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CATALOGUE V2.21

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GENERAL INFORMATION

CHANNELS

Sasco Strut Channels are precisely cold formed from low carbon steel on our roll forming mills. The channel's inturred edges on the continuous slot and the design of our clamping nuts ensure positive locking.

CLAMPING NUTS

Sasco Clamping Nuts are manufactured from mild steel bar, case hardened and electroplated with zinc to ASTM B633 Type III SC1.

FITTINGS

Unless otherwise specified, all Sasco fittings are manufactured from hot rolled pickled and oiled steel. Fittings are then coated with zinc through either electroplating, electroplating plus a conversion coat and finally proprietary topcoat, or hot dip galvanizing. Many fittings are available in stainless steel Type 304 and Type 316. Aluminum, fibreglass, powder coated and painted finishes are available upon request.

STANDARD FINISHES

HOT DIP GALVANIZED (HG)

Steel strut channels and fittings are hot dip galvanized after fabrication and conform to ASTM A123 or A153.

PRE-GALVANIZED (G)

Steel sheet is coated with zinc using a hot dip process prior to manufacturing. The minimum weight of zinc is G90 under the general requirements of ASTM A653 (G90).

ELECTROPLATED ZINC (EG)

Parts are electroplated with zinc after fabrication to conform to ASTM B633 Type III SC1.

PLAIN (P)

The steel has a light surface coating of oil, just as it comes from the mill.

SPECIAL COATINGS

Special zinc based plating, paint, powder coat, epoxy and PVC coatings can be supplied to your specifications.

DIMENSIONS

All dimensions shown are subject to commercial tolerances.

We reserve the right to change specifications without prior notice for the purpose of improving our product.

MANUFACTURED BY

Sasco Tubes and Roll Forming Inc.
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sales@sascocan.com



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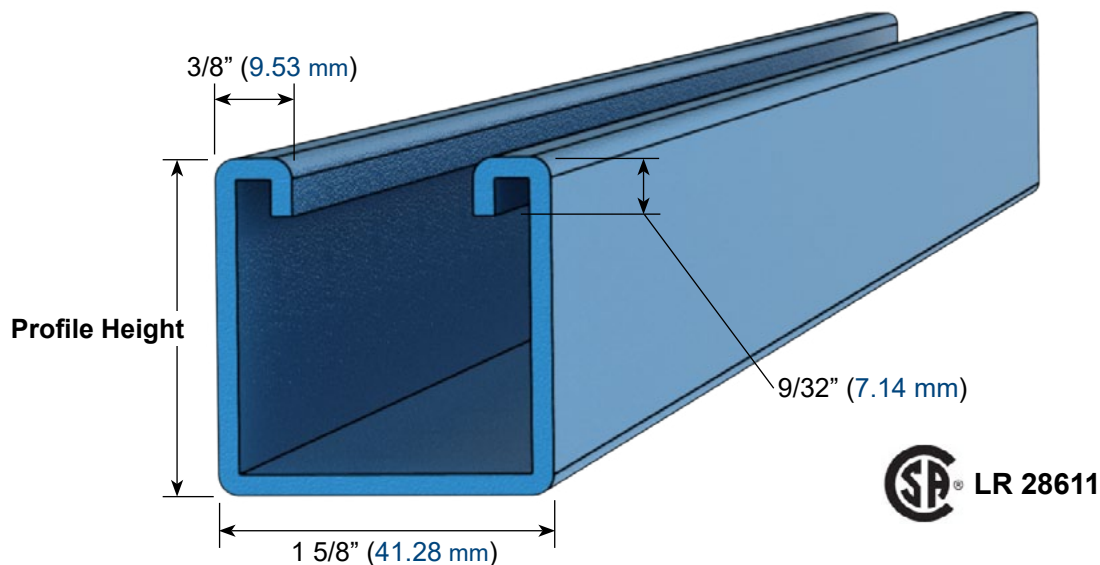
PIPE AND CABLE CLAMPS

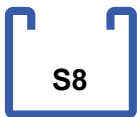
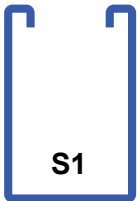
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STRUT CHANNEL: SINGLE CHANNEL

STEEL SINGLE CHANNEL: PROFILES

Sasco offers an extensive range of sizes, gauges and multiple combinations of strut channels. Each channel incorporates a continuous slot along the full length and intumed edges that allow infinite design possibilities and cost effective installations. Standard lengths are 10 feet (-120) and 20 feet (-240). Custom lengths are also available. Many Sasco Strut Channels are CSA certified for use as electrical raceways when used as outlined on page 39. Engineering data is found on page 45.



