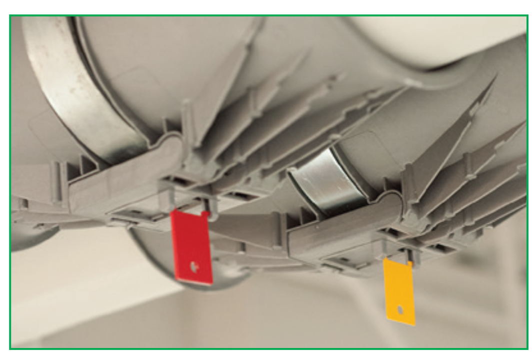




Install Flag



Set Flag to Arm

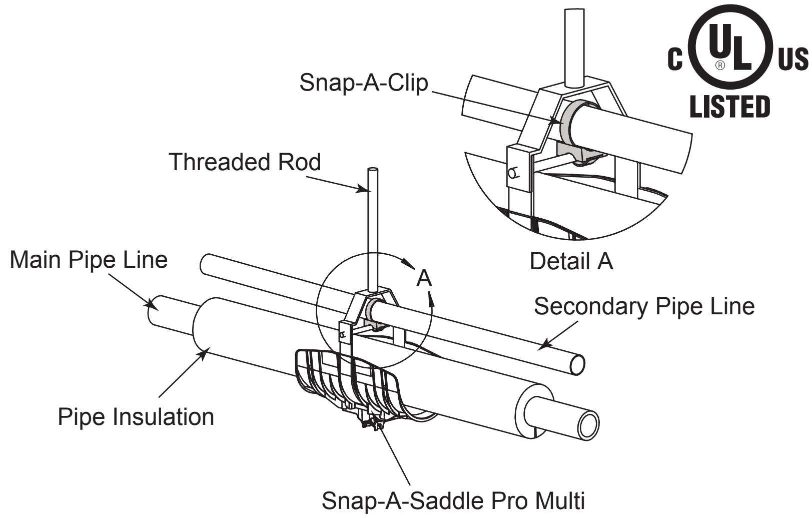


Activated Flag Indicates Shock Issue

Snap-A-Clip™

Dual-Strap Fastener for Clevis Hanger Cross-Bolt

Snap-A-Clip™



Applications:

Refrigeration, Air Conditioning, Plumbing, Electrical and Communication

Installation:

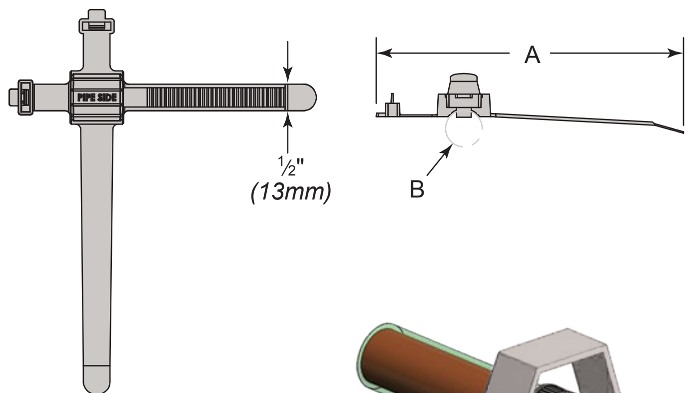
Tool-Free, Tie-wrap style

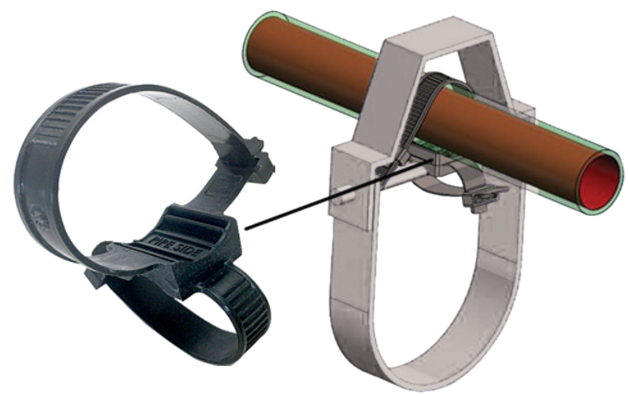
Certification:

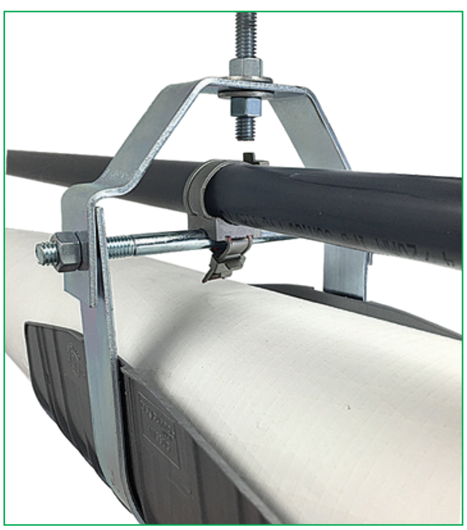
UL classified for USA (UL-723 (ASTM E 84)) and ULC listed for Canada (ULC-S102.2).

Material:

- Polypropylene
- UV resistant
- Operating temperature -40° to 178°F *(-40° to 81°C)*
- Paintable (preserves mechanical properties even after painting)







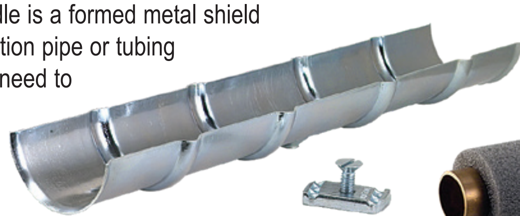
Part Number	For Pipe OD	A	B
SASP050B	¼" - ½"	5.62" *(143mm)*	0.68" *(17mm)*
SASP125B	⅝" - 1-¼"	5.77" *(147mm)*	1.25" *(32mm)*
SASP175B	1-5⁄16" - 1-¾"	6.20" *(158mm)*	1.75" *(45mm)*
SASP225B	1-¾" - 2-¼"	6.20" *(158mm)*	1.71" *(44mm)*

<table>
<tr><th rowspan="2">Bolt Diameter</th><th colspan="10">Pipe Diameter</th></tr>
<tr><th>¼"
(6mm)</th><th>½"
(13mm)</th><th>⅝"
(16mm)</th><th>¾"
(19mm)</th><th>1"
(25mm)</th><th>1-¼"
(39mm)</th><th>1-½"
(38mm)</th><th>1-¾"
(45mm)</th><th>2"
(51mm)</th><th>2-¼"
(57mm)</th></tr>
<tr><td>¼" (6.3mm)</td><td rowspan="5">SASP050B</td><td rowspan="5">SASP050B</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td><td>–</td></tr>
<tr><td>5⁄16" (7.9mm)</td><td rowspan="4">SASP125B</td><td rowspan="4">SASP125B</td><td rowspan="4">SASP125B</td><td rowspan="4">SASP125B</td><td>–</td><td>–</td><td>–</td><td>–</td></tr>
<tr><td>⅜" (9.5mm)</td><td rowspan="3">SASP175B</td><td>–</td><td>–</td><td>–</td></tr>
<tr><td>½" (12.7mm)</td><td rowspan="2">SASP225B</td><td rowspan="2">SASP225B</td><td>–</td></tr>
<tr><td>11⁄16" (17.5mm)</td><td>SASP225B</td></tr>
</table>

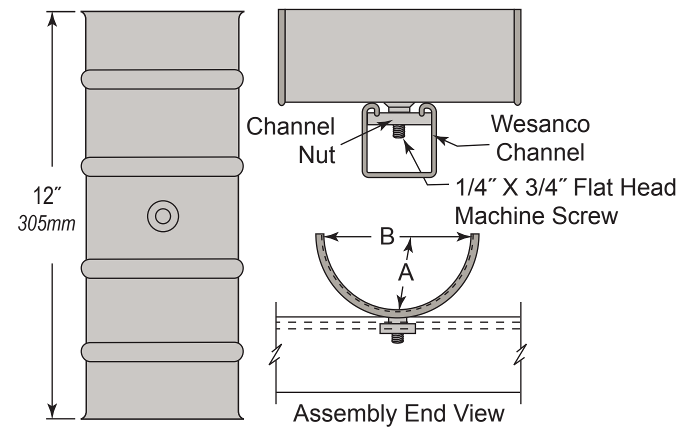
IDEAL TRIDON GROUP

Saddle-Up

Insulation Saddle



The Saddle-Up Pipe Insulation Saddle is a formed metal shield designed to allow insulated refrigeration pipe or tubing to pass through the support without need to compromise the vapor barrier and protects from crushing or damage at hanger and support locations. Made from 20 gage electro-galvanized steel the ribbed design along its 12" *(305mm)* length offers the superior support needed to spread out loading on insulation which reduces the potential for internal cavity creation between the pipe and insulation. The Z-Strut mounting option provides a time tested secure and safe attachment method so there is no need for other tie downs to the support.



FEATURES:

- Shipped with all necessary hardware to attach to Z-Strut or any other industry standard 1 5/8" *(41mm)* wide strut channel.
- Features flared edges to protect pipe insulation jacketing.
- Each Saddle individually marked with part number
- Counter Sunk attachment Hole and Flat Head Machine Screw prevent possible damage to insulation.
- Electro-Galvanized Steel provides excellent rust protection and has no exposed fabricated edges.

Dimensions (Inches)			1/2" *(13mm)* Insulation		3/4" *(19mm)* Insulation		1" *(25mm)* Insulation		1 1/2" *(38mm)* Insulation	
Part No.	**B Width**	**A Radius**	**OD Tube Size**	**OD With Insulation**	**OD Tube Size**	**OD With Insulation**	**OD Tube Size**	**OD With Insulation**	**OD Tube Size**	**OD With Insulation**
SD150	1 1/2" *(38mm)*	3/4" *(19mm)*	3/8"	1 3/8" *(35mm)*	–	–	–	–	–	–
			1/2"	1 1/2" *(38mm)*	–	–	–	–	–	–
SD200	2" *(51mm)*	1" *(25mm)*	5/8"	1 5/8" *(41mm)*	3/8"	1 7/8" *(48mm)*	–	–	–	–
			3/4"	1 3/4" *(45mm)*	1/2"	2" *(51mm)*	–	–	–	–
			7/8"	1 7/8" *(48mm)*	–	–	–	–	–	–
SD250	2 1/2" *(64mm)*	1 1/4" *(32mm)*	1 1/8"	2 1/8" *(54mm)*	5/8"	2 1/8" *(54mm)*	3/8"	2 3/8" *(60mm)*	–	–
			1 3/8"	2 3/8" *(60mm)*	3/4"	2 1/4" *(57mm)*	1/2"	2 1/2" *(64mm)*	–	–
			–	–	7/8"	2 3/8" *(60mm)*	–	–	–	–
SD300	3" *(76mm)*	1 1/2" *(38mm)*	1 5/8"	2 5/8" *(67mm)*	1 1/8"	2 5/8" *(67mm)*	5/8"	2 5/8" *(67mm)*	–	–
			–	–	1 3/8"	2 7/8" *(73mm)*	3/4"	2 3/4" *(70mm)*	–	–
			–	–	–	–	7/8"	2 7/8" *(73mm)*	–	–
SD350	3 1/2" *(89mm)*	1 3/4" *(45mm)*	2 1/8"	3 1/8" *(79mm)*	1 5/8"	3 1/8" *(79mm)*	1 1/8"	3 1/8" *(79mm)*	3/8"	3 3/8" *(86mm)*
			2 3/8"	3 3/8" *(86mm)*	–	–	1 3/8"	3 3/8" *(86mm)*	1/2"	3 1/2" *(89mm)*
SD450	4 1/2" *(114mm)*	2 1/4" *(57mm)*	2 5/8"	3 5/8" *(86mm)*	2 1/8"	3 5/8" *(92mm)*	1 5/8"	3 5/8" *(92mm)*	5/8"	3 5/8" *(92mm)*
			–	–	2 3/8"	3 7/8" *(98mm)*	–	–	3/4"	3 3/4" *(95mm)*
			–	–	–	–	–	–	7/8"	3 7/8" *(98mm)*
			3 1/8"	4 1/8" *(105mm)*	2 5/8"	4 1/8" *(105mm)*	2 1/8"	4 1/8" *(105mm)*	1 1/8"	4 1/8" *(105mm)*
			–	–	–	–	2 3/8"	4 3/8" *(111mm)*	1 3/8"	4 3/8" *(111mm)*
SD550	5 1/2" *(140mm)*	2 3/4" *(70mm)*	3 5/8"	4 5/8" *(118mm)*	3 1/8"	4 5/8" *(118mm)*	2 5/8"	4 5/8" *(118mm)*	1 5/8"	4 5/8" *(118mm)*
			4 1/8"	5 1/8" *(130mm)*	3 5/8"	5 1/8" *(130mm)*	3 1/8"	5 1/8" *(130mm)*	2 1/8"	5 1/8" *(130mm)*
			–	–	–	–	–	–	2 3/8"	5 3/8" *(143mm)*
SD650	6 1/2" *(165mm)*	3 1/4" *(83mm)*	–	–	4 1/8"	5 5/8" *(143mm)*	3 5/8"	5 5/8" *(143mm)*	2 5/8"	5 5/8" *(143mm)*
			–	–	–	–	4 1/8"	6 1/8" *(156mm)*	3 1/8"	6 1/8" *(156mm)*

IDEAL TRIDON GROUP

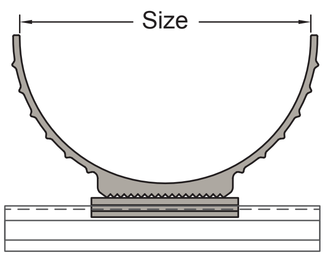
Snap-A-Saddle®

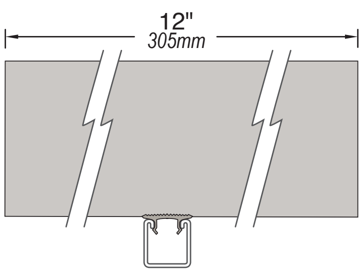
Strut Mount Plastic Insulation Saddle

The Snap-A-Saddle provides an easy way to attach insulated pipes to support channel, with one step, tool-free installation.

Snaps easily into channel

- Temp Range: -50° to 275°F *(-46° to 135° C)*
- Available in both black and white
- UL94-HB1 Rated TPV Material
- Made in USA
- Easy Installation
- Standard 12" *(305mm)* lengths. Special lengths available upon request





Part No.		Nominal Inside Opening
Black	White	
SB225	SW225	2-1/4" *(57mm)*
SB325	SW325	3-1/4" *(83mm)*
SB425	SW425	4-1/4" *(108mm)*
SB525	SW525	5-1/4" *(133mm)*
SB625	SW625	6-1/4" *(159mm)*
SB825	SW825	8-5/8" *(219mm)*

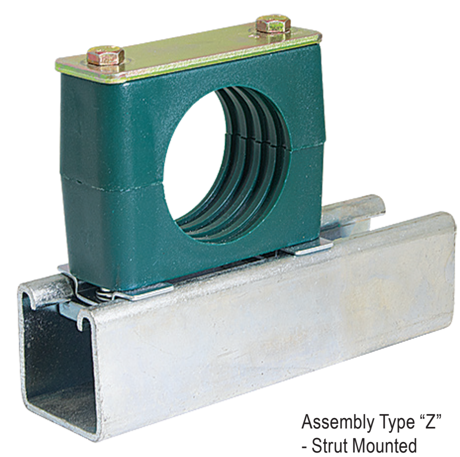
<table>
<tr><th colspan="6">Snap-A-Saddle Size Guide - Copper Tubing</th></tr>
<tr><th rowspan="2">Tubing Size</th><th colspan="5">Insulation Thickness</th></tr>
<tr><th>1/2" (13mm)</th><th>3/4" (19mm)</th><th>1" (25mm)</th><th>1-1/2" (38mm)</th><th>2" (51mm)</th></tr>
<tr><td>1/4"</td><td rowspan="6">S*225</td><td rowspan="3">S*225</td><td rowspan="6">S*325</td><td rowspan="6">S*425</td><td rowspan="6">S*525</td></tr>
<tr><td>3/8"</td></tr>
<tr><td>1/2"</td></tr>
<tr><td>5/8"</td><td rowspan="5">S*325</td></tr>
<tr><td>3/4"</td></tr>
<tr><td>1"</td></tr>
<tr><td>1-1/4"</td><td rowspan="3">S*325</td><td rowspan="3">S*425</td><td rowspan="3">S*525</td><td rowspan="3">S*625</td></tr>
<tr><td>1-1/2"</td></tr>
<tr><td>2"</td><td rowspan="2">S*425</td></tr>
<tr><td>2-1/2"</td><td rowspan="2">S*425</td><td rowspan="2">S*525</td><td rowspan="2">S*625</td><td rowspan="4">S*825</td></tr>
<tr><td>3"</td><td rowspan="2">S*525</td></tr>
<tr><td>3-1/2"</td><td rowspan="2">S*525</td><td rowspan="2">S*625</td><td rowspan="2">S*825</td></tr>
<tr><td>4"</td><td>S*625</td></tr>
<tr><td colspan="6">* Add "B" for Black or "W" for White</td></tr>
</table>

<table>
<tr><th colspan="6">Snap-A-Saddle Size Guide - Schedule 40/80 Pipe</th></tr>
<tr><th rowspan="2">Pipe Size</th><th colspan="5">Insulation Thickness</th></tr>
<tr><th>1/2" (13mm)</th><th>3/4" (19mm)</th><th>1" (25mm)</th><th>1-1/2" (38mm)</th><th>2" (51mm)</th></tr>
<tr><td>1/4"</td><td rowspan="4">S*225</td><td rowspan="2">S*225</td><td rowspan="4">S*325</td><td rowspan="4">S*425</td><td rowspan="4">S*525</td></tr>
<tr><td>3/8"</td></tr>
<tr><td>1/2"</td><td rowspan="4">S*325</td></tr>
<tr><td>3/4"</td></tr>
<tr><td>1"</td><td rowspan="3">S*325</td><td rowspan="4">S*425</td><td rowspan="4">S*525</td><td rowspan="4">S*625</td></tr>
<tr><td>1-1/4"</td></tr>
<tr><td>1-1/2"</td><td rowspan="2">S*425</td></tr>
<tr><td>2"</td><td rowspan="2">S*425</td></tr>
<tr><td>2-1/2"</td><td rowspan="2">S*525</td><td>S*525</td><td>S*625</td><td rowspan="4">S*825</td></tr>
<tr><td>3"</td><td rowspan="2">S*525</td><td rowspan="2">S*625</td><td rowspan="3">S*825</td></tr>
<tr><td>3-1/2"</td><td rowspan="2">S*625</td></tr>
<tr><td>4"</td><td>S*625</td><td>S*825</td></tr>
<tr><td colspan="6">* Add "B" for Black or "W" for White</td></tr>
</table>

Snap-A-Saddle® is manufactured under U.S. patents #D753468 and Canadian patents #163550

Beta Clamps - Standard

Standard Series Beta Clamps



Assembly Type "Z"
- Strut Mounted

- Cushions are Polypropylene (Green Color)
- Recommended for systems with less than 1,500 psi *(103 bar)* without dynamic loads.
- Use for standard hydraulics, general pipe construction, electrical cables, and general duty piping applications subject to moderate levels of shock and vibration.
- Aluminum cushions are used in higher heat applications up to 500°F *(260°C)*

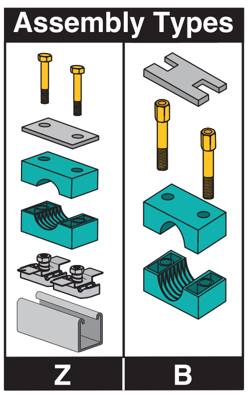
INSTALLATION - Refer to technical data section for complete installation guide.

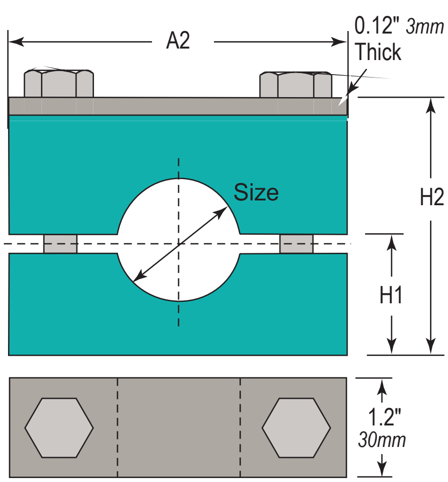
Group	Part No. *	Tube Size	Pipe Size	Metric Size	Dimensions A2	Dimensions H1	Dimensions H2	Bolt
S1	S1004	¼" (0.250)	–	–	1.34" (34)	0.50" (13)	1.13" (29)	¼"-20 x 1¼"
	S1006	⅜"(0.375)	–	–				
	SM1006	–	–	6mm				
	S1007	–	⅛" (0.405)	–				
	SM1008	–	–	8mm				
	SM1012	–	–	12mm				
S2	S2008	½" (0.500)	–	–	1.57" (40)	0.64" (16)	1.42" (36)	¼"-20 x 1⅜"
	S2009	–	¼" (0.540)	–				
	S2010	⅝" (0.625)	–	–				
	S2011	–	⅜" (0.675)	–				
	SM2014	–	–	14mm				
	SM2015	–	–	15mm				
	SM2018	–	–	18mm				
S3	S3012	¾" (0.750)	–	–	1.96" (50)	0.68" (17)	1.49" (38)	¼"-20 x 1½"
	S3014	–	½" (0.840)	–				
	S3015	⅞" (0.875)	–	–				
	S3016	1" (1.000)	–	–				
	SM3020	–	–	20mm				
	SM3025	–	–	25mm				
S4	S4017	–	¾" (1.050)	–	2.28" (58)	0.82" (21)	1.76" (45)	¼"-20 x 1¾"
	S4018	1⅛" (1.125)	–	–				
	SM4030	–	–	30mm				
S5	S5020	1¼" (1.250)	–	–	2.75" (70)	1.13" (29)	2.40" (61)	¼"-20 x 2½"
	S5021	–	1" (1.315)	–				
	S5024	1½" (1.500)	–	–				
	S5027	–	1¼" (1.660)	–				
	SM5035	–	–	35mm				
S6	S6028	1¾" (1.750)	–	–	3.38" (86)	1.29" (33)	2.71" (69)	¼"-20 x 2¾"
	S6030	–	1½" (1.900)	–				
	S6032	2" (2.000)	–	–				
S7	S7038	–	2" (2.375)	–	4.75" (121)	1.88" (48)	3.93" (100)	¼"-20 x 4"
	S7036	2¼" (2.250)	–	–				
	S7040	2½" (2.500)	–	–				
	S7044	2¾" (2.750)	–	–				
	S7048	3" (3.000)	–	–				

SUFFIX

*For additional sizes contact factory.
Note: Add assembly type to part number. Example: **S1004S-SS** provides the complete assembly as shown with stainless steel components.
NOTE: SM (metric) only available in Steel with Polypropylene (green) cushion.

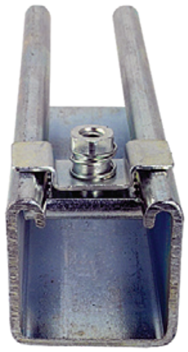
Suffix	Components	Cushion	Example
none	Steel	Polypropylene (green)	**S1004S**
-AL	Steel	Aluminum	**S1004S-AL**
-SS	Stainless Steel	Polypropylene (green)	**S1004S-SS**





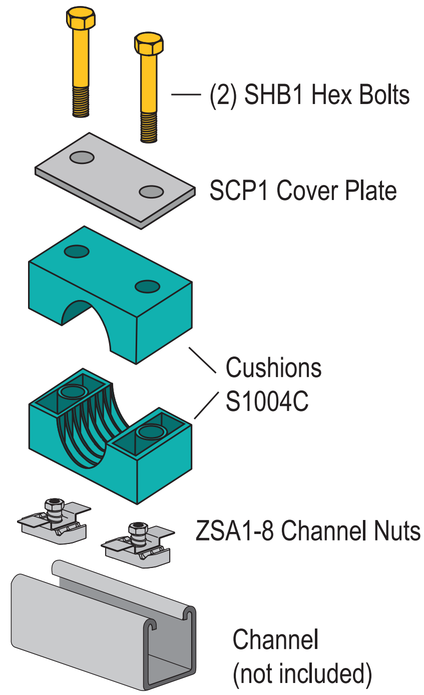
Complete Beta Product Line - Refer to Foster Quick Disconnects Product Catalog for more information on all available Beta Clamps

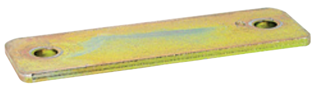
Standard Series Beta Clamps

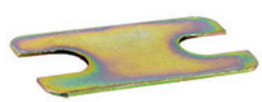


Channel with ZSA1-8 Nut installed

Strut Mounted Ordering Example - S1004Z		
"Z" Assembly Includes		
Quantity	**Part No.**	**Description**
2 Each	SHB1	Hex Bolts
1 Each	SCP1	Cover Plate
1 Set	S1004C	Cushions
2 Each	ZSA1-8	Channel Nuts



STANDARD SERIES COVER PLATE		
	SCP1	Use with Group S1
	SCP2	Use with Group S2
	SCP3	Use with Group S3
	SCP4	Use with Group S4
	SCP5	Use with Group S5
	SCP6	Use with Group S6
	SCP7	Use with Group S7

STANDARD SERIES SAFETY PLATE		
	SP1	Use with Group S1
	SP2	Use with Group S2
	SP3	Use with Group S3
	SP4	Use with Group S4
	SP5	Use with Group S5
	SP6	Use with Group S6
	SP7	Use with Group S7

HEX BOLT (Two required per assembly)		
	SHB1	Use with Group S1
	SHB2	Use with Group S2
	SHB3	Use with Group S3
	SHB4	Use with Group S4
	SHB5	Use with Group S5
	SHB6	Use with Group S6
	SHB7	Use with Group S7

STACKING BOLTS - (Two required per assembly)		
	SB1	Use with Group S1
	SB2	Use with Group S2
	SB3	Use with Group S3
	SB4	Use with Group S4
	SB5	Use with Group S5
	SB6	Use with Group S6
	SB7	Use with Group S7

STRUT NUT - For connection to Channel (Two required)		
	ZSA1-8	Use with Groups S1-S7

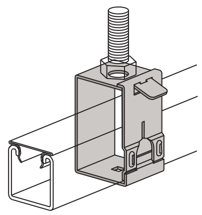
CHANNEL		
	Pages 40 - 44	1$\frac{5}{8}$" x 1$\frac{5}{8}$" *(41mm x 41mm)*
	Pages 55 - 59	1$\frac{5}{8}$" x $\frac{13}{16}$" *(41mm x 11mm)*
	Pages 48 - 51	1$\frac{5}{8}$" x 1" *(41mm x 25mm)*
	Pages 52 - 54	1$\frac{5}{8}$" x $\frac{7}{8}$" *(41mm x 22mm)*

Complete Beta Product Line - Refer to Foster Quick Disconnects Product Catalog for more information on all available Beta Clamps

Electrical Fittings

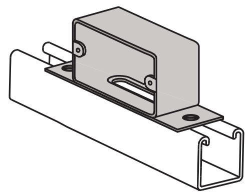
Fixture Hangers

Pages 228 - 230



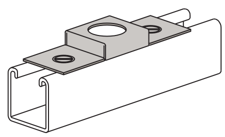
Receptacle Boxes

Page 235



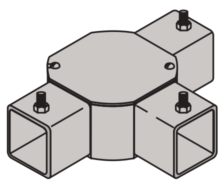
Conduit Connector

Pages 230 - 231



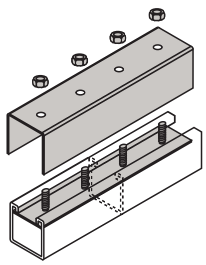
Junction Boxes

Pages 236 - 237



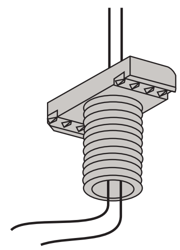
Raceway Splice Assemblies

Pages 232 - 234



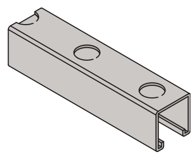
Accessories

Pages 237 - 239



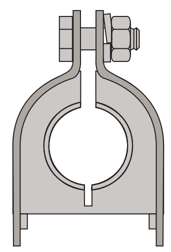
Raceway Channel with Knock-Outs

1-5/8" x 2-1/2" 12 Gauge (page 60)
1-5/8" x 1-5/8" 12 Gauge (page 41)
1-5/8" x 1-5/8" 14 Gauge (page 41)
1-5/8" x 1-3/8" 12 Gauge (page 45)
1-5/8" x 13/16" 14 Gauge (page 55)



Porce-a-Clamp

Page 240



Maximum Number of Wires

Also suitable for the number of wires in table below when installed to support and supply electric discharge type lighting fixtures when raceway wiring is suitable for at least 70°C and clearance between fixture and raceway is at least 1/8". In all cases, a snap-in cover is required to complete the raceway enclosure.
Wire Types: R, RH, RU, RW, T, or TW

Wire Size AWG	1-5/8" x 1-5/8" Channel	1-5/8" x 1-3/8" Channel	1-5/8" x 13/16" Channel
14	10	10	6
12	10	10	6
10	8	6	-
8	6	4	-
6	3	2	-

Electrical Specifications		
Material	**ASTM**	**Description**
Hot Rolled Plate	A 575	Steel, sheet and strip, carbon drawing quality, special killed, hot rolled.
Fitting (Steel)	A 366 A 366 A 36	Steel carbon, cold rolled sheet, commercial quality structural steel.

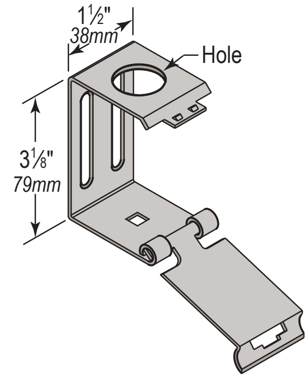
See page 25 for Material or Finish ordering codes for part numbers.

Electrical Finish Specifications	
Finish	**Description**
Paint-Green Powder Coating	A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.
Electroplated	Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.
Mill-Galvanized (Pre-Galvanized)	Galvanized steel used in the manufacture of Channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present.
Hot Dip Galvanized After Fabrication	Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications.: ASTM A 123, ASTM A153, or ASTM A386.
Special Coatings	Other commercially available finishes can be supplied per specification when required to protect applications.

Hinged Fluorescent Fixture Hanger

For 1-5/8" Channel

UL LISTED

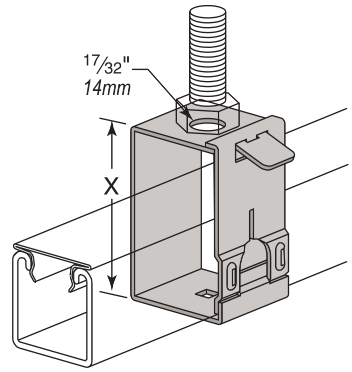


May be used as a channel hanger Florida Strut model EF46 required for fixture attachment.

FLORIDA STRUT	VERSABAR	WESANCO	Hole Size	Design Load 12 Ga. Channel
EF10	VF7106	--	9/16" *(14mm)*	120 *(0.53 kN)*
EF12	--	--	7/8" *(22mm)*	

Single Channel Fixture Hanger

UL LISTED

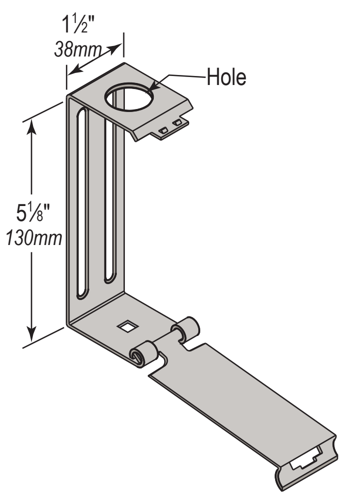


FLORIDA STRUT	VERSABAR	WESANCO	I.D. X
--	--	W6420	3" *(76mm)*
--	--	W6422	4" *(102mm)*

Hinged Fluorescent Fixture Hanger

For 3-1/4" Channel

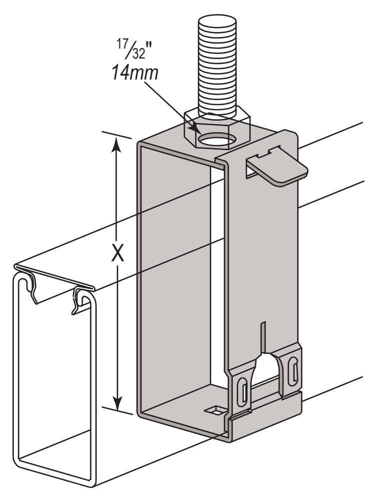
UL LISTED



FLORIDA STRUT	VERSABAR	WESANCO	Hole Size	Design Load 12 Ga. Channel
EF11	VF710611	--	9/16" *(14mm)*	120 *(0.53 kN)*
EF13	--	--	7/8" *(22mm)*	

Double Channel Fixture Hanger

UL LISTED



FLORIDA STRUT	VERSABAR	WESANCO	I.D. X
--	--	W6424	4-15/16" *(125mm)*
--	--	W6426	5-15/16" *(151mm)*

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

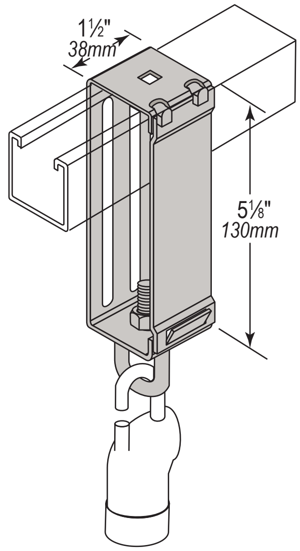
Hinged Fluorescent Fixture Hanger

For 1-⅝" or 3-¼" Channel

Fast connection of H.I.D. fixture couplings.

Includes:

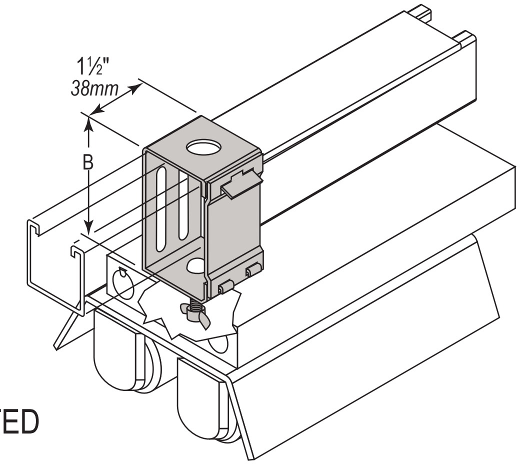
- Hanger
- VXE4 ½" Eyelet
- ½" Hex Nut



FLORIDA STRUT	VERSABAR	WESANCO
--	VF710611H	--

Hinged Fluorescent Fixture Hanger Assembly

For 1-⅝" or 3-¼" Channel



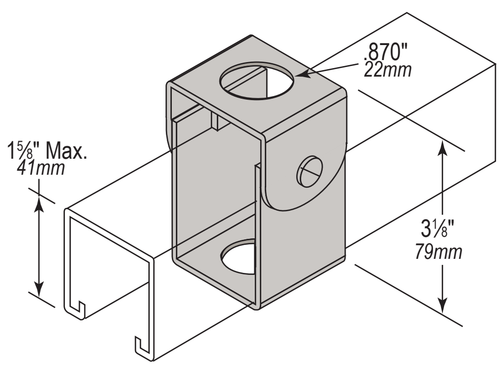
UL LISTED

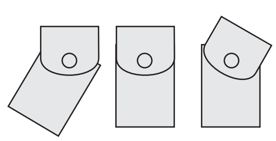
Hanger assembly comes complete with wing nut and bolt for quick attachment of fixtures. Provides at least 1/2" (12. 7) space between fixture and raceway. Fits all channels up to 1-⅝" (41mm) deep. For channels over 1-⅝"(41mm) deep order VF7106F11.
To cushion fixture use: RW25 Bushing

FLORIDA STRUT	VERSABAR	WESANCO	Dim. B
--	VF7106F	--	3-⅛" *(79mm)*
--	VF7106F11	--	5-⅛" *(130mm)*

Hinged Channel Hanger

For 1-⅝" Channel



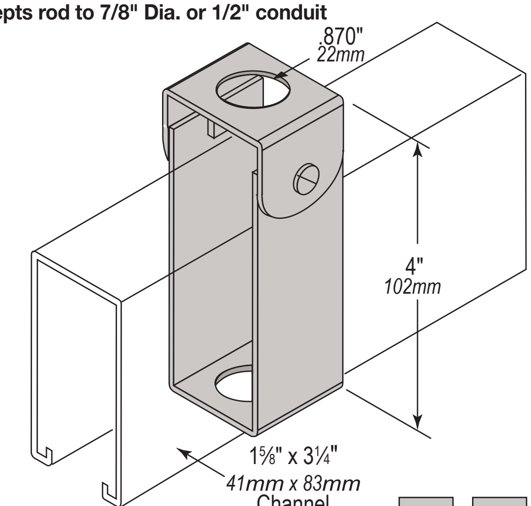


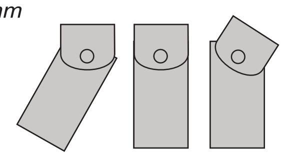
UL LISTED

FLORIDA STRUT	VERSABAR	WESANCO	Design Load 12 Ga. Channel
EF14	VF7104	--	120 *(0.53 kN)*

Hinged Channel Hanger

For 3-¼" Channel
Accepts rod to 7/8" Dia. or 1/2" conduit



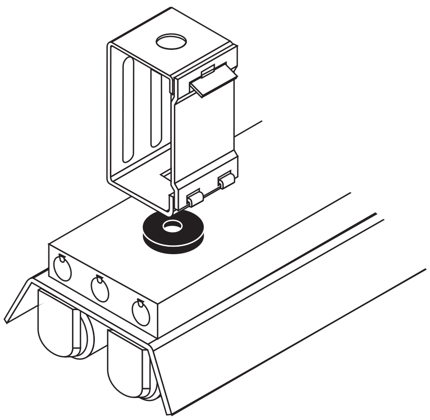


UL LISTED

FLORIDA STRUT	VERSABAR	WESANCO	Design Load 12 Ga. Channel
EF15	VF710411	--	120 *(0.53 kN)*

Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Cushion Washer for Box Fixture Hangers

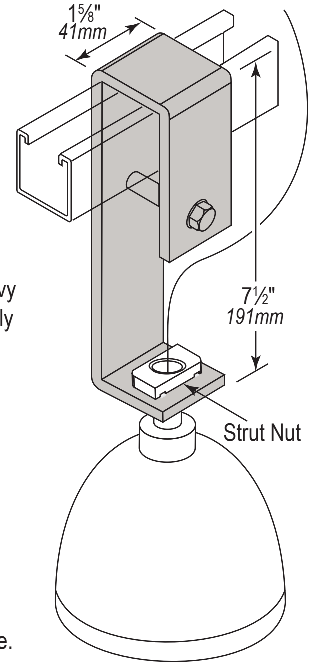


Provides a cushion between flourescent fixture and hanger.
For use with 1/4" thread diameter fasteners.

FLORIDA STRUT	VERSABAR	WESANCO
--	RW25	--

Clevis Fixture Hanger

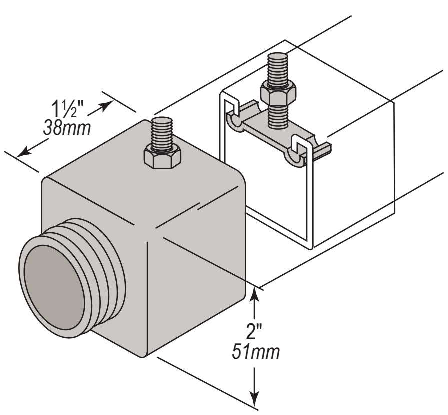
Clevis hanger for suspension of mercury, metal halide, H.P.S. or heavy incandescents. Supports fixture rigidly from raceway channel and allows for plug-in connection with LL41A or B. For use with channels up to 2-1/2" (64mm) deep. Bolt and nut for clamping action are included.



7/8" (22mm) dia. base hole accepts 1/2" conduit or EB-22 & EB23A wiring nipples, also shown on the next page.

FLORIDA STRUT	VERSABAR	WESANCO
--	VF7105A	--

1" Nipple End Cap

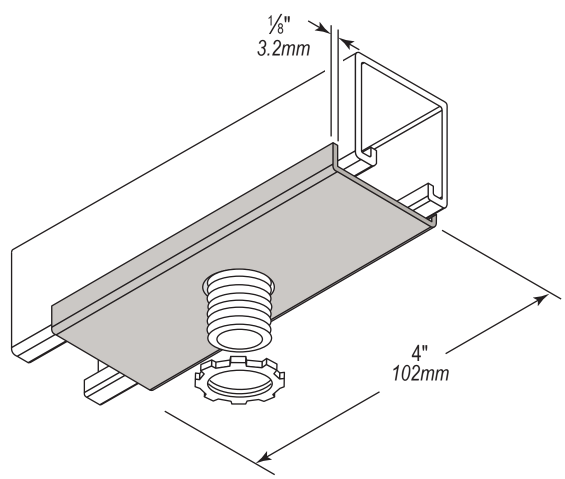


UL LISTED

Conduit entry fitting with 1" NPT male thread on 9/16" long nipple. Fits 1-5/8" (41mm) square channel only.
Comes complete with FF-100 stud nut assembly.

FLORIDA STRUT	VERSABAR	WESANCO
--	LL21A	--

Fixture Spacer



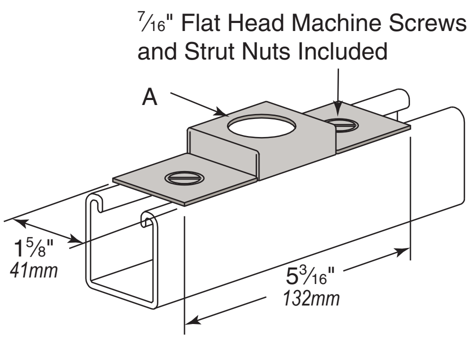
Spacer fits between channel and electric discharge lighting fixtures where 1/8" (3.2) clearance is required. Clearance hole for EB22 wiring nipple nut also shown on this page. (Nipple and locknut not included.)

FLORIDA STRUT	VERSABAR	WESANCO
--	LL60	--

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

Standard Finish: Electro Galvanized (EG)

Conduit Connection Plate with Hardware

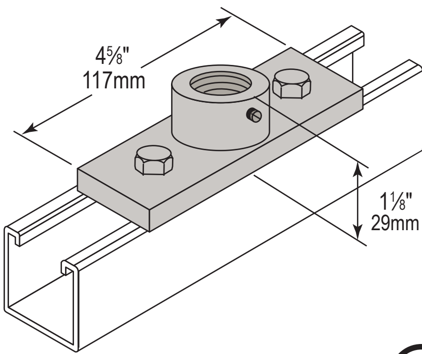


UL LISTED

Non load bearing conduit connector. Fraction indicates conduit size. Furnished with mounting hardware for connection to channel.

FLORIDA STRUT	VERSABAR	WESANCO	Use with Conduit
EF220050	EB20A50	W6442	½" *(13mm)*
EF220075	EB20A75	W6443	¾" *(19mm)*

Raceway Conduit Connector

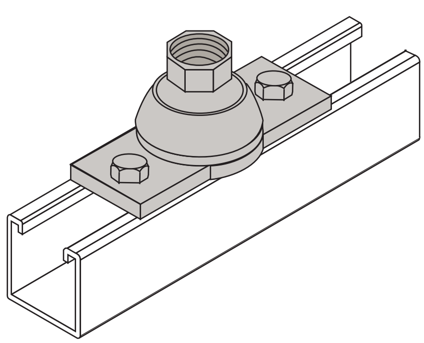


UL LISTED

Raceway supporting conduit connector. Fraction indicates conduit size. Furnished with ¼"x½" set screw and mounting hardware for connection to channel.
Casting thread is for ¾" conduit, reducer will be supplied for ½" conduit if ordered as EB19A50

FLORIDA STRUT	VERSABAR	WESANCO	Use with Conduit
--	EB19A50	--	½" *(13mm)*
--	EB19A75	--	¾" *(19mm)*

Raceway Conduit Swivel Connector



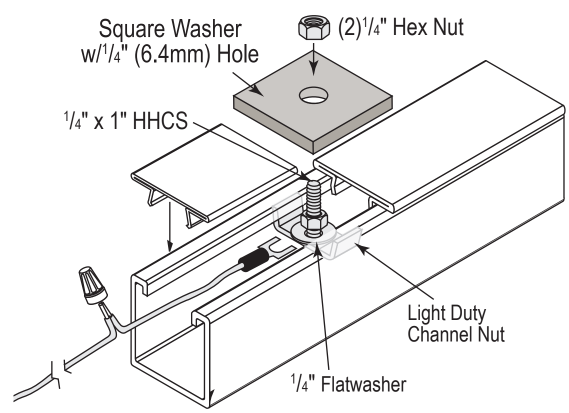
Neck is threaded for ¾" conduit, but reducer is included for ½" conduit. Also includes mounting hardware for connection to channel.

FLORIDA STRUT	VERSABAR	WESANCO	Use with Conduit
--	EB25A50	--	½" *(13mm)*
--	EB25A75	--	¾" *(19mm)*

Raceway Grounding Kit

*Wire nut is not included

UL LISTED



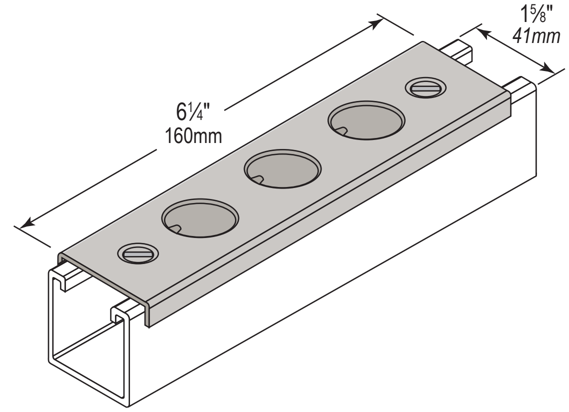
*Connect ground conductor to ground wire (not included)

FLORIDA STRUT	VERSABAR	WESANCO
--	LLG1	--

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: ¼" *(6mm)*

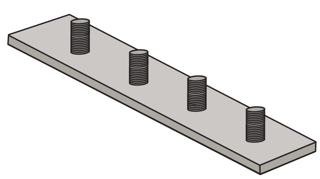
Outlet Box Connection Fitting

Outlet plate fitting. Three ⅞" (22) dia.K.O.'s on 1-³⁄₁₆" (30) centers. Supplied ready to install with VN1025 channel nuts and ¼" x ⅝" flat head machine screws.



