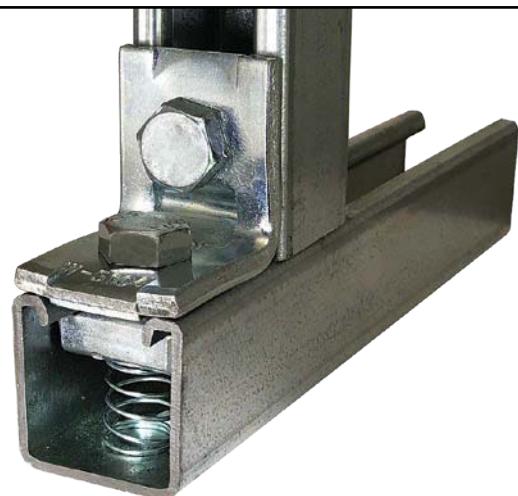
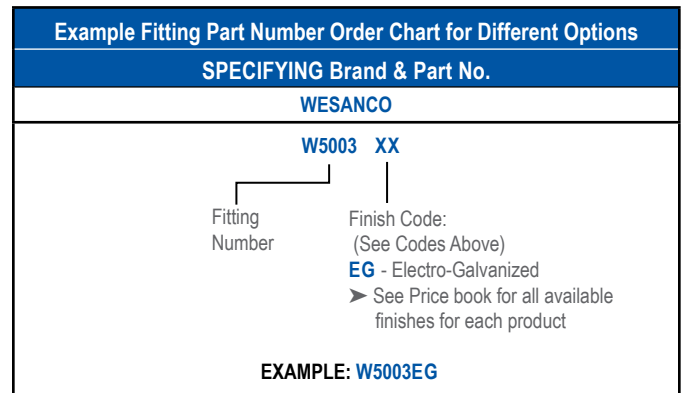
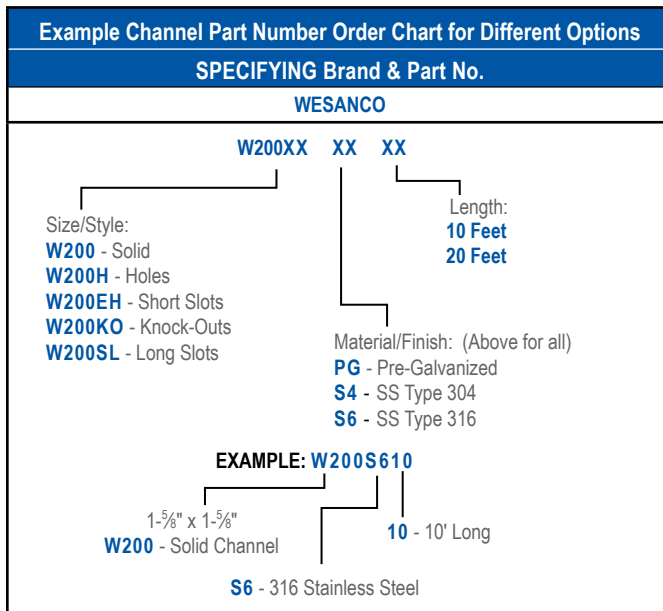


Part Number		
Channel Finish or Material Order Codes		
Material/Finish	SPECIFYING Brand Material/Finish Codes	Description
Electroplated	EG	Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B 633.
Mill-Galvanized (Pre-Galvanized)	PG	Galvanized steel used in the manufacture 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	HG	Channel and fittings which are hot dip galvanized after fabrication.
Paint-Green Powder Coating	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	Approved for outdoor as well as indoor applications. It is a chrome free duplex coating system that combines an inorganic zinc-rich base coat with an aluminum-rich organic topcoat.
Plain	PL	Other commercially available finishes can be supplied per specification when required to protect applications.
Special Coatings Yellow Passivate (Trivalent Chromium)	YZ	Fittings and hardware supplied as "Electro-Galvanized" in accordance with ASTM B633, with a "Yellow" Dichromate conversion coat versus the clear conversion coat of the EG finish.
Stainless Steel: Channel	Type 304	Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel.
	Type 316	
Aluminum: Channel	AL	Aluminum alloy extruded bar, rod, wire, shape and tube.
Fiberglass: Polyester	PF	General purpose resin with good corrosion resistance for most applications. Standard color gray
Fiberglass: Vinyl Ester	VF	Premium grade resin with excellent corrosion resistance. Standard color beige
Fiberglass: Polyurethane	PU	Glass filled polyurethane which is highly corrosion resistant



General Information

Most channels are produced in 10 and 20 foot lengths (*3m and 6m*) with a length tolerance of plus or minus $\frac{1}{16}$ ".