Height (mm)	$\frac{13}{16}$ " 20.64	1" 25.40	$1 \frac{3}{8}$ " 34.93	$1 \frac{5}{8}$ " 41.28	$2 \frac{7}{16}$ " 61.91	$3 \frac{1}{4}$ " 82.55
12 GA						
14 GA						
16 GA						

Example part numbers with Channel Profile highlighted:

S2 SL2-G120

S5 G-240

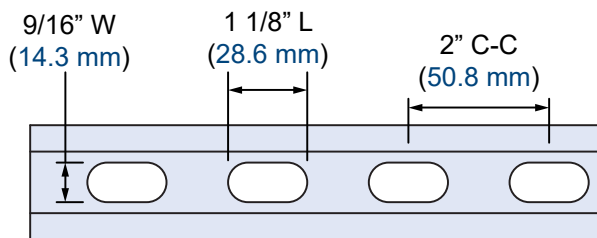
S6 AL-120

STRUT CHANNEL: PRE-PUNCHED PATTERN

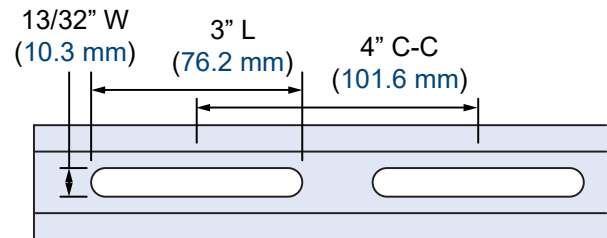
SLOTS AND HOLES

Sasco's Slotted Strut Channels provide adjustment for wall mounting, constructing trapeze supports and other suspension and mounting applications. Pre-galvanized steel is standard (-G). Also available in hot dip galvanized (HG) and plain steel (P). For availability of slots in stainless steel (SS), aluminum (AL) and fibreglass (FG), please consult Sasco. Also available in custom hole patterns.

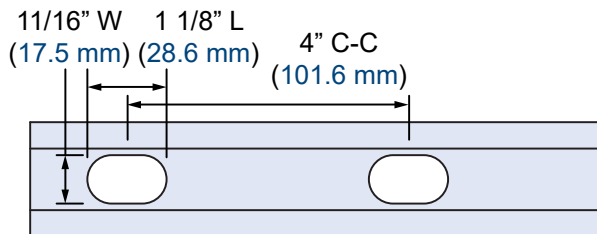
SL2 MOST COMMON



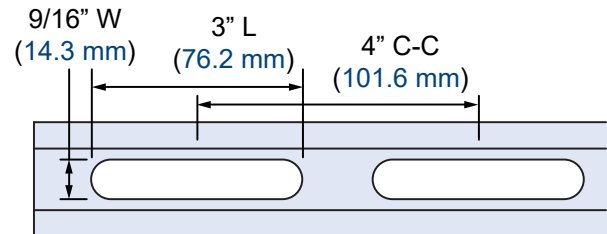
SL4



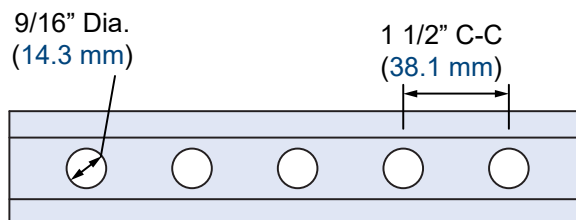
SL6



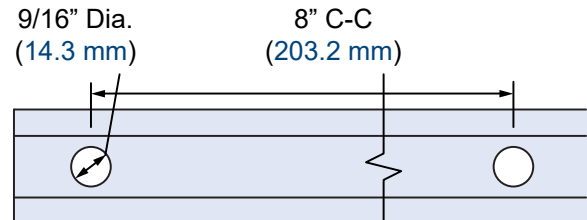
SL9



H112



H8



Example part numbers with Pre-Punch Pattern highlighted:

S2 **SL2** -G240

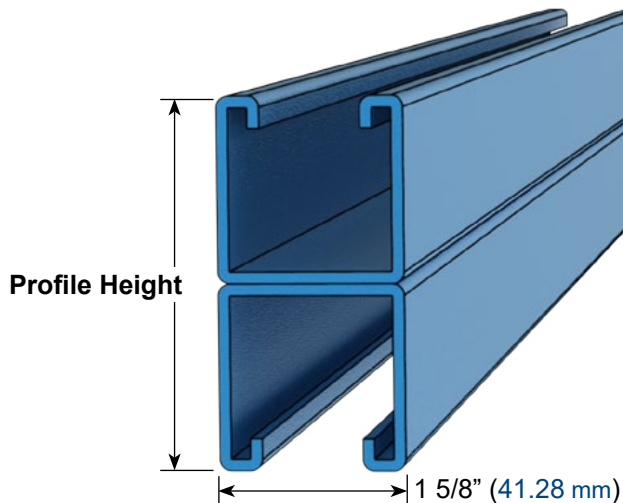
S2 **H112** -G120

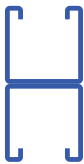
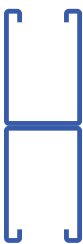
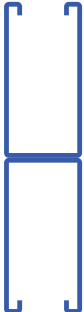
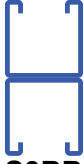
S6 **SL2** AL120

STRUT CHANNEL COMBINATION: BACK-TO-BACK

STEEL BACK-TO-BACK PROFILES

Sasco's Back-to-back channels are available in a variety of profiles, materials and finishes. Back-to-back steel and stainless steel strut channels are spot welded on approx. 3" centres. Standard lengths are 10 feet (-120) and 20 feet (-240). Custom lengths are also available. Engineering data is found on page 45.