FLORIDA STRUT	VERSABAR	WESANCO	Use with Conduit
--	EB25A75	W6449	⅞" *(22mm)*

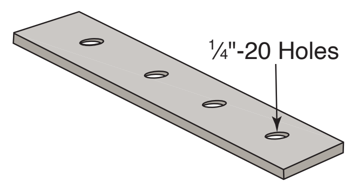
Standard Raceway Stud Plate



UL LISTED

FLORIDA STRUT	VERSABAR	WESANCO
EF31	--	W6439

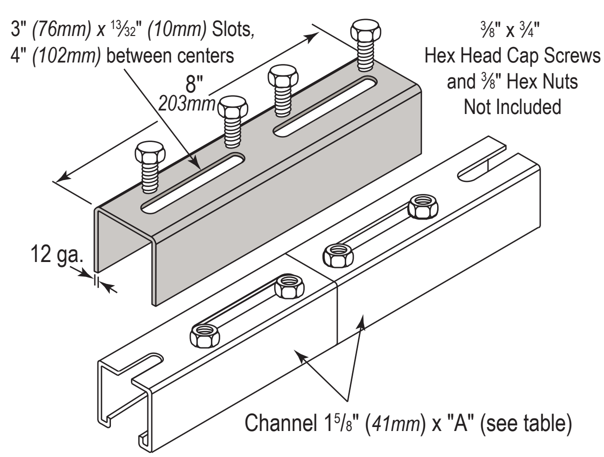
4-Hole Tapped Splice Plate (opt.) with 4 Screws



UL LISTED

FLORIDA STRUT	VERSABAR	WESANCO
EF30	--	W6440

Channel Splice Assemblies

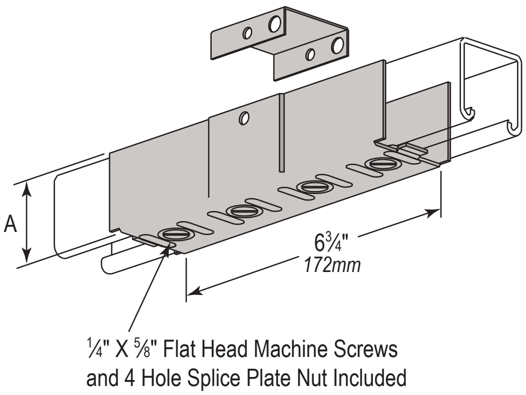


FLORIDA STRUT	VERSABAR	WESANCO	Channel Size
--	VF5405A11	--	3-¼" *(86mm)*
--	VF5405A3	--	2-½" *(64mm)*
--	VF5405A	--	1-⅝" *(41mm)*
--	VF5405A6	--	1-⅜" *(35mm)*
--	VF5405A8	--	1" *(35mm)*
--	VF5405A4	--	¹³⁄₁₆" *(21mm)*

Hole Diameter: ⁹⁄₁₆" *(14mm)*; Hole Spacing - From End: ¹³⁄₁₆" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

4-Hole Raceway Splice Fitting

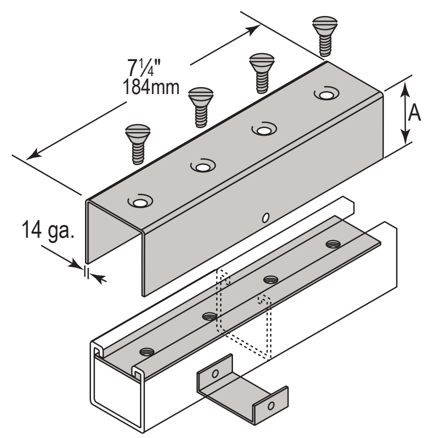
UL LISTED



FLORIDA STRUT	VERSABAR	WESANCO	Channel Size
--	--	W6432	1-⅝" *(41mm)*
--	--	W6433	1-⅜" *(35mm)*
--	--	W6434	13/16" *(21mm)*

Flush Type Raceway Splice Assemblies

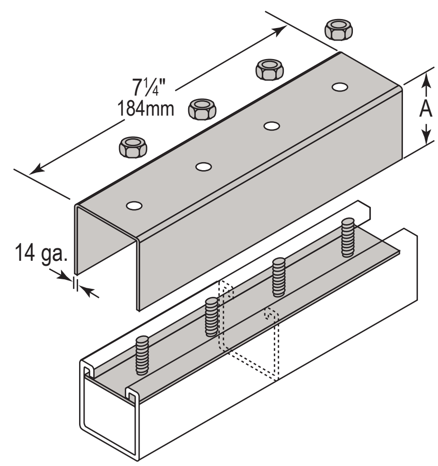
UL LISTED



FLORIDA STRUT	VERSABAR	WESANCO	Channel Size
--	VF5403A11	--	3-¼" *(86mm)*
--	VF5403A3	--	2-½" *(64mm)*
--	VF5403A	--	1-⅝" *(41mm)*
--	VF5403A6	--	1-⅜" *(35mm)*
--	VF5403A8	--	1" *(35mm)*
--	VF5403A4	--	13/16" *(21mm)*

Stud Type Raceway Splice Assemblies

UL LISTED

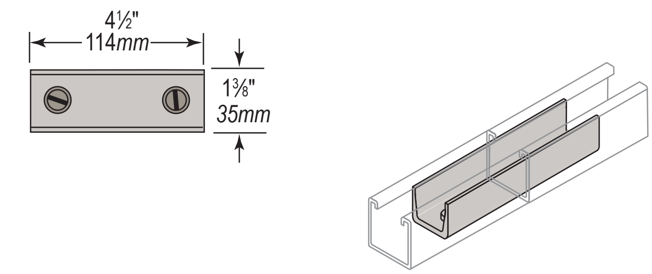


FLORIDA STRUT	VERSABAR	WESANCO	Channel Size
--	VF5404A11	--	3-¼" *(86mm)*
--	VF5404A3	--	2-½" *(64mm)*
--	VF5404A	--	1-⅝" *(41mm)*
--	VF5404A6	--	1-⅜" *(35mm)*
--	VF5404A8	--	1" *(35mm)*
--	VF5404A4	--	13/16" *(21mm)*

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

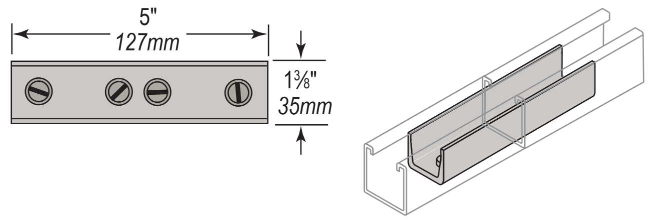
Standard Finish: Electro Galvanized (EG)

Standard Straight Intersplice for 13⁄16" (21mm) or 1-⅝" (41mm) Channel



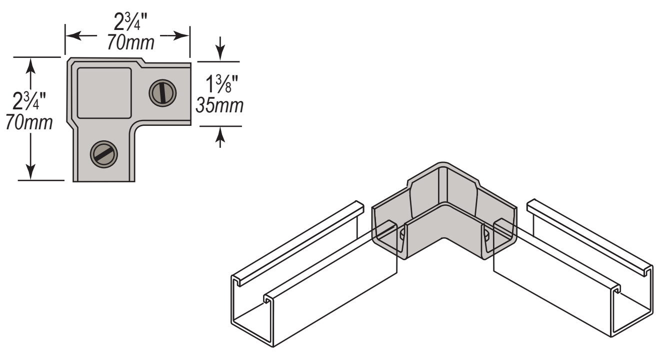
FLORIDA STRUT	VERSABAR	WESANCO	Channel Size
--	--	EJ330081	13⁄16" *(21mm)*
--	VF5901A	EJ330162	1-⅝" *(41mm)*

Long Straight Intersplice for 1-⅝" (41mm) Channel



FLORIDA STRUT	VERSABAR	WESANCO
--	VF5905A	--

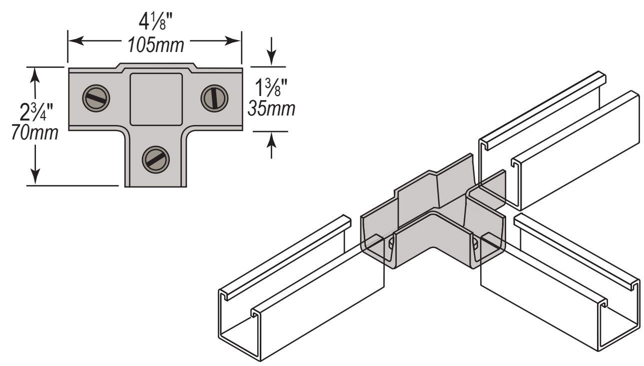
90° Intersplice for 1-⅝" (41mm) Channel



NOTE: Includes 2 pcs. VA-9 x 6" mitred to fit corner

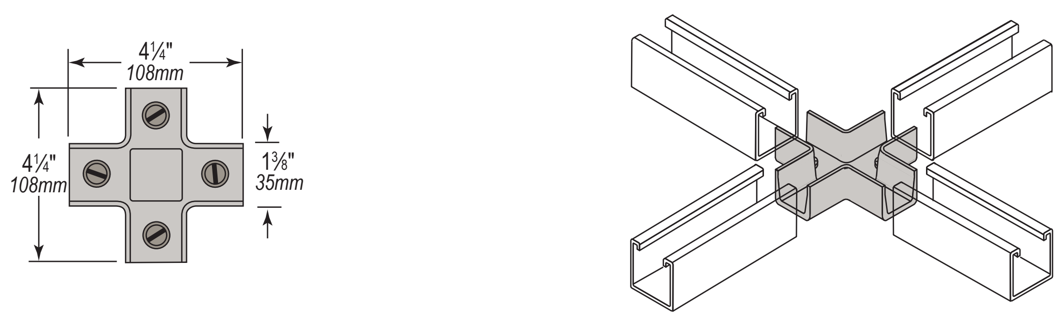
FLORIDA STRUT	VERSABAR	WESANCO
--	VF5903A	--

Tee Intersplice for 1-⅝" (41mm) Channel



FLORIDA STRUT	VERSABAR	WESANCO
--	VF5902A	--

Cross Intersplice for 1-⅝" (41mm) Channel



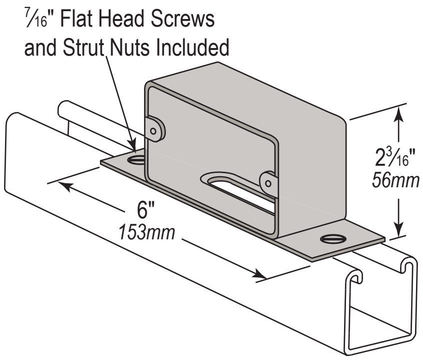
FLORIDA STRUT	VERSABAR	WESANCO
--	VF5904A	--

Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

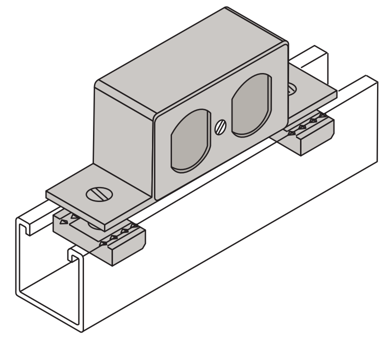
Standard Finish: Electro Galvanized (EG)

Receptacle Box



FLORIDA STRUT	VERSABAR	WESANCO
EF40	LL41NC	W6445

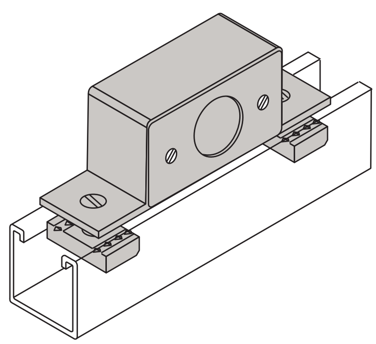
Receptacle Box with Duplex Cover Plate



All boxes include Channel Nuts and Flat Head Machine Screws
Receptacles are not included

FLORIDA STRUT	VERSABAR	WESANCO
--	LL41A	--

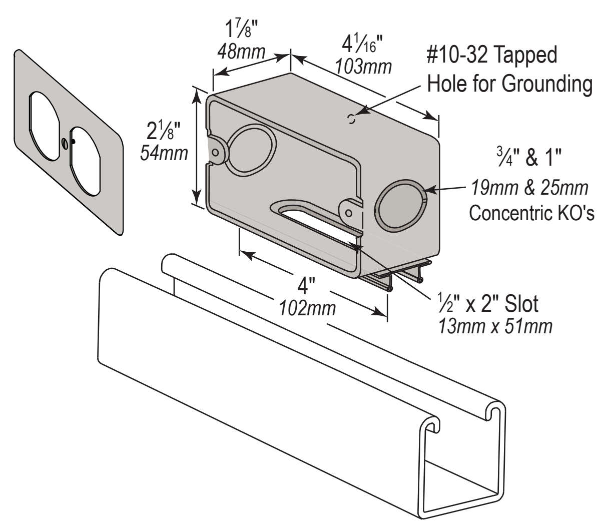
Receptacle Box with 3-Wire Cover Plate



All boxes include Channel Nuts and Flat Head Machine Screws
Receptacles are not included

FLORIDA STRUT	VERSABAR	WESANCO
--	LL41B	--

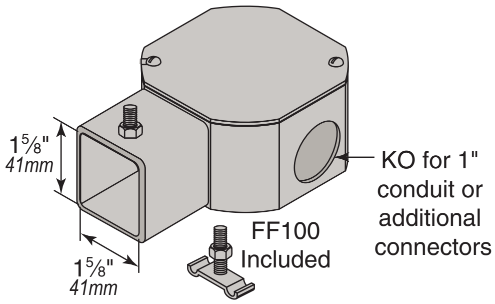
Snap-A- Box



FLORIDA STRUT	VERSABAR	WESANCO
B6445S	--	B6445S

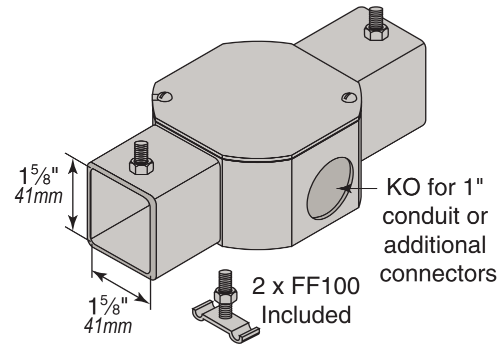
Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-7⁄8" (48mm); Width: 1-5⁄8"(41mm); Thickness: ¼" *(6mm)*

Raceway End Box Assembly



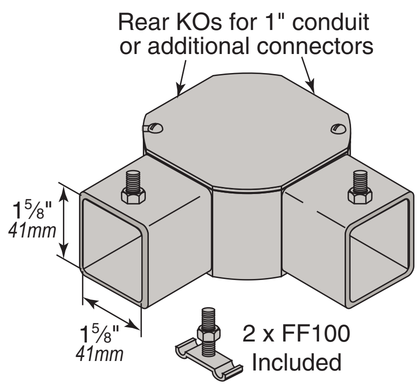
FLORIDA STRUT	VERSABAR	WESANCO
--	VJB1	--

Raceway Straight Box Assembly



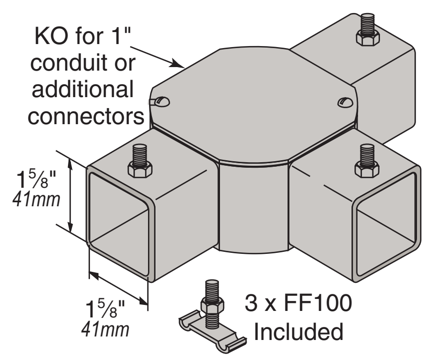
FLORIDA STRUT	VERSABAR	WESANCO
--	VJB2	--

Raceway Corner Box Assembly



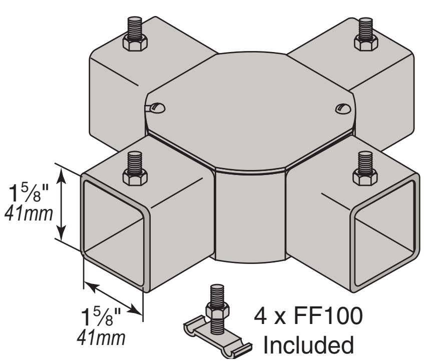
FLORIDA STRUT	VERSABAR	WESANCO
--	VJB3	--

Raceway 3-Way Box Assembly



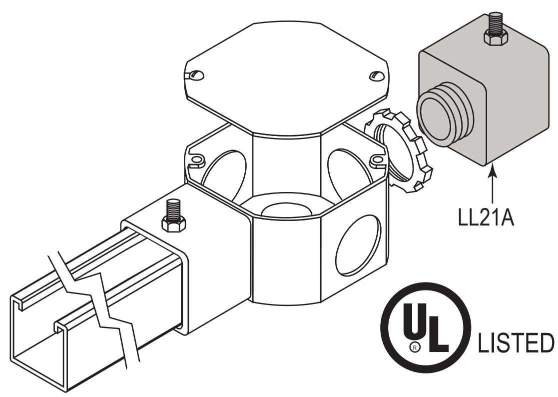
FLORIDA STRUT	VERSABAR	WESANCO
--	VJB4	--

Raceway 4-Way Box Assembly



FLORIDA STRUT	VERSABAR	WESANCO
--	VJB5	--

Raceway Box Versatility



Make additional connections
Through any open K.O. with LL21 A

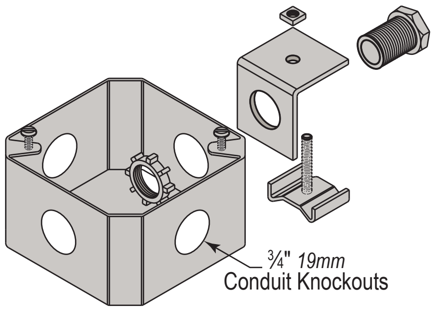
Steel K.O. Boxes Are Listed by Manufacturer LI21A Coupling Device Listed by Versabar

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

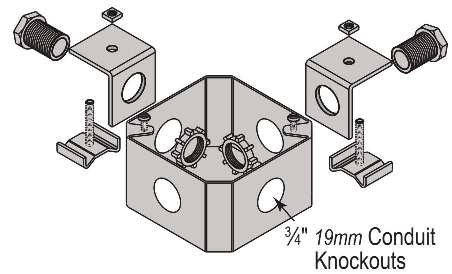
Standard Finish: Electro Galvanized (EG)

Junction Box Universal with 1 Connector



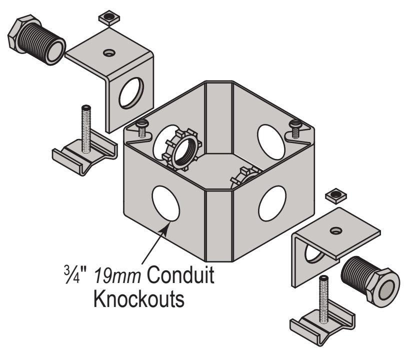
FLORIDA STRUT	VERSABAR	WESANCO
EF41	--	--

Junction Box Universal with 2 Connectors at 90°



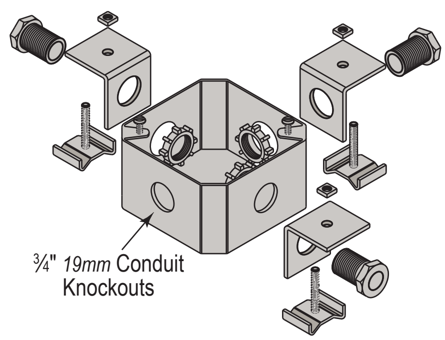
FLORIDA STRUT	VERSABAR	WESANCO
EF42	--	--

Junction Box Universal with 2 Connectors Opposite



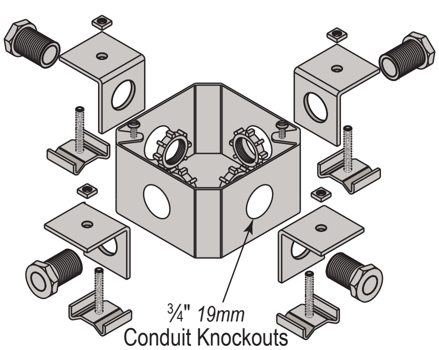
FLORIDA STRUT	VERSABAR	WESANCO
EF43	--	--

Junction Box Universal with 3 Connectors



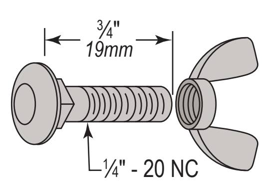
FLORIDA STRUT	VERSABAR	WESANCO
EF44	--	--

Junction Box Universal with 4 Connectors



FLORIDA STRUT	VERSABAR	WESANCO
EF45	--	--

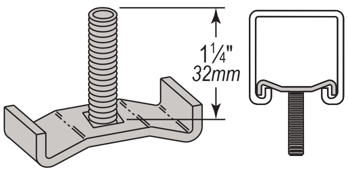
¼" x ¾" Carriage Bolt and ¼" Wing Nut

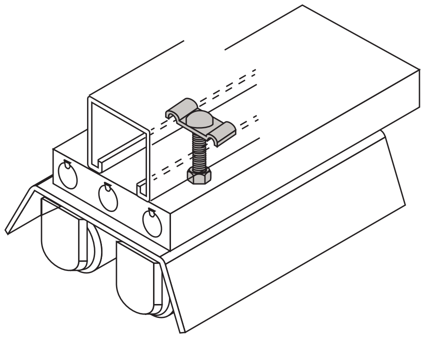


FLORIDA STRUT	VERSABAR	WESANCO
EF46	--	--

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: ¼" *(6mm)*

Fixture Stud





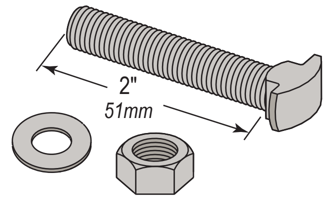
¼"-20 x 1-¼" stud nut for fixture attachment.
Stud extends 1" (25) below channel slot.
Hex nut included.

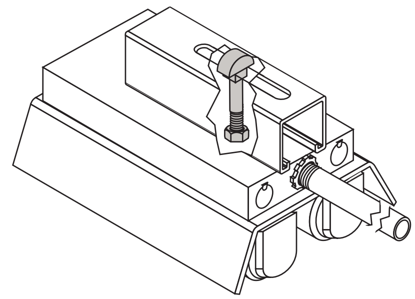
UL LISTED

FLORIDA STRUT	VERSABAR	WESANCO
EF19	FF100 *	W6460

* Includes nut

Shoulder Bolt ⅜"-16 x 2"





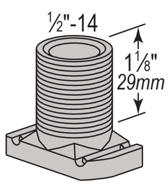
⅜"-16 x 2-¼" shoulder bolt with special head to fit through channel slots. Bolt extends ¾" (19mm) below 1-⅝" (41mm) channels.
Hex nut included.

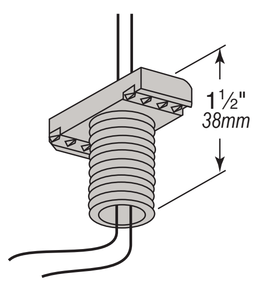
UL LISTED

FLORIDA STRUT	VERSABAR	WESANCO
--	FF200	W6463

Aluminum Wiring Stud

½"-14 Thread 1-⅛" *(29mm)* **Long**



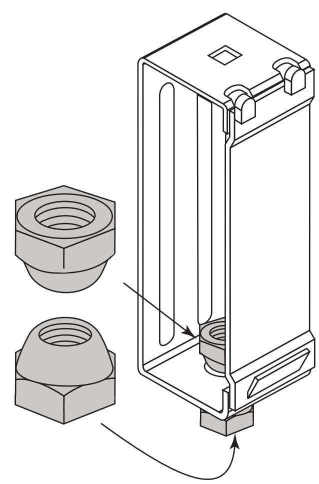


UL LISTED

½" threaded nipple nut for connecting flourescent fixtures directly to raceway or H.I.D. fixtures to VF7105A. EB-22 provides 1" (25mm) clearance when used through channel K.O. or ¾" (19mm) when supported by channel from slot.

FLORIDA STRUT	VERSABAR	WESANCO
EF21	EB22	W6462

Swivel Nuts



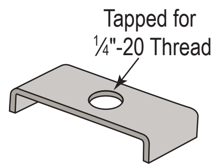
Two opposing nuts with a VF7106 hanger allow rod to swivel below. Available with ⅜"-16, or ½"-13 thread.

FLORIDA STRUT	VERSABAR	WESANCO	Use with Conduit
--	SWN37	--	⅜" *(10mm)*
--	SWN50	--	½" *(13mm)*

Hole Diameter: $^{9}/_{16}$" *(14mm)*; Hole Spacing - From End: $^{13}/_{16}$" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Standard Finish: Electro Galvanized (EG)

Fixture Nut

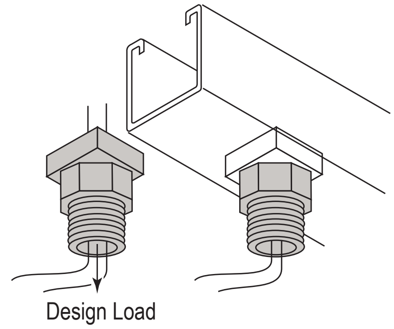


UL LISTED

FLORIDA STRUT	VERSABAR	WESANCO
--	--	W6461

¾" Nipple Assembly

For ½" Knock-Outs

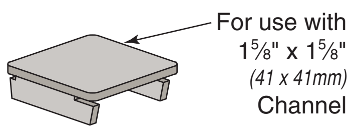


This adaptor works with manufacturers standard ½" Knock-out raceway channel or VF-7105-A fixture hanger. ¾" male pipe thread nipple can be removed if ¾" female thread is required.

FLORIDA STRUT	VERSABAR	WESANCO	Design Load 12 Ga. Channel
--	EB23A	--	200 *(0.90 kN)*

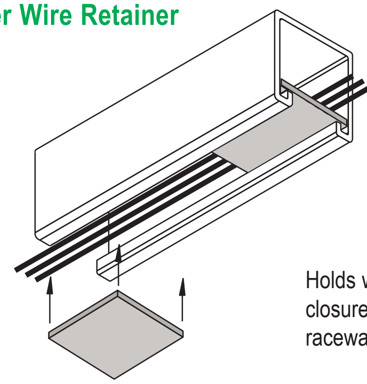
Wireway End Cap

UL LISTED



FLORIDA STRUT	VERSABAR	WESANCO	Channel Size
--	--	W5920	1-⅝" *(41mm)*

Fiber Wire Retainer

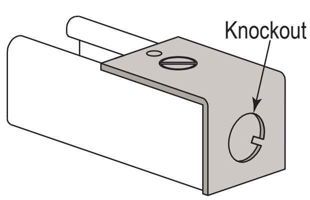


Holds wire in place while VA9 closure strip is installed. Fits all raceway channels.

FLORIDA STRUT	VERSABAR	WESANCO
--	LL42	W6469

End Cap with Knock-outs

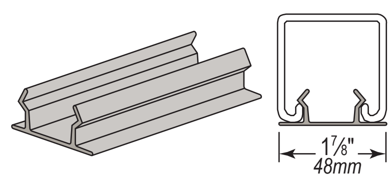
UL LISTED



FLORIDA STRUT	VERSABAR	WESANCO	Knock-out Size	Channel Size
--	VF1003A1150	--	½" *(13mm)*	3-¼" *(86mm)*
--	VF1003A1175	--	¾" *(19mm)*	
--	VF1003A350	--	½" *(13mm)*	2-½" *(64mm)*
--	VF1003A375	--	¾" *(19mm)*	
EF200050	VF1003A150	W5940	½" *(13mm)*	1-⅝" *(41mm)*
EF200075	VF1003A175	W5941	¾" *(19mm)*	
--	VF1003A650	W5942	½" *(13mm)*	1-⅜" *(35mm)*
--	VF1003A675	W5943	¾" *(19mm)*	

Closure Strip (19 ga.)

UL LISTED



Use of Closure Strip with UL listed channel completes UL Listed surface metal raceway. Standard finish: PG

FLORIDA STRUT	VERSABAR	WESANCO	Use with Conduit
CA-10 GAL	VA9	W6500	Galvanized
CA-10 PVC	--	W6500PLASTIC	Plastic

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

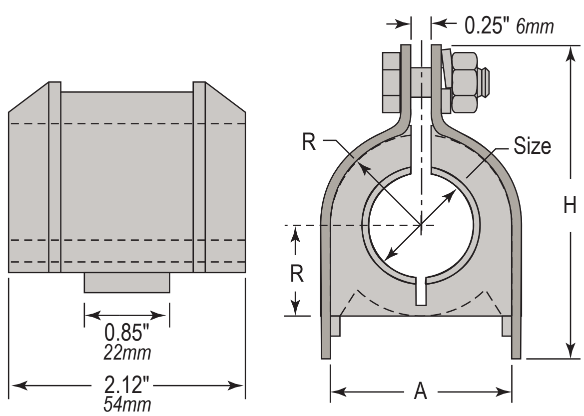
Standard Finish: Electro Galvanized (EG)

Porce-A-Clamp®
Cable Clamp

The hinged cushion allows easy installation of the wire, but the components will not get separated and lost or broken.

Replaces Porcelain and Maple Cable Clamp. Assembly consists of thermoplastic elastomer cushion with plated or stainless steel clamp. Plated steel and stainless are both supplied with Silicon Bronze bolt and nut.

- Non-breakable material
- Chemical and UV resistant
- **U.L. Listed** - Burning stops within 10 seconds after two applications of ten seconds each of a flame to a test bar with no flaming drips.
- Plated Steel, or Stainless steel clamps
- Tapered flange to protect cable
- Dielectric strength 640 volts per mil
- One piece cushion design, available with Flame retardant / Halogen Free cushions
- Silicon Bronze Hardware used to Breakup the Magnetic field around the Cable at the Clamping Location.



Part No.	Dimensions (In.)			Total Assy. Height - H
	Hole Dia.	A	R	
006CC018	3/8"	1.12" *(28mm)*	0.56" *(14mm)*	1.82" *(46mm)*
008CC018	1/2"			
010CC018	5/8"			
012CC026	3/4"	1.62" *(41mm)*	0.81" *(21mm)*	2.34" *(59mm)*
014CC026	7/8"			
016CC026	1"			
018CC026	1-1/8"			
020CC034	1-1/4"	2.12" *(54mm)*	1.06" *(27mm)*	2.86" *(73mm)*
022CC034	1-3/8"			
024CC034	1-1/2"			
026CC034	1-5/8"			
028CC042	1-3/4"	2.62" *(67mm)*	1.31" *(33mm)*	3.50" *(89mm)*
030CC042	1-7/8"			
032CC042	2"			
034CC042	2-1/8"			
036CC050	2-1/4"	3.12" *(79mm)*	1.56" *(40mm)*	4.05" *(103mm)*
038CC050	2-3/8"			
040CC050	2-1/2"			
042CC050	2-5/8"			
044CC058	2-3/4"	3.62" *(92mm)*	1.81" *(46mm)*	4.75" *(121mm)*
046CC058	2-7/8"			
048CC058	3"			
050CC058	3-1/8"			
052CC066	3-1/4"	4.12" *(105mm)*	2.06" *(52mm)*	5.125" *(130mm)*
054CC066	3-3/8"			
056CC066	3-1/2"			
058CC066	3-5/8"			
060CC074	3-3/4"	4.62" *(117mm)*	2.31" *(59mm)*	5.54" *(141mm)*
062CC074	3-7/8"			
064CC074	4"			
066CC074	4-1/8"			
068CC080	4-1/4"	5.00" *(127mm)*	2.50" *(64mm)*	5.92" *(150mm)*
070CC080	4-3/8"			
072CC080	4-1/2"			

Note: All clamps have Silicon Bronze Hardware

SUFFIX	Clamp	Cushion	Example
Z	Plated Steel	Flame Retardant	006CC018Z
S	Stainless Steel	Flame Retardant	006CC018S
ZH	Plated Steel	Flame Retardant Halogen Free	006CC018ZH
SH	Stainless Steel	Flame Retardant Halogen Free	006CC018SH

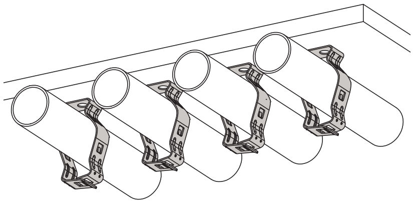
Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

Spring Steel

Electrical Positioning and Support Products

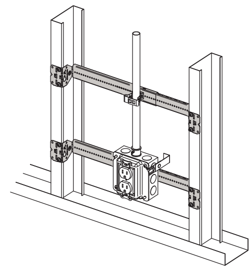
Conduit and Cable Supports

Pages 242 - 251



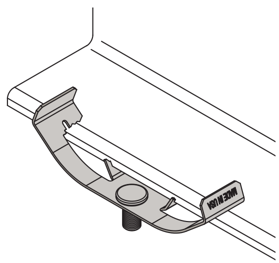
Stud Wall Applications

Pages 264 - 269



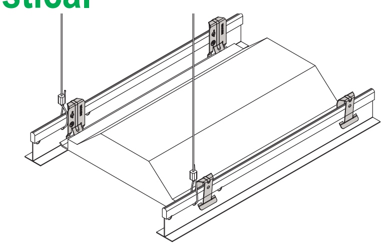
Structural Attachment

Pages 252 - 263



Ceiling and Acoustical Applications

Pages 270 - 273



The ZSi-Foster Silva-Guard Finish

Superior Corrosion Resistance

The ZSi-Foster Silva-Guard finish provides one of the highest levels of corrosion resistance for spring steel fasteners available on the market. ZSi-Foster Silva-Guard coating is extremely consistent providing a finish that combines superior appearance and outstanding protection.

This aesthetically pleasing appearance is particularly important for installations in highly visible areas, such as open ceilings.

SG Finish is cULus Listed for indoor, outdoor, wet, and dry applications.

Innovative Three Step Coating System

The ZSi-Foster Silva-Guard finish is a three step coating system that is RoHS, WEEE, and ELV compliant.

- The first step is surface preparation involving a process designed to improve the coating adhesion.
- The second step is a base coat designed to self-heal from nicks and scratches as well as sacrifice itself instead of the fastener base material.
- The third step is a topcoat designed to be an additional protective barrier.

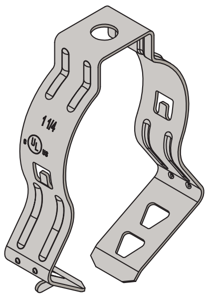
Spring Steel Specifications	
Material	**ASTM Description**
Spring Steel	Cold Roll, ASTM A684 Grade 1055 Spring Steel
Carbon Steel	ASTM A1011-00 SS GR 33 or ASTM A1011-00CS Type B

See page 25 for Material or Finish ordering codes for part numbers.

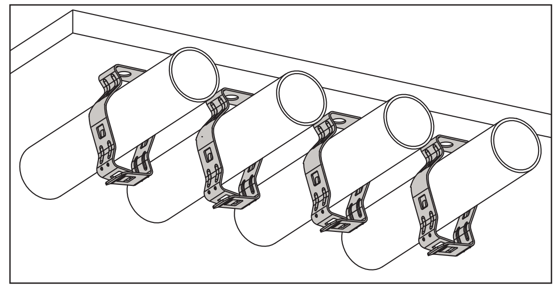
Spring Steel Finish Specifications	
Finish	**Description**
ZSi-Foster Silva-Guard	ZSi-Foster Silva-Guard coating is a multi-step process that meets the 1000 hour salt spray test per ASTM B117 and DIN 50021.Silva-Guard coating is WEEE, ELV and RoHS compliant. SG Finish is approved for outdoor as well as indoor applications. It is a chrome free duplex coating system that combines an inorganic zinc-rich basecoat with an aluminum-rich organic topcoat.
Electroplated Zinc or Electro-Galvanized	This coating is standard for most ZSi-Foster products. Electro-Galvanized products meet ASTM B633 SC1 or SC3, Type III. Electroplating deposits zinc on the surface of the steel by electrolysis from a bath of zinc salts.
Pre-galvanized Zinc	ASTM A653 G-90 Pre-galvanized zinc is produced by continuously rolling steel coils or sheets through molten zinc at the mills.

CC/CCT
Conduit Clips

c UL US LISTED

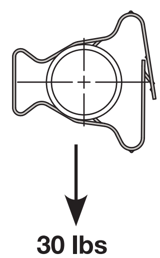


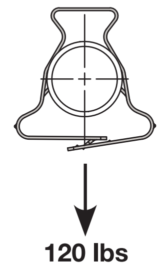
- For vertical or horizontal conduit and pipe applications.
- Threaded version can be used with 1/4"-20 threaded rods.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



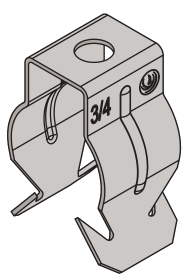
Part No.	Mounting Hole	Conduit Size
CC6 *	9/32" Thru Hole	3/8" Flexible Conduit
CC812	9/32" Thru Hole	1/2" or 3/4" EMT, Rigid
CCT812	1/4"-20 Thread Form	
CC16	9/32" Thru Hole	1" EMT, Rigid
CCT16	1/4"-20 Thread Form	
CC20	9/32" Thru Hole	1-1/4" EMT, Rigid
CCT20	1/4"-20 Thread Form	
CC24	9/32" Thru Hole	1-1/2" EMT, Rigid
CCT24	1/4"-20 Thread Form	
CC32	9/32" Thru Hole	2" EMT, Rigid
CCT32	1/4"-20 Thread Form	

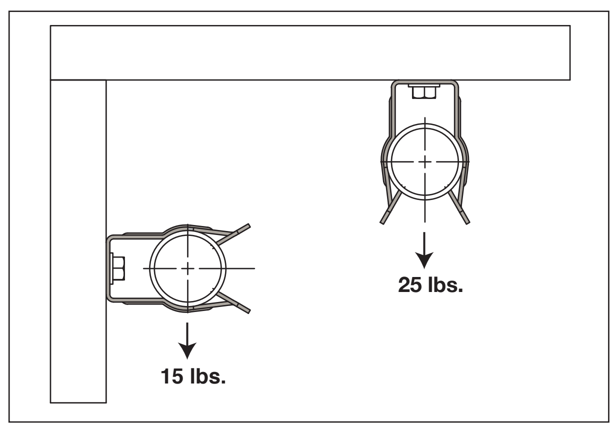
* Not a UL Listed Product





CCP
Conduit “Push In” Clips





- Eliminates need for conduit offset bending.
- For vertical or horizontal conduit and pipe applications.
- Simple Push-in design
- **Material:** Spring Steel
- **Finish:** Silva-Guard

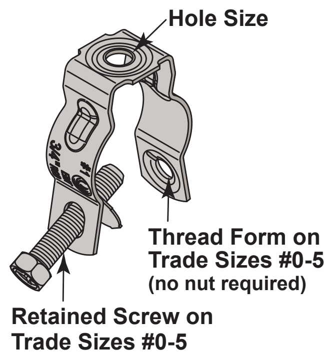
Part No.	Mounting Hole	Conduit Size
CCP8	9/32" Thru Hole	1/2" EMT
CCP12		3/4" EMT, 1/2", Rigid
CCP16		1" EMT, 3/4" Rigid

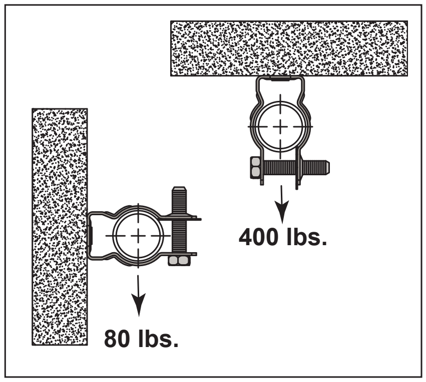
WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

PCH

Pipe and Conduit Hanger

c UL us LISTED





Part No.	Trade Size	Conduit Size		Hole Size
		EMT	Rigid	
PCH0	0	½"	⅜", ½"	¼"
PCH1	1	¾"	¾"	¼"
PCH2	2	1"	1"	¼"
PCH2.5	2.5	1-¼"	-	¼"
PCH3	3	1-½"	1-¼"	¼"
PCH4	4	-	1-½"	5⁄16"
PCH5	5	2"	2"	5⁄16"
PCH6 *	6	2-½"	2-½"	5⁄16"
PCH7 *	7	3"	3"	5⁄16"
PCH8 *	8	3-½"	3-½"	5⁄16"
PCH9 *	9	4"	4"	5⁄16"

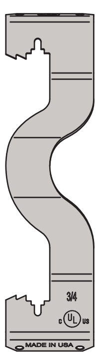
* EG finish and pan head, hex nut hardware.