W600 and W700 are produced in 10 foot lengths (*3m*) 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-4.

Material

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

Design

Design is based on AISI S100-2016 "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 S100-2016 "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" (*51mm to 76mm*) on center.

Channel Nuts

General

Channel nuts are formed or stamped from steel bar stock and is case hardened after all forming and tapping 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-4.

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 Wesanco 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 μ m to 12.7 μ m*).

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 base coat with an aluminum-rich organic topcoat.

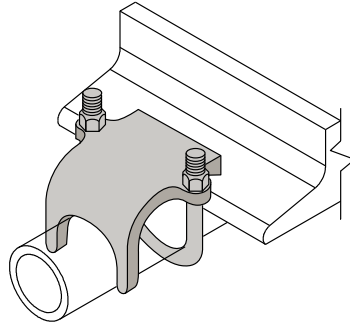
Special Coatings

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

Standard Finish: Electro Galvanized (EG)

Right Angle Clamps

Standard finish: Hot Dip Galv.

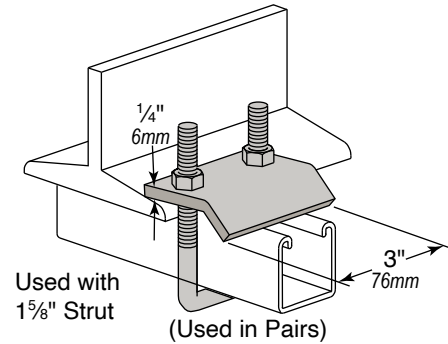


SPECIFYING Brand & Part No.	Pipe Size	DISCONTINUED Brands & Part No.	
		VERSABAR	FLORIDA STRUT
WESANCO			
RTA037	3/8" (DN10)	VX2037	--
RTA050	1/2" (DN15)	VX2050 *	RA0050
RTA075	3/4" (DN20)	VX2075 *	RA0075
RTA100	1" (DN25)	VX2100 *	RA0100
RTA125	1-1/4" (DN32)	VX2125 *	RA0125
RTA150	1-1/2" (DN40)	VX2150 *	RA0150
RTA200	2" (DN50)	VX2200 *	RA0200
RTA250	2-1/2" (DN65)	VX2250 *	RA0250
RTA300	3" (DN80)	VX2300 *	RA0300
RTA350	3-1/2" (DN90)	VX2350 *	RA0350
RTA400	4" (DN100)	VX2400 *	RA0400

* Available in stainless steel type 316. Add suffix "-SS316" to part no.

Strut to Beam Clamps with Square U-Bolt

For 1 3/16" & 1-5/8" Channel

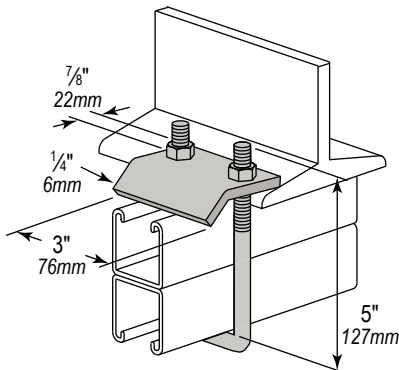


SPECIFYING Brand & Part No.	Allowable Load Lbs. (kN)	DISCONTINUED Brands & Part No.	
		VERSABAR	FLORIDA STRUT
WESANCO			
W5709	1,200 (5.34 kN)	VX7038A	BC60

Load capacity when used in pairs

Strut to Beam Clamps with Square U-Bolt

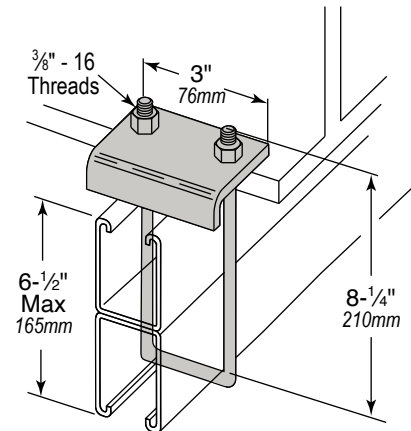
For 2-7/16" & 3-1/4" Channel



SPECIFYING Brand & Part No.	Allowable Load Lbs. (kN)	DISCONTINUED Brands & Part No.	
		VERSABAR	FLORIDA STRUT
WESANCO			
W5708	1,200 (5.34 kN)	VX7038B	BC61

Load capacity when used in pairs

"U" Bolt Beam Clamps (Long) for 6-1/2" maximum



SPECIFYING Brand & Part No.	Allowable Load Lbs. (kN)	DISCONTINUED Brands & Part No.	
		VERSABAR	FLORIDA STRUT
WESANCO			
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.