Height (mm)	1 5/8" 41.28	2" 50.80	2 3/4" 69.85	3 1/4" 82.55	4 7/8" 123.83	6 1/2" 165.10
12 GA		 S5BB	 S8BB	 S2BB	 S1BB	 S9BB
14 GA	 S7BB			 S4BB		
16 GA	 S6BB			 S3BB		

Example part numbers with Channel Profile highlighted:

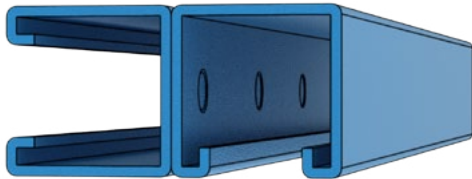
S5BB SS4-120

S1BB G-240

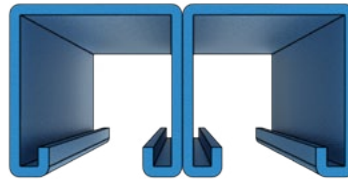
S9BB HG-120

STRUT CHANNEL COMBINATION: OTHER

Sasco Combination Strut Channels are available in pre-galvanized (G), hot dip galvanized (HG), and plain steel (P), as well as stainless steel types 304 (SS4) and 316 (SS6). Please consult Sasco for details and availability.



BACK-TO-SIDE



SIDE-TO-SIDE



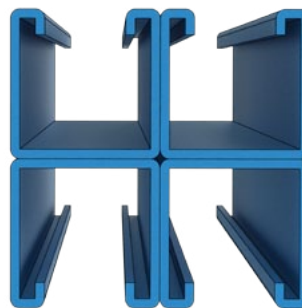
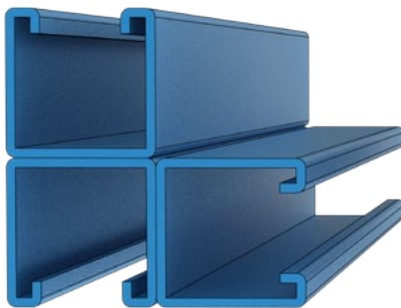
ONE-UP-ONE-DOWN

Back-to-side (**BS-**) combination strut is spot welded on approximately 3" centers.

Side-to-side (**SS-**) and one-up-one-down (**UN-**) combinations are seam welded on ends and on staggered 6" centres (1" bead).

For part numbers, write single channel Catalogue Prefix (page 4), Combination Code (BS-, SS- or UN-), and add finish and length in inches. Similar to back-to-back channel Catalogue Numbers (S2SS-G-120).

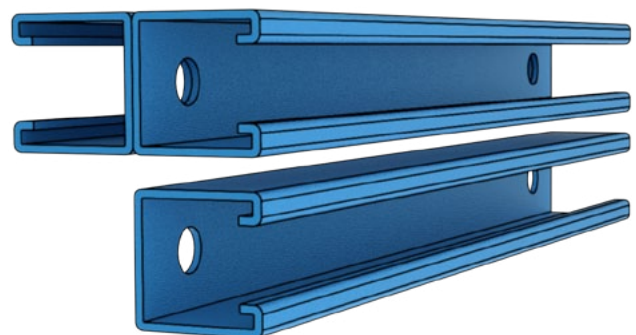
Triple and other combinations in steel and stainless steel are also available. Consult Sasco for further combinations and availability.



STRUT CHANNEL: PRE-PUNCHED

TRAPEZE SUPPORTS

Manufactured to meet your requirements. Specify strut channel and length, as well as the slot or hole pattern (see Sasco Pre-punched Channel on page 5).



STRUT CHANNEL: FINISHES AND MATERAILS

Sasco Strut Channels are roll formed from 33,000 psi steel. Steel channel engineering data is found on page 45.

Special coatings (paint, epoxy, PVC) can be supplied to your specification. Please consult Sasco for availability.

PRE-GALVANIZED STEEL

The standard material for Sasco Strut Channels. Steel sheet is coated with zinc using a hot dip process prior to manufacturing. The minimum weight of zinc is G90 under the general requirements of ASTM A653 (G90).

Use **G** in a part number to specify pre-galvanized finish

HOT DIPPED GALVANIZED STEEL

Steel strut channels and fittings are hot dip galvanized after fabrication and conform to ASTM A123 or A153.

Use **HG** in a part number to specify hot dip galvanized finish

PLAIN STEEL

The steel has a light surface coating of oil, just as it comes from the mill.