- PCH #0-5 come with retained combo head screw and thread form.
- Combo head screw allows Robertson, Phillips, Slotted and Hex drivers.
- Supports vertical and horizontal installations of ⅜"- 4" Pipe and Conduit.
- ¼"-20 Thread Form Hole Size available. Add suffix TF to Catalog Number.
- Also available in 304 and 316 Stainless Steel.
- **Material:** Steel
- **Finish:** Pregalvanized

WC/WCBW

Wing Clip Conduit Hanger

c UL us LISTED



WC clip shown

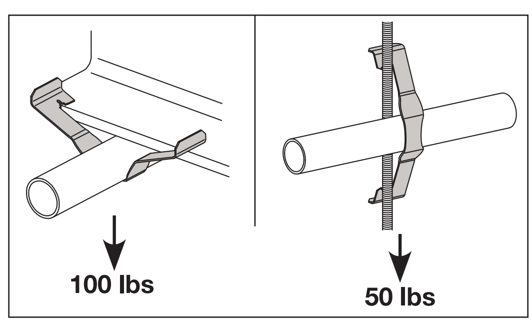
<table>
<tr><th>Conduit Size</th><th>#12 & #10 Wire</th><th>#9 & #8 Wire</th><th>3⁄16" & ¼" Rod</th><th>⅛" Thru ¼" Flange</th><th>5⁄16" Thru ⅜" Flange</th><th>7⁄16" Thru ½" Flange</th></tr>
<tr><td>½" EMT</td><td rowspan="2">WC8</td><td>WC8</td><td>WC8</td><td>WC8</td><td rowspan="2">WC12</td><td>WC12</td></tr>
<tr><td>½" RIGID</td><td rowspan="3">WC12</td><td rowspan="2">WC12</td><td rowspan="2">WC12</td><td rowspan="2">WC16</td></tr>
<tr><td>¾" EMT</td><td rowspan="2">WC12</td><td rowspan="2">WC16</td></tr>
<tr><td>¾" RIGID</td><td rowspan="2">WC16</td><td>WC16</td><td rowspan="3">WC20</td></tr>
<tr><td>1" EMT</td><td>–</td><td>WC16</td><td rowspan="3">WC20</td><td rowspan="2">WC20</td></tr>
<tr><td>1" RIGID</td><td>–</td><td>–</td><td>–</td></tr>
<tr><td>1-¼" EMT</td><td>–</td><td>WC20</td><td>WC20</td><td>–</td><td>–</td></tr>
</table>

MC/AC Cable Size	#12, #10, #9 & #8 Wire
14 - 2 (.433-.475 O.D.)	WCBW
14 - 3 (.453-.500 O.D.)	WCBW
12 - 2 (.467-.475 O.D.)	WCBW
12 - 3 (.489-.535 O.D.)	WCBW
WCBW For Position Only	

- Supports conduit and pipe to a rod, wire, or flange.
- No installation tools required.
- Box Qty 100 for all sizes.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Flange Installation

Wire or Rod Installation



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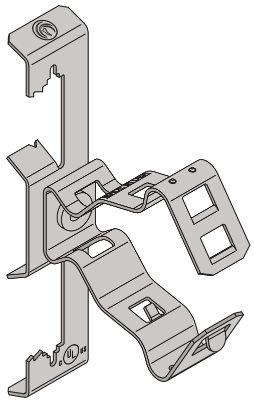
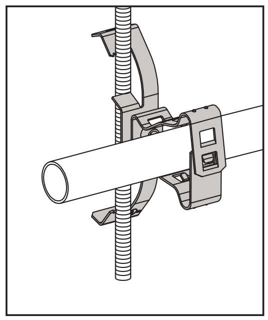
MFC
Multi-Function Clip with Assemblies

c UL US LISTED



Wire or Rod Installation

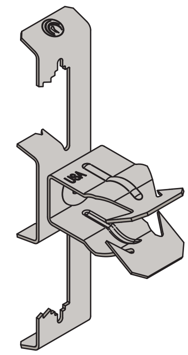


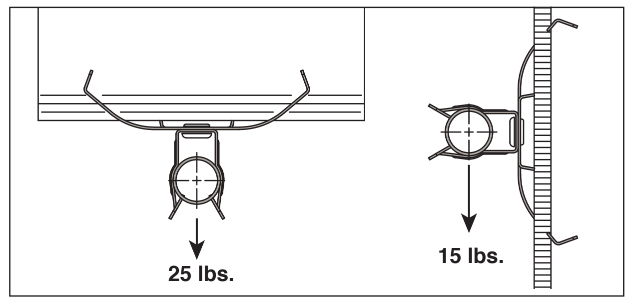
- Supports conduit and pipe to a rod, wire or flange.
- No tools required. Easy adjustment after installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Part No.	Flange Size	Threaded Rod Size	Conduit Size or Threads
MFC6 *			⅜" Flexible Conduit
MFC812	⅛" - ⅜"	#12 - ¼" wire or rod with or without Threads	½" EMT, Rigid ¾" EMT, Rigid
MFC16			1" EMT, Rigid

* Not a UL Listed Product

MFCCCP
Multi-Function Clip with Conduit "Push In" Clip

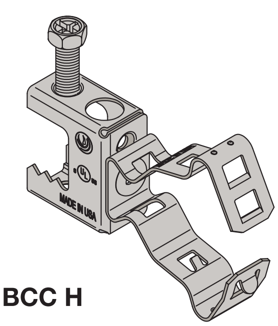




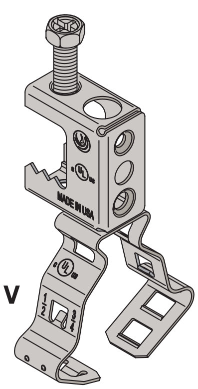
- No tools required for installation of conduit.
- Supports conduit to a rod, wire or flange.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Part No.	Flange Size	Wire or Rod Size	Conduit Size
MFCCCP8			½" EMT
MFCCCP12	⅛" - ⅜"	#12 - ¼" wire or rod with or without Threads	¾" EMT, ½" Rigid
MFCCCP16			1" EMT, ¾" Rigid

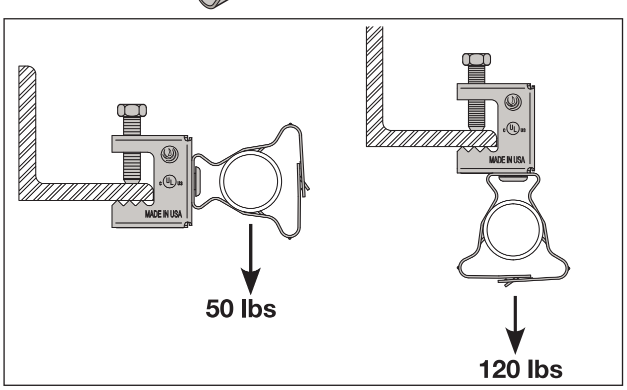
BCC
Beam Clamp with Conduit Clip



BCC H



BCC V



Part No.	Conduit Size
BCC6HM *	⅜" Flexible Conduit
BCC812HM	½" & ¾" EMT, Rigid
BCC16HM	1" EMT, Rigid
BCC20HM	1-¼" EMT, Rigid
BCC24HM	1-½" EMT, Rigid
BCC32HM	2" EMT, Rigid
BCC6VM	⅜" Flexible Conduit
BCC812VM	½" & ¾" EMT, Rigid
BCC16VM	1" EMT, Rigid
BCC20CM	1-¼" EMT, Rigid
BCC24VM	1-½" EMT, Rigid
BCC32VM	2" EMT, Rigid

* Not a UL Listed Product

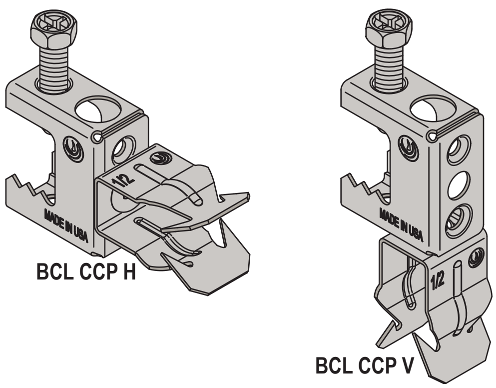
c UL US LISTED

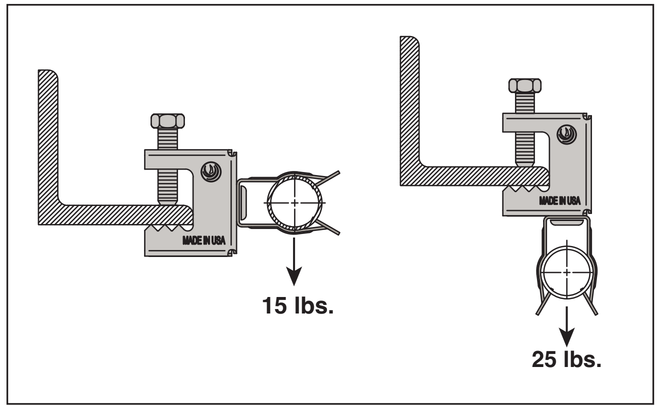
- Eliminates offset bending of conduit.
- For installation on ½" maximum flanges.
- Included combo head screw allows Robertson, Phillips/Slotted and Hex drivers.
- Conduit clip rotates 360 degrees.
- For support of conduit per NEC 344.30(B).
- **Material:** Spring Steel
- **Finish:** Silva-Guard

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

BCL CCP

Beam Clamp with Conduit “Push In” Clip



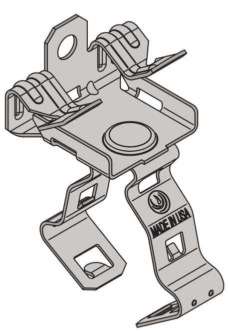


- Eliminates offset bending of conduit.
- For installation on ½" maximum flanges.
- Included combo head screw allows Robertson, Phillips/Slotted and Hex drivers.
- Conduit clip rotates 360 degrees.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

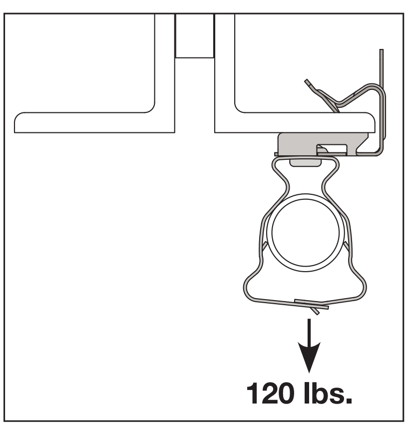
Part No.	Conduit Size
BCLCCP8HM	½" EMT
BCLCCP12HM	¾" EMT, ½" Rigid
BCLCCP16HM	1" EMT, ¾" Rigid
BCLCCP8VM	½" EMT
BCLCCP12VM	¾" EMT, ½" Rigid
BCLCCP16VM	1" EMT, ¾" Rigid

FH C

Flange Clip with Conduit Clip



- Supports pipe and conduit from beam flanges.
- Conduit clip rotates 360 degrees.
- Flange thickness range stamped on part.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



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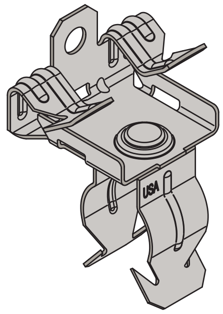
Part No.	Min. - Max. Flange Thickness	Conduit Size
FH24CC6 *	⅛" - ¼" *(3mm - 6mm)*	⅜" Flexible Conduit
FH58CC6 *	5⁄16" - ½" *(8mm - 13mm)*	
FH912CC6 *	9⁄16" - ¾" *(14mm - 19mm)*	
FH24CC812	⅛" - ¼" *(3mm - 6mm)*	½" & ¾" EMT, Rigid
FH58CC812	5⁄16" - ½" *(8mm - 13mm)*	
FH912CC812	9⁄16" - ¾" *(14mm - 19mm)*	
FH24CC16	⅛" - ¼" *(3mm - 6mm)*	1" EMT, Rigid
FH58CC16	5⁄16" - ½" *(8mm - 13mm)*	
FH912CC16	9⁄16" - ¾" *(14mm - 19mm)*	
FH23CC20	⅛" - ¼" *(3mm - 6mm)*	1-¼" EMT, Rigid
FH58CC20	5⁄16" - ½" *(8mm - 13mm)*	
FH912CC20	9⁄16" - ¾" *(14mm - 19mm)*	
FH24CC24	⅛" - ¼" *(3mm - 6mm)*	1-½" EMT, Rigid
FH58CC24	5⁄16" - ½" *(8mm - 13mm)*	
FH912CC24	9⁄16" - ¾" *(14mm - 19mm)*	
FH24CC32	⅛" - ¼" *(3mm - 6mm)*	2" EMT, Rigid
FH58CC32	5⁄16" - ½" *(8mm - 13mm)*	
FH912CC32	9⁄16" - ¾" *(14mm - 19mm)*	

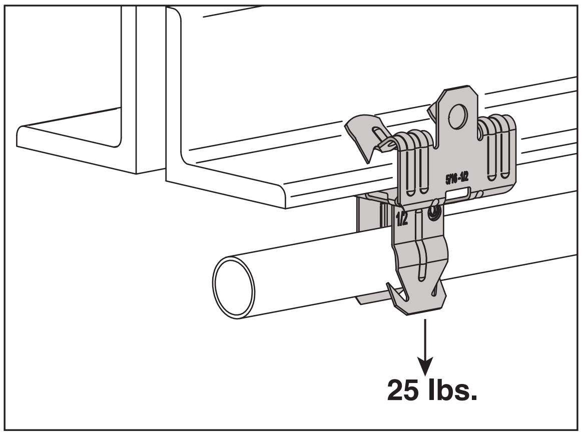
* Not a UL Listed Product

FH CCP

Flange Clip with
Conduit "Push In" Clip



- Supports conduit from beam flanges.
- Conduit clip rotates 360 degrees.
- Flange thickness range stamped on part.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



Part No.	Min. - Max. Flange Thickness	Conduit Size
FH24CCP8	1/8" - 1/4" *(3mm - 6mm)*	1/2" EMT
FH58CCP8	5/16" - 1/2" *(8mm - 13mm)*	
FH912CCP8	9/16" - 3/4" *(14mm - 19mm)*	
FH24CCP12	1/8" - 1/4" *(3mm - 6mm)*	3/4" EMT, 1/2" Rigid
FH58CCP12	5/16" - 1/2" *(8mm - 13mm)*	
FH912CCP12	9/16" - 3/4" *(14mm - 19mm)*	
FH24CCP16	1/8" - 1/4" *(3mm - 6mm)*	1" EMT, 3/4" Rigid
FH58CCP16	5/16" - 1/2" *(8mm - 13mm)*	
FH912CCP16	9/16" - 3/4" *(14mm - 19mm)*	

FHS C

Flange Clip Side Mount with Conduit Clip

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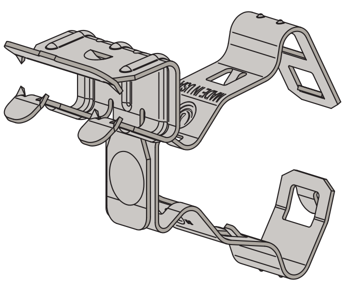
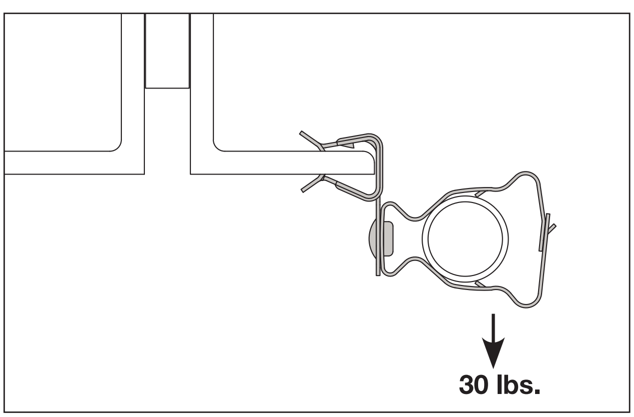


- Supports pipe and conduit from beam flanges.
- Flange thickness range stamped on part.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



Part No.	Min. - Max. Flange Thickness	Conduit Size
FHS24CC6 *	1/8" - 1/4" *(3mm - 6mm)*	3/8" Flexible Conduit
FHS58CC6 *	5/16" - 1/2" *(8mm - 13mm)*	
FHS912CC6 *	9/16" - 3/4" *(14mm - 19mm)*	
FHS24CC812	1/8" - 1/4" *(3mm - 6mm)*	1/2" & 3/4" EMT, Rigid
FHS58CC812	5/16" - 1/2" *(8mm - 13mm)*	
FHS912CC812	9/16" - 3/4" *(14mm - 19mm)*	
FHS24CC16	1/8" - 1/4" *(3mm - 6mm)*	1" EMT, Rigid
FHS58CC16	5/16" - 1/2" *(8mm - 13mm)*	
FHS912CC16	9/16" - 3/4" *(14mm - 19mm)*	
FHS24CC20	1/8" - 1/4" *(3mm - 6mm)*	1-1/4" EMT, Rigid
FHS58CC20	5/16" - 1/2" *(8mm - 13mm)*	
FHS912CC20	9/16" - 3/4" *(14mm - 19mm)*	
FHS24CC24	1/8" - 1/4" *(3mm - 6mm)*	1-1/2" EMT, Rigid
FHS58CC24	5/16" - 1/2" *(8mm - 13mm)*	
FHS912CC24	9/16" - 3/4" *(14mm - 19mm)*	
FHS24CC32	1/8" - 1/4" *(3mm - 6mm)*	2" EMT, Rigid
FHS58CC32	5/16" - 1/2" *(8mm - 13mm)*	
FHS912CC32	9/16" - 3/4" *(14mm - 19mm)*	

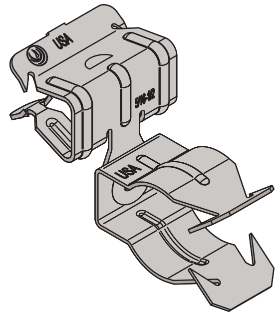
* Not a UL Listed Product

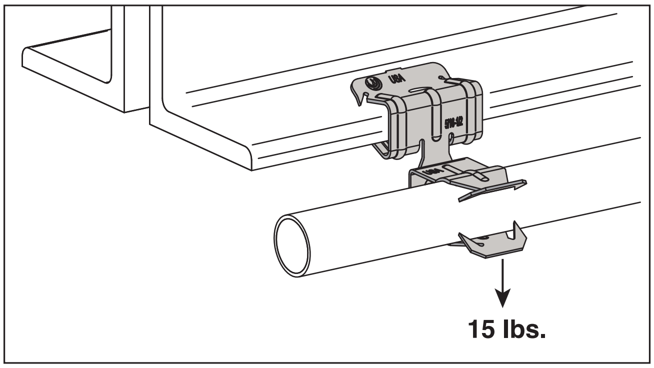
Conduit and Cable Support

Standard Finish: Silva-Guard (SG)

FHS CCP

Flange Clip Side Mount with Conduit "Push In" Clip



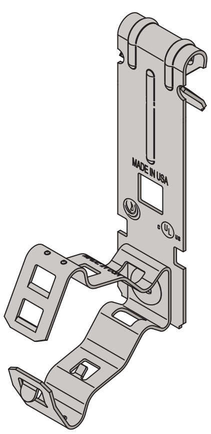


- Supports conduit from beam flanges.
- Flange thickness range stamped on part.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Part No.	Min. - Max. Flange Thickness	Conduit Size
FHS24CCP8	1/8" - 1/4" *(3mm - 6mm)*	1/2" EMT
FHS58CCP8	5/16" - 1/2" *(8mm - 13mm)*	
FHS912CCP8	9/16" - 3/4" *(14mm - 19mm)*	
FHS24CCP12	1/8" - 1/4" *(3mm - 6mm)*	3/4" EMT, 1/2" Rigid
FHS58CCP12	5/16" - 1/2" *(8mm - 13mm)*	
FHS912CCP12	9/16" - 3/4" *(14mm - 19mm)*	
FHS24CCP16	1/8" - 1/4" *(3mm - 6mm)*	1" EMT, 3/4" Rigid
FHS58CCP16	5/16" - 1/2" *(8mm - 13mm)*	
FHS912CCP16	9/16" - 3/4" *(14mm - 19mm)*	

FHV CC

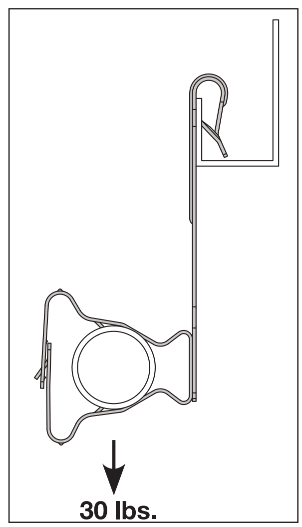
Flange Hanger with Conduit Clip



- Supports pipe and conduit from bar joist's and "C" purlin's.
- Compatible with many industry standard installation tools.
- 1/16"-1/4" flange thickness range.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Part No.	Min. - Max. Flange Thickness	Conduit Size
FHV3CC6 *	1/16" - 1/4"	3/8" Flexible Conduit
FHV3CC812		1/2" & 3/4" EMT, Rigid
FHV3CC16		1" EMT, Rigid

* Not a UL Listed Product



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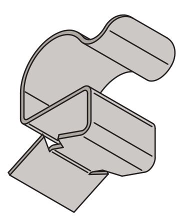
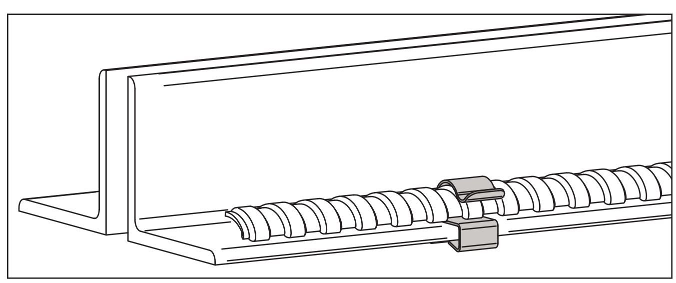
CFC

Conduit Clip to Flange



Part No.	Flange Thickness	Cable O.D.
CFC2D	1/16" - 3/16"	0.46 - 0.56
CFC4D	3/16" - 9/32"	0.46 - 0.56
CFC4E		0.50 - 0.72
CFC8D	5/16" - 1/2"	0.46 - 0.56
CFC8E		0.50 - 0.72



- Supports flexible conduit and cable from flanges.
- Simple Push-in clip design.
- **Material:** Steel
- **Finish:** Electro-Galvanized

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Conduit and Cable Support

Standard Finish: Silva-Guard (SG)

CC CC

Conduit Clip
with Conduit Clip

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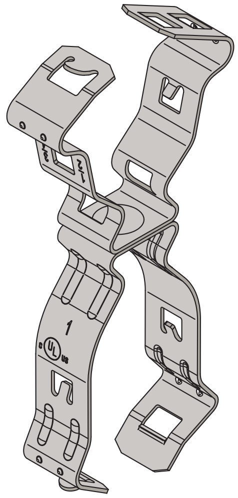
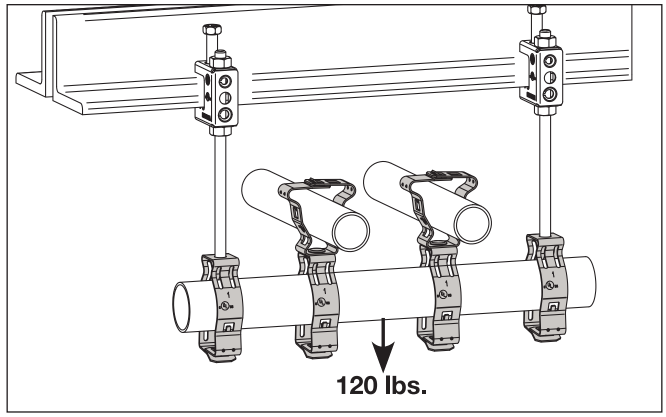




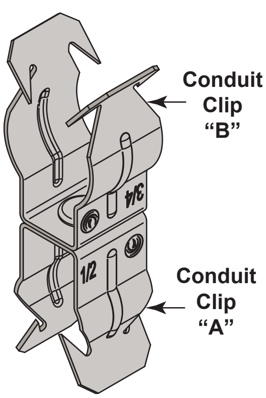
- No screws or bolts required.
- For lightweight trapeze systems.
- Conduit clip rotates 360 degrees.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

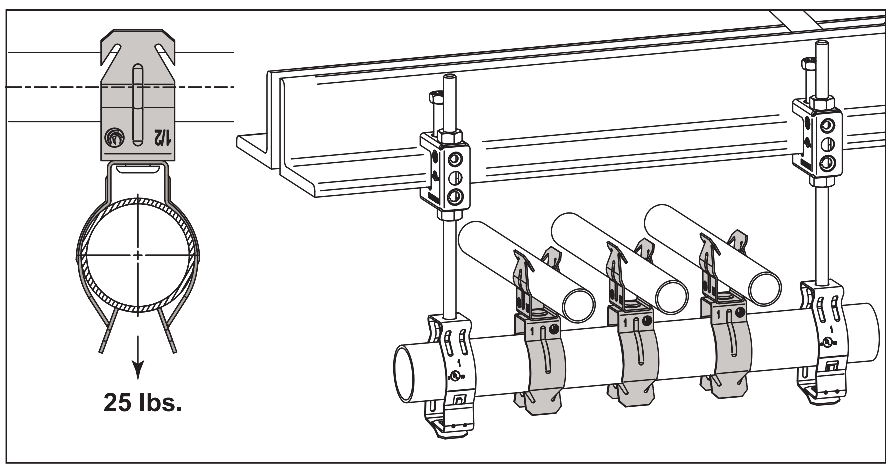
Part No.	Conduit Clip
CC16CC6 *	⅜" Flexible Conduit
CC16CC812	½" or ¾" EMT, Rigid
CC16CC16	1" EMT, Rigid
CC16CC20	1-¼" EMT, Rigid
CC16CC24	1-½" EMT, Rigid
CC16CC32	2" EMT, Rigid

* Not a UL Listed Product

CCP CCP

Conduit "Push In" Clip with Conduit "Push In" Clip





- No tools required for conduit installation.
- For lightweight trapeze systems.
- Conduit clips rotate 360 degrees.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

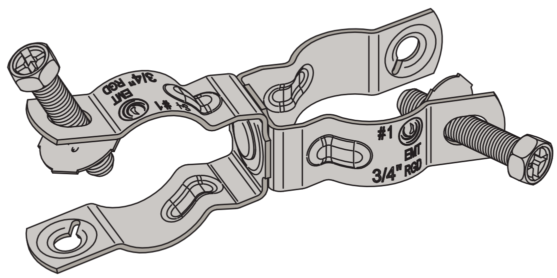
Part No.	Conduit Clip "A"	Conduit Clip "B"
CCP8CCP8		½" EMT
CCP8CCP12	½" EMT	¾" EMT, ½" Rigid
CCP8CCP16		1" EMT, ¾" Rigid
CCP12CCP12	¾" EMT, ½" Rigid	¾" EMT, ½" Rigid
CCP12CCP16		1" EMT, ¾" Rigid
CCP16CCP16	1" EMT, ¾" Rigid	1" EMT, ¾" Rigid

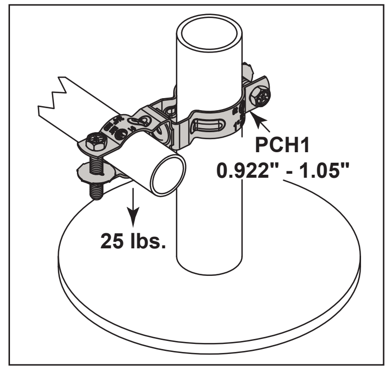
Conduit and Cable Support

Standard Finish: Silva-Guard (SG)

PCH PCH

Pipe and Conduit Hanger with Pipe and Conduit Hanger





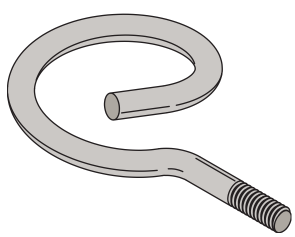
c UL US
LISTED

- Supports conduit and pipe from 1" O.D. computer floor pedestals.
- Retained combo head screw allows Robertson, Phillips/ Slotted and Hex drivers.
- Conduit clip rotates 360 de3grees.
- Suitable for air handling spaces (plenums) (remove washer at assembly)
- Also available in 304 and 316 Stainless Steel.
- **Material:** Steel
- **Finish:** Pregalvanized

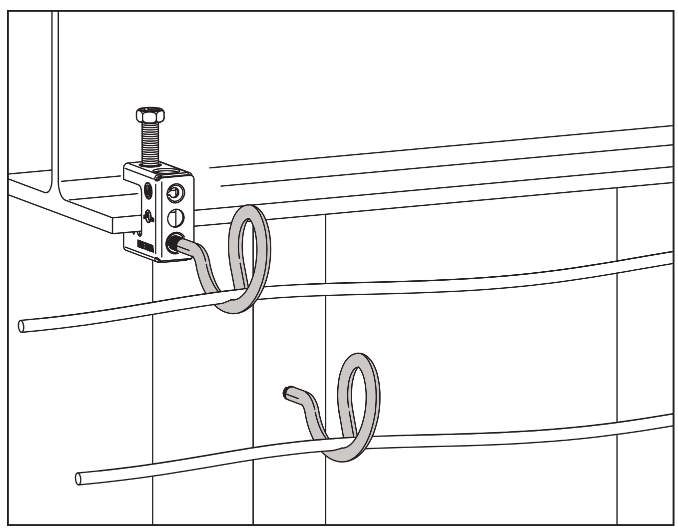
Part No.	Trade Size	Conduit Size	
		EMT	Rigid
PCH1PCH0	0	½"	⅜", ½"
PCH1PCH1	1	¾"	¾"
PCH1PCH2	2	1"	1"
PCH1PCH2.5	2.5	1-¼"	-
PCH1PCH3	3	1-½"	1-¼"

BR

Bridle Ring



Part No.	Ring Size I.D.	Thread Size
BR1012	¾"	#10-24
BR1020		#10-24
BR2520	1-¼"	¼"-20
BR2520WS		¼" Wood Screw
BR1032		#10-24
BR2532	2"	¼"-20
BR2532WS		¼" Wood Screw



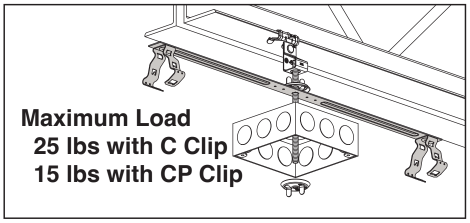
- Supports low voltage communication cable.
- Compatible with many other fasteners for support from purlin, T-grid, drop wire, and beam flanges.
- **Material:** Steel
- **Finish:** Electro-galvanized

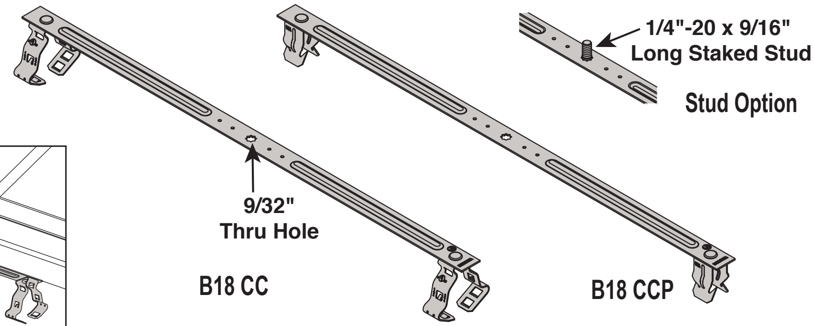
Standard Finish: Silva-Guard (SG)

B18 CC CCP

Box to Conduit Support, Snap Close or Push-In Conduit Clips

LISTED





Part No.	Description	Conduit Size
B18 CC6 *	Box Support with through hole	⅜" Flexible Conduit
BS18 CC6S *	Box Support with 1/4" Threaded Stud	
B18 CC8-12	Box Support with through hole	½" & ¾" EMT, Rigid
BS18 CC8-12S	Box Support with 1/4" Threaded Stud	
B18 CC16	Box Support with through hole	1" EMT, Rigid
BS18 CC16S	Box Support with 1/4" Threaded Stud	
B18 CCP8 *	Box Support with through hole	1/2" EMT
BS18 CCP8S *	Box Support with 1/4" Threaded Stud	
B18 CCP12 *	Box Support with through hole	¾" EMT or ½" Rigid
BS18 CCP12S *	Box Support with 1/4" Threaded Stud	
B18 CCP16 *	Box Support with through hole	1" EMT or ¾" Rigid
BS18 CCP16S *	Box Support with 1/4" Threaded Stud	

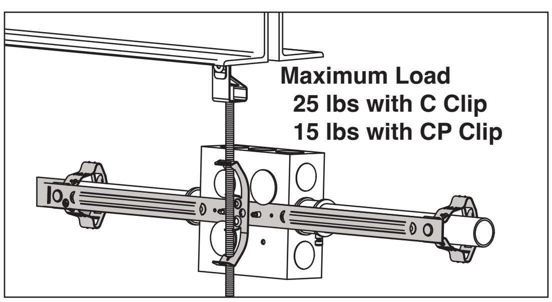
* Not a UL Listed Product

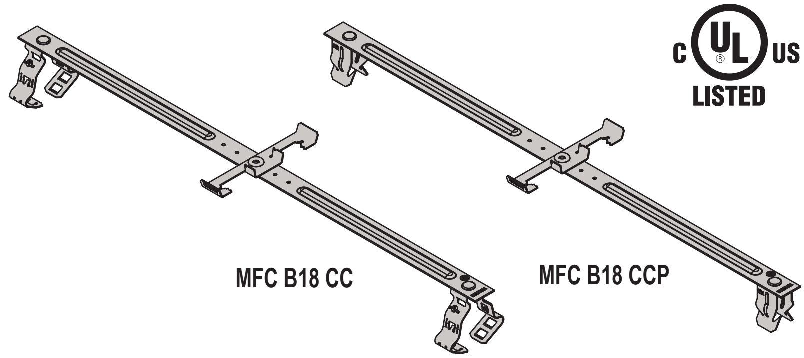
- For support of conduit per NEC344.30(B).
- SDTSLP8X1/2 low profile screws recommended for installation, see page 269.
- For wet or dry applications.
- Dedicated drop wire/rod secured (anchor) at both ends required per NEC 300.11.
- Two B18 though hole assemblies may be used by mounting 90° to each other.
- Not for fixture or ceiling fan support.
- **Material:** Steel/Spring Steel
- **Finish:** Silva-Guard

MFC B18 CC CCP

Multi-function clip to Box and Conduit Support

LISTED





Part No.	Description for 1/4" Threaded Rod Size	Conduit Size
MFC B18 CC6 *	Box Support with multi-function clip and snap close conduit clips	⅜" Flexible Conduit
MFC B18 CC8-12		
MFC B18 CC16		½" & ¾" EMT, Rigid
MFC B18 CCP8 *	Box Support with multi-function clip and push-in conduit clips	
MFC B18 CCP12 *		1" EMT, Rigid
MFC B18 CCP16 *		

* Not a UL Listed Product

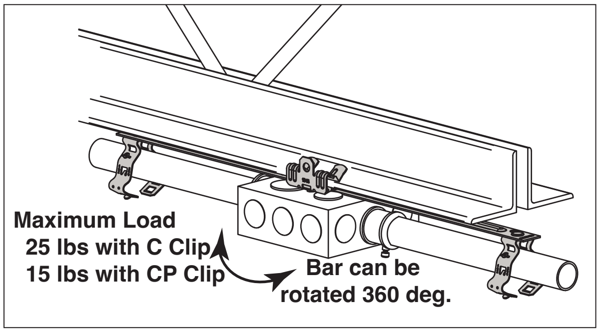
- For support of conduit per NEC344.30(B).
- SDTSLP8X1/2 low profile screws recommended for installation, see page 269.
- For wet or dry applications.
- Multi-function clip requires dedicated drop wire/rod per NEC 300.11.
- Two screws are required when mounting box to B18 Support.
- Multi-function clips are for single use only.
- Not for fixture or ceiling fan support.
- **Material:** Steel/Spring Steel
- **Finish:** Silva-Guard

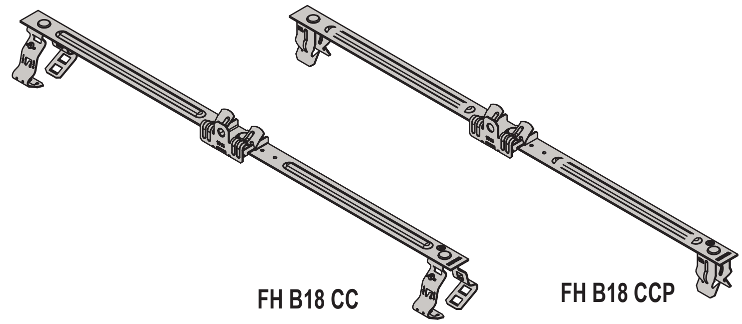
Standard Finish: Silva-Guard (SG)

FH B18 CC CCP

Flange Clip Hammer-On to Box and Conduit Support

c UL US LISTED





Part No.	Description	Flange Thickness	Conduit Size
FH24B18 CC6 *	Box Support with flange clip hammer on and snap close conduit clips	1/8" - 1/4"	⅜" Flexible Conduit
FH58B18 CC6 *		5/16" - 1/2"	
FH24B18 CC812		1/8" - 1/4"	½" & ¾" EMT, Rigid
FH58B18 CC812		5/16" - 1/2"	
FH24B18 CC16		1/8" - 1/4"	1" EMT, Rigid
FH58B18 CC16		5/16" - 1/2"	
FH24B18 CCP8 *	Box Support with flange clip hammer on and push-in conduit clips	1/8" - 1/4"	½" EMT
FH58B18 CCP8 *		5/16" - 1/2"	
FH24B18 CCP12 *		1/8" - 1/4"	¾" EMT or ½" Rigid
FH58B18 CCP12 *		5/16" - 1/2"	
FH24B18 CCP16 *		1/8" - 1/4"	1" EMT or ¾" Rigid
FH58B18 CCP16 *		5/16" - 1/2"	

* Not a UL Listed Product

- For support of conduit per NEC344.30(B).
- SDTSLP8X1/2 low profile screws recommended for installation, see page 269.
- For wet or dry applications.
- Two screws are required when mounting box to B18 Support.
- Hammer-on flange hangers are for single use only.
- Not to be used on tapered flanges.
- Not for fixture or ceiling fan support.
- **Material:** Steel/Spring Steel
- **Finish:** Silva-Guard

TRH

Hanger System

Great for running Communication or Internet Cables

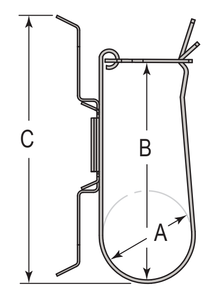
Works with ¼" - ⅜" threaded rod

Supports a pair of insulated liquid and suction lines

Spring steel rod hanger can be fitted or adjusted in seconds

Supports cable runs or a pair of insulated flow and return refrigerant lines on ¼" to ⅜" threaded rod. Simply fold the lock-tab over to secure the lines into the strap. The spring steel hanger grips the rod tightly, and the black zinc coating offers corrosion resistance while matching the insulation color. The clamp can be detached from the rod hanger and used to secure lines to flat surfaces.

- Black color to match pipe insulation
- Quick to Install
- Quick to Adjust
- Spring steel hanger grips rod tightly
- Rolled steel edges for safe cable runs

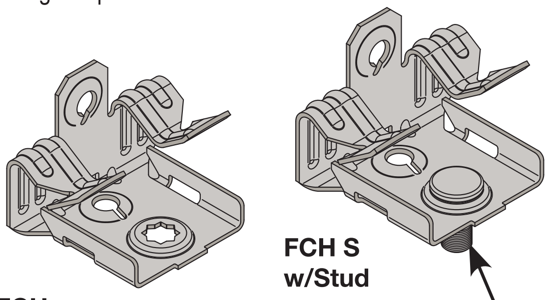


Part No. (Pack of 10)	Threaded Rod Sizes	Flow & Return Pipe Pairs	A	B	C
TRH-2	¼" - ⅜"	⅜" Liquid & ⅝" Gas	1.28" *(33mm)*	3.12" *(79mm)*	3.82" *(97mm)*
TRH-3		½" Liquid & ⅞" Gas	1.40" *(36mm)*	3.28" *(83mm)*	3.70" *(94mm)*
TRH-4		⅝" Liquid & 1-⅛" Gas	2.40" *(61mm)*	4.17" *(106mm)*	5.00" *(127mm)*
TRH-5			3.38" *(86mm)*	6.26" *(159mm)*	7.03" *(179mm)*

FCH

Flange Clip

c UL US LISTED

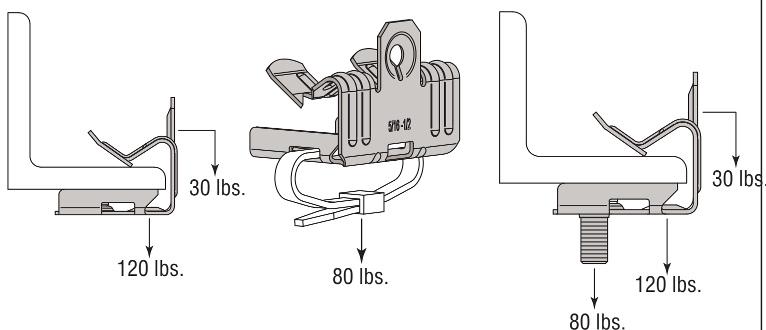


FCH

FCH S w/Stud

1/4"-20 x 3/8" Stud

- Multi use beam clamp used to support threaded rod, electrical boxes, and bridal rings from beam flanges.
- Beam clamp with stud is for supporting electrical boxes from beam flanges.
- Punched holes provided for zip tie applications.
- 1/4"-20 thread forms permit threaded rod applications.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



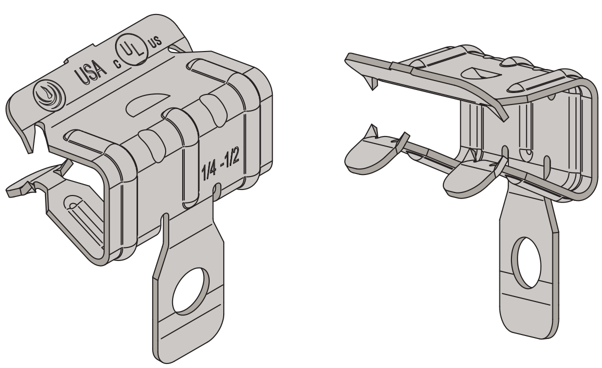
* Loads are static load limits and should not be combined.

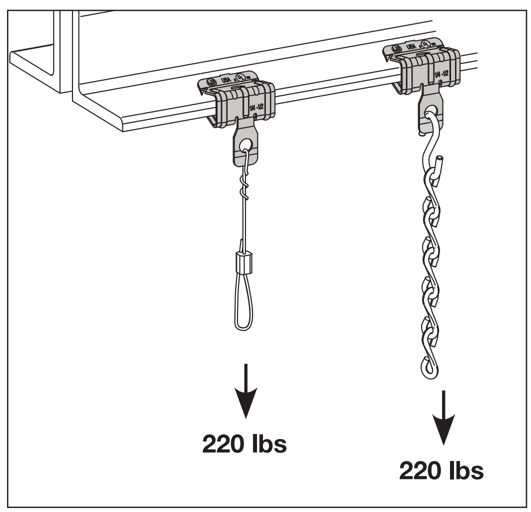
Part No.	Flange Thickness
FCH24	1/8" - 1/4" *(3mm - 6mm)*
FCH58	5/16" - 1/2" *(8mm - 13mm)*
FCH912	9/16" - 3/4" *(14mm - 19mm)*
FCH24S	1/8" - 1/4" *(3mm - 6mm)*
FCH58S	5/16" - 1/2" *(8mm - 13mm)*
FCH912S	9/16" - 3/4" *(14mm - 19mm)*

FSM

Flange Clip Side Mount

c UL US LISTED





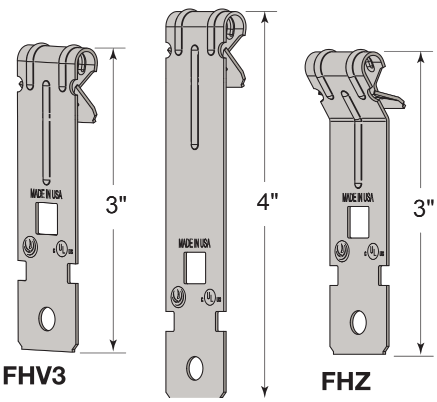
Part No.	Flange Thickness	Hole Size
FSM24	1/8" - 1/4" *(3mm - 6mm)*	9/32" *(7.1mm)*
FSM58	5/16" - 1/2" *(8mm - 13mm)*	
FSM912	9/16" - 3/4" *(14mm - 19mm)*	

- Beam clamp with hole for supporting tie wire and jack chain to beam flanges.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

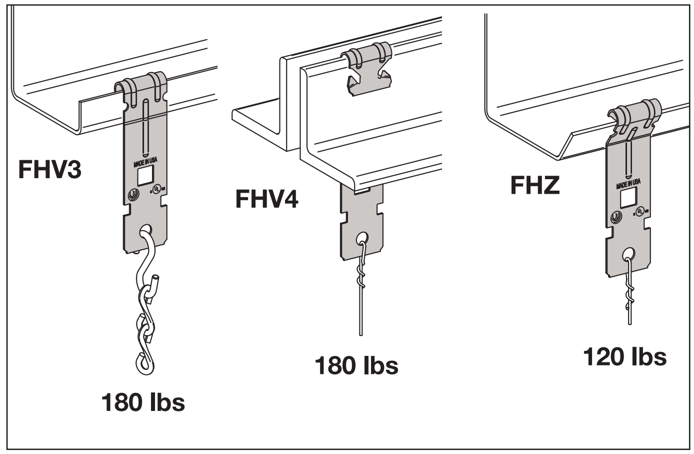
FVZ, FHZ

Flange Hanger for Purlins and Bar Joists

c UL US LISTED



FHV3 FHV4 FHZ



- **FHV3:** Flange clip with hole for supporting tie wire and jack chain to bar joist's and "C" purlin's.
- **FHV4:** Extra long flange clip with hole for supporting tie wire and jack chain to tall bar joist's and "C" purlin's.
- **FHZ:** Angled flange clip with hole for supporting tie wire and jack chain to "Z" purlin's.
- Compatible with many industry standard installation tools.

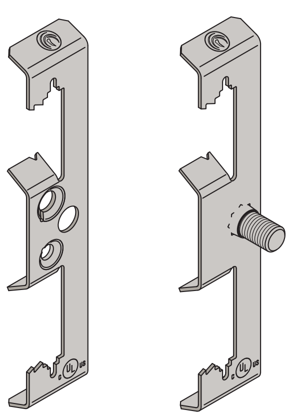
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Part No.	Min. - Max. Flange Thickness	Hole Size
FHV3	1/16" - 1/4" *(2mm - 6mm)*	9/32" *(7.1mm)*
FHV4		
FHZ		

MFC

Multi-Function Clip

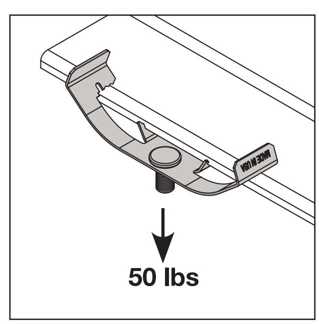
c UL US LISTED



MFC MFCS

Part No.	Flange Size	Threaded Rod Size	Conduit Size or Threads
MFC	1/8" - 3/8"	1/4" Threaded Rod	9/32" - hole, 1/4" - 20 and 10-24 thread form
MFCS	1/8" - 3/8"	1/4" Threaded Rod	1/4" - 20 staked stud with nut (UL listed box support)

Flange Installation



- **MFC:** Supports #10-24 and 1/4"-20 bridal rings to rod and wire.
- **MFCS:** Supports electrical boxes to rod and wire.
- No tools required. Easy adjustment after installation.