Use **-P** in a part number to specify plain steel finish

STAINLESS STEEL

Sasco Strut Channels are available in stainless steel in the following profiles:

Type: T304

Catalogue Prefix	H (Inches)	(mm)	Thickness (Inches)
S2SS4	1 5/8	41.28	0.090
S5SS4	1	25.40	0.090
S2BBSS4	3 1/4	82.66	0.090
S5BBSS4	2	50.80	0.090

Type: T316

Catalogue Prefix	H (Inches)	(mm)	Thickness (Inches)
S2SS6	1 5/8	41.28	0.090
S5SS6	1	25.40	0.090
S2BBSS6	3 1/4	82.66	0.090
S5BBSS6	2	50.80	0.090

ALUMINUM

Sasco Strut Channels are available in aluminum, extruded in the following profiles:

Catalogue Prefix	H (Inches)	(mm)	Thickness (Inches)	Alloy/Temper
S1AL-	2 7/16	61.91	0.081	6063/T5
S2AL-	1 5/8	41.28	0.081	6063/T5
SH2AL-	1 5/8	41.28	0.103	6005A/T5
S6AL-	13/16	20.64	0.070	6063/T5
S2BB-AL	3 1/4	82.55	0.081	6063/T5

Example part numbers with material/finish highlighted:

S2 **G** -120

S2SL2 **HG** 240

S6AL- 120

STRUT CHANNEL: LENGTHS

Standard lengths are 10 feet (120") and 20 feet (240"). Specify length in inches when ordering.

Sasco Strut Channel can be manufactured to custom lengths at the factory in a variety of materials, finishes and pre-punched patterns. Efficiencies are gained by eliminating errors on-site, reducing consumables in the field, and streamlining site delivery. A cost-effective option. Please consult Sasco for details.

Note: the best production efficiency of Pre-Punched and Slotted Strut Channel is achieved when lengths are in multiples of the slot pattern centres "C" shown on page 5.

Example part numbers with specified length highlighted:

S2G- **240**

S5SS4- **120**

S2SL2HG- **48**

STRUT CHANNEL: MINI

Sasco offers a selection of Mini Strut Channels 13/16" wide. See page 44 for more information and fittings.

STRUT CHANNEL: FIBREGLASS

Catalogue Prefix	Profile Height (H)		Side Wall Thickness	
	(Inches)	(mm)	(Inches)	(mm)
S0FG	1 1/8	28.58	3/16	4.76
S2FG	1 5/8	41.28	3/16	4.76
S0BB-FG	2 1/4	57.15	3/16	4.76
S2BB-FG	3 1/4	82.55	3/16	4.76

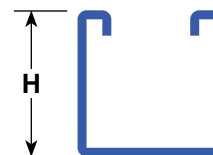
Single channel fiberglass is also available slotted.

Available standard in polyester resin (-P) and upon request in vinylester resin (-V). Consult Sasco for engineering and corrosion data.

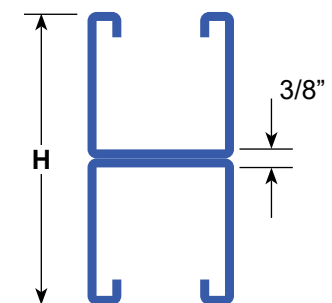
Standard length is 10 feet (-120). Custom lengths available.

Add resin type and length in inches to Catalogue Prefix when ordering (S2FG-P-120).

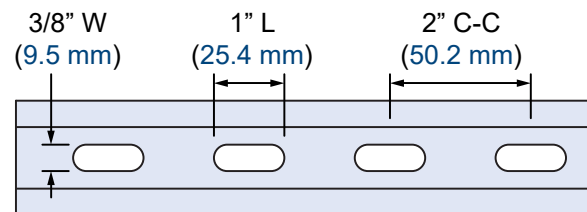
Single Channel:



Back-to-back:



Slot Pattern:



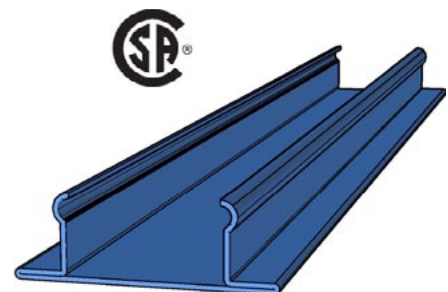
CLOSURE STRIP

Sasco Closure Strip is designed to snap into the continuous slot of all 1 5/8" wide Srtut Channels including steel, stainless steel, aluminum and fiberglass. Due to the design of the self-retaining feature, Sasco Closure Strip can be removed by prying with a tool, such as a screw driver.

S158CS-G Pregalvanized steel, CSA certified for use on electrical raceways when used as outlined on page 38.

S158CSPLAS Grey plastic (Rigid PVC), not CSA certified.

Sasco Closure Strip comes in 10' (3,048 mm) lengths.



STRUT CHANNEL: CONCRETE INSERT

Sasco's Concrete Insert Strut Channels installed in reinforced concrete provide a continuous slot for the precise location of cable, conduit, pipe, hanger rods or frames.