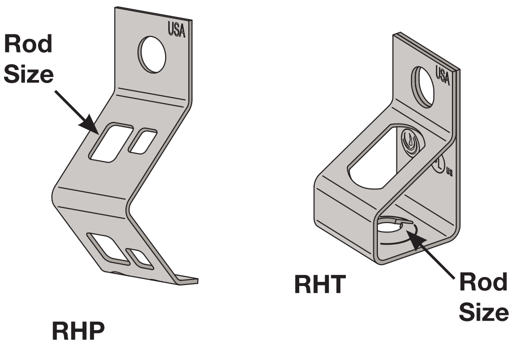
- **Material:** Spring Steel
- **Finish:** Silva-Guard

RHP RHT

Rod Hanger Push Install or Rod Hanger Thread Install

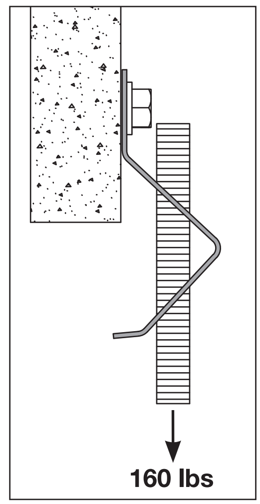
c UL us LISTED

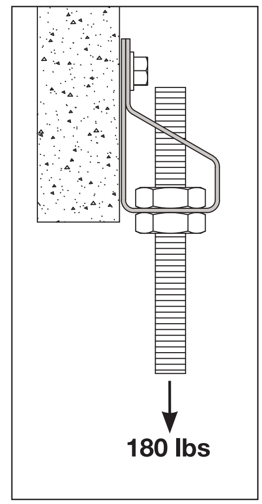
- **RHP:** Suspends plain and threaded rod from vertical surfaces, and provides easy adjustment of rod after installation.
- **RHT:** Suspends threaded rod from vertical surfaces.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



Part No.	Rod Size
RHP4	#8 Wire or 1/4" Plain or Threaded Rod
RHP6	3/8" Plain or Threaded Rod
RHT4T	1/4" - 20 Thread Form
RHT6T	3/8" - 16 Thread Form
RHT6 *	13/32" Thru Hole for 1/4" or 3/8" Threaded Rod

* Nuts sold separately

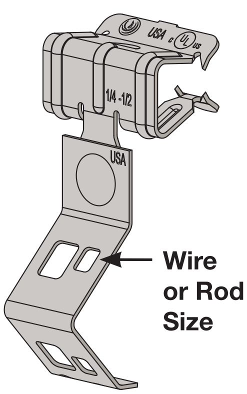


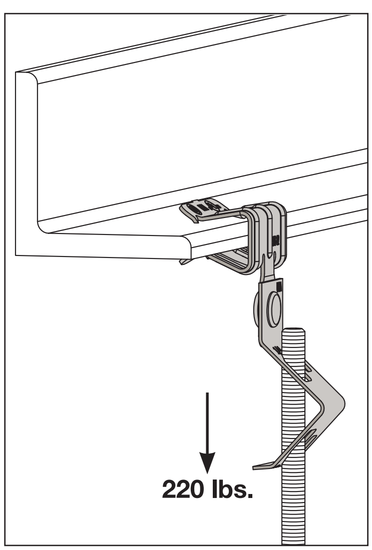


FH P

Flange Clip Side Mount with Rod Hanger Push Install

c UL us LISTED





- Suspends plain and threaded rod from beam flanges.
- Easy adjustment of rod after installation.
- Flange thickness range stamped on part.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

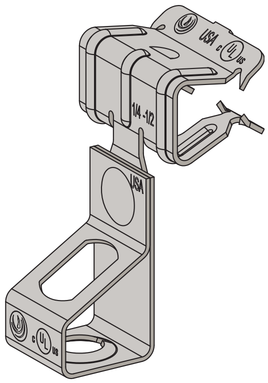
Part No.	Minimum - Maximum Flange Thickness	Wire/ Rod Size
FH24RHP4	1/8" - 1/4" *(3mm - 6mm)*	#8 Wire or 1/4" Rod
FH58RHP4	5/16" - 1/2" *(8mm - 13mm)*	
FH912RHP4	9/16" - 3/4" *(14mm - 19mm)*	
FH24RHP6	1/8" - 1/4" *(3mm - 6mm)*	3/8" Rod
FH58RHP6	5/16" - 1/2" *(8mm - 13mm)*	
FH912RHP6	9/16" - 3/4" *(14mm - 19mm)*	

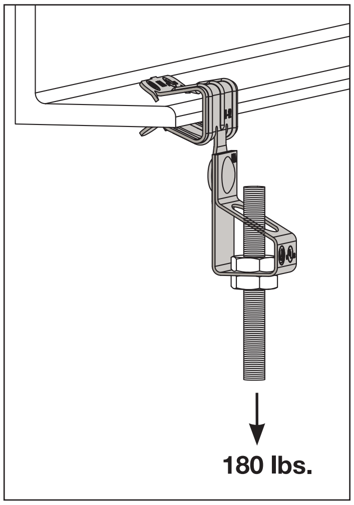
FH RHT

Flange Clip Side Mount with Rod Hanger Thread Install

- Suspends threaded rod from beam flanges.
- Flange thickness range stamped on part.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

c UL US LISTED





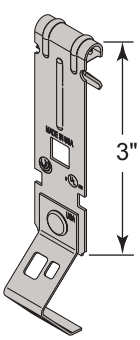
Part No.	Min. - Max. Flange Thickness	Hole Size
FH24RH4T	1/8" - 1/4" (3mm - 6mm)	1/4" - 20 Thread Form
FH58RH4T	5/16" - 1/2" (8mm - 13mm)	
FH912RH4T	9/16" - 3/4" (14mm - 19mm)	
FH24RH6T	1/8" - 1/4" (3mm - 6mm)	3/8" - 16 Thread Form
FH58RH6T	5/16" - 1/2" (8mm - 13mm)	
FH912RH6T	9/16" - 3/4" (14mm - 19mm)	
FH24RH6 *	1/8" - 1/4" (3mm - 6mm)	13/32" thru hole for 1/4" or 3/8" Threaded Rod
FH58RH6 *	5/16" - 1/2" (8mm - 13mm)	
FH912RH6 *	9/16" - 3/4" (14mm - 19mm)	

* 2 nuts required (sold separately)

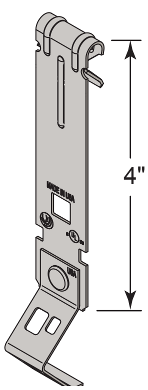
FVZ RH

Flange hanger with Rod Hanger Push Install

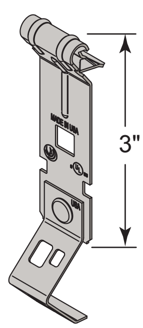
c UL US LISTED



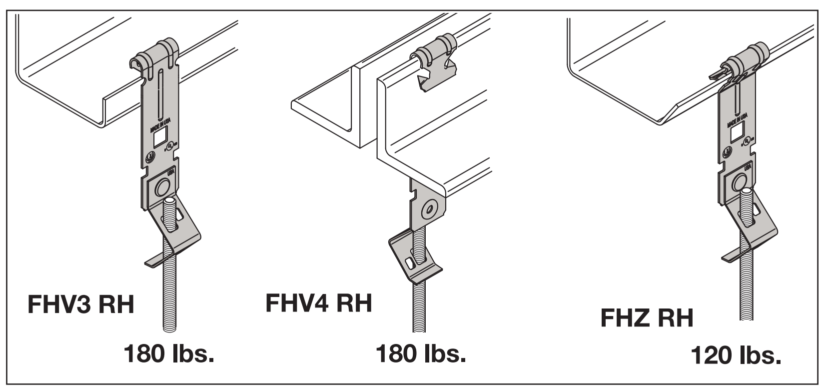
FHV3 RH



FHV4 RH



FHZ RH



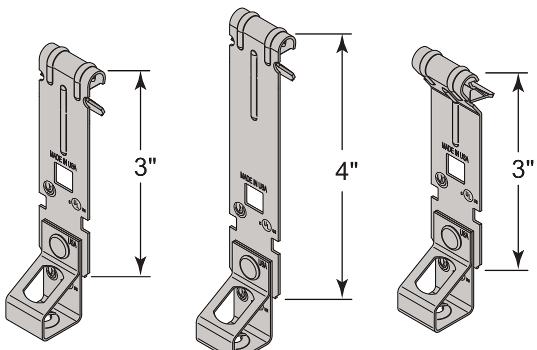
- **FHV3:** Suspends plain and threaded rod from bar joist's and "C" purlin's.
- **FHV4:** Extra long clip suspends plain and threaded rod from bar joist's.
- **FHZ:** Angled clip suspends plain and threaded rod from "Z" purlin's.
- Easy adjustment of rod after installation.
- Compatible with many industry standard installation tools.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Part No.	Wire / Rod Size	Min. - Max. Flange Thickness
FHV3RH4	#8 Wire or 1/4" Plain or Threaded Rod	1/16" - 1/4"
FHV3RH6	3/8" Plain or Threaded Rod	
FHV4RH4	#8 Wire or 1/4" Plain or Threaded Rod	1/16" - 1/4"
FHV4RH6	3/8" Plain or Threaded Rod	
FHZRH4	#8 Wire or 1/4" Plain or Threaded Rod	1/16" - 1/4"
FHZRH6	3/8" Plain or Threaded Rod	

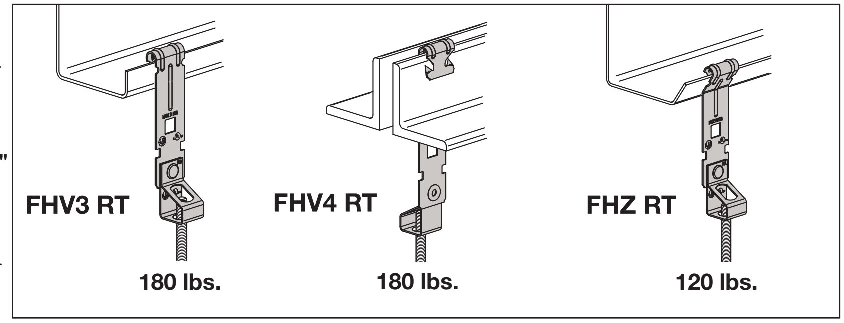
FVZ RT

Flange Hanger with Rod Hanger Threaded Install

c UL US LISTED



FHV3 RT FHV4 RT FHZ RT



- **FHV3 RT:** Suspends threaded rod from bar joist's and "C" purlin's.
- **FHV4 RT:** Extra long clip suspends threaded rod from bar joist's.
- **FHZ RT:** Angled clip suspends threaded rod from "Z" purlin's.
- Compatible with many industry standard installation tools.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

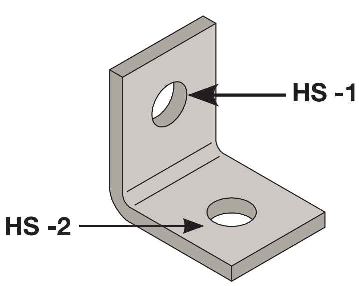
Part No.	Rod Size	Min. - Max. Flange Thickness
FHV3RH4T	1/4"-20 Thread Form	1/16" - 1/4"
FHV3RH6T	3/8"-16 Thread Form	
FHV3RH6 *	13/32" Thru Hole for 1/4" or 3/8" Threaded Rod	
FHV4RH4T	1/4"-20 Thread Form	1/16" - 1/4"
FHV4RH6T	3/8"-16 Thread Form	
FHV4RH6 *	13/32" Thru Hole for 1/4" or 3/8" Threaded Rod	
FHZRH4T	1/4"-20 Thread Form	1/16" - 1/4"
FHZRH6T	3/8"-16 Thread Form	
FHZRTH6 *	13/32" Thru Hole for 1/4" or 3/8" Threaded Rod	

* Nuts sold separately

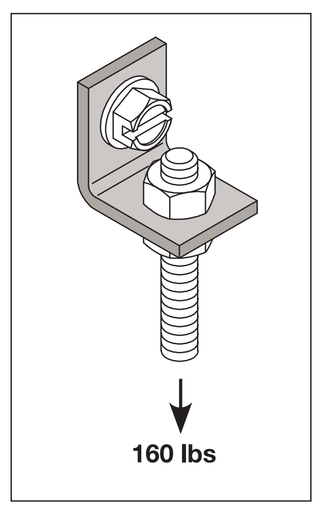
AB

Angle Bracket

c UL US LISTED



- Accepts wire, chain and rod drops from concrete or wood.
- **Material:** Steel
- **Finish:** Pregalvanized



Part No.	HS - 1	HS - 2
AB04	9/32" *(7.1mm)*	9/32" *(7.1mm)*
AB06	9/32" *(7.1mm)*	13/32" *(10.3mm)*

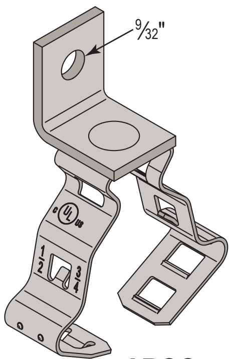
Standard Finish: Silva-Guard (SG)

IDEAL TRIDON GROUP

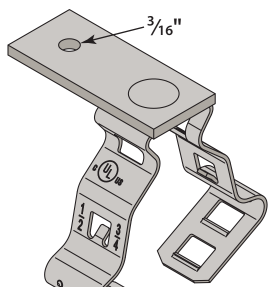
c UL US LISTED

ABCC, NBCC

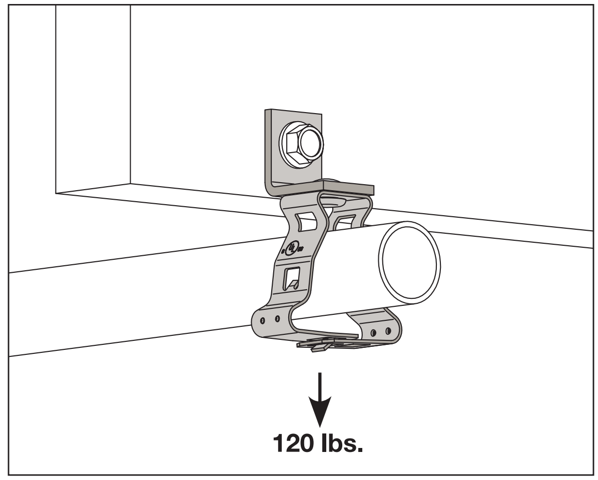
Angle Bracket and Nail Bracket with Conduit Clip



ABCC



NBCC



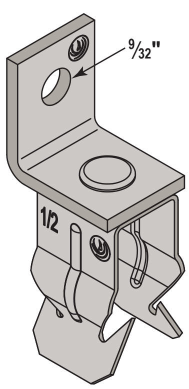
- **ABCC:** Supports horizontal runs of conduit through metal studs and prevents conduit from rattling in wall.
- **NBCC:** Attaches conduit to wood, concrete and steel, works with power tools and nails.
- Conduit clip rotates 360 degrees.
- **Material:** Steel & Spring Steel
- **Finish:** Pregalvanized & Silva-Guard

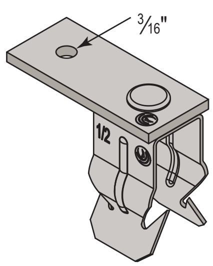
Part No.	Conduit Size
ABCC6 *	3⁄8" Flexible Conduit
ABCC812	1⁄2" or 3⁄4" EMT, Rigid
NBCC6 *	3⁄8" Flexible Conduit
NBCC812	1⁄2" or 3⁄4" EMT, Rigid

* Not a UL Listed Product

ABCCP, NBCCP

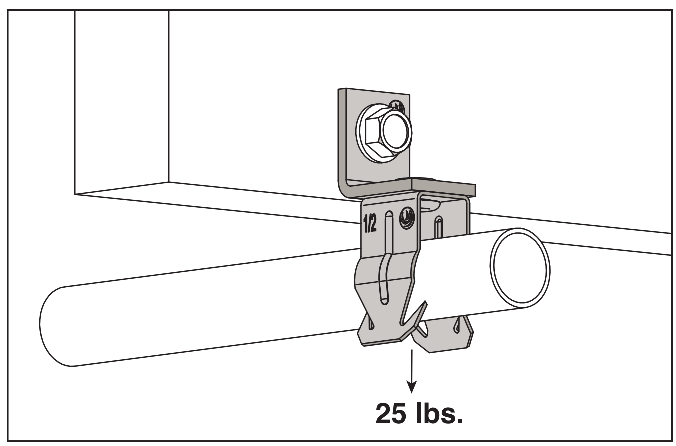
Angle and Nail Bracket with Conduit “Push In” Clip





NBCCP

ABCCP

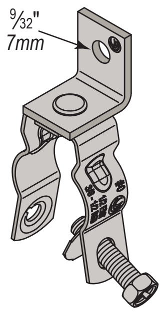


- **ABCCP**: Supports horizontal runs of conduit through metal studs and prevents conduit from rattling in wall.
- **NBCCP**: Attaches conduit to wood, concrete and steel, works with power tools and nails.
- Conduit clip rotates 360 degrees.
- **Material:** Steel & Spring Steel
- **Finish:** Pregalvanized & Silva-Guard

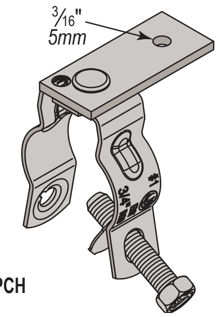
Part No.	Conduit Size
ABCCP8	1⁄2" EMT
ABCCP12	3⁄4" EMT, 1⁄2", Rigid
NBCCP8	1⁄2" EMT
NBCCP12	3⁄4" EMT, 1⁄2" Rigid

AB PCH, NB PCH

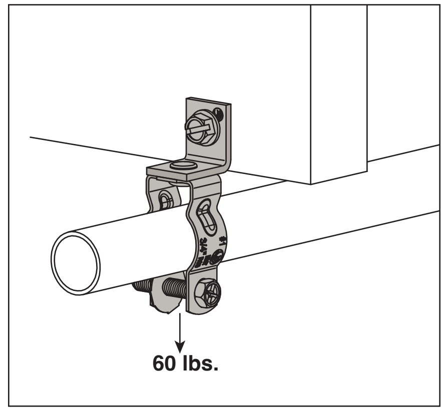
Angle & Nail Bracket with Pipe & Conduit Hanger



AB PCH



NB PCH



c UL US LISTED

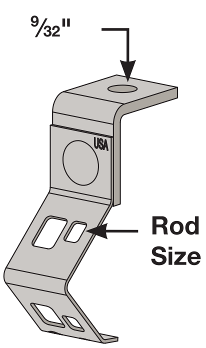
- **AB PCH**: Supports horizontal runs of conduit through metal studs and prevents conduit from rattling in wall.
- **NB PCH**: Attaches conduit to wood, concrete and steel, works with power tools and nails.
- Conduit clip rotates 360 degrees
- Suitable for air handling spaces (plenums) (remove washer at assembly)
- Retained combo head screw allows Robertson, Phillips/Slotted and Hex drivers.
- **Material:** Steel
- **Finish:** Pregalvanized

Part No.	Trade Size	Conduit Size	
		EMT	Rigid
ABPCH0	0	½"	⅜", ½"
ABPCH1	1	¾"	¾"
ABPCH2	2	1"	1"
NBPCH0	0	½"	⅜", ½"
NBPCH1	1	¾"	¾"
NBPCH2	2	1"	1"

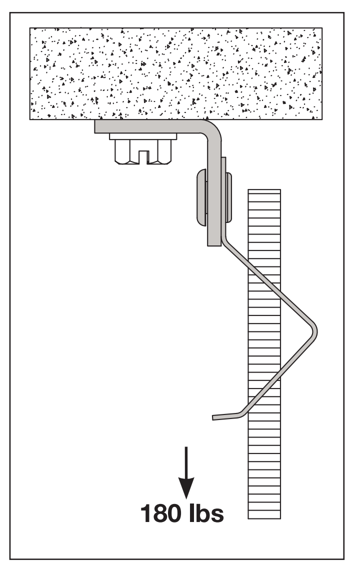
ABR

Angle Bracket with Rod Hanger Push Install

c UL US LISTED



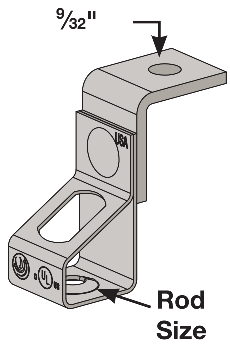
- Attaches to concrete, wood and steel.
- Suspends plain and threaded rod from horizontal surfaces.
- Easy adjustment of rod after installation.
- **Material:** Steel & Spring Steel
- **Finish:** Pregalvanized & Silva-Guard



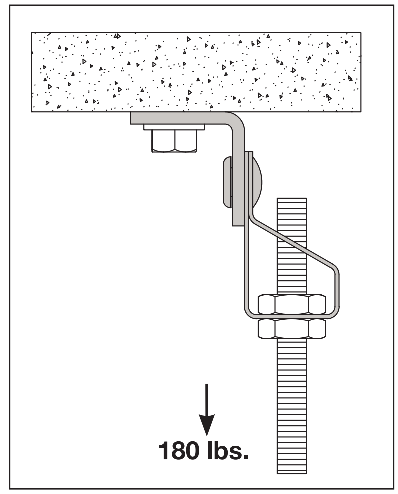
Part No.	Rod Size
ABRH4	#8 Wire or ¼" Plain or Threaded Rod
ABRH6	⅜" Plain or Threaded Rod

ABR T

Angle Bracket with Rod Hanger Thread Install



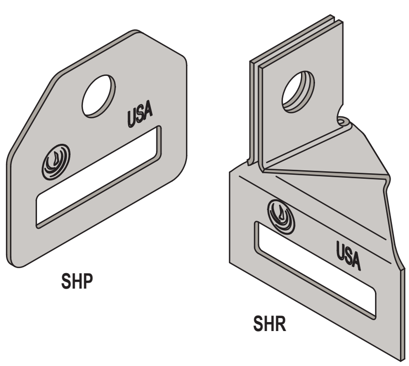
- Attaches to concrete, wood and steel.
- Suspends threaded rod from horizontal surfaces.
- **Material:** Steel & Spring Steel
- **Finish:** Pregalvanized & Silva-Guard

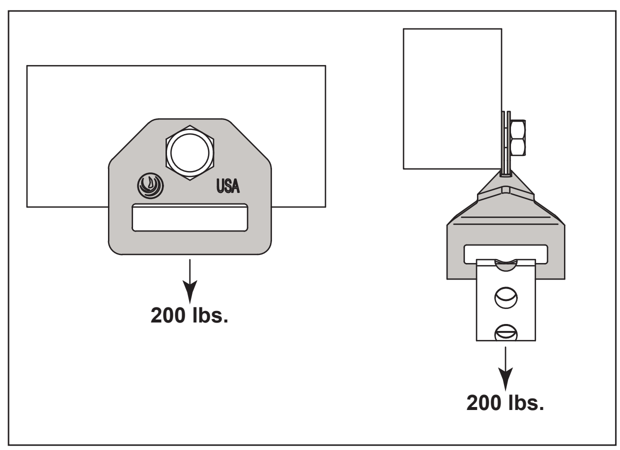


Part No.	Rod Size
ABRH4T	1/4 - 20 Thread Form
ABRH6T	3/8 - 16 Thread Form
ABRTH6 *	13/32" Thru Hole for 1/4" or 3/8" Threaded Rod
* Nuts sold separately	

SH

Strap Hanger



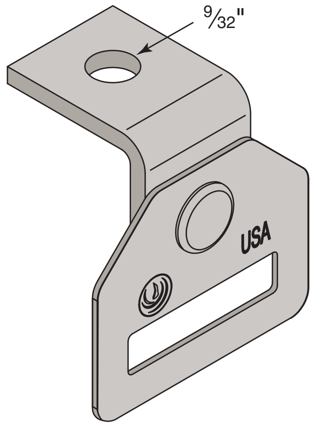


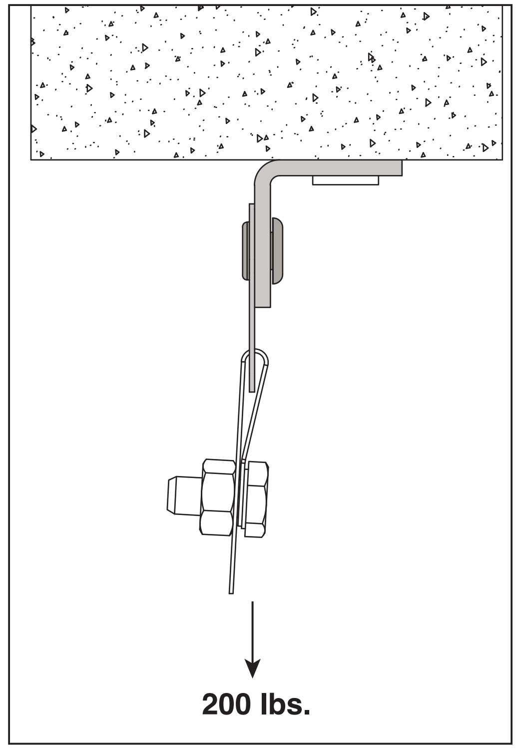
- Supports pipe or duct with strapping.
- Fits strap up to 1" wide.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Part No.	Hole Size
SHP	9/16"
SHR	9/16"

ABSHP

Angle Bracket with Strap Hanger

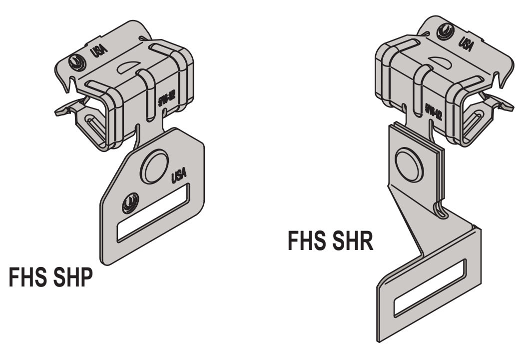


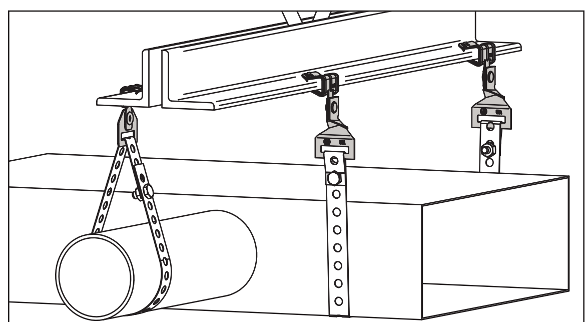


- Supports pipe or duct with strapping.
- Fits strap up to 1" wide.
- **Material:** Steel & Spring Steel
- **Finish:** Pregalvanized & Silva-Guard

FHS SH

Flange Clip Side Mount with Strap Hanger





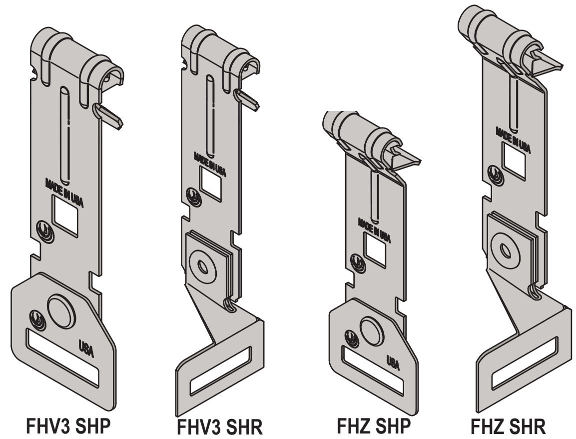
Static load rating for all sizes = 200 lbs.

- Supports pipe or duct with strapping from beam flanges.
- Fits strap up to 1" wide.
- Flange thickness range stamped on part.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

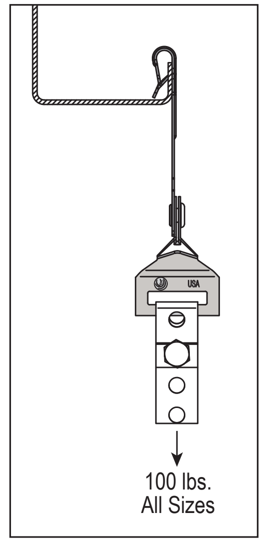
Part No.	Min. - Max. Flange Thickness
FHS24SHP	1/8" - 1/4" *(3mm - 6mm)*
FHS58SHP	5/16" - 1/2" *(8mm - 13mm)*
FHS912SHP	9/16" - 3/4" *(14mm - 19mm)*
FHS24SHR	1/8" - 1/4" *(3mm - 6mm)*
FHS58SHR	5/16" - 1/2" *(8mm - 13mm)*
FHS912SHR	9/16" - 3/4" *(14mm - 19mm)*

FHV3 FHZ SH

Flange Hanger with Strap Hanger



FHV3 SHP "C" Purlin | FHV3 SHR "C" Purlin | FHZ SHP "Z" Purlin | FHZ SHR "Z" Purlin

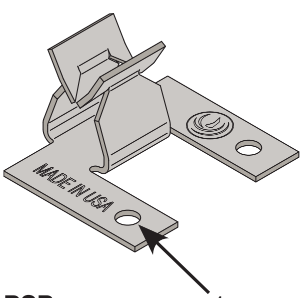


- FHV SHP and SHR supports pipe or duct with strapping from "C" purlin flanges.
- FHZ SHP and SHR supports pipe or duct with strapping from "Z" purlin flanges.
- Fits strap up to 1" wide.
- Compatible with many industry standard installation tools.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

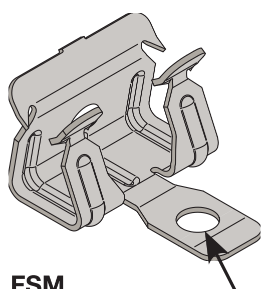
Part No.	Min. - Max. Flange Thickness
FHV3SHP	1⁄16" - ¼"
FHV3SHR	1⁄16" - ¼"
FHZSHP	1⁄16" - ¼"
FHZSHR	1⁄16" - ¼"

PSP, FSM

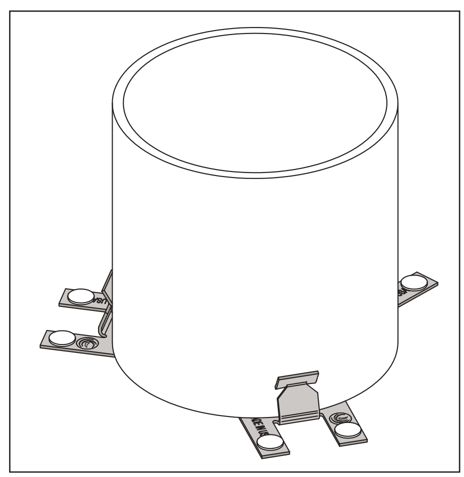
Pipe Sleeve Positioner



PSP **For ⅛" screw or nail**



FSM **For ¼" screw or nail**



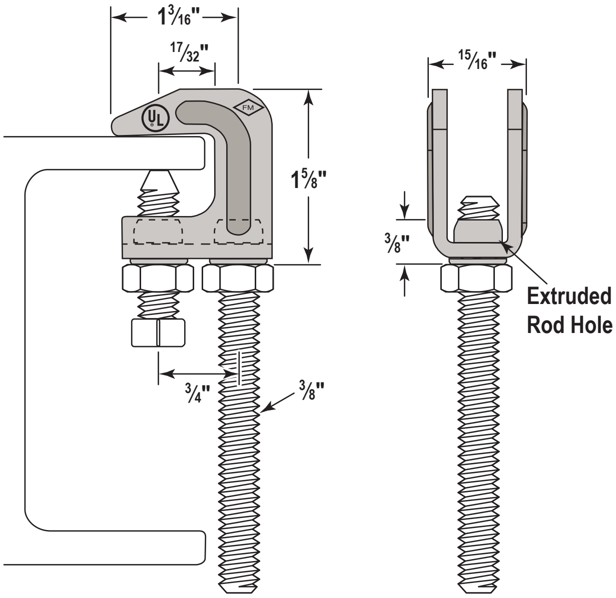
Part No.	Sleeve Diameter	Pipe Wall Thickness	Min./Max. Sleeve Thickness Range
PSP2-6	2" - 6" *(51mm - 152mm)*	Schedule #40 Pipe	0" - 5⁄16" *(0 - 8mm)*
PSPA	Any Dia.	Up to 5⁄16" *(8mm)*	
FSM58	6" *(152mm)*	Schedule #80 Pipe	¼" - ½" *(6mm - 13mm)*
FSM58	8" - 10" *(203mm - 254mm)*	Schedule #40 Pipe	
FSM912	9" - 14" *(229mm - 356mm)*	Schedule #80 Pipe	½" - ¾" *(13mm - 19mm)*

- Use to position pipe sleeves during concrete pours.
- Only a hammer required for installation.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Silver Claw

Beam Clamp

c UL US LISTED



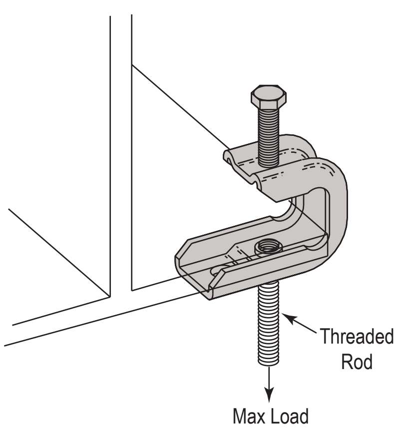
- Carbon Steel - Avoids Hydrogen Embrittlement
- Extruded Rod Hole - More Threads Captured
- Made in USA - Meets Requirements for Buy America
- Handles $\frac{3}{8}$" Threaded Rod
- Attaches to $\frac{3}{4}$" *(19mm)* Beam or Bar Joist
- Open Back for Easy Inspection and Adjustment
- $\frac{3}{4}$" *(19mm)* Flange Beam
- Zinc Electroplate
- Installs in Upright Position
- Torque Value = 60 in-lbs
- Made in USA
- UL Listed for Top of Beam
- FM Approved for NFPA 13, Maximum Rated Pipe Size
- Complies with Manufacturers Standardization Society SP-69 (Type 19 & 23) and Federal Specification WW-H-171E

NFPA MSS

Part No.	Rod Size	Max. Load
SCL037EG	$\frac{3}{8}$"	400 Lbs.

BC92

Light Duty – Beam Clamps

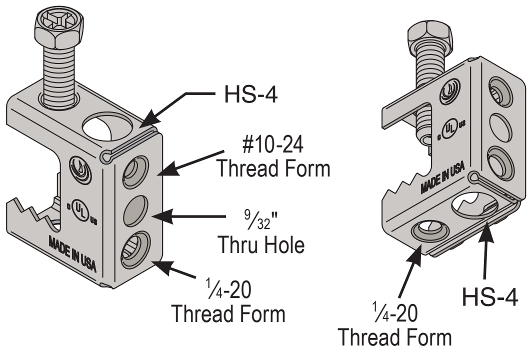


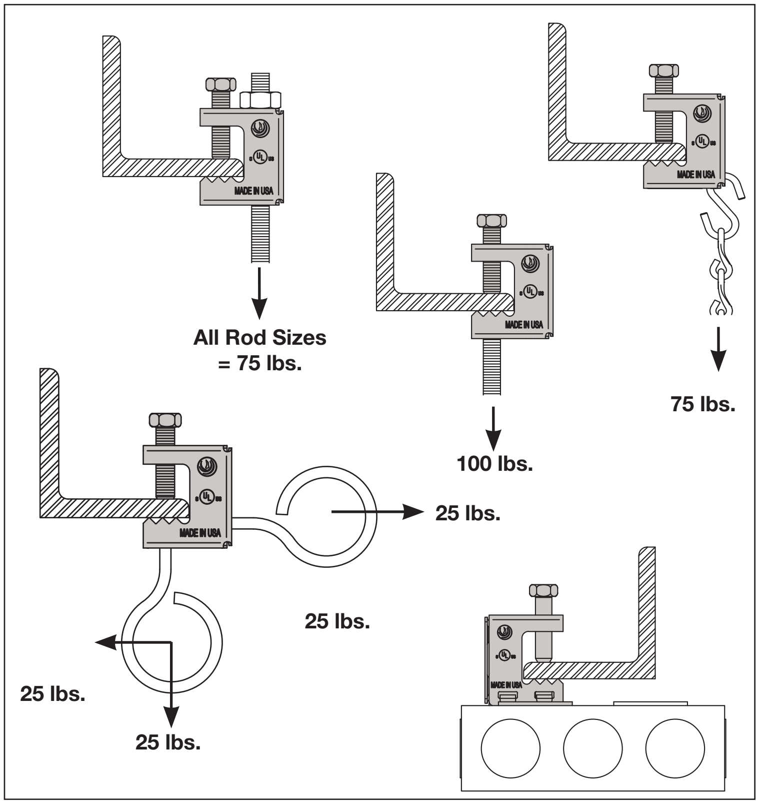
- **Material:** Carbon Steel
- **Finish:** Electrogalvanized

Part No.	Rod Size	Max Flange Thickness	Max Load (W) lbs
BC92025EG	$\frac{1}{4}$"–20	$\frac{5}{8}$" *(16 mm)*	100 *(0.44kN)*
BC92037EG	$\frac{3}{8}$"–16	$\frac{3}{4}$" *(19 mm)*	200 *(0.89kN)*

BCL

Beam Clamp





- UL Listed for box support.
- For installation on ½" maximum beam flanges.
- Included combo head set screw allows Robertson, Phillips/Slotted and Hex drivers.
- Accepts "S" hooks, threaded rod and bridal rings.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Part No.	Max. Flange Thickness	HS-4
BCL	½"	13⁄32" Thru Hole for ¼" or ⅜" Rod

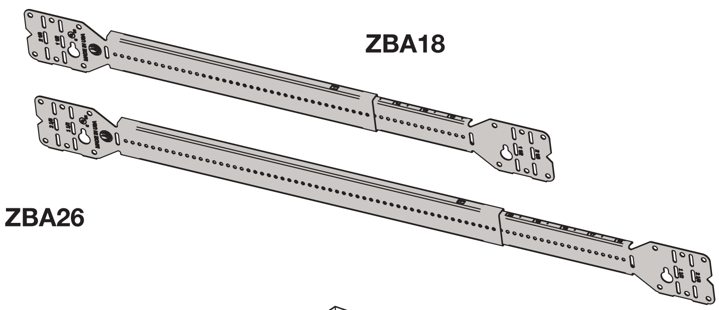
Introduction
Channel
Channel Nuts & Hardware
General Fittings
Brackets
Beam Clamps
Pipe & Conduit Supports
Electrical Fittings
Spring Steel
Concrete Inserts
Rooftop Supports
Technical Data

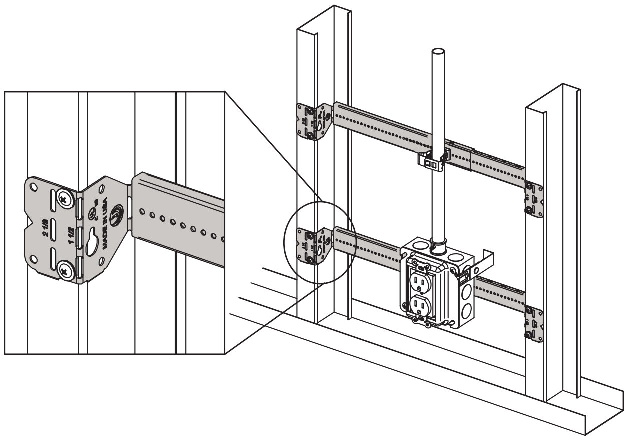
Standard Finish: Silva-Guard (SG) or Pregalvanized (PG)

ZBA Z-Bracket

Adjustable Screw Gun Bracket for Wood or Metal Studs

c UL US LISTED





- Complete adjustability for infinite stud spacings.
- Requires only a screw gun to install.
- Pre-punched holes allow easy box or conduit attachment.
- Stud spacing scale stamped on bracket for precise preassembly.
- Locking tabs prevent disassembly.
- Use with SDTSLP8X1/2 screws, see page 269.

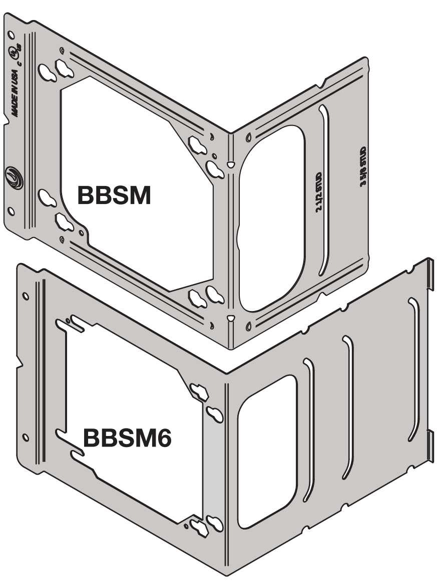
- **Material:** Steel
- **Finish:** Pregalvanized

Part No.	Stud Centers	Distance Between Studs	Box Depth
ZBA18PG	11" to 18" *(279mm to 457mm)*	10" to 16-¾" *(254mm to 425mm)*	1-½" or 2-⅛" *(38mm or 54mm)*
ZBA26PG	16" to 26" *(406mm to 660mm)*	14" to 25-¼" *(356mm to 641mm)*	

BBSM

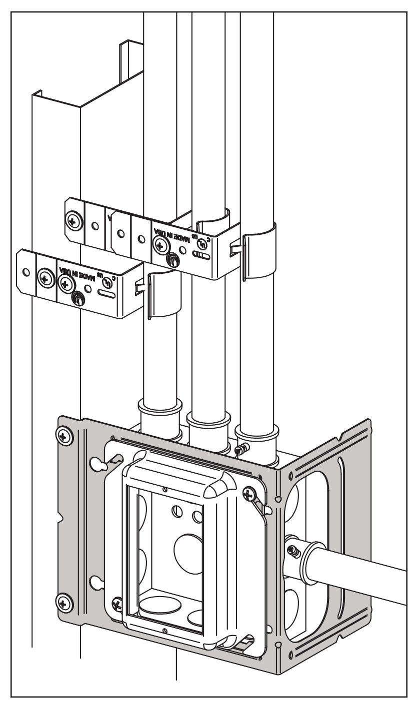
Electrical Box Bracket for Wood or Metal Studs

c UL US LISTED



- Used to attach 4" and 4-11⁄16" outlet boxes to wood or metal studs.
- Large cutouts provided for conduit and fittings.
- Integral farside support prevents outlet box movement.
- Use with SDTSLP8X1/2 screws, see page 269

- **Material:** Steel
- **Finish:** Pregalvanized



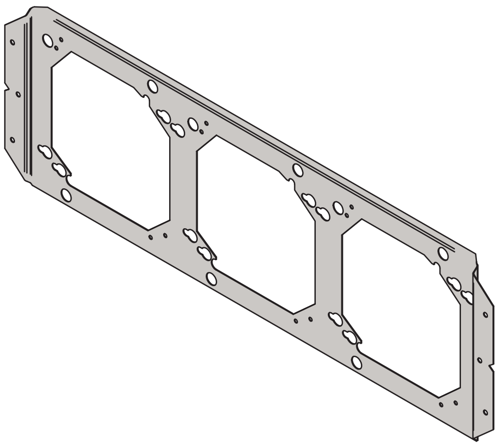
Part No.	Outlet Boxes	Box Depths	Stud Depths
BBSM	4" *(102mm)* Square, 4-11⁄16" *(119mm)* Square and Low Voltage Plaster Rings	1-¼", 1-½", and 2-⅛" Deep *(32mm, 38mm, and 54mm)*	2-½", 3-⅝" *(64 mm, 92 mm)*
BBSM6 *			5-½", 6" *(140 mm, 152 mm)*

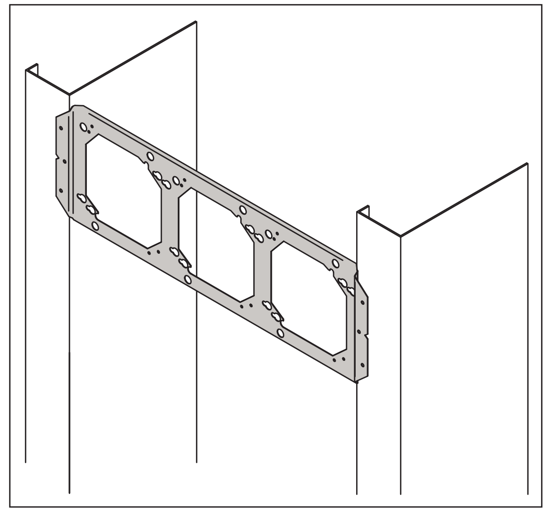
* Not a UL Listed Product

Standard Finish: Silva-Guard (SG) or Pregalvanized (PG)

BB16SM

Rigid Box Mounting Bracket



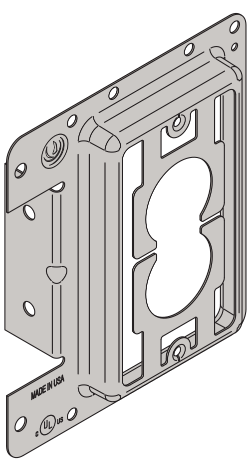


- Eliminates the need for electrical boxes in low voltage installations.
- Supports electrical boxes, plaster rings, or low voltage devices
- Use with SDTSLP8X1/2 screws, see page 269.
- **Material:** Steel
- **Finish:** Pregalvanized

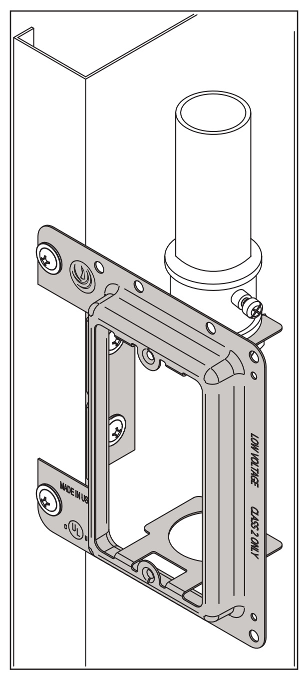
Part No.	Stud Centers	Supports
BB16SM	16"	Mounts up to three 4" and 4-$^{11}/_{16}$" boxes, plaster rings

LVMN

Low Voltage Mounting Plate for New Construction



- Wood or Metal Studs
- New work design requires a screw gun for installation.
- Inner tabs allow ¾" EMT or ½" EMT with reducer fitting for conduit applications if required.
- Can be mounted vertically or horizontally on wood or metal studs.
- Replaces electrical box in Class 2 low voltage installations.
- Use with SDTSLP8X1/2 screws, see page 269
- **Material:** Steel
- **Finish:** Pregalvanized



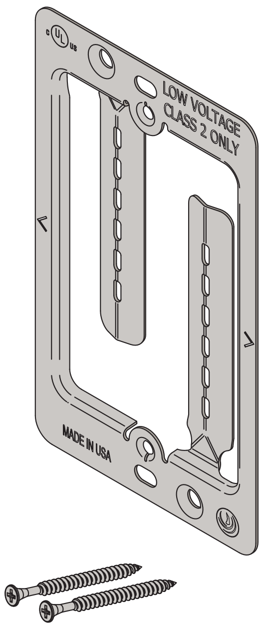
Part No.	Drywall Thickness
LVMN	½" thru ⅝" *(13mm to 16mm)*

Standard Finish: Silva-Guard (SG) or Pregalvanized (PG)

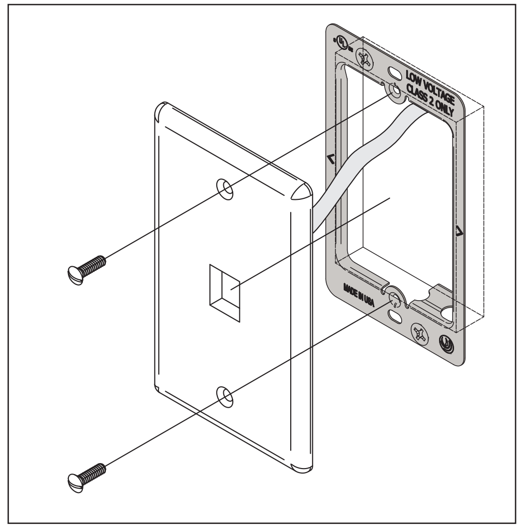
LVMS

Low Voltage Mounting Plate with Screws for Existing Construction

c UL us LISTED



- Old work design requires a drywall saw and screw driver for installation.
- Provided screws make a more secure bracket installation.
- Replaces electrical box in Class 2 low voltage installations.
- **Material:** Steel
- **Finish:** Pregalvanized

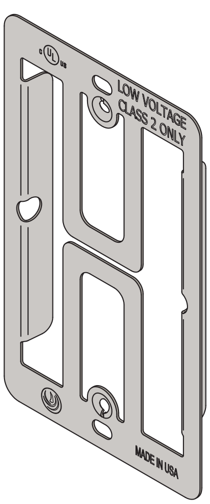


Part No.	Drywall Thickness
LVMS	½" thru 1-¼" *(13mm to 32mm)*

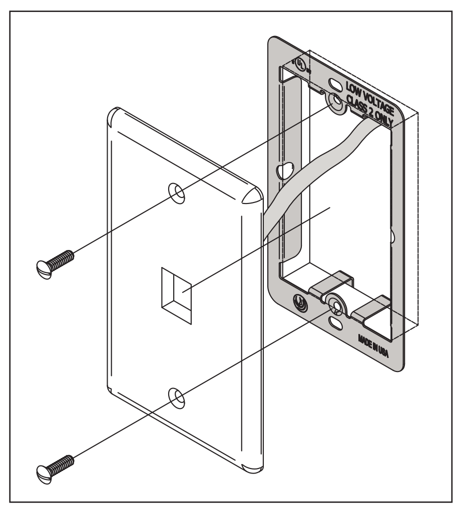
LVMP

Low Voltage Mounting Plate for Existing Construction

c UL us LISTED



- Old work design requires a drywall saw and screw driver for installation.
- Replaces electrical box in Class 2 low voltage installations.
- **Material:** Steel
- **Finish:** Pregalvanized



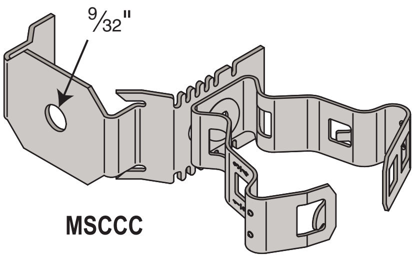
Part No.	Drywall Thickness
LVMP	½" thru 1-¼" *(13mm to 32mm)*

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

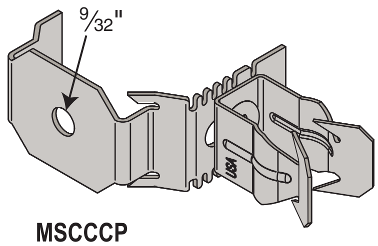
Standard Finish: Silva-Guard (SG) or Pregalvanized (PG)

MSCCC, MSCCCP

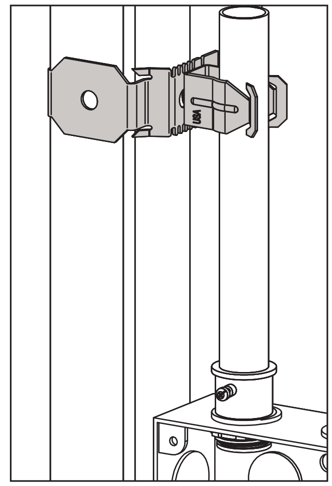
Metal Stud Clip with Conduit Clip & Conduit "Push In" Clip



MSCCC



MSCCCP



c UL US LISTED

MSCCC Only

- Supports pipe and conduit to studs.
- Hole provided for additional support.
- Use with SDTSLP8X1/2 screws, see page 269
- **Material:** Spring Steel
- **Finish:** Silva-Guard

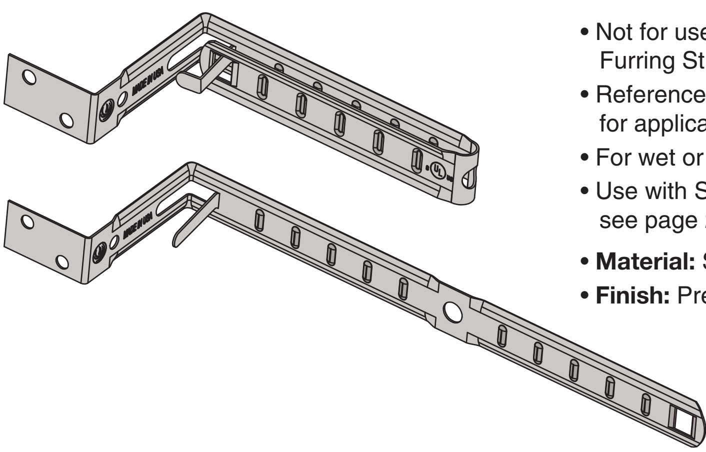
Part No.	Hole Size	Conduit Size
* MSCCC6	9/32"	3/8" Flexible Conduit
* MSCCC8-12		1/2" or 3/4" EMT, Rigid
* MSCCC16		1" EMT, Rigid
* MSCCC20		1-1/4" EMT, Rigid
MSCCCP8	9/32"	1/2" EMT
MSCCCP12		3/4" EMT, 1/2" Rigid
MSCCCP16		1" EMT, 3/4" Rigid

* Not a UL Listed Product

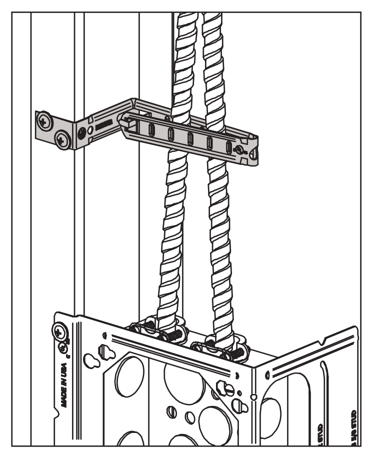
CSSTS

Cable Support Strap for Wood or Metal Studs

c UL US LISTED



- Not for use with Hat Channel or Furring Strips.
- Reference NEC 1990 Article 300-4d for application
- For wet or dry applications.
- Use with SDTSLP8X1/2 screws, see page 269
- **Material:** Steel
- **Finish:** Pregalvanized



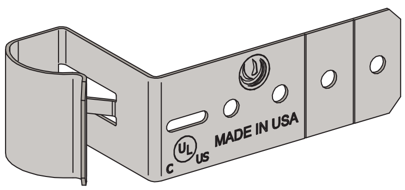
Part No.	Cable Type	Cable Size	Cables per Fastener	Description
CSSTS	Romex™ and Non-Metallic Sheathed Cable	14-2, 12-2, 10-2, 14-3, 12-3, and 10-3 with ground	6 Max.	To Attach Romex Non-Metallic Sheathed Cable, AC, BX, and MC Cable to Wood or Metal Stud
		8-2 and 6-2 with ground	4 Max.	
	Metal Clad (MC) Cable	14-2, 12-2, 10-2, 14-3, 12-3, 10-3, 14-4, 12-4, and 10-4 with ground	4 Max.	

Standard Finish: Silva-Guard (SG) or Pregalvanized (PG)

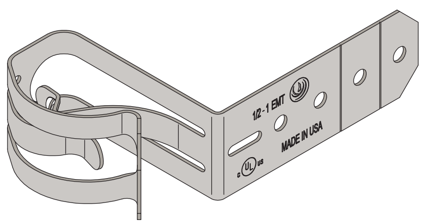
CTS

Conduit Clip to Wood or Metal Stud

c UL US LISTED

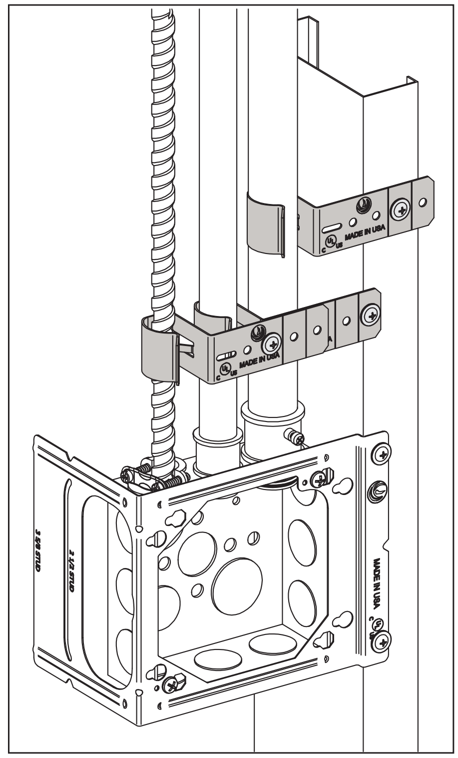


CTS812



CTS816D

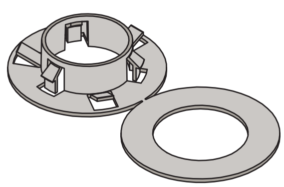
- Use with low profile screws SDTSLP8X1/2, see page 269
- For positioning only.
- For wet or dry applications..
- **Material:** Spring Steel
- **Finish:** Silva-Guard

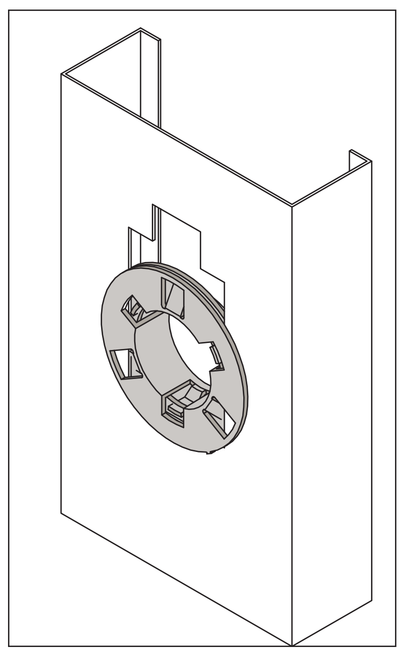


Part No.	Box Depth	MC/AC Cable Size	Conduit Size
CTS812	1-$\frac{1}{2}$" *(38mm)*	14-2, 14-3, 12-2, 12-3	$\frac{1}{2}$" or $\frac{3}{4}$" EMT MC/AC *(13mm or 19mm)*
CTS816D	2-$\frac{1}{8}$" *(54mm)*		$\frac{1}{2}$" or 1" EMT *(13mm or 25mm)*

USG

Universal Stud Grommet





- Quick snap on design for 24 gauge to 12 gauge metal studs.
- Protects cable and conduit from damage.
- Makes cable pulling easy by preventing hang-ups on metal edges.
- Universal design for many pre-punched square and round hole sizes.
- **Material:** Polypropylene

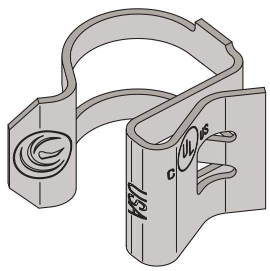
Part No.	Pre-Punch Hole Grommet O.D.	Grommet I.D.
USG	1$\frac{11}{32}$" *(34.1mm)*	1.20" *(30mm)*

WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

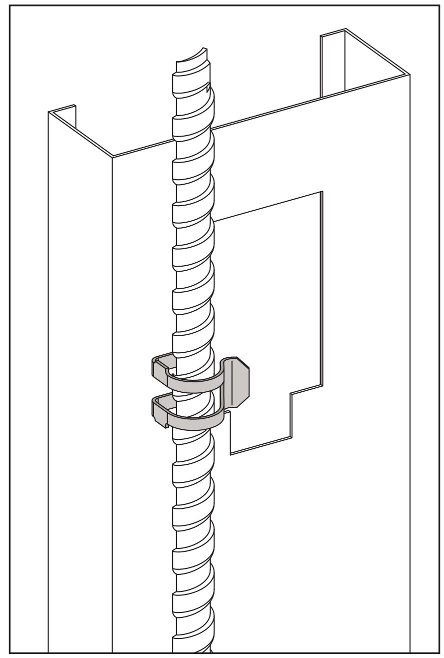
Standard Finish: Silva-Guard (SG) or Pregalvanized (PG)

CCMS

MC/AC Cable Clip to Metal Stud



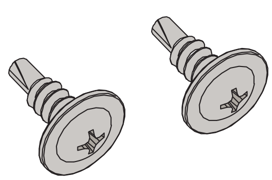
- Cable clip attaches MC/AC cable to metal studs.
- No tools required for application.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



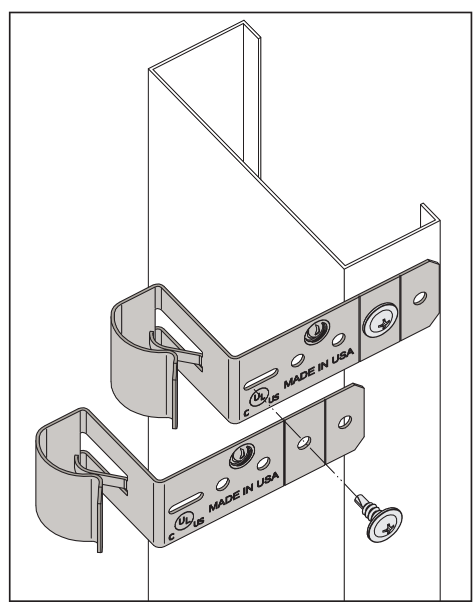
Part No.	Cable Type	Cable Size	Description
CCMS	MC/AC Cable	14-2, 14-3, 12-2, 12-3	MC/AC Cable Clip to Metal Stud

SDTSLP8X1/2

Self Drilling and Tapping Screw

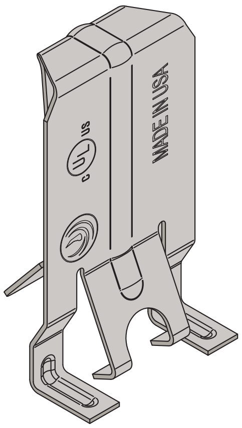


- #8 x ½" Long Self drilling and tapping, low profile screws
- Thin head prevents drywall bulge.
- #2 phillips driver for screw gun use.
- **Material:** Steel
- **Finish:** Electrogalvanized

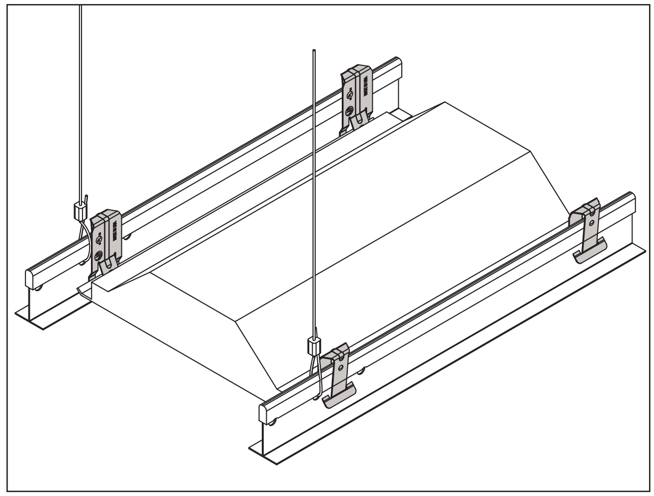


SCT
Support Clip for Troffer Lights & Lay-Ins

c UL us LISTED



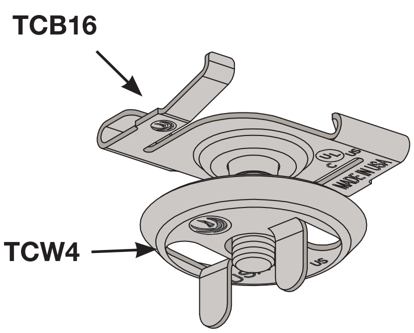
- Four clips per fixture required per UL listing.
- Compatible with straight lip or upturned lip fixtures.
- Tall grid compatible.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



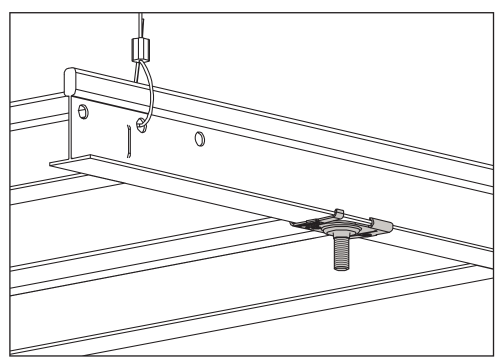
Part No.	Description
SCT15	Support clip for securing troffers, lay-ins and air diffusers to T-Grid

TCB, TCS
Twist Clip with Wing Nut

c UL us LISTED



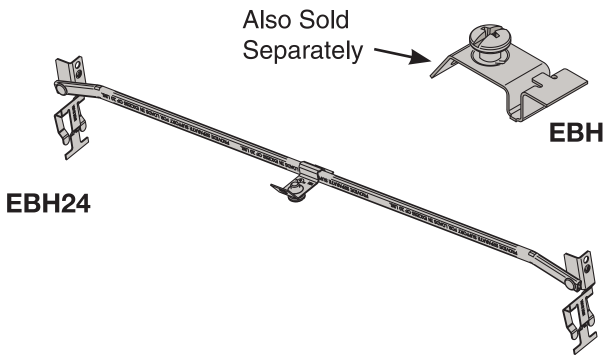
- Use to attach lighting to main T-bars.
- Simple twist on design eliminates the need for installation tools.
- Will not damage T-grid.
- **Material:** Spring Steel
- **Finish:** Silva-Guard



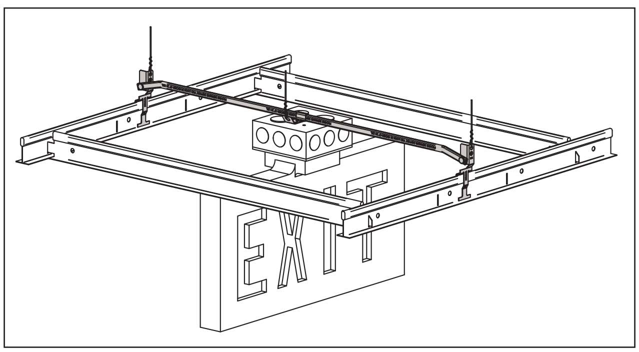
Part No.	Stud Length	Description	Static Load Limit per Fastener
TCB16	$\frac{5}{8}$"	$\frac{15}{16}$" Tee Twist Clip with Stud	50 Lbs.
TCW4	–	$\frac{1}{4}$"-20 Twist Clip Wing Nut	100 Lbs.
TCS16	$\frac{5}{8}$"	$\frac{15}{16}$" Tee Twist Clip and Wing Nut	50 Lbs.

EBH

Electrical Box Hanger with Box Mounting Clip



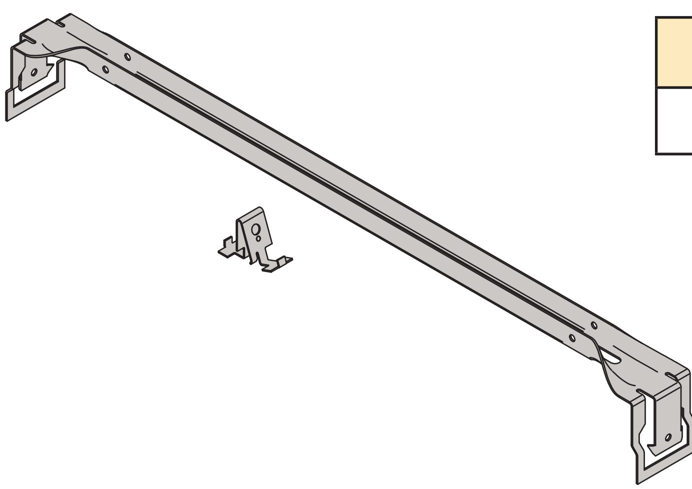
Part No.	Description
EBH24	Complete assembly to flush mount a 1-½" box with or without ¾" device ring or 2-⅛" box to ceiling tile. Used for 24" on center T-grid spacing.
EBH	Box mounting clip and screw for attaching one or multiple boxes to EB 24 assembly.



- Complete hanger assembly for supporting an electrical box above T-grid.
- Multiple holes provided for drop wire securement to building structure.
- Dual height feature permits 1-½" electrical box with or without ¾" device ring and 2-⅛" box to be flush mounted with ceiling tile.
- Included mounting clip and ¼" screw is compatible with standard knock-out configurations.
- **Material:** Steel & Spring Steel
- **Finish:** Pregalvanized & Silva-Guard

EBH24HD

T-Grid Box Electrical Box Hanger – Heavy Duty

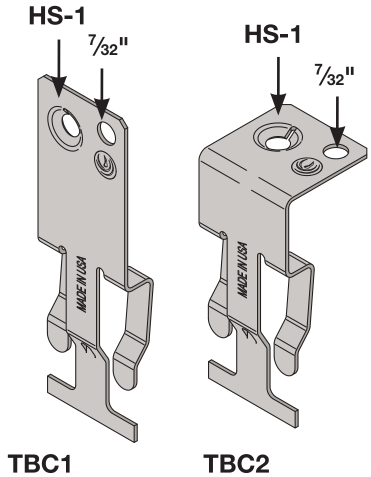


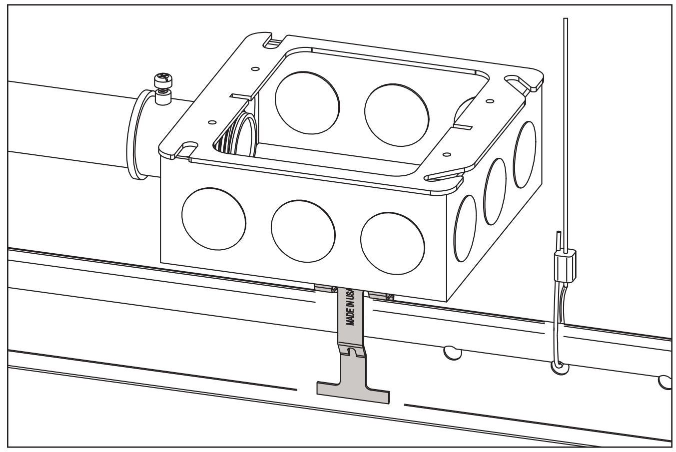
Part No.	Description
EBH24HD	Heavy duty electrical box hanger with box mounting clip for 24" span and 2-⅛" and 1-½" boxes

- Easy attachment for supporting an electrical box from T-grid.
- Easily adjust height for 1-½" box by breaking tabs.
- Easy attachment for drop wire securement to clip or bar.
- **Material:** Steel
- **Finish:** Pregalvanized

TBC

T-Bar Clip



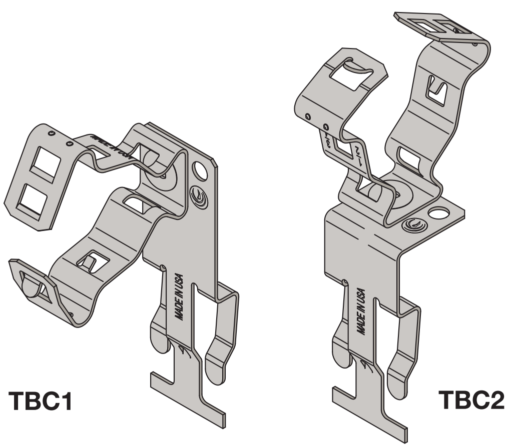


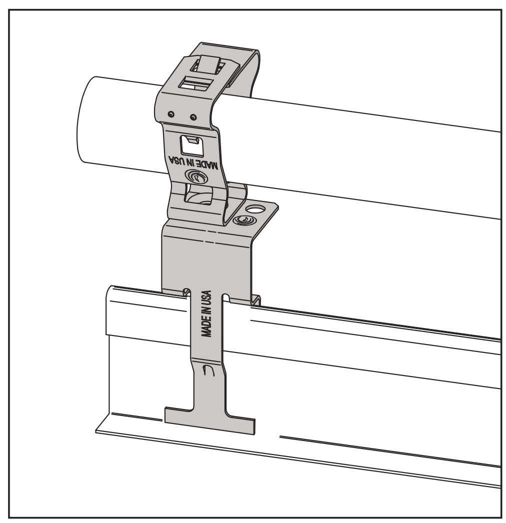
- Attaches outlet boxes and conduit clips above T-grid.
- $\frac{7}{32}$" hole provided for drop wire.
- Clip snaps onto T-bar. No tools required.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Part No.	HS-1
TBC1	¼" x 20 Thread Form
TBC2	¼" x 20 Thread Form

TB C

T-Bar Clip with Conduit Clip



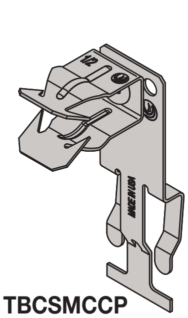


- Supports pipe and conduit above T-bars.
- Conduit clip rotates 360 degrees.
- No screws or bolts required. No installation tools required.
- $\frac{7}{32}$" Hole provided for drop wire.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

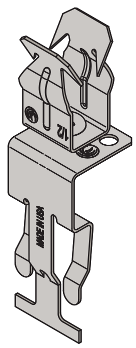
Part No.	Conduit Size
TBC1C6	⅜" Flexible Conduit
TBC1C812	½" or ¾" EMT, Rigid
TBC1C16	1" EMT, Rigid
TBC2C6	⅜" Flexible Conduit
TBC2C812	½" or ¾" EMT, Rigid
TBC2C16	1" EMT, Rigid

TBC SMCCP, TMCCP

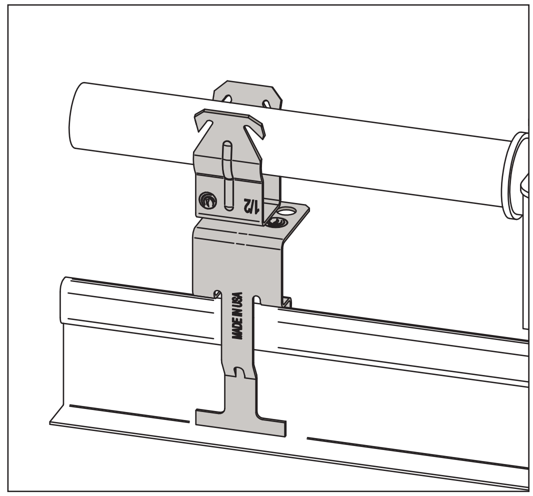
T-Bar Clip with Conduit “Push In” Clip



TBCSMCCP



TBCTMCCP



- Supports pipe and conduit above T-bars.
- Conduit clip rotates 360 degrees.
- No screws, bolts or installation tools required.
- 7/32" hole provided for drop wire.
- **Material:** Spring Steel
- **Finish:** Silva-Guard

Part No.	Mount	Conduit Size
TBCSMCCP8	Side Mount	½" EMT
TBCSMCCP12		¾" EMT, ½" Rigid
TBCSMCCP16		1" EMT, ¾" Rigid
TBCTMCCP8	Top Mount	½" EMT
TBCTMCCP12		¾" EMT, ½" Rigid
TBCTMCCP16		1" EMT, ¾" Rigid

Notes

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Concrete Inserts

Channel Material Specifications		
Material	**ASTM Designation**	**ASTM Description**
Hot Rolled: Channel	A 1011SS GR33	Hot rolled carbon steel sheet and strip, structural quality.
Cold Rolled: Channel	A 1008SS GR33	Cold rolled carbon sheet steel.
Stainless Steel: Channel	A 240 TYPE 304	Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel.
	A 240 TYPE 316	
Aluminum: Channel	B 221 TYPE 6063 T6	Aluminum alloy extruded bar, rod, wire, shape and tube.

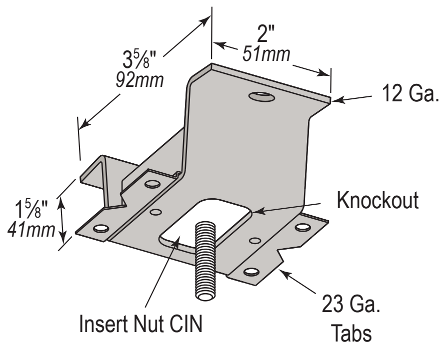
Channel Finish Specifications	
Finish	**Description**
Mill-Galvanized (Pre-Galvanized)	Galvanized steel used in the manufacture of Channel sections conforms to ASTM A 653 GR33 G90. Uncoated edges resulted from slitting, punching and channel cut off are present.
Paint-Green Powder Coating	A dark green low gloss powder coating is applied and thoroughly baked after steel has been cleaned and phosphatized.
Electroplated	Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.
Hot Dip Galvanized After Fabrication	Channel and fittings which are hot dip galvanized after fabrication conform to one of the following specifications: ASTM A 123, ASTM A153, or ASTM A386.
Special Coatings	Other commercially available finishes can be supplied per specification when required to protect applications.

See page 25 for Material or Finish ordering codes for part numbers.

Concrete Inserts

Standard Finish: Pre-Galvanized (PG)

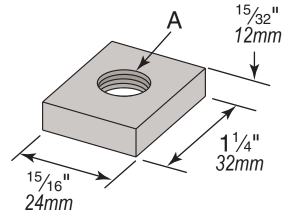
Spot Concrete Insert



Designed to be used with spot concrete insert nuts
The ⅞" x 1-⅝" knock-out is removed after concrete pour. The spot concrete insert nut is placed in the slot, and then the rod is screwed into the nut. The nut is secured in place by turning the rod. Lateral adjustment is made by loosening the nut and relocating. When selecting rod size, refer to "Load Ratings" of Thread Hanger Rods" chart on page 82.

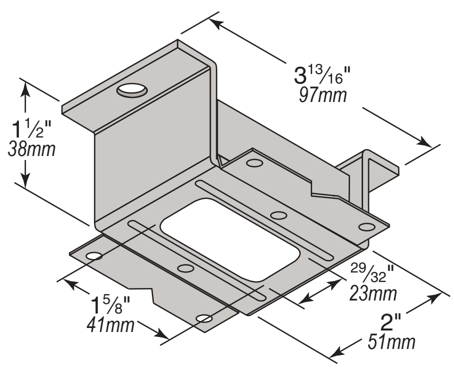
FLORIDA STRUT	VERSABAR	WESANCO	Allowable Load Lbs. *(kN)*
CI	--	W7000	600 *(2.67 kN)*
Load based on adequate concrete			

Concrete Insert Nut



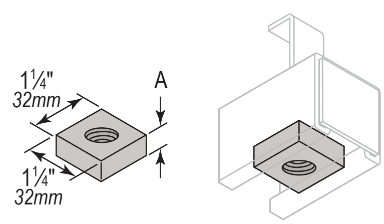
FLORIDA STRUT	VERSABAR	WESANCO	Tapped "A" Size
CIN 0025		W7024	¼"-20
CIN 0037		W7025	⅜"-16
CIN 0050		W7026	½"-13
CIN 0062		W7027	⅝"-11
CIN 0075		W7028	¾"-10
CIN 0087		W7029	⅞"- 9

Spot Concrete Insert



FLORIDA STRUT	VERSABAR	WESANCO	Load Rating in 3,000psi min. concrete Lbs. *(kN)*
--	VC1	--	1,300 *(2.67 kN)*
Load based on adequate concrete			

Concrete Insert Nut

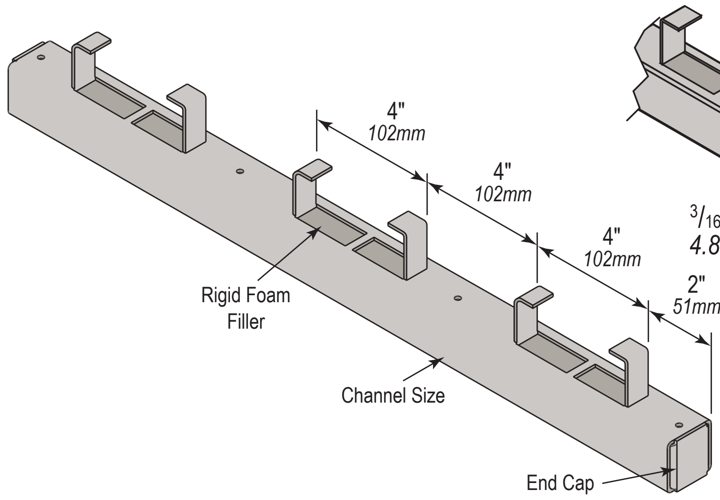


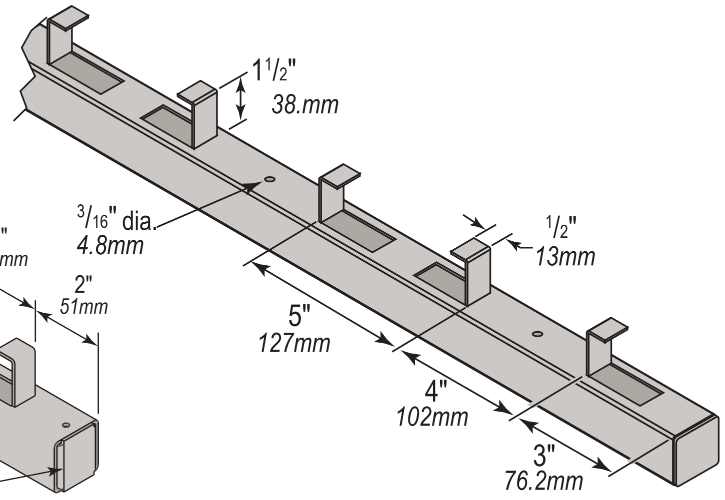
FLORIDA STRUT	VERSABAR	WESANCO	Tapped Size	Blank Size "A"
--	VCN25	--	¼"-20	¼" *(6mm)*
	VCN31		5/16"-18	
--	VCN37	--	⅜"-16	⅜" *(10mm)*
	VCN37-RP		⅜"-16 - Pipe Tap	½" *(13mm)*
--	VCN50	--	½"-13	
	VCN50-RP		½"-13 - Pipe Tap	
--	VCN62	--	⅝"-11	
--	VCN75	--	¾"-10	

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Concrete Inserts

Standard Finish: Pre-Galvanized (PG)





FLORIDA STRUT	VERSABAR	WESANCO	See Page	Gauge	Channel Size
W7250 thru W7270 Series	VC1000 Series	W7250 thru W7270 Series	279	12 ga.	1-5/8" (41mm) x 1-5/8" (41mm)
W7350 thru W7370 Series	VC6000 Series	W7350 thru W7370 Series	280		1-5/8" (41mm) x 1-3/8" (35mm)
W7550 thru W7570 Series	VC10000 Series	W7550 thru W7570 Series	281		1-5/8" (41mm) x 1" (35mm)
W7954 thru W7970 Series	--	W7954 thru W7970 Series	282		1-5/8" (41mm) x 7/8" (22mm)
--	VC4000 Series	--	283	14 ga.	1-5/8" (41mm) x 13/16" (21mm)
--	VC9000 Series *	--	284 - 285	12 ga.	2-11/16" (68mm) x 1-7/8" (48mm)

* Flared Wedge Insert

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

Continuous Inserts

Our Inserts Are Shipped Fully Assembled,
Ready For Installation.
VERSABAR hook style inserts are available in VA-1, VA-4, VA-6, and V A-10 channel sizes, with either a galvanized or plain finish. Continuous inserts provide economical and convenient attachment points for all strut system components without the use of hazardous powder actuated fasteners or costly drilling. Connections can be made at any point along the slot opening by using lateral locking nuts or square insert nuts described in section B. Square nuts shown on page G-5 may be used with VC-1000, VC-6000 or VC-10000 Series inserts. VC-4000 inserts require nuts specifically designed for VA-4 channel as listed in Section B. Hook style anchors are lanced out of the channel spine and spaced as shown in the accompanying diagram. 3/16" diameter knock-outs are spaced at 9-inch intervals for nailing inserts to the form. Continuous hook style inserts are shipped ready for installation with factory installed Cello-Foam filler strip, taped spine openings, and end caps to prevent concrete seepage. Hook style inserts 18" or shorter are factory equipped with anchor style end caps.

NOTE: To reach maximum resistance to pull out of the nut in continuous concrete inserts, a fitting should be mounted on the slot surface and the rod or bolt connected. Without the exterior fitting, the nut pull out resistance is reduced to approximately one half the normal pull out
Pull out load ratings for channel nuts are shown on page 74 of this catalog.

NOTE Under no circumstances subject any channel insert to a load without a 1/4" thick fitting, bracket or pipe support, mounted on the channel slot surface.

Continuous Concrete Insert Part Number Selection Chart

For All Inserts on Pages 279 thru 282

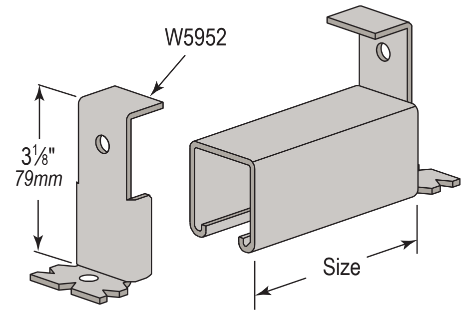
Continuous Concrete Insert Part Number Descriptions				
Base Profile Part Number	**Add Option Code**	**Description of Options**	**Add Finish Code**	**Completed Part Number**
W7270	N	Insert Only	PG	W7270NPG
W7270	C	Insert & End Caps Only	PG	W7270CPG
W7270	F	Insert, Tape, & Foam Only	PG	W7270FPG
W7270	FC	Insert, Tape, Foam, & End Caps	PG	W7270FCPG
W7270	E	Insert, Tape, & Ethafoam Only	PG	W7270EPG
W7270	EC	Insert, Tape, Ethafoam, & End Caps	PG	W7270ECPG
W7270	W	Insert & Welded Strip Only	PG	W7270WPG
W7270	WC	Insert, Welded Strip, & End Caps **	PG	W7270WCPG
W7270	WCC	Insert, Welded Strip, Closure Strip, & End Caps **	PG	W7270WCCPG
** Note: When using welded strip, plastic end caps will be used. Stainless steel sizes with Anchor end caps, the end caps will be hot dip galvanized				

Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-7⁄8" (48mm); Width: 1-5⁄8"(41mm); Thickness: 1⁄4" *(6mm)*

Standard Finish: Pre-Galvanized (PG)

Concrete Inserts - 1⅝" x 1⅝" - 12 Gauge

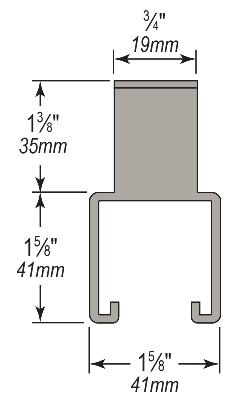
When ordering specify finish. Available in plain, pre-galvanized, hot dip galvanized after fabrication, type 304 and 316 stainless steel. Stainless steel sizes with Anchor end caps, the end caps will be hot dip galvanized
Refer to page 278 for continuous concrete insert part number selection chart to build complete part number based on desired options.



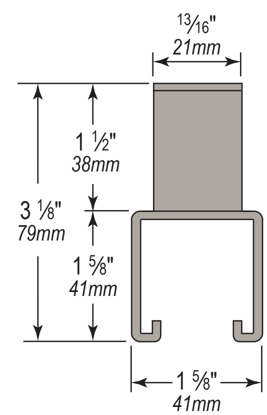
FLORIDA STRUT	VERSABAR ♦	WESANCO	Size	Safe Uniform Load per L.F. † Lbs. *(kN)*
	VC1003		3" *(76mm)*	
W7250	--	W7250	4" *(102mm)*	800 *(3.56 kN)*
W7251	VC1006	W7251	6" *(152mm)*	1000 *(4.45 kN)*
W7252	--	W7252	8" *(203mm)*	1200 *(5.34 kN)*
	VC1009		9" *(229mm)*	
W7253 *	VC1012	W7253 *	12" *(305mm)*	
W7254	--	W7254	16" *(406mm)*	
--	VC1018	--	18" *(457mm)*	
W7255	--	W7255	20" *(508mm)*	
W7256	VC1024	W7256	24" *(610mm)*	
	VC1030		30" *(762mm)*	
W7257	--	W7257	32" *(813mm)*	
W7257A	VC1036	W7257A	36" *(914mm)*	
W7258	--	W7258	40" *(1016mm)*	
--	VC1042	--	3' - 6" *(1.1m)*	
W7259	VC1048	W7259	4' - 0" *(1.2m)*	
--	VC1054	--	4' - 6" *(1.4m)*	
W7260	VC1060	W7260	5' - 0" *(1.5m)*	
--	VC1066	--	5' - 6" *(1.7m)*	
W7261	VC1072	W7261	6' - 0" *(1.8m)*	2000 *(8.90 kN)*
--	VC1078	--	6' - 6" *(2.0m)*	
W7262	VC1084	W7262	7' - 0" *(2.1m)*	
--	VC1090	--	7' - 6" *(2.3m)*	
W7263	VC1096	W7263	8' - 0" *(2.4m)*	
--	VC1102	--	8' - 6" *(2.6m)*	
W7264	VC1108	W7264	9' - 0" *(2.7m)*	
--	VC1114	--	9' - 6" *(2.9m)*	
W7265	VC1120	W7265	10' - 0" *(3.0m)*	
W7266	VC1144	W7266	12' - 0"*(3.6m)*	
W7267	VC1168	W7267	14' - 0" *(4.2m)*	
W7268	VC1192	W7268	16' - 0" *(4.8m)*	
W7269	VC1216	W7269	18' - 0" *(5.4m)*	
W7270	VC1240	W7270	20' - 0" *(6.1m)*	
--	VC1288	--	24' - 0" *(7.3m)*	

* W7253 utilizes tab channel (punched & anchor caps)
† Embedded in 3,000 psi or better concrete, Safety Factor = 3
♦ Versabar dimensions are different

FLORIDA STRUT **WESANCO**



VERSABAR



Concentrated load on the end 2" *(51mm)* of W7252 thru W7270 should not exceed 1000#. Inserts must be surrounded by sufficient concrete to conform to design shear stress. Concrete insert should be nailed to form every 16" to 24" *(406mm to 635mm)*

Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Concrete Inserts - 1⅝" x 1⅜" - 12 Gauge

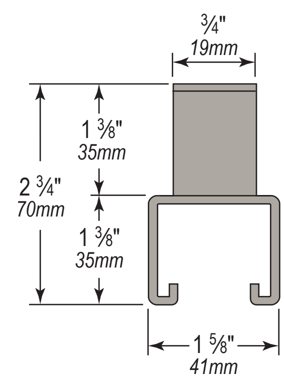
When ordering specify finish. Available in plain, pre-galvanized, hot dip galvanized after fabrication, type 304 and 316 stainless steel. Stainless steel sizes with Anchor end caps, the end caps will be hot dip galvanized

Refer to page 278 for continuous concrete insert part number selection chart to build complete part number based on desired options.

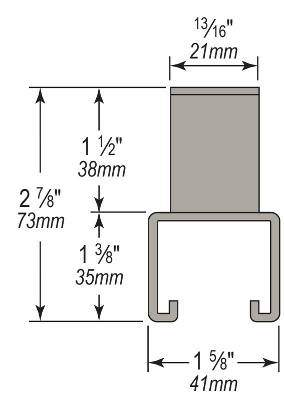
FLORIDA STRUT	VERSABAR ♦	WESANCO	Size	Safe Uniform Load per L.F. † Lbs. *(kN)*
--	VC6003	--	3" *(76mm)*	
W7350	--	W7350	4" *(102mm)*	800 *(3.56 kN)*
W7351	VC6006	W7351	6" *(152mm)*	1000 *(4.45 kN)*
W7352	--	W7352	8" *(203mm)*	1200 *(5.34 kN)*
--	VC6009	--	9" *(229mm)*	
W7353 *	VC6012	W7353 *	12" *(305mm)*	2000 *(8.90 kN)*
W7354	--	W7354	16" *(406mm)*	
--	VC6018	--	18" *(457mm)*	
W7355	--	W7355	20" *(508mm)*	
W7356	VC6024	W7356	24" *(610mm)*	
--	VC6030	--	30" *(762mm)*	
W7357	--	W7357	32" *(813mm)*	
W7357A	VC6036	W7357A	36" *(914mm)*	
W7358	--	W7358	40" *(1016mm)*	
--	VC6042	--	3' - 6" *(1.1m)*	
W7359	VC6048	W7359	4' - 0" *(1.2m)*	
--	VC6054	--	4' - 6" *(1.4m)*	
W7360	VC6060	W7360	5' - 0" *(1.5m)*	
--	VC6066	--	5' - 6" *(1.7m)*	
W7361	VC6072	W7361	6' - 0" *(1.8m)*	
--	VC6078	--	6' - 6" *(2.0m)*	
W7362	VC6084	W7362	7' - 0" *(2.1m)*	
--	VC6090	--	7' - 6" *(2.3m)*	
W7363	VC6096	W7363	8' - 0" *(2.4m)*	
--	VC6102	--	8' - 6" *(2.6m)*	
W7364	VC6108	W7364	9' - 0" *(2.7m)*	
--	VC6114	--	9' - 6" *(2.9m)*	
W7365	VC6120	W7365	10' - 0" *(3.0m)*	
W7366	VC6144	W7366	12' - 0"*(3.6m)*	
W7367	VC6168	W7367	14' - 0" *(4.2m)*	
W7368	VC6192	W7368	16' - 0" *(4.8m)*	
W7369	VC6216	W7369	18' - 0" *(5.4m)*	
W7370	VC6240	W7370	20' - 0" *(6.1m)*	
--	VC6288	--	24' - 0" *(7.3m)*	

* W7353 utilizes tab channel (punched & anchor caps)
† Embedded in 3,000 psi or better concrete, Safety Factor = 3
♦ Versabar dimensions are different

FLORIDA STRUT   WESANCO



VERSABAR



Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

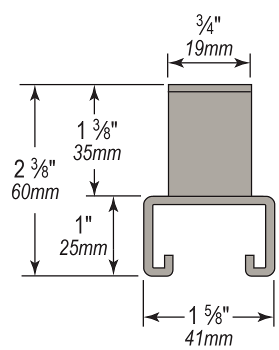
Concrete Inserts - 1⅝" x 1" - 12 Gauge

When ordering specify finish. Available in plain, pre-galvanized, hot dip galvanized after fabrication, type 304 and 316 stainless steel. Stainless steel sizes with Anchor end caps, the end caps will be hot dip galvanized
Refer to page 278 for continuous concrete insert part number selection chart to build complete part number based on desired options.