Install Sasco Concrete Insert Strut Channel across the anticipated area of use to save time and money by eliminating the need to drill and install anchors. Use in walls, floors and ceilings.

All inserts are shipped complete with two anchor caps (shown below) and **Ethafoam®** filler. This filler resists the entrance of wet concrete and is easily removed.

Catalogue Prefix	Height (Inches)	Height (mm)	Maximum Allowable Point Load*	
			(Lbs/ft)	(kg/m)
S2CI-	1 5/8	41.3	2000	2975
S8CI-	1 3/8	34.9	1850	2750
S5CI-	1	25.4	1750	2600

*Based on 3500 psi concrete and a safety factor of 3.

The minimum spacing between point loads is 12". Reduce load by 50% if load is located within 2" of an end.

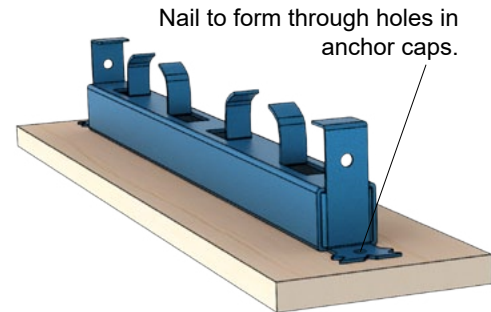
Custom Lengths: concrete insert channel is typically made to custom lengths at the factory. Standard lengths are 10 feet (-120) and 20 feet (-240). See page 9 for detail.

For lengths less than 10 inches (254 mm), see spot inserts below.

Standard finish is pre-galvanized (-G)**. Also available in hot dip galvanized (HG)**.

**Note: anchor caps are electroplated zinc.

Add finish and length in inches to Catalogue Prefix above for Catalogue No. (S2CI-120-G).



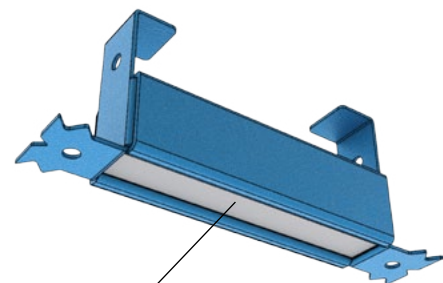
Remove form.
Remove filler.
Insert clamping nuts and install rod or fitting.

CONCRETE INSERT SPOT INSERTS

Catalogue Prefix	Length (Inches)	Length (mm)	Maximum Allowable Point Load*	
			(Lbs)	(kg)
S2CI-3-	3	76.2	500	226.8
S2CI-6-	6	152.4	1000	453.6
S2CI-9-	9	228.6	1200	544.3
S5CI-3-	3	76.2	400	181.4
S5CI-6-	6	152.4	750	340.2
S5CI-9-	9	228.6	1000	453.6

*Based on 3500 psi concrete and a safety factor of 3.

Finishes specified as above (S2CI-6-G).



Removable Ethafoam® filler

CONCRETE INSERT ANCHOR CAPS

S2CI-EG for use with S2CI- Sasco Concrete Insert Strut Channel.

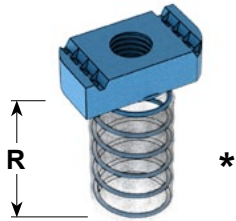
S8CI-EG for use with S8CI- Sasco Concrete Insert Strut Channel.

S5CI-EG for use with S5CI- Sasco Concrete Insert Strut Channel.



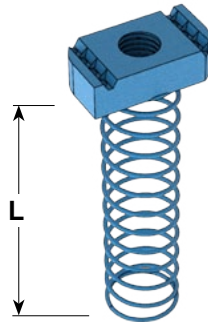
CLAMPING NUTS

Sasco Clamping Nuts are fundamental to the Sasco Suspension System. They ensure positive locking between the nut's serrated grooves and the strut channel. When they are inserted anywhere along the continuous slot of the channel they allow attachment of fittings without drilling or welding. If changes are required, fittings are easily adjusted, removed or reused.



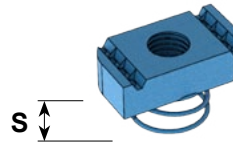
REGULAR SPRING

Used in all 1 5/8" wide Sasco Strut Channels except S5, S6 and S7.



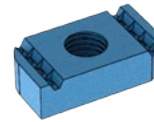
LONG SPRING

Used in Sasco Strut Channels S1 and S9.



SHORT SPRING

Used in Sasco Strut Channels S5, S6 and S7.



WITHOUT SPRING

Used in all 1 5/8" wide Sasco Strut Channels.