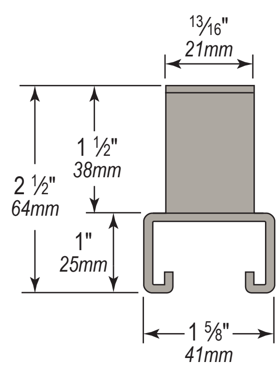
FLORIDA STRUT	VERSABAR ♦	WESANCO	Size	Safe Uniform Load per L.F. † Lbs. *(kN)*
--	VC10003	--	3" *(76mm)*	
W7550	--	W7550	4" *(102mm)*	500 *(2.22 kN)*
W7551	VC10006	W7551	6" *(152mm)*	750 *(3.34 kN)*
W7552	--	W7552	8" *(203mm)*	1000 *(4.45 kN)*
--	VC10009	--	9" *(229mm)*	
W7553 *	VC10012	W7553 *	12" *(305mm)*	1500 *(6.67 kN)*
W7554	--	W7554	16" *(406mm)*	
--	VC10018	--	18" *(457mm)*	
W7555	--	W7555	20" *(508mm)*	
W7556	VC10024	W7556	24" *(610mm)*	
--	VC10030	--	30" *(762mm)*	
W7557	--	W7557	32" *(813mm)*	
W7557A	VC10036	W7557A	36" *(914mm)*	
W7558	--	W7558	40" *(1016mm)*	
--	VC10042	--	3' - 6" *(1.1m)*	
W7559	VC10048	W7559	4' - 0" *(1.2m)*	
--	VC10054	--	4' - 6" *(1.4m)*	
W7560	VC10060	W7560	5' - 0" *(1.5m)*	
--	VC10066	--	5' - 6" *(1.7m)*	
W7561	VC10072	W7561	6' - 0" *(1.8m)*	
--	VC10078	--	6' - 6" *(2.0m)*	
W7562	VC10084	W7562	7' - 0" *(2.1m)*	
--	VC10090	--	7' - 6" *(2.3m)*	
W7563	VC10096	W7563	8' - 0" *(2.4m)*	
--	VC10102	--	8' - 6" *(2.6m)*	
W7564	VC10108	W7564	9' - 0" *(2.7m)*	
--	VC10114	--	9' - 6" *(2.9m)*	
W7565	VC10120	W7565	10' - 0" *(3.0m)*	
W7566	VC10144	W7566	12' - 0" *(3.6m)*	
W7567	VC10168	W7567	14' - 0" *(4.2m)*	
W7568	VC10192	W7568	16' - 0" *(4.8m)*	
W7569	VC10216	W7569	18' - 0" *(5.4m)*	
W7570	VC10240	W7570	20' - 0" *(6.1m)*	
--	VC10288	--	24' - 0" *(7.3m)*	

* W7553 utilizes tab channel (punched & anchor caps)
† Embedded in 3,000 psi or better concrete, Safety Factor = 3
♦ Versabar dimensions are different

FLORIDA STRUT WESANCO



VERSABAR



Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

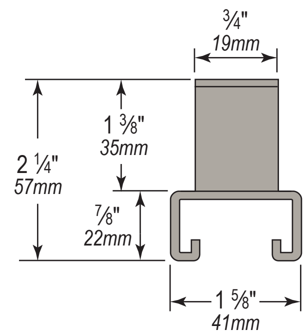
Concrete Inserts - 1⅝" x ⅞" - 12 Gauge

When ordering specify finish. Available in plain, pre-galvanized, hot dip galvanized after fabrication, type 304 and 316 stainless steel. Stainless steel sizes with Anchor end caps, the end caps will be hot dip galvanized
Refer to page 278 for continuous concrete insert part number selection chart to build complete part number based on desired options.

FLORIDA STRUT	VERSABAR	WESANCO	Size	Safe Uniform Load per L.F. † Lbs. *(kN)*
W7954	--	W7954	16" *(406mm)*	1,500 *(6.67 kN)*
W7955	--	W7955	20" *(508mm)*	
W7956	--	W7956	24" *(610mm)*	
W7957	--	W7957	32" *(813mm)*	
W7957A	--	W7957A	36" *(914mm)*	
W7958	--	W7958	40" *(1016mm)*	
W7959	--	W7959	4' - 0" *(1.2m)*	
W7960	--	W7960	5' - 0" *(1.5m)*	
W7961	--	W7961	6' - 0" *(1.8m)*	
W7962	--	W7962	7' - 0" *(2.1m)*	
W7963	--	W7963	8' - 0" *(2.4m)*	
W7964	--	W7964	9' - 0" *(2.7m)*	
W7965	--	W7965	10' - 0" *(3.0m)*	
W7966	--	W7966	12' - 0"*(3.6m)*	
W7967	--	W7967	14' - 0" *(4.2m)*	
W7968	--	W7968	16' - 0" *(4.8m)*	
W7969	--	W7969	18' - 0" *(5.4m)*	
W7970	--	W7970	20' - 0" *(6.1m)*	

* W7953 utilizes tab channel (punched & anchor caps)
† Embedded in 3,000 psi or better concrete, Safety Factor = 3

FLORIDA STRUT WESANCO



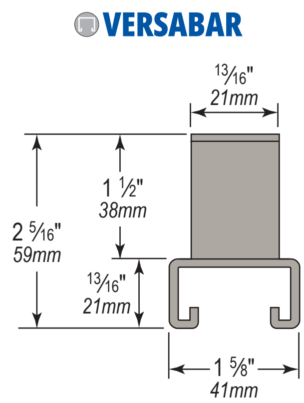
Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Standard Finish: Pre-Galvanized (PG)

Concrete Inserts - 1⅝" x 13⁄16" - 14 Gauge

When ordering specify finish. Available in plain, pre-galvanized, hot dip galvanized after fabrication, type 304 and 316 stainless steel. Stainless steel sizes with Anchor end caps, the end caps will be hot dip galvanized
Refer to page 278 for continuous concrete insert part number selection chart to build complete part number based on desired options.

FLORIDA STRUT	VERSABAR	WESANCO	Size	Safe Uniform Load per L.F. † Lbs. *(kN)*
--	VC4009	--	9" *(229mm)*	
--	VC4012	--	12" *(305mm)*	1200 *(5.34 kN)*
--	VC4018	--	18" *(457mm)*	
--	VC4024	--	24" *(610mm)*	
--	VC4030	--	30" *(762mm)*	
--	VC4036	--	36" *(914mm)*	
--	VC4042	--	3' - 6" *(1.1m)*	
--	VC4048	--	4' - 0" *(1.2m)*	
--	VC4054	--	4' - 6" *(1.4m)*	
--	VC4060	--	5' - 0" *(1.5m)*	
--	VC4066	--	5' - 6" *(1.7m)*	
--	VC4072	--	6' - 0" *(1.8m)*	
--	VC4078	--	6' - 6" *(2.0m)*	
--	VC4084	--	7' - 0" *(2.1m)*	
--	VC4090	--	7' - 6" *(2.3m)*	
--	VC4096	--	8' - 0" *(2.4m)*	
--	VC4102	--	8' - 6" *(2.6m)*	
--	VC4108	--	9' - 0" *(2.7m)*	
--	VC4114	--	9' - 6" *(2.9m)*	
--	VC4120	--	10' - 0" *(3.0m)*	
--	VC4144	--	12' - 0"*(3.6m)*	
--	VC4168	--	14' - 0" *(4.2m)*	
--	VC4192	--	16' - 0" *(4.8m)*	
--	VC4216	--	18' - 0" *(5.4m)*	
--	VC4240	--	20' - 0" *(6.1m)*	
--	VC4288	--	24' - 0" *(7.3m)*	
† Embedded in 3,000 psi or better concrete, Safety Factor = 3				

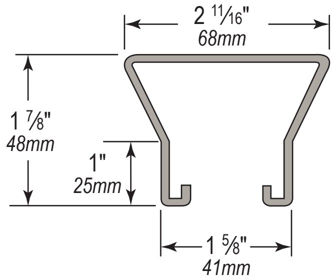


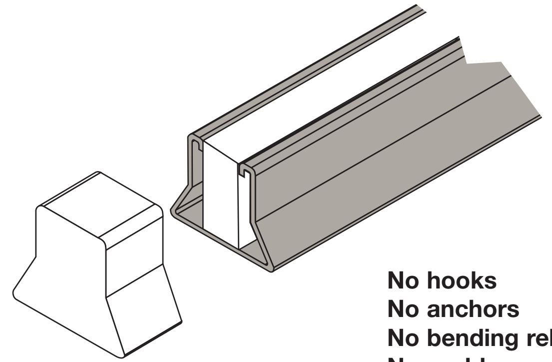
Hole Diameter: 9⁄16" *(14mm)*; Hole Spacing - From End: 13⁄16" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Introduction
Channel
Channel Nuts & Hardware
General Fittings
Brackets
Beam Clamps
Pipe & Conduit Supports
Electrical Fittings
Spring Steel
Concrete Inserts
Rooftop Supports
Technical Data

Standard Finish: Pre-Galvanized (PG)

Flared Wedge Concrete Inserts - $1\frac{5}{8}$" x $1\frac{7}{8}$" x $2\frac{11}{16}$" - 12 Gauge





No hooks
No anchors
No bending rebars
No problems

FLORIDA STRUT	VERSABAR	WESANCO	Size
--	VC9004	--	4" *(102mm)*
--	VC9006	--	6" *(152mm)*
--	VC9009	--	9" *(229mm)*
--	VC9012	--	12" *(305mm)*
--	VC9018	--	18" *(457mm)*
--	VC9024	--	24" *(610mm)*
--	VC9030	--	30" *(762mm)*
--	VC9036	--	36" *(914mm)*
--	VC9042	--	3' - 6" *(1.1m)*
--	VC9048	--	4' - 0" *(1.2m)*
--	VC9054	--	4' - 6" *(1.4m)*
--	VC9060	--	5' - 0" *(1.5m)*
--	VC9066	--	5' - 6" *(1.7m)*
--	VC9072	--	6' - 0" *(1.8m)*
--	VC9078	--	6' - 6" *(2.0m)*
--	VC9084	--	7' - 0" *(2.1m)*
--	VC9090	--	7' - 6" *(2.3m)*
--	VC9096	--	8' - 0" *(2.4m)*
--	VC9102	--	8' - 6" *(2.6m)*
--	VC9108	--	9' - 0" *(2.7m)*
--	VC9114	--	9' - 6" *(2.9m)*
--	VC9120	--	10' - 0" *(3.0m)*
--	VC9144	--	12' - 0"*(3.6m)*
--	VC9168	--	14' - 0" *(4.2m)*
--	VC9192	--	16' - 0" *(4.8m)*
--	VC9216	--	18' - 0" *(5.4m)*
--	VC9240	--	20' - 0" *(6.1m)*
--	VC9288	--	24' - 0" *(7.3m)*

Introducing the Versabar VC9000 Flared Wedge Insert

The VC9000 inserts exceptional load-bearing capacity is not dependent upon pierced or welded anchor hooks of any kind. The elimination of sharp edged hooks and straps makes the handling and installation of the VC9000 much safer, faster, and more economical. Its overall height is only 1-$\frac{7}{8}$". This low profile permits the VC9000 to be installed between reinforcing bars and forms, and other locations with shallow clearances. Its unique design precludes the possibility of installers bending anchors to avoid obstructions, thereby creating hidden load capacity reduction hazards of unknown magnitude. The VC9000's solid back design eliminates concrete seepage through spine openings and thereby avoids costly chipping needed to remove hardened seepage.

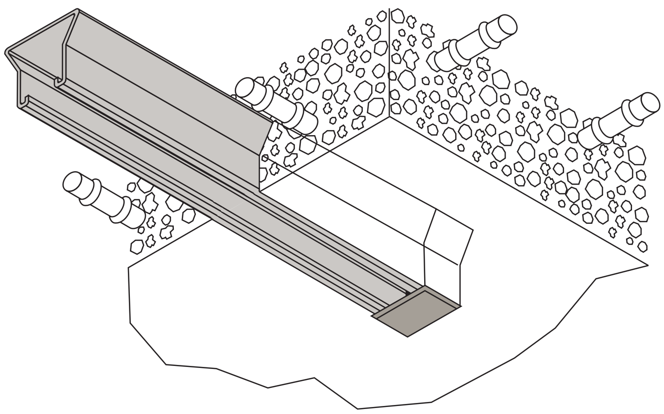
The VC9000 has a standard strut slot configuration, and accepts all standard strut system related components. Connections can be made at any point along the slot opening by using channel nuts, lateral locking nuts or square nuts.

Our flared wedge design causes the concrete to encase the VC9000 during pouring, minimizing formation of air pockets. The flared wedge shape locks the insert securely within the concrete and gives the VC9000 superior loading capacity directly related to the concrete strength curve as described on the next page. This exceptional strength characteristic is inherently with modern concrete construction practices, and highly desirable in the pre-cast and pre-stressed concrete fields.

Hole Diameter: $\frac{9}{16}$" *(14mm)*; Hole Spacing - From End: $\frac{13}{16}$" (21mm); Hole Spacing - On Center: 1-$\frac{7}{8}$" (48mm); Width: 1-$\frac{5}{8}$"(41mm); Thickness: $\frac{1}{4}$" *(6mm)*

Flared Wedge Concrete Inserts

1⅝" x 1⅞" x 2¹¹⁄₁₆" - 12 Gauge



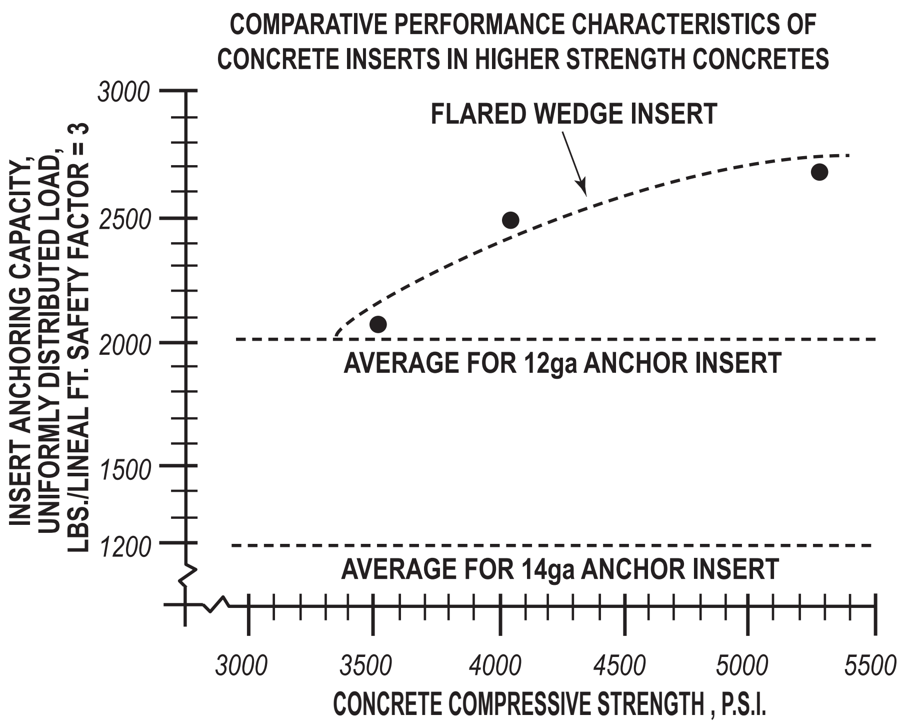
Concrete Strength	Uniform Design Load per L.F. † Lbs. *(kN)*
3,500 psi	2,100 *(9.34 kN)*
4,000 psi	2,500 *(11.12 kN)*
5,300 psi	2,650 *(11.79 kN)*
† Safety Factor = 3	

Unlike hook type inserts, higher stress concrete increases VC9000 loading capabilities

The VC9000's distinctive shape, consisting of a standard strut channel backed by an abruptly flared wedge, is a multi-purpose design. In addition to incorporating the anchoring wedge, the design gives the insert an extremely rigid beam strength. This stiff beam characteristic helps the VC9000 to distribute concentrated spot loads over its embedded length with maximum efficiency. Thus the VC9000 minimizes spot loadings on the supporting concrete and simultaneously eliminates cracking problems caused by sharp edges of hook anchors which act as stress risers.

The VC9000 does not rely on hooks or straps to anchor its load to the concrete but rather distributes the load evenly upon mating surfaces of concrete and insert wedge area. Hook and strap inserts have an anchoring capacity determined by the anchor's resistance to pull out. Loading failures of this type insert are generally characterized by straightening or tearing of the hooks or straps during pull out If the anchors are welded to the insert, then weld failure can further lower 6 the loading capacity. Increasing the concrete's compressive strength above the minimum required does not increase the hook or strap style insert's loading capacity. Since the VC9000's flared wedge locks the load within the encasing concrete, then by increasing the concrete's strength, the VC9000's loading capacity is increased. Because the VC9000 has this unique loading characteristic, designers can take best advantage of the extra supportive strength automatically provided by the modern higher strength concretes.

NOTE: To reach maximum resistance to pull out of the nut in continuous concrete inserts, a fitting should be mounted on the slot surface and the rod or bolt connected. Without an exterior fitting, nut pull out resistance is reduced to approximately one half of the normal load rating. Pull out load ratings for channel nuts are shown on page 74. VCN style concrete insert nuts also work with VC9000 and can be found on page 276.

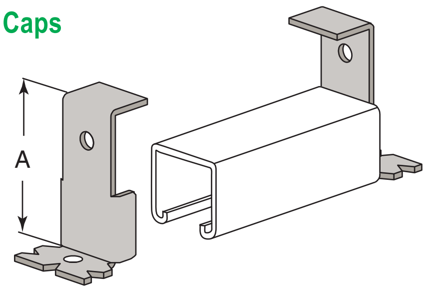


Hole Diameter: ⁹⁄₁₆" *(14mm)*; Hole Spacing - From End: ¹³⁄₁₆" (21mm); Hole Spacing - On Center: 1-⅞" (48mm); Width: 1-⅝"(41mm); Thickness: ¼" *(6mm)*

Concrete Inserts

Standard Finish: Pre-Galvanized (PG)

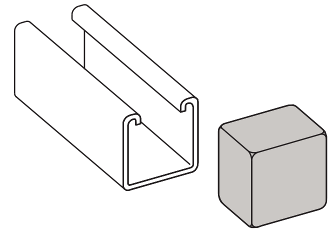
Anchor End Caps



FLORIDA STRUT	VERSABAR	WESANCO	A Height	Channel Usage
CI20	VF2002	W5952	3-1/8" *(79mm)*	1-5/8"
CI21	VF20026 *	W5953	2-3/4" *(70mm)*	1-3/8"
--	VF200210 *	W5958	2-3/8" *(60mm)*	1"
--	--	W5959	2-1/4" *(57mm)*	7/8"
--	VF20024	--	2-5/16" *(59mm)*	13/16"

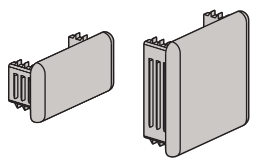
* Height is slightly different, check with representative

Cover Plastic End Caps



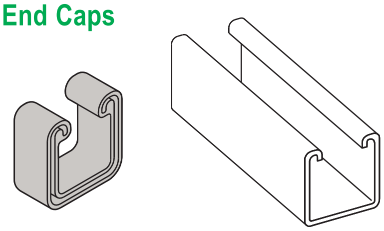
FLORIDA STRUT	VERSABAR	WESANCO	Color	Channel Usage
--	VF100111PL	W5900	White	3-1/4", or 1-5/8" Back to Back
--	--	--	Red	
EC090000VC	VF10011PL	W5930	White	1-5/8" or 13/16" Back-to-Back
EC09000RVC	--	--	Red	
EC080000VC	VF10014PL	W5935	White	13/16"
EC08000RVC	--	--	Red	
--	VF10019	--	White	1-5/8" x1-7/8" x 2-11/16"

Polyurethane End Caps



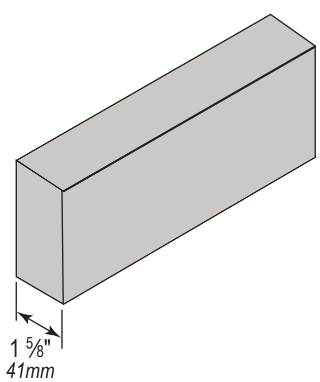
FLORIDA STRUT	VERSABAR	WESANCO	Color	Channel Usage
--	--	B5920PLASTICWHT	White	1-5/8"
--	--	B5920PLASTICRED	Red	
--	--	B5925PLASTICWHT	White	13/16" & 7/8
--	--	B5925PLASTICRED	Red	

Form Fit Plastic End Caps



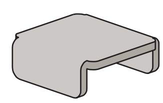
FLORIDA STRUT	VERSABAR	WESANCO	Channel Usage
--	--	W5900-M	1-5/8" Back to Back 12 gauge
--	--	W5930-M	1-5/8" - 12 gauge 1-5/8" - 14 Gauge
--	--	W5935-M	13/16" - 14 Gauge

EPS Foam Filler



FLORIDA STRUT	VERSABAR	WESANCO	Channel Usage
--	VF2004	--	1-5/8" - 12 gauge
--	VF2004-4	--	1-3/8"- 12 gauge
--	VF2004-6	--	1"- 12 gauge
--	VF2004-10	--	13/16" - 14 Gauge

End Caps



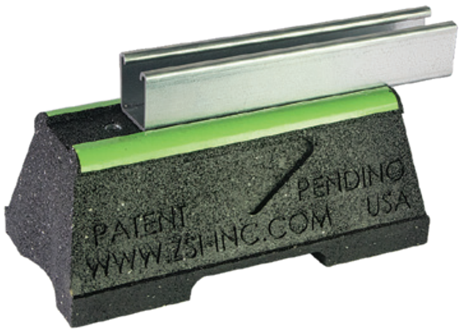
FLORIDA STRUT	VERSABAR	WESANCO	Channel Usage
--	VF100111	--	3-1/4" - 12 gauge
--	VF10013	--	2-1/2" - 12 gauge
--	--	W5910	2-7/16" - 12 gauge
EC10	VF1001	W5930	1-5/8" - 12 gauge
EC11	VF10012	W5931	1-5/8" - 14 Gauge
--	VF10016	W5933	1-3/8"- 12 gauge
--	VF10017	--	1-3/8"- 14 gauge
--	VF100110	W5938	1"- 12 gauge
--	VF10018	--	1"- 14 gauge
EC12	--	W5935	7/8" - 12 gauge
--	VF100113	--	13/16" - 12 gauge
EC12	VF10014	W5935	13/16" - 14 Gauge
--	VF10015	--	13/16" - 16 Gauge

Hole Diameter: 9/16" *(14mm)*; Hole Spacing - From End: 13/16" (21mm); Hole Spacing - On Center: 1-7/8" (48mm); Width: 1-5/8"(41mm); Thickness: 1/4" *(6mm)*

Cush-A-Block® Rooftop Supports

75% Faster Strut Install and Change-Out

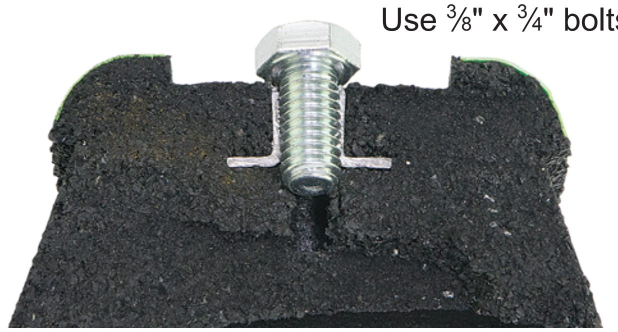
Built-in Channel Guide



Straight Strut Installation

Embedded Fasteners

Use ⅜" x ¾" bolts

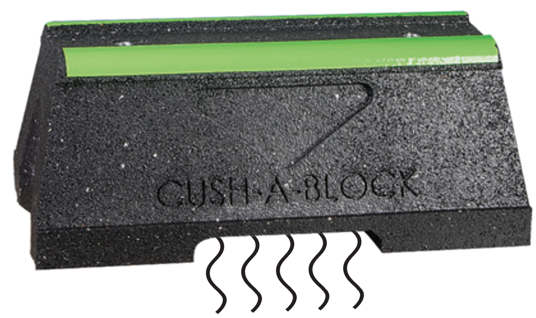


No Rust on the Roof

Easy-carry Hand Grip

Simple to Lift and Carry

Water Flow-through



Helps Prevent Mold and Ice Dams

- 100% Recycled Rubber Qualifies for LEED Credits
- Meets the Buy America Act and American Reinvestment Recovery Act
- Resistant to Freeze and Thaw

- Dampens Vibrations
- Compatible with Most Rooftop Materials
- Eco-Green Reflective Safety Strip Won't Peel or Flake

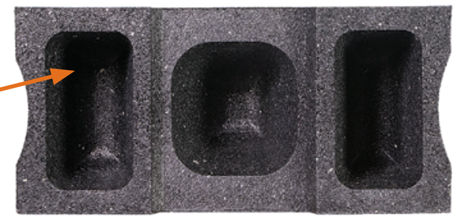
Cush-A-Block is manufactured under U.S. patent D824749 and one pending, and Canadian patents #175942 and one pending

Solar Racking | Pipe & Conduit | HVAC | Rooftop Walkways

The channel for Cush-A-Block support assemblies includes a variety of options. The strut can be made in special lengths, finishes, and alloys including Aluminum, Stainless Steel both 304 & 316, PVC coated, Powder coated, Zinc Trivalent Chromium, Pre-Galvanized and Hot Dipped Galvanized.

See page 25 for Material or Finish ordering codes for part numbers.

Embedded nut eliminates any thru holes and prevents leaks or any rust from forming on the underside of the fastener.

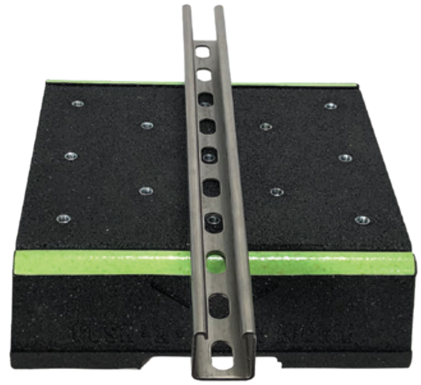


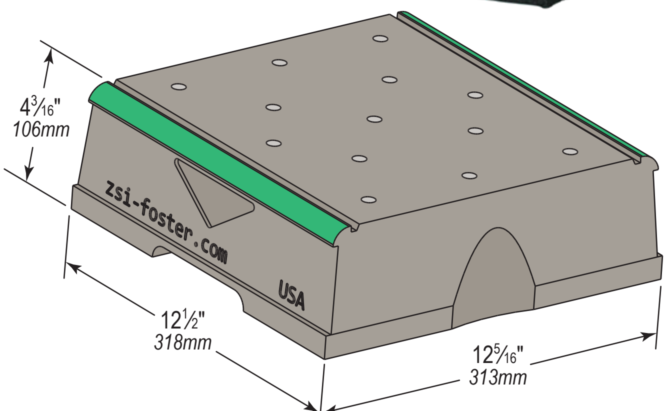
Call ZSi-Foster at (800) 323-7053 or order now at zsi-foster.com

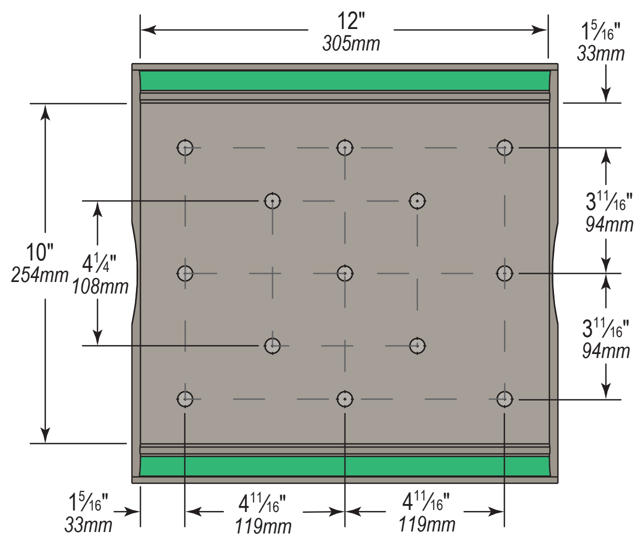
Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

CBB "Biggie" Series

Plain Base



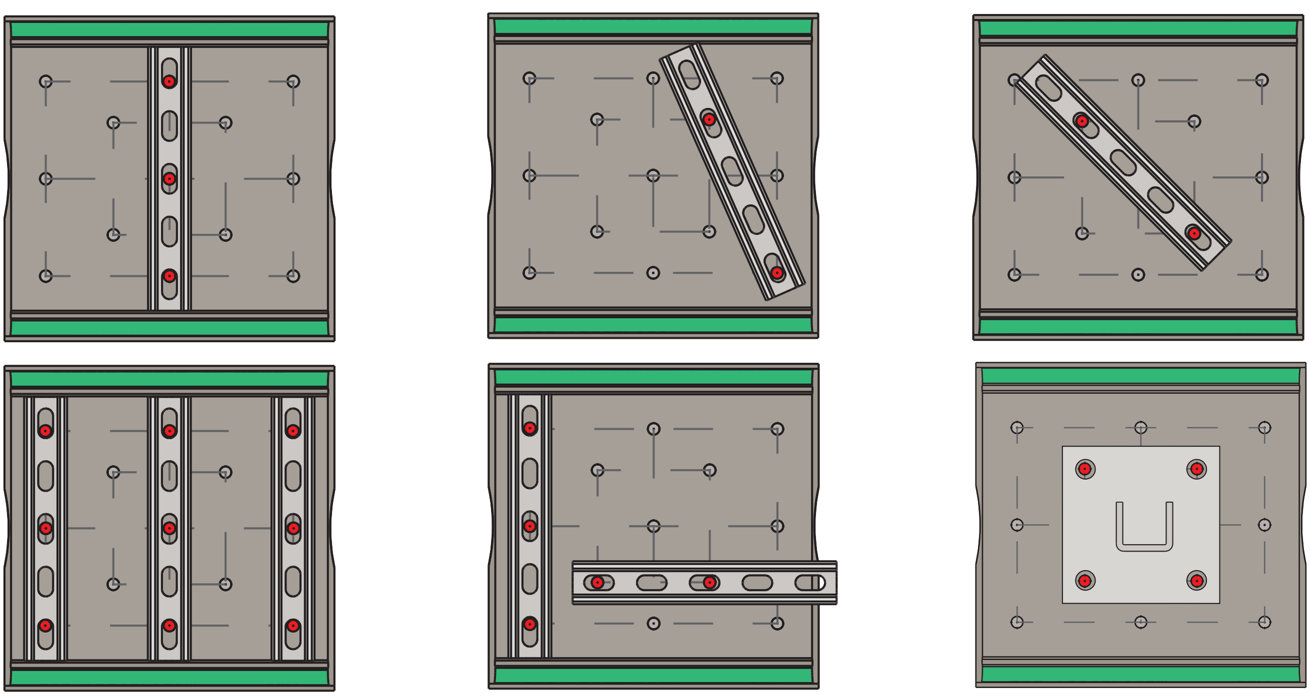




CBB "Biggie" Block Base	
Part No.	**Uniform Load Capacity Lbs (kN)***
CBB	7,500 * *(33.36 kN)*

* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity.

Embedded Fastener Layout Provides an Amazing Variety of Channel or Fitting Options



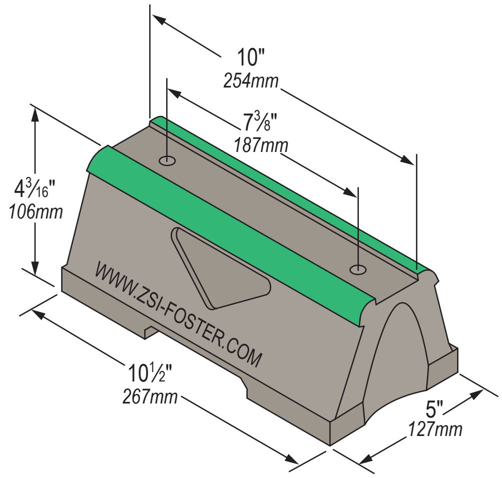
WARNING: Cancer and Reproductive Harm Warning. For more information go to www.P65Warnings.ca.gov.

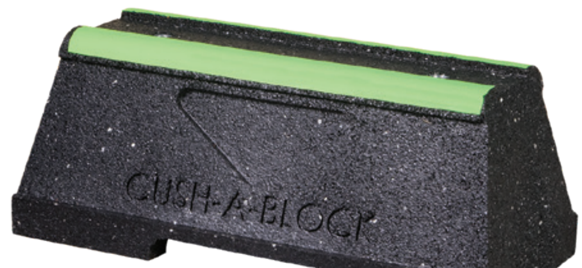
Cush-A-Block® Rooftop Supports

Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

CBN Series

Plain Base





Note: The embedded fasteners are conveniently spaced to allow attachment of slotted channel.

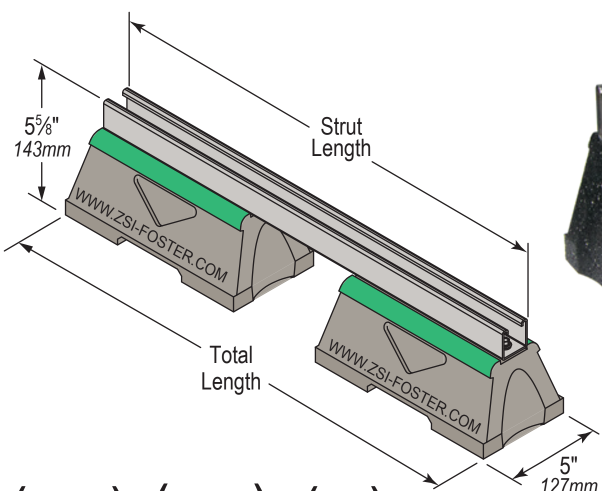
The CBN-Base Rooftop Support is UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Can be used as a curb (sleeper) replacement. Screw fasteners can be used to attach one or two hole pipe straps or a piece of strut (not included).

CBN-Base Series	
Part No.	**Uniform Load Capacity Lbs (kN)***
CBN	2,500 * *(11.12 kN)*

* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.

CBN-BR Bridge Series

Support With Channel



(Total Length) = (Strut Length) + (½" *13mm*)

Like all of the Cush-A-Block supports, the CBN-BR Bridge Rooftop Supports are perfect for supporting natural gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

The CBN-BR Series provides a longer mounting surface with strut lengths up to 60" *(1.5m)*. Custom lengths are available upon request.

Standard strut mount pipe clamps are used to secure the pipes.

CBN-BR Bridge Series Supports with 1-⅝" *(41mm)* Pre-Galv. or Hot Dip Galv. Steel Channel			
Part No.	**Strut Length**	**Total Length**	**Uniform Load Lbs (kN)***
CBN28BR	28" *(711mm)*	28-½" *(724mm)*	1,491* *(6.63 kN)*
CBN36BR	36" *(914mm)*	36-½" *(927mm)*	1,160* *(5.15 kN)*
CBN42BR	42" *(1m)*	42-½" *(1.08m)*	994* *(4.42 kN)*
CBN50BR	50" *(1.2m)*	50-½" *(1.28m)*	835* *(3.71 kN)*
CBN60BR	60" *(1.5m)*	60-½" *(1.54m)*	696* *(3.09 kN)*

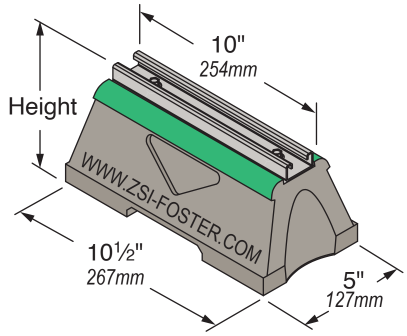
* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.

Cush-A-Block® Rooftop Supports

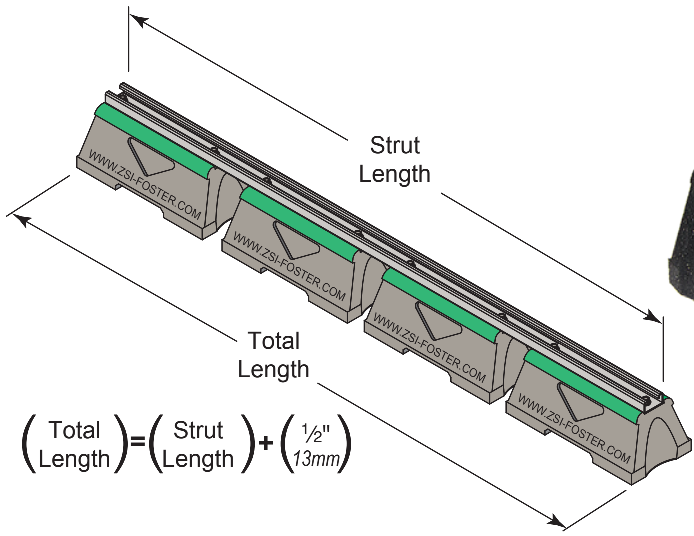
Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

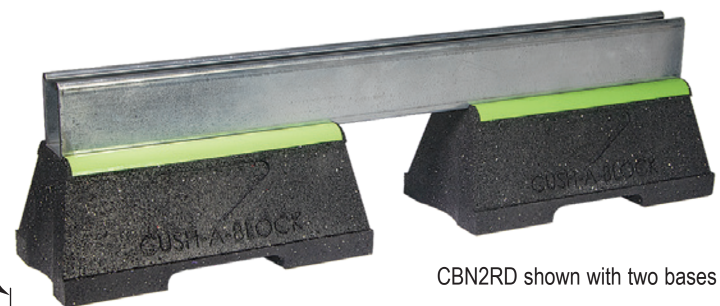
CBN Series

Support With Metal Channel



Shown with 13/16" Strut





CBN2RD shown with two bases

The CBN Series provides a longer mounting surface with strut lengths up to 46.82" *(1.2m)*. Custom lengths are available upon request

Part No.	No. of Bases	Height	Strut Length	Total Length	Uniform Load Lbs (kN)*
CBN-Support With 13/16" *(21mm)* Pre-Galv. or Hot Dip Galv. Steel Channel					
CBN1S	1	4-13/16" *(122mm)*	10" *(254mm)*	10-½" *(267mm)*	2,500 * *(11.12 kN)*
CBN2S	2		24" *(610mm)*	24-½" *(622mm)*	5,000 * *(22.24 kN)*
CBN3S	3		38" *(965mm)*	38-½" *(978mm)*	7,500 * *(33.36 kN)*
CBN4S	4		52" *(1.32m)*	52-½" *(1.33m)*	10,000 * *(44.48 kN)*
CBN-Support With 1-5/8" *(41mm)* Pre-Galv. or Hot Dip Galv. Steel Channel					
CBN1D	1	5-5/8" *(143mm)*	10" *(254mm)*	10-½" *(267mm)*	2,500 * *(11.12 kN)*
CBN2D	2		24" *(610mm)*	24-½" *(622mm)*	5,000 * *(22.24 kN)*
CBN3D	3		38" *(965mm)*	38-½" *(978mm)*	7,500 * *(33.36 kN)*
CBN4D	4		52" *(1.32m)*	52-½" *(1.33m)*	10,000 * *(44.48 kN)*
CBN Support With 2-7/16" *(62mm)* Pre-Galv. or Hot Dip Galv. Steel Channel					
CBN1RD	1	6-7/16" *(164mm)*	10" *(254mm)*	10-½" *(267mm)*	2,500 * *(11.12 kN)*
CBN2RD	2		24" *(610mm)*	24-½" *(622mm)*	5,000 * *(22.24 kN)*
CBN3RD	3		38" *(965mm)*	38-½" *(978mm)*	7,500 * *(33.36 kN)*
CBN4RD	4		52" *(1.32m)*	52-½" *(1.33m)*	10,000 * *(44.48 kN)*

* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity.

Cush-A-Block® Rooftop Supports

Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

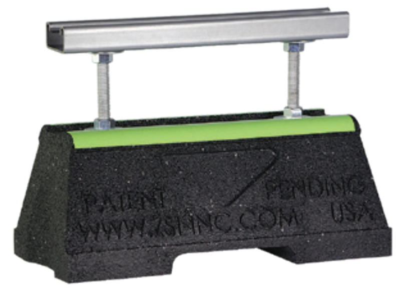
CBN-EX Series

Support With Raised Channel

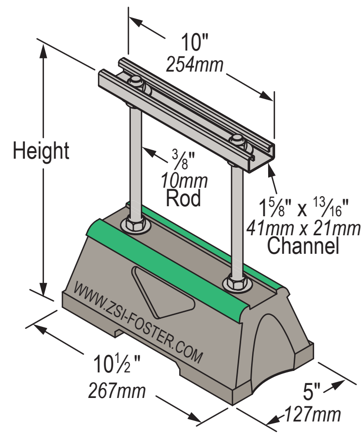
CBN-BR Extension Rooftop Supports are perfect for supporting natural gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

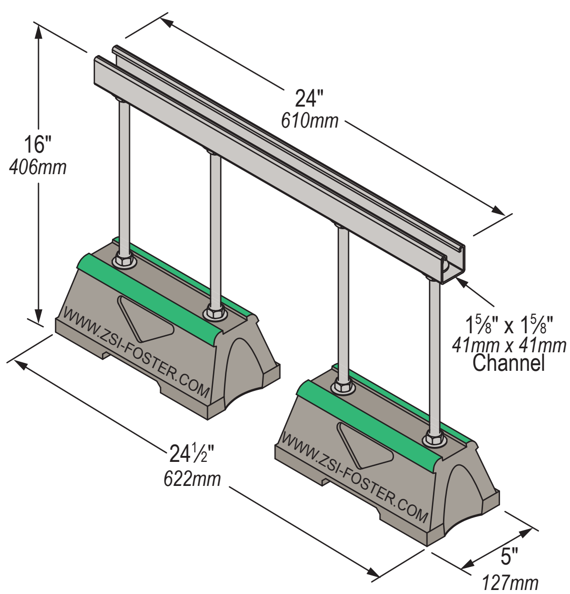
Standard strut mount pipe clamps are used to secure the pipes. Custom lengths are available upon request.

CBN8EX,
CBN12EX



CBN16EX





CBN-EX Extension Series Support with 3/8" Threaded Rod Extension and Pre-Galv. or Hot Dip Galv. Steel Channel

Part No.	No. of Bases	Height	Strut Size	Uniform Load Lbs (kN) *
CBN8EX	1	8" *(203mm)*	13/16" *(21mm)*	1,000 * *(4.44 kN)*
CBN12EX	1	12" *(305mm)*		1,000 * *(4.44 kN)*
CBN16EX	2	16" *(406mm)*	1-5/8" *(41mm)*	2,000 * *(8.89 kN)*

* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity.

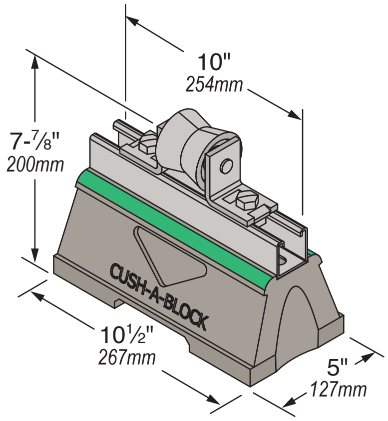
Cush-A-Block® Rooftop Supports

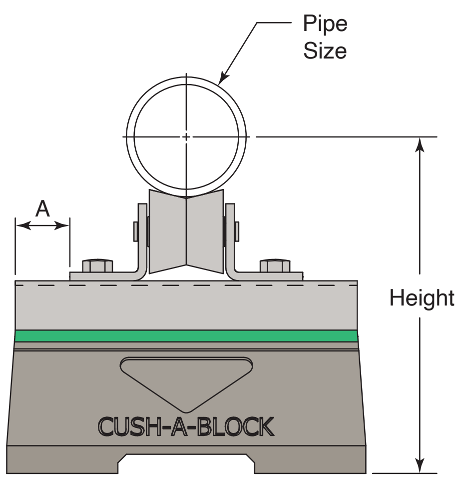
Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

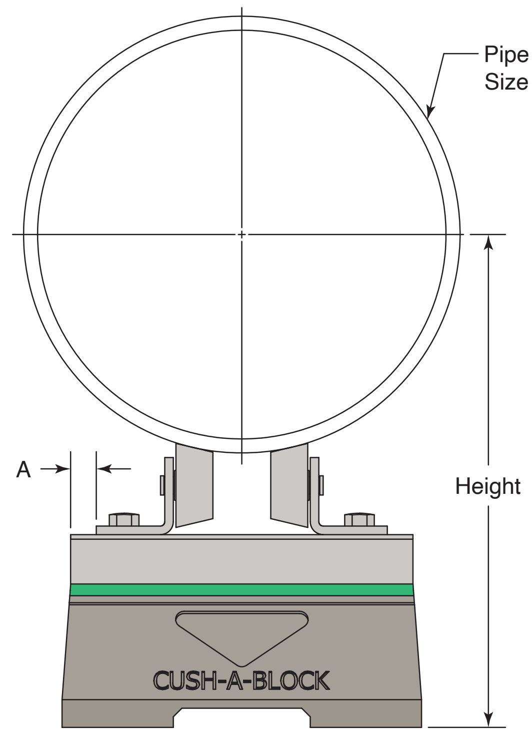
CBN-PRB Series

Support With Pipe Roller

The CBN-PRB Rooftop Supports are designed for superior support of natural gas and refrigeration pipes. The roller allows for longitudinal movements of the pipe. This support is suitable for most types of roofing material or other flat surfaces.







CBN-PRB Roller-Series with 1-⅝" *(41mm)* Pre-Galv or Hot Dip Galv. Steel Channel with Rollers				
Part No.	**Pipe Size (O.D.)**	**Height**	**A**	**Uniform Load Lbs (kN)***
CBNPRB	1"	8.707" *(221mm)*	1.594" *(40mm)*	2,500 * *(11.12 kN)*
	1-½"	9.008" *(229mm)*		
	2"	9.252" *(235mm)*		
	2-½"	9.509" *(242mm)*		
	3"	9.831" *(250mm)*		
	4"	10.345" *(263mm)*		
	6"	11.437" *(291mm)*		
	8"	12.323" *(313mm)*	1.000" *(25mm)*	
	12"	14.384" *(365mm)*	0.750" *(19mm)*	
	18"	16.904" *(429mm)*	0" *(0mm)*	

* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity.

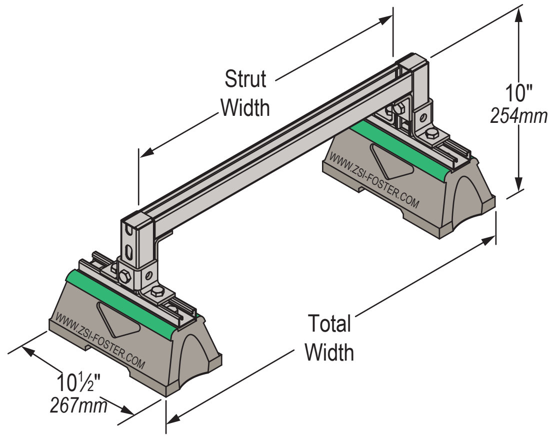
Cush-A-Block® Rooftop Supports

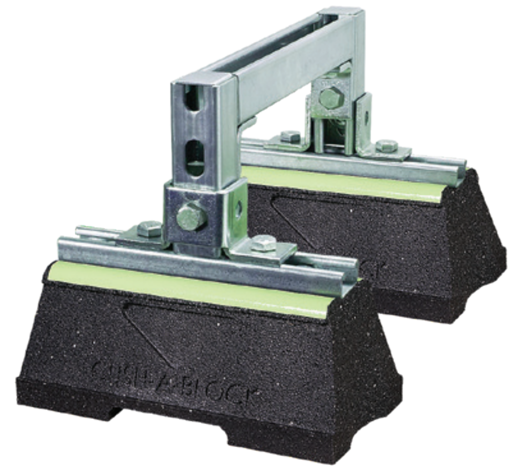
Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

IDEAL TRIDON GROUP

CBN-RB Series

Support With Raised Bridge Medium Support





The CBN-RB Medium Rooftop Supports can support natural gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications. They are designed for rooftop applications requiring a heavier load bearing capacity, and are suitable for most types of roofing material or other flat surfaces. Custom lengths are available upon request.

Standard strut mount pipe clamps are used to secure the pipes.

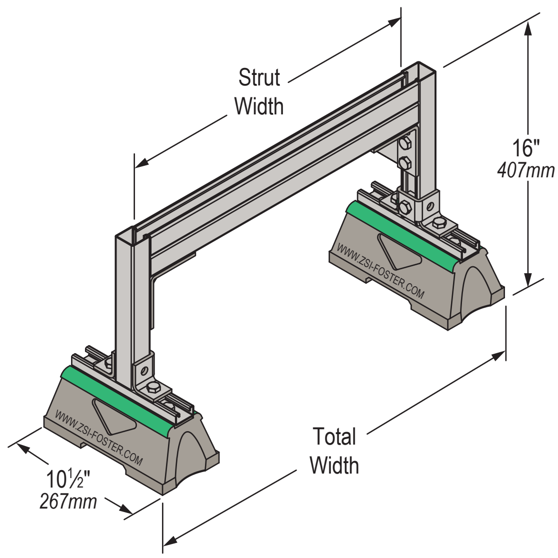
Raised Bridge Medium Support with 2 CBN Bases & 1-5/8" *(41mm)* Pre-Galv or Hot Dip Galv. Steel Channel

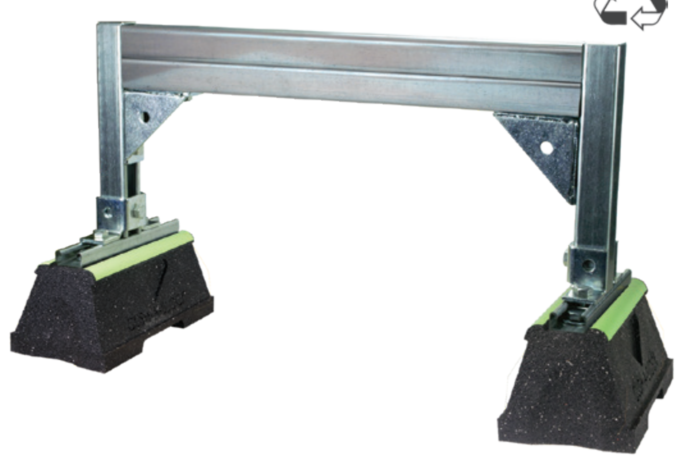
Part No.	Total Width	Strut Width	Uniform Load Lbs (kN)*
CBN1RB	18.65" *(474mm)*	12" *(305mm)*	3,000 * *(13.34 kN)*
CBN2RB	30.65" *(779mm)*	24" *(610mm)*	1,500 * *(6.67 kN)*

* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity.

CBN-RB Series

Support With Raised Channel Heavy Support





The CBN-RB Heavy Rooftop Supports is designed for rooftop applications requiring a heavier load bearing capacity. It is suitable for most types of roofing material or other flat surfaces. Custom lengths are available upon request.

Standard strut mount pipe clamps are used to secure the pipes.

Raised Bridge Heavy Support with 2 CBN Bases & 3-1/4" *(83mm)* Back-to-Back Pre-Galv or Hot Dip Galv. Steel Channel

Part No.	Total Width	Strut Width	Uniform Load Lbs (kN)*
CBN3RB	30.65" *(779mm)*	24" *(610mm)*	2,500†* *(15.56 kN)*
CBN4RB	42.65" *(1.1m)*	36" *(914mm)*	2,500†* *(14.45 kN)*

* This load is only for the capacity of the components in this assembly.
† Beam load is limited by weld shear
Please consult roofing manufacturer or engineer for roof load capacity.

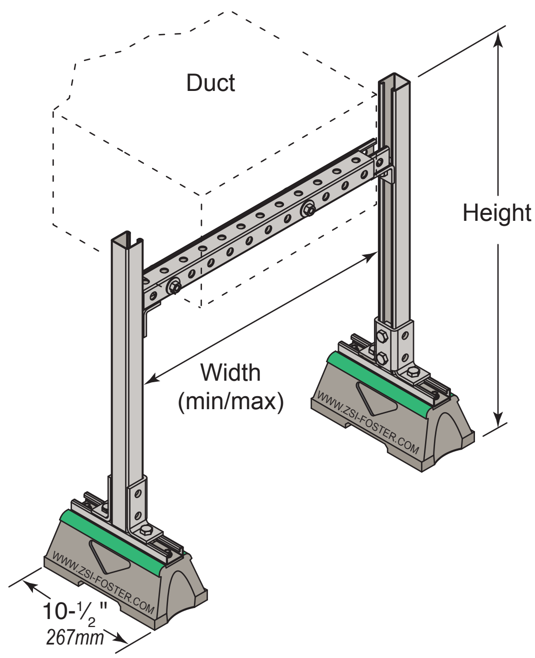
CBN-DS Series

Adjustable Width Duct Support

The CBN-DS Series is designed specifically for supporting duct work. The telescopic cross beam provides easy width and height adjustments.

A wide range of support widths are provided from 19-1/4" to 103-5/8"
(489mm to 2.6m)

Standard strut mount pipe clamps are used to secure the pipes.



CBN-DS Duct Support Series With Adjustable Width and Height with 1-5/8" *(41mm)* Pre-Galv or Hot Dip Galv. Steel Channel				
Part No.	Width Min.	Width Max.	Height	Uniform Load at Min. Width Lbs(kN) *
CBN1DS	19-1/4" *(489mm)*	26-3/4" *(679mm)*	28.813" *(732mm)*	1,909 * *(8.49 kN)*
CBN2DS	24-7/8" *(632mm)*	39-7/8" *(1m)*		1,477 * *(6.57 kN)*
CBN3DS	38" *(987mm)*	62-3/8" *(1.6m)*		967 * *(4.30 kN)*
CBN4DS	62-3/8" *(1.6m)*	103-5/8" *(2.6m)*		589 * *(2.62 kN)*
CBN5DS	19-1/4" *(489mm)*	26-3/4" *(679mm)*	36" *(914mm)*	1,909 * *(8.49 kN)*
CBN6DS	24-7/8" *(632mm)*	39-7/8" *(1m)*		1,477 * *(6.57 kN)*
CBN7DS	38" *(987mm)*	62-3/8" *(1.6m)*		967 * *(4.30 kN)*
CBN8DS	62-3/8" *(1.6m)*	103-5/8" *(2.6m)*		589 * *(2.62 kN)*

* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity.

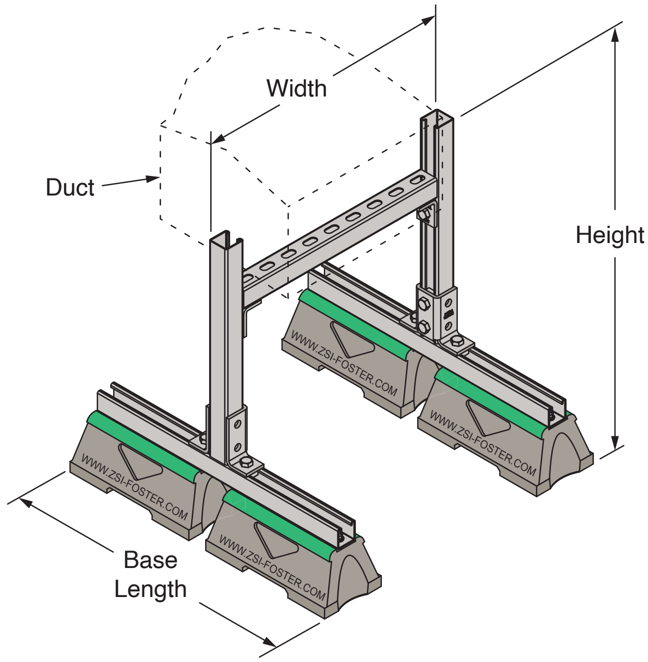
Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

CBN-DSFW Series

Fixed Width Duct Support

The CBN-DSFW Series is designed specifically for supporting duct work. The cross beam provides easy size adjustments. Custom lengths are available upon request.

Standard strut mount pipe clamps are used to secure the pipes.



CBN-DSFW Duct Support Series With Fixed Width & Adjustable Height with 1-5/8" *(41mm)* Pre-Galv or Hot Dip Galv. Steel Channel					
Part No.	**Height**	**Width**	**Base Length**	**No. of Bases**	**Uniform Load Capacity Lbs(kN) ***
CBN1-DSFW	23" *(584mm)*	18" *(457mm)*	24" *(610mm)*	4	2042 * *(9.08 kN)*
CBN2-DSFW		24" *(610mm)*			1531 * *(6.81 kN)*
CBN3-DSFW		36" *(914mm)*			1021 * *(4.54 kN)*
CBN4-DSFW		48" *(1.2m)*			766 * *(3.40 kN)*
CBN5-DSFW	29" *(737mm)*	18" *(457mm)*	24" *(610mm)*	4	2042 * *(9.08 kN)*
CBN6-DSFW		24" *(610mm)*			1531 * *(6.81 kN)*
CBN7-DSFW		36" *(914mm)*			1021 * *(4.54 kN)*
CBN8-DSFW		48" *(1.2m)*			766 * *(3.40 kN)*
CBN9-DSFW	41" *(1m)*	18" *(457mm)*	24" *(610mm)*	4	2042 * *(9.08 kN)*
CBN10-DSFW		24" *(610mm)*			1531 * *(6.81 kN)*
CBN11-DSFW		36" *(914mm)*			1021 * *(4.54 kN)*
CBN12-DSFW		48" *(1.2m)*			766 * *(3.40 kN)*
CBN13-DSFW	53" *(1.3m)*	18" *(457mm)*	36" *(914mm)*	6	2042 * *(9.08 kN)*
CBN14-DSFW		24" *(610mm)*			1531 * *(6.81 kN)*
CBN15-DSFW		36" *(914mm)*			1021 * *(4.54 kN)*
CBN16-DSFW		48" *(1.2m)*			766 * *(3.40 kN)*

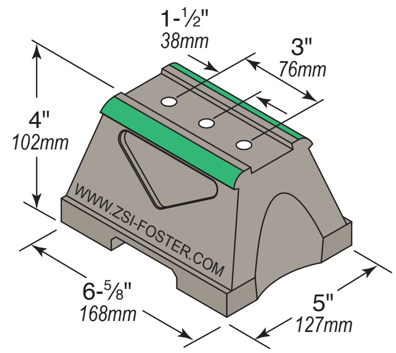
* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity.

Cush-A-Block® Rooftop Supports

Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

CBM

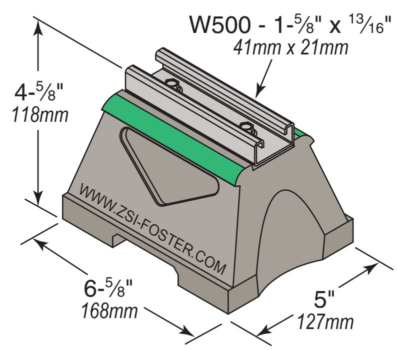
Cush-A-Block Mini

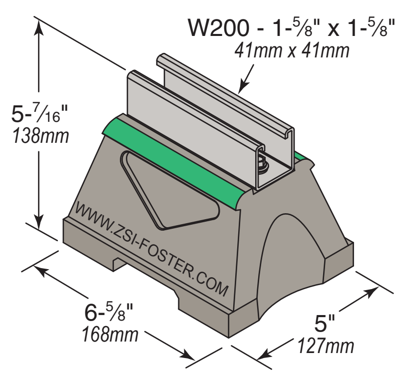


CBM-Base Series	
Part No.	**Uniform Load Capacity (Lbs) ***
CBM	400 *(1.78 kN)*
* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.	

CBM Series

Support with Metal Channel





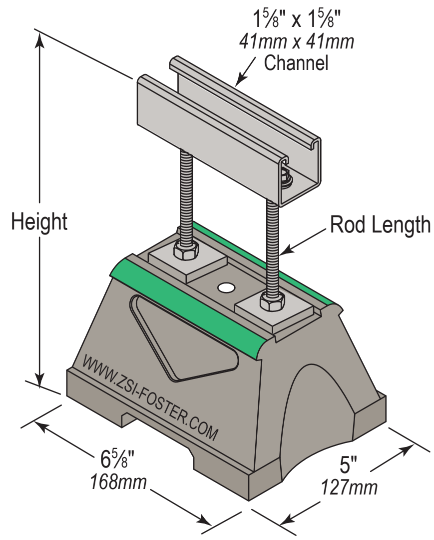
Part No.	Uniform Load Capacity (Lbs) *
CBM-Support with 13⁄16" *(21mm)* Pre-Galv or Hot Dip Galv. Steel Channel	
CBM1S	400 *(1.78 kN)*
CBM-Support with 1-⅝" *(41mm)* Pre-Galv or Hot Dip Galv. Steel Channel	
CBM1D	400 *(1.78 kN)*
* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.	

Cush-A-Block® Rooftop Supports

Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

CBM REX Series

Support with Raised 1-⅝" Metal Channel



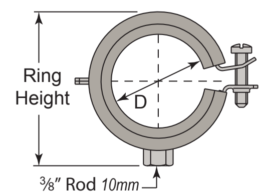
CBM-Support Extension with ⅜" Threaded Rod Extension & 1-⅝" *(41mm)* Pre-Galv or Hot Dip Galv. Steel Channel

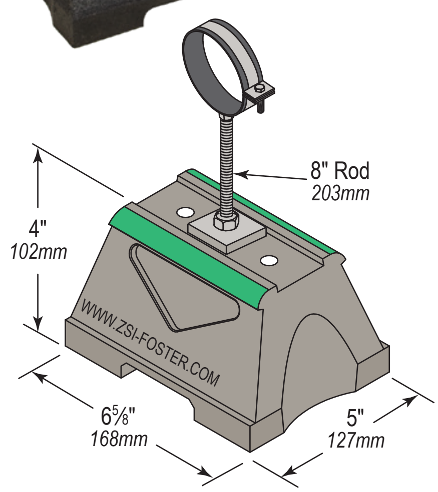
Part No.	Height	Rod Length	Uniform Load Lbs (kN) *
CBM10REX	10" *(254mm)*	6" *(152mm)*	175 *(0.78 kN)*
CBM12REX	12" *(305mm)*	8" *(203mm)*	175 *(0.78 kN)*

* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity.

CBMPH Series

Support with Raised SPH Cush-A-Ring Clamp for Copper Tube or Steel Tube or Pipe





CBMPH Series Cush-A-Block Mini with Raised SPH Cush-A-Ring Clamp for Copper or Steel Tube or Pipe

Part No.	D	IP	CT	Ring Height	Uniform Load Lbs (kN) *
CBMPH1	0.433" - 0.551" *(11 - 14mm)*	¼"	⅜"	1.4" *(36mm)*	125 *(0.56 kN)*
CBMPH2	0.591" - 0.709" *(15 - 18mm)*	⅜"	½"	1.4" *(36mm)*	
CBMPH3	0.787" - 0.906" *(20 - 23mm)*	½"	¾"	1.6" *(41mm)*	
CBMPH4	0.984" - 1.102" *(25 - 28mm)*	¾"	1"	1.8" *(46mm)*	
CBMPH5	1.22" - 1.378" *(31 - 35mm)*	1"	1¼"	2.0" *(51mm)*	
CBMPH6	1.575" - 1.693" *(40 - 43mm)*	1¼"	1½"	2.4" *(61mm)*	
CBMPH7	1.89" - 2.087" *(48 - 53mm)*	1½"	-	2.6" *(66mm)*	
CBMPH8	2.126" - 2.205" *(54 - 56mm)*	-	2"	2.8" *(71mm)*	
CBMPH9	2.244" - 2.48" *(57 - 63mm)*	2"	-	3.1" *(79mm)*	
CBMPH10	2.52" - 2.756" *(64 - 70mm)*	-	2½"	3.9" *(99mm)*	
Below parts have 2 bolt configuration SPH Clamps					
CBMPH11	2.874" - 3.15" *(73 - 80mm)*	2½"	3"	4.3" *(109 mm)*	125 *(0.56 kN)*
CBMPH12	3.268" - 3.583" *(83 - 91mm)*	3"	-	4.8" *(122 mm)*	
CBMPH13	3.937" - 4.134" *(100 - 105 mm)*	-	4"	5.3" *(135 mm)*	
CBMPH14	4.252" - 4.488" *(108 - 114mm)*	4"	-	5.7" *(145 mm)*	

* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity.

See Page 175 for more information on the SPH Cush-A-Ring Clamps

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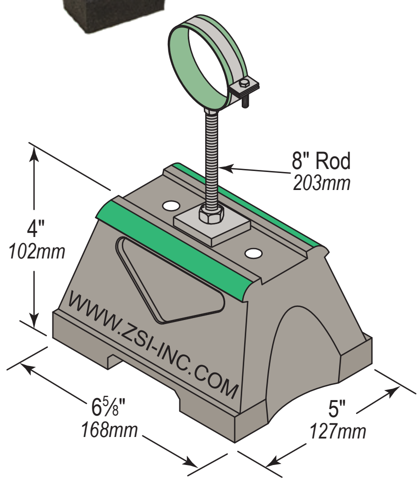
Beam Clamps
Pipe & Conduit Supports
Electrical Fittings
Spring Steel
Concrete Inserts
Rooftop Supports
Technical Data

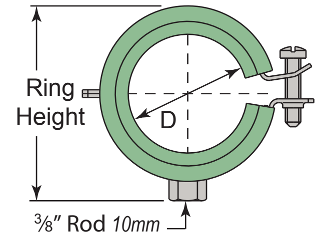
Cush-A-Block® Rooftop Supports

Finishes: Pre-galvanized (PG) or Hot Dipped Galvanized (HG)

CBMPP Series

Support with Raised SPP Cush-A-Ring Clamp for PEX, CPVC, or PVC Pipe





CBMPP Series Cush-A-Block Mini with Raised SPP Cush-A-Ring Clamp for PEX, CPVC or PVC Pipe

Part No.	D (mm)	PVC / CPVC	PEX	Ring Height	Load Capacity (Lbs) *
CBMPP2	0.591" - 0.709" *(15 - 18mm)*	3/8"	1/2"	1.4" *(36mm)*	125 *(0.56 kN)*
CBMPP3	0.787" - 0.906" *(20 - 23mm)*	1/2"	3/4"	1.7" *(43mm)*	
CBMPP4	0.984" - 1.102" *(25 - 28mm)*	3/4"	1"	1.9" *(48mm)*	
CBMPP5	1.22" - 1.378" *(31 - 35mm)*	1"	1-1/4"	2.2" *(56mm)*	
CBMPP6	1.575" - 1.693" *(40 - 43mm)*	1-1/4"	1-1/2"	2.6" *(66mm)*	
CBMPP7	1.89" - 2.087" *(48 - 53mm)*	1-1/2"	-	3.0" *(76mm)*	
CBMPP8	2.126" - 2.205" *(54 - 56mm)*	-	2"	3.0" *(76mm)*	
CBMPP9	2.362" - 2.559" *(60 - 65mm)*	2"	-	3.4" *(86mm)*	
CBMPP10	2.756" - 2.992" *(70 - 76mm)*	2-1/2"	-	4.1" *(104mm)*	
Below parts have 2 bolt configuration SPP Clamps					
CBMPP11	3.386" - 3.583" *(86 - 91mm)*	3"	-	4.6" *(117mm)*	125 *(0.56 kN)*
CBMPP12	4.331" - 4.488" *(110 - 114mm)*	4"	-	5.8" *(147mm)*	

* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity.

See Page 176 for more information on the SPP Cush-A-Ring Clamps

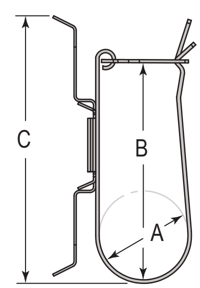
CBMTRH Series

Support with Raised TRH Hanger System for Cable runs or Insulated Flow and Return Lines

Supports a pair of insulated flow and return refrigerant lines on ⅜" threaded rod. The spring steel hanger grips the rod tightly, and the black zinc coating offers corrosion resistance while matching the insulation color.

See page 251 for THR Hanger information

- Quick to Install & Adjust
- Rolled steel edges for safe cable runs
- Spring steel hanger grips rod tightly



CBMTRH Series Cush-A-Block Mini with Raised TRH Hanger Clamp for Cable Runs or Insulated Pipe & Tubing

Part No.	Flow & Return Pipe Pairs	A	B	C	Uniform Load Lbs (kN) *
CBMTRH2	3/8" Liquid & 5/8" Gas	1.28" *(33mm)*	3.12" *(79mm)*	3.82" *(97mm)*	175 *(0.78 kN)*
CBMTRH3	1/2" Liquid & 7/8" Gas	1.40" *(36mm)*	3.28" *(83mm)*	3.70" *(94mm)*	
CBMTRH4	5/8" Liquid & 1-1/8" Gas	2.40" *(61mm)*	4.17" *(106mm)*	5.00" *(127mm)*	
CBMTRH5		3.38" *(86mm)*	6.26" *(159mm)*	7.03" *(179mm)*	

* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity.

Vibration Isolation Products from ZSi-Foster

When installing pipe, tube, hose, or equipment the effects of vibration, shock, surge, galvanic corrosion and unwanted noise are a major concern. Improperly cushioned equipment, pipe, tube, or hose invites failure and potential problems. New developments in cushioned clamping and vibration isolation products from ZSi-Foster provide the proper solutions to combat these effects.

ZSi-Foster's products have earned a well-deserved reputation for unparalleled quality and effectiveness. As industry develops new needs, ZSi-Foster can and will respond with superior quality products and innovative solutions.

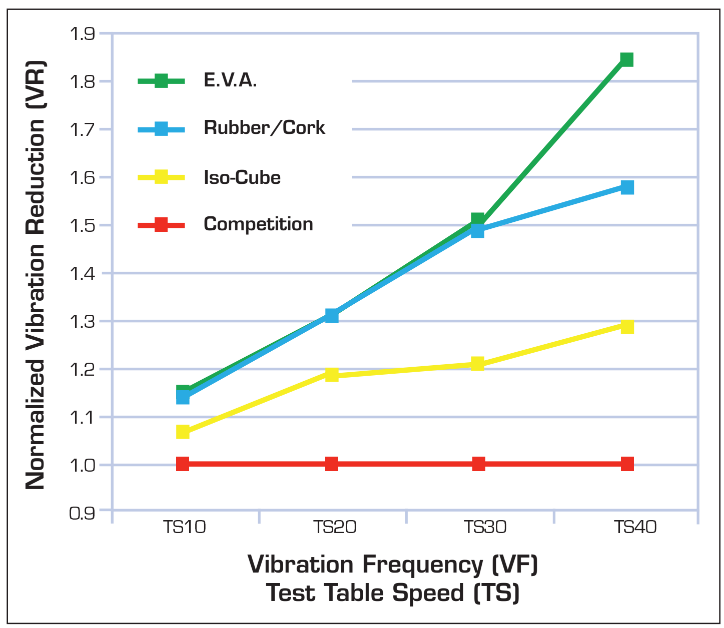
EXTREME

STANDARD

ISO-CUBE

SHIELD

ANTI-VIBRATION PAD PERFORMANCE



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GAMMA Shield

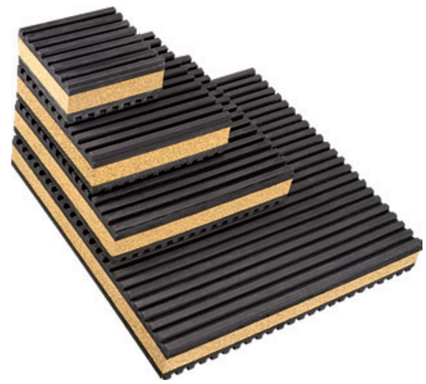
Rubber Mat

Shields equipment from vibration and movement when lesser amounts of vibration absorption is needed.

Part No.	Description
AR-2	2" x 2" x 3/8" *(51mm x 51mm x 10mm)* All Rubber AV Pad
AR-3	3" x 3" x 3/8" *(76mm x 76mm x 10mm)* All Rubber AV Pad
AR-4	4" x 4" x 3/8" *(102mm x 102mm x 10mm)* All Rubber AV Pad
AR-6	6" x 6" x 3/8" *(152mm x 152mm x 10mm)* All Rubber AV Pad
AR-18	18" x 18" x 3/8" *(457mm x 457mm x 10mm)* All Rubber AV Pad

GAMMA Standard Pad

The Industry Standard Highest quality elastomeric oil resistant padding. Designed to withstand 50 psi *(3.4 bar)*. The rubber pads are corrugated on both sides and laminated to the cork center.



Part No.	Description
AC-2	2" x 2" x 7/8" *(51mm x 51mm x 22mm)* Cork / Rubber AV Pad
AC-3	3" x 3" x 7/8" *(76mm x 76mm x 22mm)* Cork / Rubber AV Pad
AC-4	4" x 4" x 7/8" *(102mm x 102mm x 22mm)* Cork / Rubber AV Pad
AC-6	6" x 6" x 7/8" *(152mm x 152mm x 22mm)* Cork / Rubber AV Pad
AC-18	18" x 18" x 7/8" *(457mm x 457mm x 22mm)* Cork / Rubber AV Pad

ISO - Cube

Solid Rubber Tough

Natural rubber pads designed to reduce vibration and noise emanating from refrigeration or AC equipment. Circular design offers a suction cup effect eliminating the need to bolt the pads down. A standard 18" *(457mm)* pad divides into eighty-one 2" *(51mm)* segments which may be cut or torn into smaller pads. The 50 durometer pads will withstand a load of 180 psi *(12.4 bar)* with great resiliency.

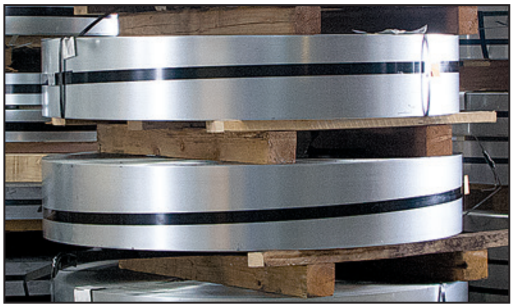
Part No.	Description
AS-2	2" x 2" x 3/4" *(51mm x 51mm x 19mm)* ISO-Cube
AS-18	18" x 18" x 3/4" *(457mm x 457mm x 19mm)* ISO-Cube

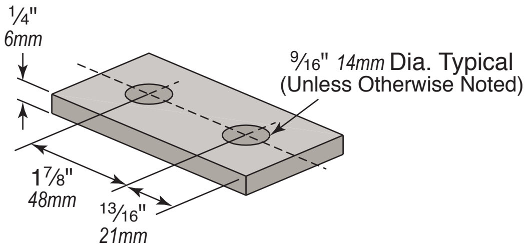
GAMMA Extreme Pad

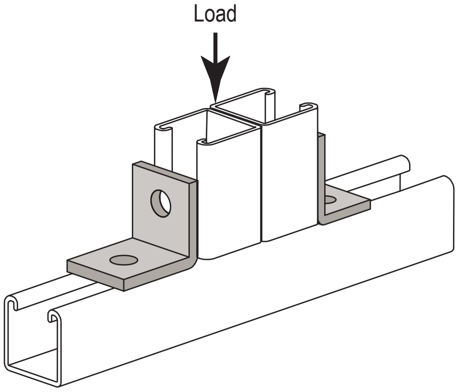
The **BEST** Performer E.V.A. (Extreme Vibration Attenuation) is the latest generation in vibration dampening technology. In the most severe vibration extremes, testing shows the E.V.A. pad outperforms cork and rubber by greater than 3:1 and outperforms our competitor's "waffle" pad by greater than 8:1! The enhanced performance comes from the special composite foam center which is structurally more sound than cork. E.V.A. is not affected by oils or chemicals that can break down cork and is much more effective at vibration dampening than solid rubber. Designed to withstand 50 psi *(3.4 bar)*. Choose E.V.A. to get the best of both worlds!

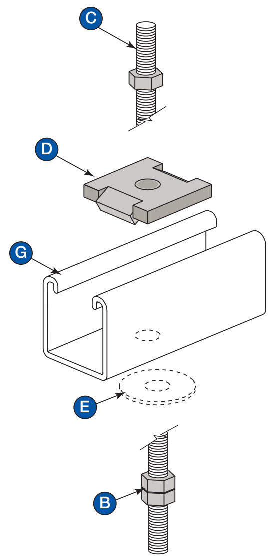
Part No.	Description
AV-2	2" x 2" x 7/8" *(51mm x 51mm x 22mm)* E.V.A. Pad
AV-3	3" x 3" x 7/8" *(76mm x 76mm x 22mm)* E.V.A. Pad
AV-4	4" x 4" x 7/8" *(102mm x 102mm x 22mm)* E.V.A. Pad
AV-6	6" x 6" x 7/8" *(152mm x 152mm x 22mm)* E.V.A. Pad
AV-18	18" x 18" x 7/8" *(457mm x 457mm x 22mm)* E.V.A. Pad

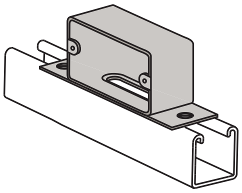
Technical Data

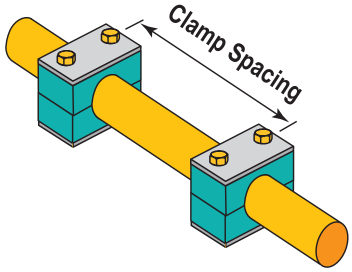












Stainless Steel Channel

Channel is available as roll formed sections in stainless steel, conforming to ASTM A 240 Type 304, or ASTM A 240 Type 316. Consult factory for sizes and availability.

To order, see page 25 for material codes to use for channel designation.

Examples: W500SS**ST304**, W200**ST316**.

Aluminum Channel

Channel is available as extruded aluminum sections type 6063T6, conforming to ASTM B221. Consult factory for sizes and availability.
To order add "AL" to channel designation.
Example: W201**AL**.

Stainless Steel Nuts (Channel Type)

Channel Nuts are available in Type 316 Stainless Steel. Consult factory for sizes and availability.

- Sintered 316 - “Domestic Nut” ASTM: B783
- Bar Stock 316 - “Import Nut” ASTM: A240

To order add "ST" to nut designation. Example: W2-8ST316

Aluminum Nuts (Channel Type)

Available by special order. Consult factory for details. ASTM B221.

Aluminum Stainless and Copper Plated Pipe Clamps

Pipe Clamps are available from stock in Stainless Steel Types 304 and 316 and by special order in Aluminum and Copper Plated. Consult factory for details.

Aluminum Engineering Data

To determine the appropriate beam load capacity for extruded Aluminum Channel Sections, refer to Channel Engineering Data, page 40 thru 71 in this catalog and multiply published values by 40%. To determine the approximate pull out slip load of Channel Nuts in extruded Aluminum Channel sections, refer to page 74 in this catalog and multiply the resistance to slip value by 75% and the resistance to pull out value by 50%.

Stainless Steel Engineering Data

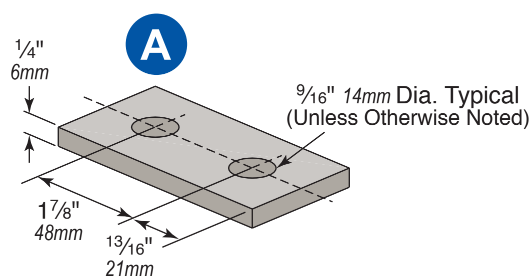
The properties of section for stainless steel channels are the same as shown starting on page 41 of this catalog for mild steel channel. Load ratings for stainless steel channel meet or exceed corresponding mild steel ratings published throughout this catalog.

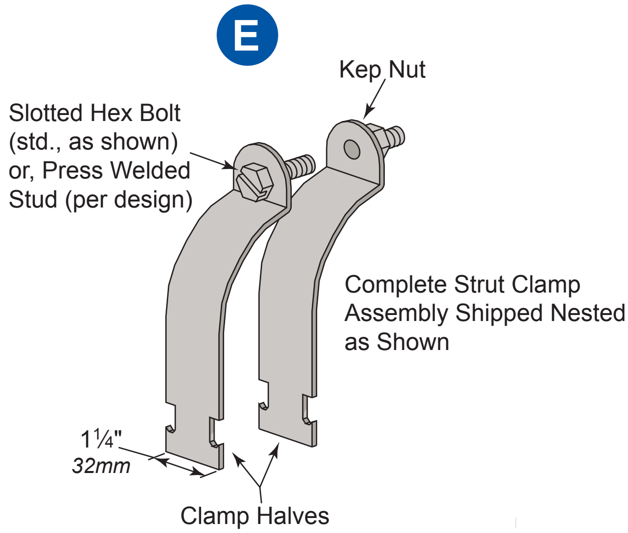
The majority of fittings, are designed to engage at the face of continuous slot channel sections, anywhere along this 1-5/8" surface. Incorporation of either the "H" (9/16" holes, 1-7/8" on center) or the "SS" (9/16" x 1-1/8" - 2" on center short slot) configuration has been considered in the fittings' design, especially in hole spacing and placement.

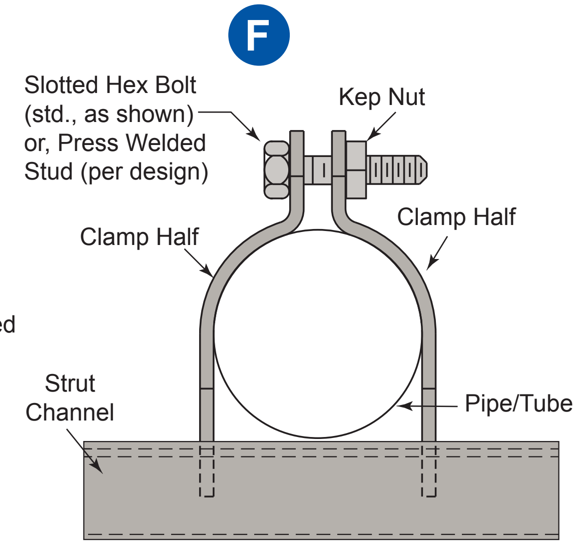
TYPICAL FITTING DIMENSIONS AND CONTROL DATA
(BAR STOCK AND PLATE FABRICATED COMPONENTS)

Unless otherwise indicated:

- **Width:** 1-5/8" (1.625") unless otherwise specified.
- **Thickness:** 1/4" (material utilized is within nominal tolerance range).
- **Lengths:** As specified on drawing(s).
- **Hole Dimension:** 9/16" (unless specified otherwise).
- **Hole Placement:** 9/16" Diameter holes are aligned along a single or single intersecting centerline (℄), which bisects the 1-5/8" (1.625") wide material (flat stock) dimension.
- **Hole Lead-In/Centering:** The 9/16" Diameter holes are located in from leading edges (leading edge to hole center) 13/16" (0.813"). This lead-in dimension controls subsequent center to center positioning and unless otherwise specified or controlled by a fittings gross dimension along a specific axis, field holes are 1-7/8" (1.875") center to center along the material's centerline (℄). Dimension from trailing hole center to trailing edge will also be 13/16" (0.813"). (ref drawing: **A**)
- **Bend Design:** Design of each individual bend in this wide selection of fittings has been developed to maximize the material's strength while reducing stress at those bend points. This allows for cohesive nesting with the formed edge radiuses of the channel sections. This design detail provides a minimum tolerance envelope to assure a clean accurate fit and ease of assembly into structural strut/fitting elements.
- **Flat Fittings:** Without any bend from that single plane: For use with channel sections: arranged and co-dependently utilized in a double axis or parallel single axis, single plane situation.







Clamp halves are pushed laterally into place. Ninety degrees to the channel face and touching the pipe element sides. The bolt and nut are installed. The grip design at the channel lips tightens during assembly, securely holding the Strut Clamp assembly in-place.

FITTING DIMENSIONS AND CONTROL DATA (STRIP I GAUGE MATERIAL FORMED PIPE CLAMP HALVES):

Unless otherwise indicated:

- **Materials width:** 1-¼" (1.250") side to side, forming two identically matching strut clamp sides. (Ref: E and F)
- **Thickness:** Gauge dimensional material is utilized, specific to each individual strut clamp size. Ref. Part Number I Size chart for each style clamp. (Ref: E)
- **Material length:** Specific lengths of material required to fabricate each size strut clamp is not provided. The bolt tang also varies from clamp size to size and style to style.
- **Channel twist-grip feature:** Each clamp half is formed with an in-line, twist-on feature, allowing close proximity installation with a simple insert-twist maneuver. The clamp halves are pushed laterally into place, ninety degrees to the channel face and touching the pipe element sides, and the bolt / nut is installed. The grip design at the channel lip's tightens during assembly, securely holding the strut clamp assembly in place. (Ref: E and F)
- **Hole dimension / Placement:** The receiving hole and bolt pass-thru hole(s) positioned in the punched tang(s), (except in the studded version clamps) are identical sized with standard practice clearance tolerances. Placement and size of holes to accommodate the mechanical studs are similarly positioned for strength and utilization in an appropriately sized punched tang.
- **Bolt dimensions:** National Coarse Sized threaded mild steel hex head/slotted bolts are utilized; dimensions vary from clamp size to clamp size. Ref: Number / Size chart for each style clamp. (Ref: E)
- **Stud attachment:** The mild steel, ASTM conformant National Coarse Size threaded studs, are press fit into an appropriately sized receiving hole and then high resistance welded in place to further secure them against accidental loosening while the Kep nuts are turned into position (use per specific part data call-out).
- **Kep hex nuts** are utilized on all direct contact clamps; .

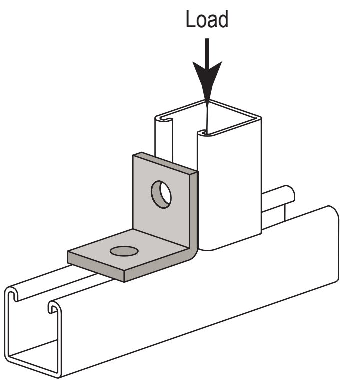
NOTE: Illustrations of Components throughout are representational. Utilize specific data as shown.

Channel Engineering Data

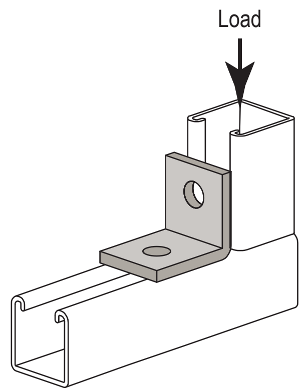
Crush Load for Channel

Load Data for Channel Sections, Subject to Crushing Loads

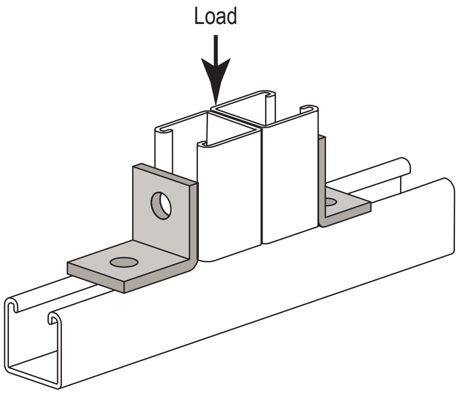
These values are based on a minimum yield point of 33,000 PSI at safety factor of 1.85.



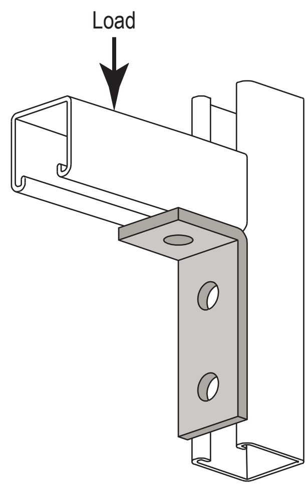
Channel Used	Reaction Load Lbs. *(kN)*
1-5/8" x 1-5/8" - 12 gage	7,000# *(31.14 kN)*
1-5/8" x 1-5/8" - 14 gage	3,600# *(16.01 kN)*
1-5/8" x 1-3/8" - 12 gage	6,900# *(30.69 kN)*
1-5/8" x 13/16" - 14 gage	3,400# *(15.12 kN)*



Channel Used	Reaction Load Lbs. *(kN)*
1-5/8" x 1-5/8" - 12 gage	2,900# *(12.90 kN)*
1-5/8" x 1-5/8" - 14 gage	1,500# *(6.67 kN)*
1-5/8" x 1-3/8" - 12 gage	2,800# *(12.46 kN)*
1-5/8" x 13/16" - 14 gage	1,400# *(6.23 kN)*



Channel Used	Reaction Load Lbs. *(kN)*
1-5/8" x 1-5/8" - 12 gage	7,000# *(31.14 kN)*
1-5/8" x 1-5/8" - 14 gage	3,600# *(16.01 kN)*
1-5/8" x 1-3/8" - 12 gage	6,900# *(30.69 kN)*
1-5/8" x 13/16" - 14 gage	3,400# *(15.12 kN)*



Channel Used	Reaction Load Lbs. *(kN)*
1-5/8" x 1-5/8" - 12 gage	2,900# *(12.90 kN)*
1-5/8" x 1-5/8" - 14 gage	1,500# *(6.67 kN)*
1-5/8" x 1-3/8" - 12 gage	2,800# *(12.46 kN)*
1-5/8" x 13/16" - 14 gage	1,400# *(6.23 kN)*

Point Load

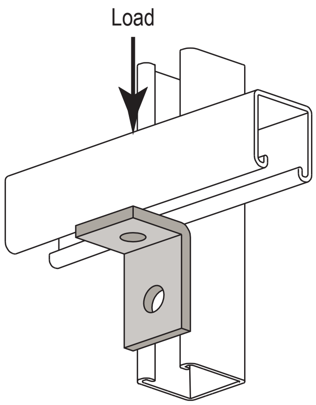
Design Load Data for Channel Connections

Load diagrams indicate two design loads;
one for 1-5/8" x 1-5/8" - 12 gage sections (see page 41) and
one for 1-5/8" x 1-5/8" - 14 gage sections (see page 42)
Safety factor = 2-½ based on ultimate strength of connection.