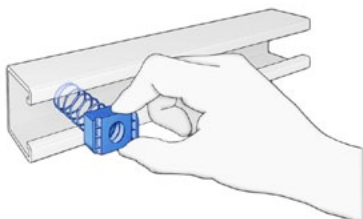
Thread Size	Catalogue Numbers				Spring Length		
Imperial	Regular Spring	Long Spring	Short Spring	Without Spring	R	L	S
1/4" - 20	S14 *	-	S14S	S14W	1.5"	-	0.375"
5/16" - 18	S516*	-	S516S	S516W	1.5"	-	0.375"
3/8" - 16	-	-	S3814S	-	-	-	0.375"
3/8" - 16	S38 *	S38L	-	S38W	1.5"	2.875"	-
1/2" - 13	S12 *	S12L	S12S	S12W	1.5"	2.875"	0.750"
5/8" - 11	S58	S58L	-	S58W	1.5"	2.875"	-
3/4" - 10	S34	S34L	-	S34W	1.5"	2.875"	-
Metric							
M6 - 1.00	S6M	-	S6MS	S6MW	38 mm	-	20 mm
M8 - 1.25	S8M	-	S8MS	S8MW	38 mm	-	20 mm
M10 - 1.50	S10M	-	S10MS	S10MW	38 mm	-	20 mm
M12 - 1.75	S12M	-	S12MS	S12MW	38 mm	-	20 mm

***Sasco Clamping Nuts marked with asterisks have plastic sleeves eliminating tangling during shipping and installation.**

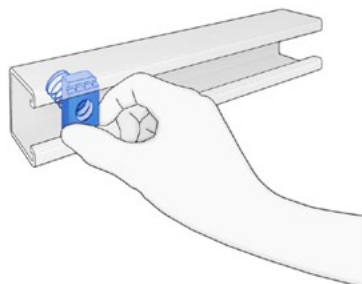
Sasco Steel Clamping Nuts are produced from hot rolled steel ASTM A108 Grades 1015 or 1020. Standard finish is electroplated zinc.

Some sizes available in stainless steel Type 316, hot dip galvanized, aluminum and fiberglass. Consult Sasco for availability.

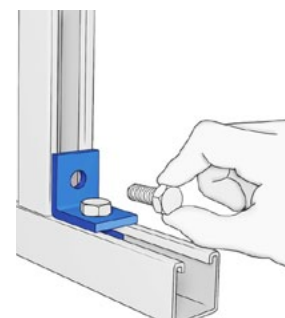
EASY, FAST INSTALLATION:



Insert Sasco Clamping Nut



Turn 90°



Align fitting and tighten bolt

CLAMPING NUTS

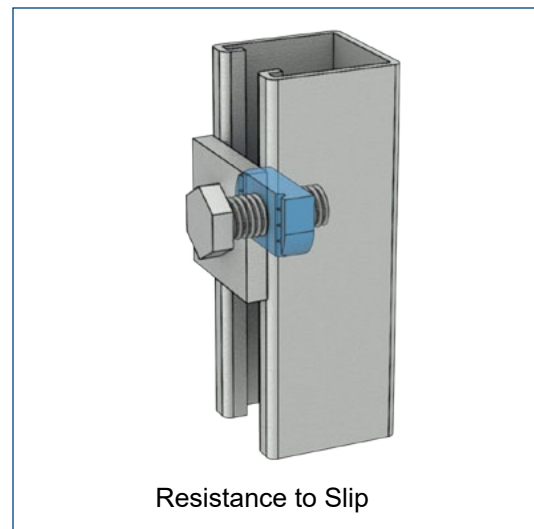
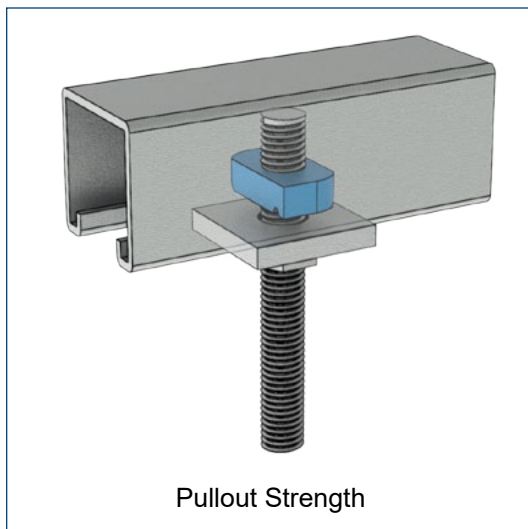
PULLOUT AND RESISTANCE TO SLIP LOADS

Values are based on these recommended torques for Grade 2 bolts:

Bolt Diameter	(Inches) (mm)	1/4 6	5/16 8	3/8 10	1/2 12	5/8 -	3/4 -
Recommended Torque	(Ft.-Lbs) (N·m)	6 8	11 15	19 26	50 68	100 136	125 170