90° Fittings

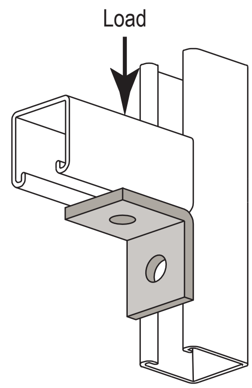
(When used in position shown)

2-Hole Rack Connector



Channel Used	Design Load Lbs. *(kN)*
1-5/8" x 1-5/8" - 12 gage	500# *(2.22 kN)*

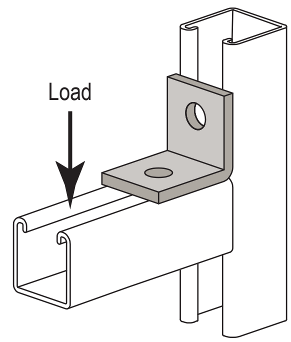
2-Hole End Connector



Channel Used	Design Load Lbs. *(kN)*
1-5/8" x 1-5/8" - 12 gage	1,500# *(6.67 kN)*
1-5/8" x 1-5/8" - 14 gage	1,000# *(4.45 kN)*

2-Hole End Connector

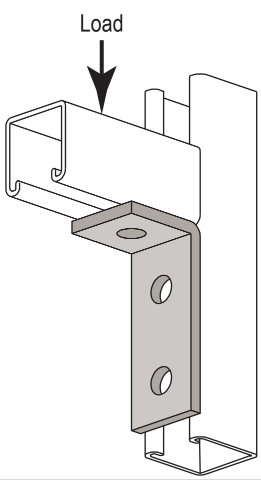
Both Ends Supported



Channel Used	Design Load Lbs. *(kN)*
1-5/8" x 1-5/8" - 12 gage	1,000# *(4.45 kN)*
1-5/8" x 1-5/8" - 14 gage	650# *(2.89 kN)*

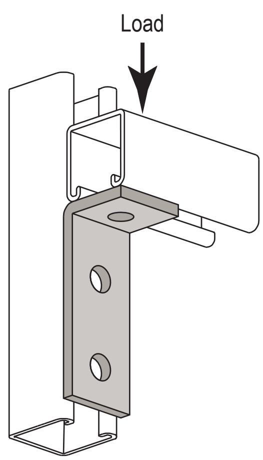
3-Hole End Connector

Both Ends Supported



Channel Used	Design Load in LBS.
1-5/8" x 1-5/8" - 12 gage	2,000# *(8.90 kN)*
1-5/8" x 1-5/8" - 14 gage	1,500# *(6.67 kN)*

3-Hole Column Stringer Connector

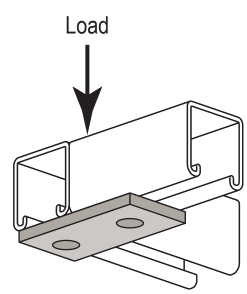


Channel Used	Design Load Lbs. *(kN)*
1-5/8" x 1-5/8" - 12 gage	500# *(2.22 kN)*

Flat Plate Fittings

2-Hole Splice Plate

Both Ends Supported



Channel Used	Design Load in LBS.
1-5/8" x 1-5/8" - 12 gage	1,000# *(4.45 kN)*
1-5/8" x 1-5/8" - 14 gage	800# *(3.56 kN)*

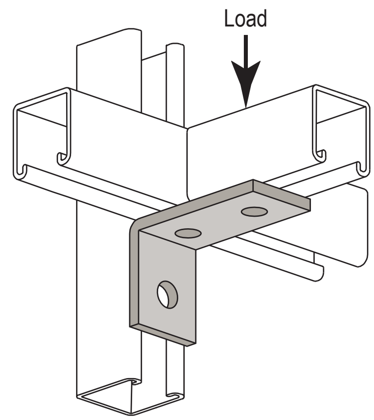
Uniform Load - 90° Fittings

Design Load Data for Channel Connections

Load diagrams indicate two design loads;
one for 1-⅝" x 1-⅝" - 12 gage sections (see page 41) and
one for 1-⅝" x 1-⅝" - 14 gage sections (see page 42)
Safety factor = 2-½ based on ultimate strength of connection.

3-Hole Rack Corner Angle

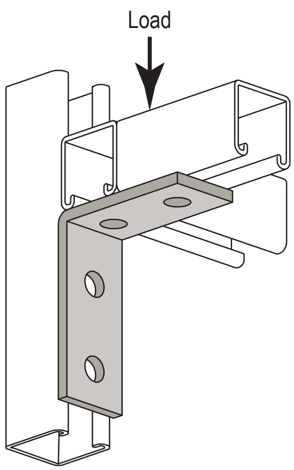
Both Ends Supported



Channel Used	Design Load Lbs. *(kN)*
1-⅝" x 1-⅝" - 12 gage	1,500#
1-⅝" x 1-⅝" - 14 gage	1,000#

4-Hole Rack Corner Angle

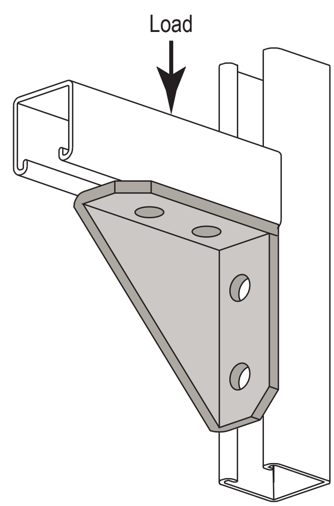
Both Ends Supported



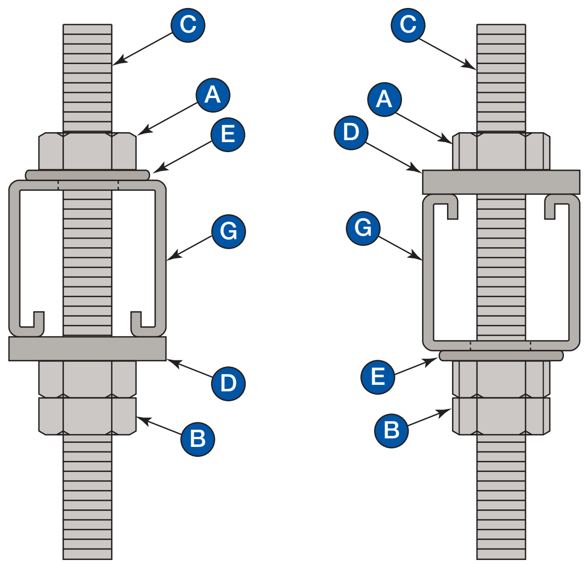
Channel Used	Design Load Lbs. *(kN)*
1-⅝" x 1-⅝" - 12 gage	2,000#
1-⅝" x 1-⅝" - 14 gage	2,000#

4-Hole Gusset Corner Angle, Left or Right Hand

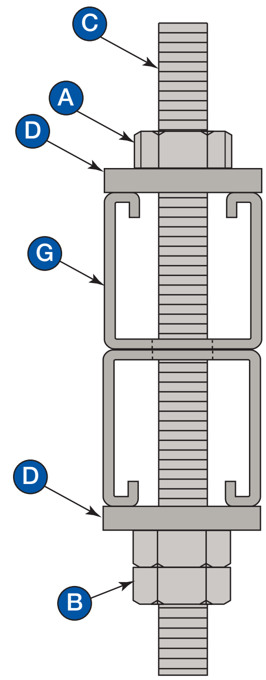
Both Ends Supported



Channel Used	Design Load Lbs. *(kN)*
1-⅝" x 1-⅝" - 12 gage	2,000#
1-⅝" x 1-⅝" - 14 gage	2,000#



Single Section Perforated Channel



Double Section Perforated Channel

Common Components

A: Top Hex Nut

B: Bottom Double Hex Nuts

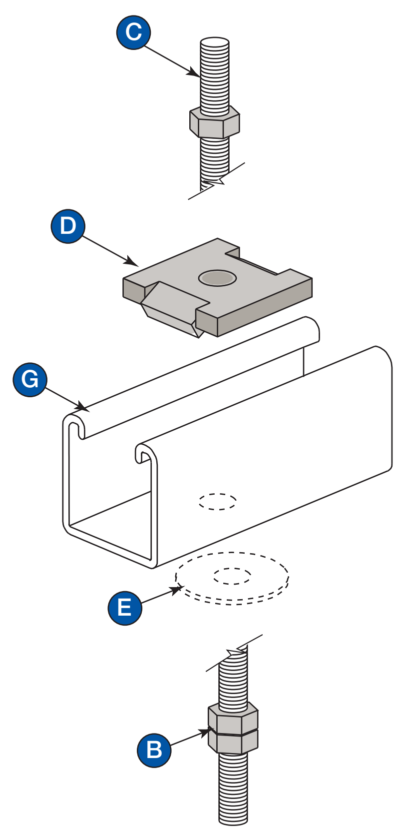
C: All Thread Rod

D: Flat Fitting (With Indents Shown).

E: Fender or "Cut" Washer. (Recommended).

F: (Not Shown) Lock Washer (S), Kep Nut(S),
or Other Security Measures as Required.

G: Perforated Strut (Recommended).

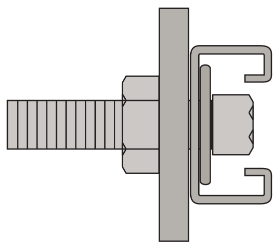


Over tightening face supported through bolted all thread rod or other mechanical fasteners can distort the channel section beyond its intended maximum safe configuration causing serious distortion and possible failure.

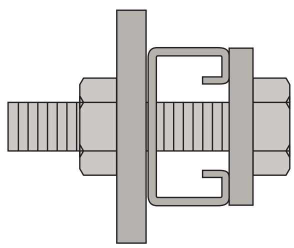
Utilize bolting security measures to prevent accidental loosening.

Bolted Channel

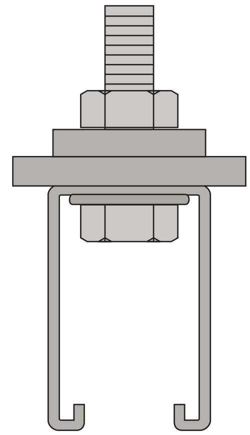
Attachment Information



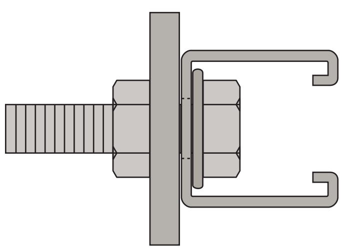
Shallow channel bolted thru from inside to backing plate with ½" dia. Allen head bolt and washer; hex nut behind.



Shallow channel bolted thru from face to backing plate with ¼" face fitting and ½" hex bolt; hex nut behind.



Deep style channel bolted thru from inside to beam flange utilizing ½" dia. hex bolt washer (inside channel),beveled washer and hex nut on top of flange.

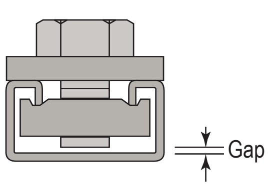


1-⅝" Deep channel type bolted thru from inside to backing plate with ⅜" dia. hex bolt, and washer; hex nut behind.

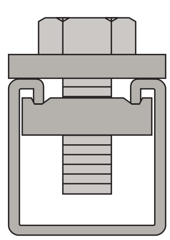
Do not over tighten faced thru bolts.
Utilize bolting security measures to prevent accidental loosening.

OVER TIGHTENING CAUTION

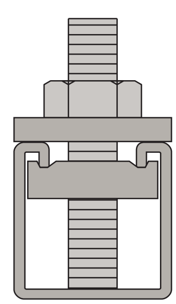
Over tightening "bottoming" a threaded fastener against the bottom of a channel section will result in serious damage and possible failure. Use proper length fasteners and leave a slight gap; fastener face to channel surface.



Shallow channel with ¼" thick fitting and 15/16" max. bolt length.



1-⅝" Channel with ¼" fitting and 1-¼" working length bolt.



1-⅝" Deep Channel with ¼" thick fitting and ½" all thread.

Electrical Installation Instructions

These surface metal raceways are intended for use in the installation of electrical wiring using external joiners. The number, type and size of conductors, which may be installed in these raceways, are tabulated in table below.
Fluorescent and Incandescent Lighting
Consult your local, state and federal electrical code for all installations

While the metal wire raceway cover provides electrical continuity to the base and ground wires, if screws are required, they are to be installed in the field. Installation shall conform to Strut-Type Channel Raceway and Fittings UL5B.O

Wire		Maximum Number of Electrical Wires (at 40% fill)					
Type	Gauge	W150 1⅝" x 3¼" 12 gauge	W100 1⅝" x 2 7/16" 12 gauge	W200 1⅝" x 1⅝" 12 gauge	W210 1⅝" x 1⅝" 14 gauge	W300 1⅝" x 1⅜" 12 gauge	W400 1⅝" x 13/16" 16 gauge
FEP, FEPB	14	172	127	81	81	67	36
	12	126	92	59	59	49	26
	10	90	66	42	42	35	19
	8	51	38	24	24	20	11
	6	24	17	11	12	9	5
RH, RHH, RHW	14	52	38	24	26	20	12
	12	45	33	21	22	17	10
	10	37	27	17	18	14	8
	8	20	14	9	10	7	4
	6	14	10	6	7	5	3
T, TW	14	124	91	58	58	48	26
	12	95	70	45	45	37	20
	10	69	51	33	33	27	14
	8	36	26	17	18	14	8
	6	21	15	9	10	8	5
THHN, THWN	14	178	131	84	84	69	37
	12	130	95	61	61	50	27
	10	82	60	38	38	32	17
	8	46	34	21	22	17	10
	6	33	24	15	16	12	7
THW	14	82	61	39	39	32	17
	12	66	49	31	31	26	14
	10	52	38	24	24	20	11
	8	29	21	13	14	11	6
	6	21	15	10	10	8	5
XHHW	14	124	91	58	58	48	26
	12	95	70	45	45	37	20
	10	71	52	33	33	28	15
	8	37	27	17	19	14	8
	6	27	20	13	14	10	6

Maximum Number Of Wires

Also suitable for the number of wires in table below when installed to support and supply electric discharge type lighting fixtures when raceway wiring is suitable for at least 70°C and clearance between fixture and raceway is at least ⅛". In all cases, a snap-in cover is required to complete the raceway enclosure.
Wire Types - R, RH, T, THW, TW, TF, RUH, and RUW

Wire Size AWG	W200, W200KO W210, W210KO	W300, W300KO	W500, W500KO
14	10	10	6
12	10	10	6
10	8	6	-
8	6	4	-
6	3	2	-

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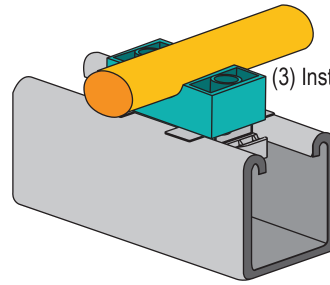
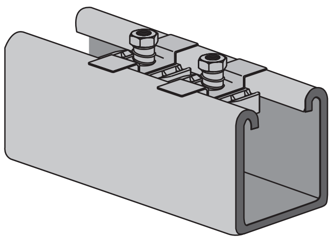
Installation on Channel

The ZSA Nuts can be used with any clamp using a ¼"-20 mounting bolt. This includes:

- Standard-Series
- Twin-Series (T1 Only)
- Beta Rubber Inserts

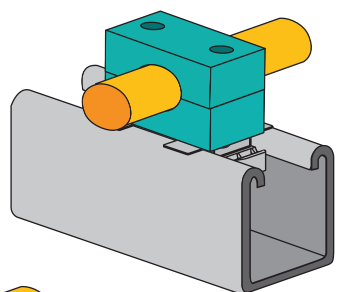


(3) Install Pipe

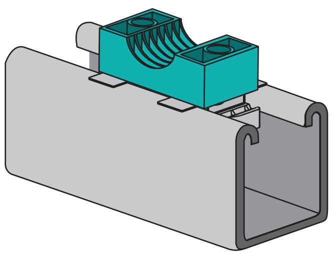


(1) Insert ZSA Nuts Into Wesanco Channel And Turn to Lock

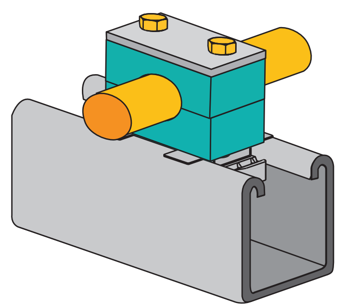
(4) Add Top Cushion



(2) Push Bottom Half of Clamp Onto ZSA Nuts

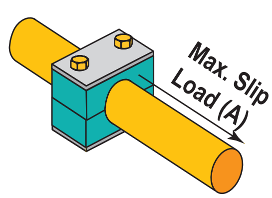


(5) Add Top Plate and Bolt Into Position



NOTE: The ZSA Nut will slide within the Channel so clamp units can be adjusted before being firmly bolted.

Maximum Slip Load



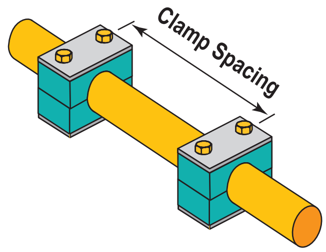
Max. Pipe Slip indicates that Sliding starts when the specified values (A) are reached.

Beta Standard Series

ZSI (DIN)	Hex Head Bolt UNC Thread (Metric ISO)	Polypropylene		Polyamide		Aluminium	
		Tightening Torque ft•lb (N•m)	Max. Pipe Slip lbf (kN)	Tightening Torque ft•lb (N•m)	Max. Pipe Slip lbf (kN)	Tightening Torque ft•lb (N•m)	Max. Pipe Slip lbf (kN)
S1 (1)	¼" - 20 UNC (M6)	6 (8)	247 (11)	7 (10)	157 (7)	9 (12)	944 (42)
S2 (2)			292 (13)		180 (8)		967 (43)
S3 (3)			315 (14)		360 (16)		1,101 (49)
S4 (4)			337 (15)		382 (17)		1,124 (50)
S5 (5)			427 (19)		450 (20)		1,641 (73)
S6 (6)			450 (20)		562 (25)		2,000 (89)
S7 (7)			517 (23)		719 (32)	-	

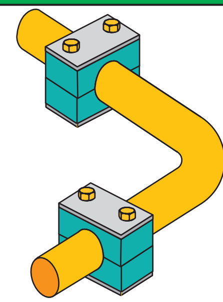
Beta Clamp Technical Data

Recommended Pipe Clamp Spacing



Pipe OD in (mm)	Spacing ft - in. (m)
0.24" – 0.5" (6 – 12.7)	3' - 3" (1)
0.5" – 0.87" (12.7 – 22)	3' - 11" (1.2)
0.87" – 1.26" (22 – 32)	4' - 11" (1.5)
1.26" – 1.5" (32 – 38)	6' - 7" (2)
1.5" – 2.24" (38 – 57)	8' - 10" (2.7)
2.24" – 2.95" (57 – 75)	9' - 10" (3)
2.95" – 3" (75 – 76.1)	11' - 6" (3.5)
3" – 3.5" (76.1 – 88.9)	12' - 2" (3.7)
3.5" – 4" (88.9 – 102)	13' - 1" (4)
4" – 4.5" (102 – 114)	14' - 9" (4.5)
4.5" – 6.6" (114 – 168)	16' - 5" (5)
6.6" – 8.6" (168 – 219)	19' - 8" (6)
8.6" – 12.8" (219 – 324)	21' - 12" (6.7)
12.8" – 14" (324 – 356)	22' - 12" (7)
14" – 16" (356 – 406)	24' - 7" (7.5)
16" – 16.5" (406 – 419)	26' - 11" (8.2)
16.5" – 20" (419 – 508)	27' - 11" (8.5)
20" – 20.5" (508 – 521)	29' - 6" (9)
20.5" – 22" (521 – 558)	32' - 10" (10)
22" – 31.5" (558 – 800)	41' - 0" (12.5)

Recommended Clamping for Bends



Bends in the line should be clamped on BOTH sides of the bend as shown.

BETA CLAMP MATERIAL PROPERTIES
Polypropylene (PP) Cushion

Material Properties		
Density	–	0.906 g/cm3
Tensile strength	DIN 53454	25-35 N/mm2
Flexure stress limit	DIN 53452	36N N/mm2
Compressive strength	DIN 53454	90 N/mm2
Impact strength	DIN 53453	No break
Thermo Properties		
Max. temp. resistance		-30 to 90°C
Thermal conductivity		15 x 10-5 /°C
Linear expansion coeff.		0.22 W/[mk]
Electrical Properties		
Specific volume	DIN 53482	1016 ohm x cm
Chemical Properties		
Consistent for weak acids, solvents, mineral oils and seawater.		

Beta Bolt Tightening Torque

Clamp	Group	Bolt Size	Aluminum Cushion		Polypropylene Cushion		Polyamide Cushion	
			Lbf	Nm	Lbf	Nm	Lbf	Nm
Beta Standard	S1 - S7	¼"-20	7	10	6	8	6	8
Beta Heavy	H3, H4	⅜"-16	22	30	9	12	15	20
	H5	⅜"-16	26	35	11	15	18	25
	H6	½"-13	41	55	29	30	30	40
	H7	⅝"-11	89	120	33	45	41	55
Beta Twin	T1	¼"-20	-	-	4	6	4	6
	T2 - T5	5/16"-18	-	-	9	12	9	12

The outlined particulars are approximate values and are only valid as references, which are not binding, also with regard to possible protection of third parties, and they do not exempt you from your own examination of suitability of the products delivered by us. Therefore, these values can only be used in a limited sense for construction purposes. The application of the products is carried out outside our control possibilities and, therefore, is exclusively subject to your own area of responsibility. If, however, liability should be possible, it would be limited for all damages to the value of the goods supplied by us and in use by you. It goes without saying, that we guarantee the perfect quality of our products according to our general sales and delivery conditions.

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Drill Sizes for NPT Pipe Taps

Tap Size (In.)	Threads/ Inch	Drill Dia. (In.)
$\frac{1}{8}$"	27	R
$\frac{1}{4}$"	18	$\frac{7}{16}$"
$\frac{3}{8}$"	18	$\frac{37}{64}$"
$\frac{1}{2}$"	14	$\frac{23}{32}$"
$\frac{3}{4}$"	14	$\frac{59}{64}$"
1"	$11\frac{1}{2}$	$1\frac{5}{32}$"
$1\frac{1}{4}$"	$11\frac{1}{2}$	$1\frac{1}{2}$"
$1\frac{1}{2}$"	$11\frac{1}{2}$	$1\frac{47}{64}$"
2"	$11\frac{1}{2}$	$2\frac{7}{32}$"
$2\frac{1}{2}$"	8	$2\frac{5}{8}$"
3"	8	$3\frac{1}{4}$"
$3\frac{1}{2}$"	8	$3\frac{3}{4}$"
4"	8	$4\frac{1}{4}$"

Tap & Drill Sizes (Unified National Coarse)

Tap Size (In.)	Threads/ Inch	Drill Size (In.)
$\frac{1}{4}$"	20	7
$\frac{5}{16}$"	18	F
$\frac{3}{8}$"	16	$\frac{5}{16}$"
$\frac{7}{16}$"	14	U
$\frac{1}{2}$"	13	$\frac{27}{64}$"
$\frac{9}{16}$"	12	$\frac{31}{64}$"
$\frac{5}{8}$"	11	$\frac{17}{32}$"
$\frac{3}{4}$"	10	$\frac{21}{32}$"
$\frac{7}{8}$"	9	$\frac{49}{64}$"
1"	8	$\frac{7}{8}$"
$1\frac{1}{8}$"	7	$\frac{63}{64}$"
$1\frac{1}{4}$"	7	$1\frac{7}{64}$"
$1\frac{3}{8}$"	6	$1\frac{7}{32}$"
$1\frac{1}{2}$"	6	$1\frac{11}{32}$"
$1\frac{3}{4}$"	5	$1\frac{9}{16}$"
2"	$4\frac{1}{2}$	$1\frac{25}{32}$"

Standard Weight Pipe Data

Nom. Diameter (In.)			Nom. Wt./Ft. (lbs.)	Length Containing One Cu. Ft.	Gallons / Linear Ft. (Gallons)
Pipe	Inside	Outside			
$\frac{1}{8}$"	0.269"	0.405"	0.245	2,526.000	0.0030
$\frac{1}{4}$"	0.364"	0.540"	0.425	1,383.800	0.0054
$\frac{3}{8}$"	0.493"	0.675"	0.568	754.360	0.0099
$\frac{1}{2}$"	0.622"	0.840"	0.851	473.910	0.0158
$\frac{3}{4}$"	0.824"	1.050"	1.131	270.030	0.0277
1"	1.049"	1.315"	1.679	166.620	0.0449
$1\frac{1}{4}$"	1.380"	1.660"	2.273	96.275	0.0777
$1\frac{1}{2}$"	1.610"	1.900"	2.718	70.733	0.1058
2"	2.067"	2.375"	3.653	49.913	0.1743
$2\frac{1}{2}$"	2.469"	2.875"	5.793	30.077	0.2487
3"	3.068"	3.500"	7.580	19.479	0.3840
$3\frac{1}{2}$"	3.548"	4.000"	9.110	14.565	0.5136
4"	4.026"	4.500"	10.790	11.312	0.6613
5"	5.047"	5.563"	14.620	7.198	1.0393
6"	6.065"	6.625"	18.970	4.984	1.5008
8"	7.981"	8.625"	28.550	2.878	2.5988
10"	10.020"	10.750"	40.480	1.826	4.0963

Copper Tube Data - Type L

Size (In.)	O.D. (In.)	O.D. (In.)	Wall Thick. (In.)	Weight per Foot (lbs)	Weight of Water / Ft. (lbs)
$\frac{1}{4}$"	$\frac{3}{8}$"	0.375"	0.030"	0.126	0.034
$\frac{3}{8}$"	$\frac{1}{2}$"	0.500"	0.035"	0.198	0.062
$\frac{1}{2}$"	$\frac{5}{8}$"	0.625"	0.040"	0.285	0.100
$\frac{5}{8}$"	$\frac{3}{4}$"	0.750"	0.042"	0.362	0.151
$\frac{3}{4}$"	$\frac{7}{8}$"	0.875"	0.045"	0.455	0.209
1"	$1\frac{1}{8}$"	1.125"	0.050"	0.655	0.357
$1\frac{1}{4}$"	$1\frac{3}{8}$"	1.375"	0.055"	0.884	0.546
$1\frac{1}{2}$"	$1\frac{5}{8}$"	1.625"	0.060"	1.140	0.767
2"	$2\frac{1}{8}$"	2.125"	0.070"	1.750	1.341
$2\frac{1}{2}$"	$2\frac{5}{8}$"	2.625"	0.080"	2.480	2.064
3"	$3\frac{1}{8}$"	3.125"	0.090"	3.330	2.949
$3\frac{1}{2}$"	$3\frac{5}{8}$"	3.625"	0.100"	4.290	3.989
4"	$4\frac{1}{8}$"	4.125"	0.110"	5.380	5.188
5"	$5\frac{1}{8}$"	5.125"	0.125"	7.610	8.081
6"	$6\frac{1}{8}$"	6.125"	0.140"	10.200	11.616
8"	$8\frac{1}{8}$"	8.125"	0.200"	19.290	20.289
10"	$10\frac{1}{8}$"	10.125"	0.250"	30.100	31.590
12"	$12\frac{1}{8}$"	12.125"	0.280"	40.400	45.426

Copper Tube Data - Type K

Size (In.)	O.D. (In.)	O.D. (In.)	Wall Thick. (In.)	Weight per Foot (lbs)	Weight of Water / Ft. (lbs)
$\frac{1}{4}$"	$\frac{3}{8}$"	0.375"	0.035"	0.145	0.032
$\frac{3}{8}$"	$\frac{1}{2}$"	0.500"	0.049"	0.269	0.055
$\frac{1}{2}$"	$\frac{5}{8}$"	0.625"	0.049"	0.344	0.094
$\frac{5}{8}$"	$\frac{3}{4}$"	0.750"	0.049"	0.418	0.144
$\frac{3}{4}$"	$\frac{7}{8}$"	0.875"	0.065"	0.641	0.188
1"	$1\frac{1}{8}$"	1.125"	0.065"	0.839	0.337
$1\frac{1}{4}$"	$1\frac{3}{8}$"	1.375"	0.065"	1.040	0.527
$1\frac{1}{2}$"	$1\frac{5}{8}$"	1.625"	0.072"	1.360	0.743
2"	$2\frac{1}{8}$"	2.125"	0.083"	2.060	1.310
$2\frac{1}{2}$"	$2\frac{5}{8}$"	2.625"	0.095"	2.920	2.000
3"	$3\frac{1}{8}$"	3.125"	0.109"	4.000	2.960
$3\frac{1}{2}$"	$3\frac{5}{8}$"	3.625"	0.120"	5.120	3.900
4"	$4\frac{1}{8}$"	4.125"	0.134"	6.510	5.060
5"	$5\frac{1}{8}$"	5.125"	0.160"	9.670	8.000
6"	$6\frac{1}{8}$"	6.125"	0.192"	13.870	11.200
8"	$8\frac{1}{8}$"	8.125"	0.271"	25.900	19.500
10"	$10\frac{1}{8}$"	10.125"	0.338"	40.300	30.423
12"	$12\frac{1}{8}$"	12.125"	0.405"	57.800	43.675

Steel Pipe Data — Schedule No 40 & 80

Nominal Size (In.)	O.D. (In.)	Schedule No.	Wall Thick. (In.)	Weight. per Foot (lbs)	Weight of Water per Foot (lbs)
$\frac{3}{8}$"	0.675"	40	0.091"	0.567	0.083
		80	0.126"	0.738	0.061
$\frac{1}{2}$"	0.840"	40	0.109"	0.850	0.132
		80	0.147"	1.087	0.101
$\frac{3}{4}$"	1.050"	40	0.113"	1.130	0.230
		80	0.154"	1.473	0.186
1"	1.315"	40	0.133"	1.678	0.374
		80	0.179"	2.171	0.311
$1\frac{1}{4}$"	1.660"	40	0.140"	2.272	0.647
		80	0.191"	2.996	0.555
$1\frac{1}{2}$"	1.900"	40	0.145"	2.717	0.882
		80	0.200"	3.631	0.765
2"	2.375"	40	0.154"	3.652	1.452
		80	0.218"	5.022	1.279
$2\frac{1}{2}$"	2.875"	40	0.203"	5.790	2.072
		80	0.276"	7.660	1.834
3"	3.500"	40	0.216"	7.570	3.200
		80	0.300"	10.250	2.860
$3\frac{1}{2}$"	4.000"	40	0.226"	9.110	4.280
		80	0.318"	12.510	3.850
4"	4.500"	40	0.237"	10.790	5.510
		80	0.337"	14.980	4.980
5"	5.563"	40	0.258"	14.620	8.660
		80	0.375"	20.780	7.870
6"	6.625"	40	0.280"	18.970	12.510
		80	0.432"	28.570	11.290
8"	8.625"	40	0.322"	28.550	21.600
		80	0.500"	43.390	19.800
10"	10.750"	40	0.365"	40.480	34.100
		80	0.593"	64.400	31.100
12"	12.75"	40	0.406"	53.600	48.500
		80	0.687"	88.600	44.000
14"	14.000"	40	0.437"	63.000	58.500
		80	0.750"	107.000	51.200
16"	16.000"	40	0.500"	83.000	76.500
		80	0.843"	137.000	69.700
18"	18.000"	40	0.563"	105.000	97.200
		80	0.937"	171.000	88.500
20"	20.000"	40	0.593"	123.000	120.400
		80	1.031"	209.000	109.400

PVC and CPVC Pipes - Schedule 40 (inches)					
Nominal Pipe Size	Outside Diameter	Minimum Wall Thickness	Nominal Inside Diameter	Weight (lb/100 ft)	
				PVC	CPVC
½"	0.840"	0.109"	0.622"	16	17
¾"	1.050"	0.113"	0.824"	21	23
1"	1.315"	0.133"	1.049"	32	34
1¼"	1.660"	0.140"	1.380"	43	46
1½"	1.900"	0.145"	1.610"	51	55
2"	2.375"	0.154"	2.067"	68	74
2½"	2.875"	0.203"	2.469"	107	118
3"	3.500"	0.216"	3.068"	141	154
4"	4.500"	0.237"	4.026"	201	220
5"	5.563"	0.258"	5.047"	273	–
6"	6.625"	0.280"	6.065"	353	386
8"	8.625"	0.322"	7.981"	539	581
10"	10.750"	0.365"	10.020"	755	824
12"	12.750"	0.406"	11.938"	1001	1089
14"	14.000"	0.438"	13.124"	1180	–
16"	16.000"	0.500"	15.000"	1543	–

PVC and CPVC Pipes - Schedule 80 (inches)					
Nominal Pipe Size	Outside Diameter	Minimum Wall Thickness	Nominal Inside Diameter	Weight (lb/100 ft)	
				PVC	CPVC
½"	0.840"	0.147"	0.546"	20	22
¾"	1.050"	0.154"	0.742"	27	30
1"	1.315"	0.179"	0.957"	41	44
1¼"	1.660"	0.191"	1.278"	52	61
1½"	1.900"	0.200"	1.500"	67	74
2"	2.375"	0.218"	1.939"	95	102
2½"	2.875"	0.276"	2.323"	145	156
3"	3.500"	0.300"	2.900"	194	209
4"	4.500"	0.337"	3.826"	275	305
5"	5.563"	0.375"	4.813"	387	–
6"	6.625"	0.432"	5.761"	542	582
8"	8.625"	0.500"	7.625"	805	883
10"	10.750"	0.593"	9.564"	1200	1309
12"	12.750"	0.687"	11376"	1650	180
14"	14.000"	0.750"	12.500"	1930	–
16"	16.000"	0.843"	14.314"	2544	–

PVC - Wall Schedule 40 - Support Spacing (feet)			
NPS (inches)	Operating Temperature (°F)		
	60	100	140
½"	4½	4	2½
¾"	5	4	2 ½
1"	5½	4½	2½
1¼"	5½	5	3
1½"	6	5	3
2"	6	5	3
3"	7	6	3½
4"	7½	6½	4
6"	8½	7½	4½
8"	9	8	4½

PVC - Wall Schedule 80 - Support Spacing (feet)			
NPS (inches)	Operating Temperature (°F)		
	60	100	140
½"	5	4½	2½
¾"	5½	4½	2½
1"	6	5	3
1¼"	6½	5½	3½
1½"	7	6	3½
2"	8	7	4
3"	9	7½	4½
4"	10	9	5
6"	11	9½	5½
8"	9	8	4½

Hydraulic Hose - No Skive SAE 100R1 Type AT				
SAE Number	Hose I.D.		Hose O.D.	
	(in.)	(mm)	(in.)	(mm)
SAE-3	3/16"	5.0	0.46"	12
SAE-4	¼"	6.3	0.53"	13
SAE-5	5/16"	8.0	0.59"	15
SAE-6	⅜"	10.0	0.68"	17
SAE-8	½"	12.5	0.81"	21
SAE-10	⅝"	16.0	0.94"	24
SAE-12	¾"	19.0	1.09"	28
SAE-16	1"	25.0	1.41"	36
SAE-20	1-¼"	31.5	1.79"	45
SAE-24	1-½"	38.0	2.00"	51
SAE-32	2"	51.0	2.54"	64

Hydraulic Hose - No Skive SAE 100R2 Type AT - ISO 1436 Type 2AT - EN 853 Type 2SN				
SAE Number	Hose I.D.		Hose O.D.	
	(in.)	(mm)	(in.)	(mm)
SAE-4	¼"	6.3	0.53"	13
SAE-5	5/16"	8.0	0.59"	15
SAE-6	⅜"	10.0	0.68"	17
SAE-8	½"	12.5	0.81"	21
SAE-10	⅝"	16.0	0.94"	24
SAE-12	¾"	19.0	1.09"	28
SAE-16	1"	25.0	1.41"	36
SAE-20	1-¼"	31.5	1.79"	45
SAE-24	1-½"	38.0	2.00"	51
SAE-32	2"	51.0	2.54"	64

Hydraulic Hose - SAE 100R16 Type AT				
SAE Number	Hose I.D.		Hose O.D.	
	(in.)	(mm)	(in.)	(mm)
SAE-4	¼"	6.3	0.53"	13
SAE-5	5/16"	8.0	0.59"	15
SAE-6	⅜"	10.0	0.68"	17
SAE-8	½"	12.5	0.81"	21
SAE-10	⅝"	16.0	0.94"	24
SAE-12	¾"	19.0	1.09"	28
SAE-16	1"	25.0	1.41"	36

Hydraulic Hose - No Skive SAE 100R17 Abrasion Resistant "Tough Cover" and "Super Tough" Cover				
SAE Number	Hose I.D.		Hose O.D.	
	(in.)	(mm)	(in.)	(mm)
SAE-4	¼"	6.3	0.53"	13
SAE-6	⅜"	10.0	0.68"	17
SAE-8	½"	12.5	0.81"	21
SAE-10	⅝"	16.0	0.94"	24
SAE-12	¾"	19.0	1.09"	28
SAE-16	1"	25.0	1.41"	36
SAE-20	1-¼"	31.5	1.79"	45

Fraction Conversion Table

IDEAL TRIDON GROUP

Fractions	Decimal (in)	Metric (mm)
1/64	0.016"	0.40
1/32	0.031"	0.79
	0.039"	1
3/64	0.047"	1.19
1/16	0.063"	1.59
5/64	0.078"	1.98
	0.079"	2
3/32	0.094"	2.38
7/64	0.109"	2.78
	0.118"	3
1/8	0.125"	3.18
9/64	0.141"	3.57
5/32	0.156"	3.97
	0.157"	4
11/64	0.172"	4.37
3/16	0.188"	4.76
	0.197"	5
13/64	0.203"	5.16
7/32	0.219"	5.56
15/64	0.234"	5.95
	0.236"	6
1/4	0.250"	6.35
17/64	0.266"	6.75
	0.276"	7
9/32	0.281"	7.14
19/64	0.297"	7.54
5/16	0.313"	7.94
	0.315"	8
21/64	0.328"	8.33
11/32	0.344"	8.73
	0.354"	9
23/64	0.359"	9.13
3/8	0.375"	9.53
25/64	0.391"	9.92
	0.394"	10
13/32	0.406"	10.32
27/64	0.422"	10.72
	0.433"	11
7/16	0.438"	11.11
29/64	0.453"	11.51
15/32	0.469"	11.91
	0.472"	12
31/64	0.484"	12.30
1/2	0.500"	12.70
	0.512"	13
33/64	0.516"	13.10
17/32	0.531"	13.49
35/64	0.547"	13.89
	0.551"	14
9/16	0.563"	14.29
37/64	0.578"	14.68
	0.591"	15
19/32	0.594"	15.08
39/64	0.609"	15.48
5/8	0.625"	15.88
	0.630"	16
41/64	0.641"	16.27
21/32	0.656"	16.67
	0.669"	17
43/64	0.672"	17.07
11/16	0.688"	17.46
45/64	0.703"	17.86
	0.709"	18
23/32	0.719"	18.26
47/64	0.734"	18.65
	0.748"	19

Fractions	Decimal (in)	Metric (mm)
3/4	0.750"	19.05
49/64	0.766"	19.45
25/32	0.781"	19.84
	0.787"	20
51/64	0.797"	20.24
13/16	0.813"	20.64
53/64	0.828"	21.03
27/32	0.844"	21.43
55/64	0.859"	21.83
7/8	0.875"	22.23
57/64	0.891"	22.62
29/32	0.906"	23
59/64	0.922"	23.42
15/16	0.938"	23.81
61/64	0.953"	24.21
31/32	0.969"	24.61
63/64	0.984"	25
1	1"	25.40
1 1/32	1.031"	26.19
1 1/16	1.063"	26.99
1 3/32	1.094"	27.78
1 1/8	1.125"	28.58
1 5/32	1.156"	29.37
	1.181"	30
1 3/16	1.188"	30.16
1 7/32	1.219"	30.96
1 1/4	1.250"	31.75
1 9/32	1.281"	32.54
1 5/16	1.313"	33.34
1 11/32	1.344"	34.13
1 3/8	1.375"	34.93
	1.378"	35
1 13/32	1.406"	35.72
1 7/16	1.438"	36.51
1 15/32	1.469"	37.31
1 1/2	1.500"	38.10
1 17/32	1.531"	38.89
1 9/16	1.563"	39.69
	1.575"	40
1 19/32	1.594"	40.48
1 5/8	1.625"	41.28
1 21/32	1.656"	42.07
1 11/16	1.688"	42.86
1 23/32	1.719"	43.66
1 3/4	1.750"	44.45
	1.772"	45
1 25/32	1.781"	45.24
1 13/16	1.813"	46.04
1 27/32	1.844"	46.83
1 7/8	1.875"	47.63
1 29/32	1.906"	48.42
1 15/16	1.938"	49.21
	1.969"	50
1 31/32	1.969"	50.01
2	2"	50.80
2 1/32	2.031"	51.59
2 1/16	2.063"	52.39
2 3/32	2.094"	53.18
2 1/8	2.125"	53.98
2 5/32	2.156"	54.77
	2.165"	55
2 3/16	2.188"	55.56
2 7/32	2.219"	56.36
2 1/4	2.250"	57.15
2 9/32	2.281"	57.94
2 5/16	2.313"	58.74

Fractions	Decimal (in)	Metric (mm)
2 11/32	2.344"	59.53
	2.362"	60
2 3/8	2.375"	60.33
2 13/32	2.406"	61.12
2 7/16	2.438"	61.91
2 15/32	2.469"	62.71
2 1/2	2.500"	63.50
2 17/32	2.531"	64.29
	2.559"	65
2 9/16	2.563"	65.09
2 19/32	2.594"	65.88
2 5/8	2.625"	66.68
2 21/32	2.656"	67.47
2 11/16	2.688"	68.26
2 23/32	2.719"	69.06
2 3/4	2.750"	69.85
	2.756"	70
2 25/32	2.781"	70.64
2 13/16	2.813"	71.44
2 27/32	2.844"	72.23
2 7/8	2.875"	73.03
2 29/32	2.906"	73.82
2 15/16	2.938"	74.61
	2.953"	75
2 31/32	2.969"	75.41
3	3"	76.20
3 1/32	3.031"	76.99
3 1/16	3.063"	77.79
3 3/32	3.094"	78.58
3 1/8	3.125"	79.38
	3.150"	80
3 5/32	3.156"	80.17
3 3/16	3.188"	80.96
3 7/32	3.219"	81.76
3 1/4	3.250"	82.55
3 9/32	3.281"	83.34
3 5/16	3.313"	84.14
3 11/32	3.344"	84.93
	3.346"	85
3 3/8	3.375"	85.73
3 13/32	3.406"	86.52
3 7/16	3.438"	87.31
3 15/32	3.469"	88.11
3 1/2	3.500"	88.90
3 17/32	3.531"	89.69
	3.543"	90
3 9/16	3.563"	90.49
3 19/32	3.594"	91.28
3 5/8	3.625"	92.08
3 21/32	3.656"	92.87
3 11/16	3.688"	93.66
3 23/32	3.719"	94.46
	3.740"	95
3 3/4	3.750"	95.25
3 25/32	3.781"	96.04
3 13/16	3.813"	96.84
3 27/32	3.844"	97.63
3 7/8	3.875"	98.43
3 29/32	3.906"	99.22
	3.937"	100
3 15/16	3.938"	100.01
3 31/32	3.969"	100.81
4	4"	101.60
4 1/16	4.063"	103.19
4 1/8	4.125"	104.78
4 3/16	4.188"	106.36

Fractions	Decimal (in)	Metric (mm)
4 1/4	4.250"	107.95
4 5/16	4.313"	109.54
	4.331"	110
4 3/8	4.375"	111.13
4 7/16	4.438"	112.71
4 1/2	4.500"	114.30
4 9/16	4.563"	115.89
4 5/8	4.625"	117.48
4 11/16	4.688"	119.06
	4.724"	120
4 3/4	4.750"	120.65
4 13/16	4.813"	122.24
4 7/8	4.875"	123.83
4 15/16	4.938"	125.41
5	5"	127.00
	5.118"	130
5 1/4	5.250"	133.35
5 1/2	5.500"	139.70
	5.512"	140
5 3/4	5.750"	146.05
	5.906"	150
6	6"	152.40
6 1/4	6.250"	158.75
	6.299"	160
6 1/2	6.500"	165.10
	6.693"	170
6 3/4	6.750"	171.45
7	7"	177.80
	7.087"	180
	7.480"	190
7 1/2	7.500"	190.50
	7.874"	200
8	8"	203.20
8 1/2	8.500"	215.90
9	9"	228.60
9 1/2	9.500"	241.30
	9.843"	250
10	10"	254.00
11	11"	279.40
	11.811"	300
12	12"	304.80
13	13"	330.20
	13.780"	350
14	14"	355.60
15	15"	381.00
	15.748"	400
16	16"	406.40
17	17"	431.80
	17.717"	450
18	18"	457.20
19	19"	482.60
	19.685"	500
20	20"	508.00

Part Number Index

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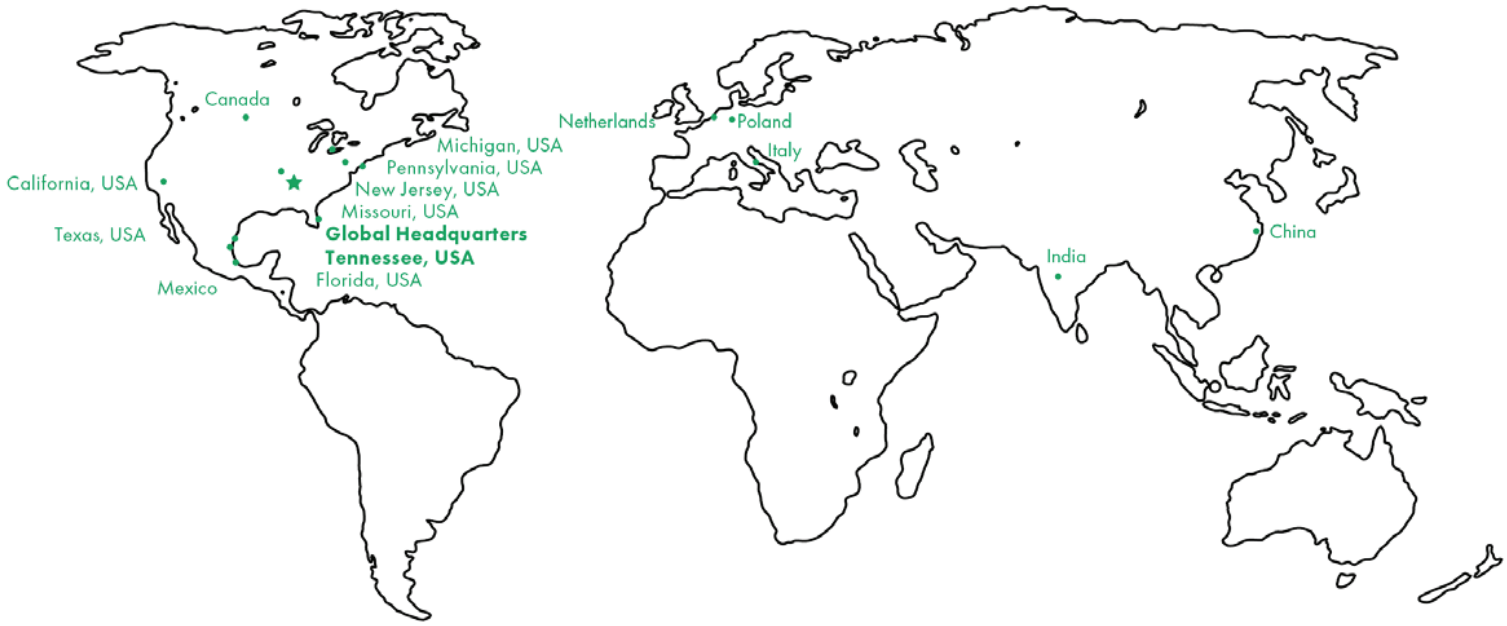

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