Thread Size	12 Gauge Strut				14 Gauge Strut				16 Gauge Strut			
	Max. Allowable Pullout Strength		Resistance to Slip		Max. Allowable Pullout Strength		Resistance to Slip		Max. Allowable Pullout Strength		Resistance to Slip	
Imperial	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
1/4" - 20	600	2.67	300	1.33	600	2.67	300	1.33	600	2.67	300	1.33
5/16" - 18	750	3.33	450	2.00	750	3.33	450	2.00	750	3.33	450	2.00
S3814S	1500	6.67	800	3.56	1400	6.23	750	3.34	1000	4.45	750	3.34
3/8" - 16	2000	8.90	1500	6.67	1400	6.23	1000	4.45	1000	4.45	1000	4.45
1/2" - 13	2000	8.90	1500	6.67	1400	6.23	1000	4.45	1000	4.45	1000	4.45
5/8" - 11	2000	8.90	1500	6.67	1400	6.23	1000	4.45	1000	4.45	1000	4.45
3/4" - 10	2000	8.90	1500	6.67	1400	6.23	1000	4.45	1000	4.45	1000	4.45
Metric	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN	Lbs	kN
M6 - 1.00	600	2.67	300	1.33	600	2.67	300	1.33	600	2.67	300	1.33
M8 - 1.25	750	3.33	450	2.00	750	3.33	450	2.00	750	3.33	450	2.00
M10 - 1.50	1500	6.67	800	3.56	1400	6.23	750	3.34	1000	4.45	750	3.34
M12 - 1.75	2000	8.90	1500	6.67	1400	6.23	1000	4.45	1000	4.45	1000	4.45

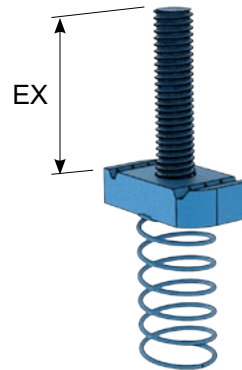
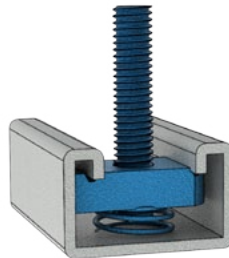
Minimum safety factor of 3.



STUD NUTS

All Sasco Clamping Nuts are available as Stud Nuts (**SN**). To specify, select clamping nut (S38, S34S, S12W, etc.) and length of exposed thread (EX).

An S38 Stud Nut with a $1 \frac{1}{2}$ inch thread exposure is S38SN112EX as a Part Number.
An S38 Stud Nut with a $\frac{3}{4}$ inch thread exposure is S38SN2EX.



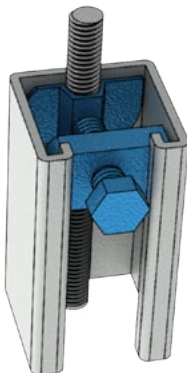
SEISMIC HANGER ROD STIFFENER

Sasco Seismic Hanger Rod Stiffener fastens $1 \frac{5}{8}$ " (41.3 mm) wide x $1 \frac{5}{8}$ " (41.3 mm) SR2 Strut Channel to the hanger rod as required by the design engineer.

Secures $\frac{3}{8}$ " through $\frac{5}{8}$ " diameter rod.

For more detail, refer to the Sasco Seismic Restraint Design Manual.

Standard finish is electroplated zinc.
Stainless steel available upon request.



SR38-RS



PIPE CLAMPS

Sasco's Two-Piece Pipe Clamps provide ease of installation and infinite adjustability along the channel's continuous slot. 20 to 30% more conduits can be mounted in a given area compared to U-bolts, and up to 40% more than with one-hole pipe straps. Sasco Two-Piece Pipe Clamps may be used with all sizes of 1 5/8" wide Sasco Strut Channel.

FOR THIN WALL CONDUIT (EMT):

Catalogue Prefix	Conduit Size (Inches)	Outside Diameter (Inches)	(mm)
S38TW	3/8	0.577	14.66
S12TW	1/2	0.706	17.93
S34TW	3/4	0.922	23.42
S1TW	1	1.163	29.54
S114TW	1 1/4	1.510	38.35
S112TW	1 1/2	1.740	44.20
S2TW	2	2.197	55.80

For sizes larger than 2" (50.8 mm), use equivalent Sasco Rigid Conduit Pipe Clamp.

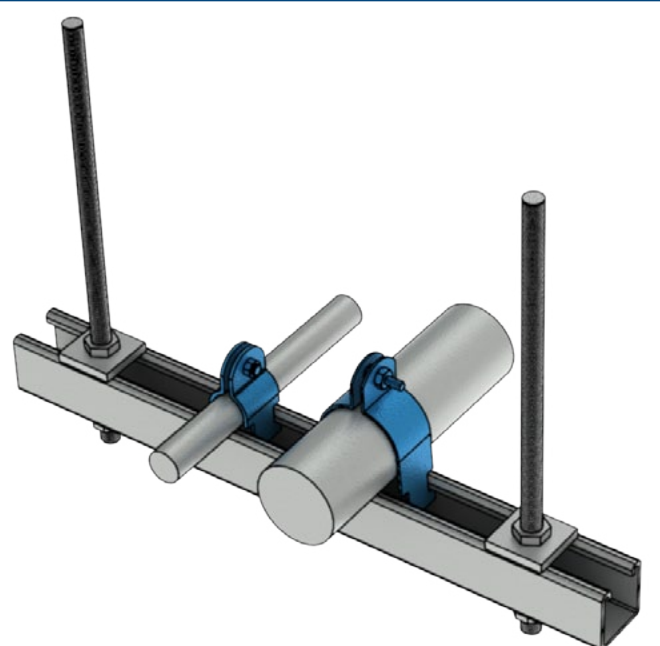
FOR RIGID CONDUIT:

Catalogue Prefix	Conduit Size (Inches)	Outside Diameter (Inches)	(mm)
S38R	3/8	0.675	17.15
S12R	1/2	0.840	21.34
S34R	3/4	1.050	26.67
S1R	1	1.315	33.40
S114R	1 1/4	1.660	42.16
S112R	1 1/2	1.900	48.26
S2R	2	2.375	60.33
S212R	2 1/2	2.875	73.03
S3R	3	3.500	88.90
S312R	3 1/2	4.000	101.60
S4R	4	4.500	114.30
S5R	5	5.563	141.29
S6R	6	6.625	168.28
S8R	8	8.625	219.08
S10.0R	10	10.750	273.05
S12.0R	12	12.750	323.85

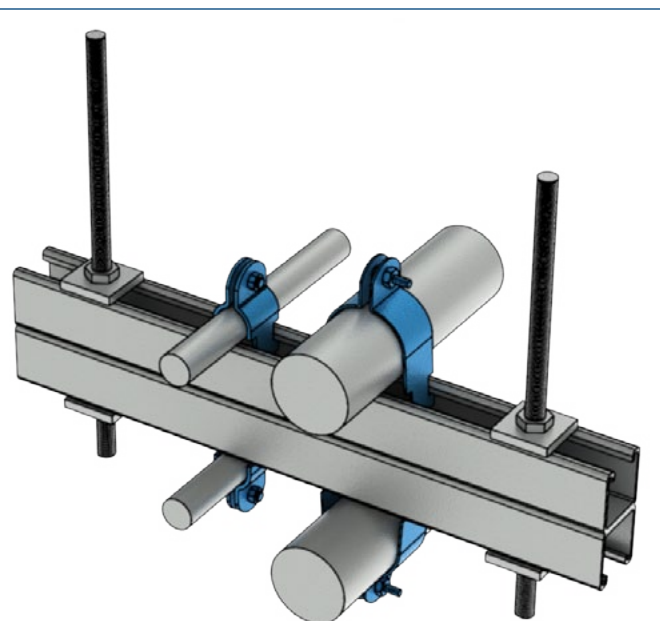
Finishes:

Pre-galvanized (standard)	-G
Hot Dip Galvanized	-HG
Stainless Steel Type 316	-SS
Aluminum	-AL
Fibreglass	-FG

Add finish to Catalogue Prefix for Part No. (S38R-SS).



STANDARD TRAPEZE HANGER



DOUBLE TRAPEZE HANGER

PIPE CLAMPS

Sasco Outside Diameter Pipe Clamps are typically used for tubing, glass pipe, transite pipe, fibre duct and cable.

Catalogue Prefix	Outside Diameter (Inches)	(mm)
S14OD	1/4	6.35
S38OD	3/8	9.53
S12OD	1/2	12.7
S58OD	5/8	15.88
S34OD	3/4	19.05
S78OD	7/8	22.23
S1OD	1	25.40
S118OD	1 1/8	28.58
S114OD	1 1/4	31.75
S138OD	1 3/8	34.93
S112OD	1 1/2	38.10
S158OD	1 5/8	41.28
S134OD	1 3/4	44.45
S178OD	1 7/8	47.63
S2OD	2	50.80
S218OD	2 1/8	53.98
S214OD	2 1/4	57.15
S238OD	2 3/8	60.33
S212OD	2 1/2	63.50
S258OD	2 5/8	66.68
S234OD	2 3/4	69.85
S278OD	2 7/8	73.03
S3OD	3	76.20
S318OD	3 1/8	79.38
S314OD	3 1/4	82.55
S338OD	3 3/8	85.73
S312OD	3 1/2	88.90
S358OD	3 5/8	92.08
S334OD	3 3/4	95.25
S378OD	3 7/8	98.43
S4OD	4	101.60
S418OD	4 1/8	104.78
S414OD	4 1/4	107.95

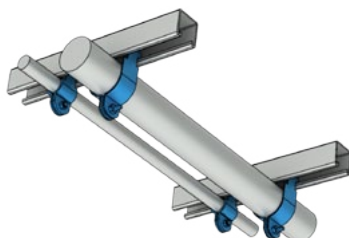
Catalogue Prefix	Outside Diameter (Inches)	(mm)
S438OD	4 3/8	111.13
S412OD	4 1/2	114.30
S458OD	4 5/8	117.48
S434OD	4 3/4	120.65
S478OD	4 7/8	123.83
S5OD	5	127.00
S518OD	5 1/8	130.18
S514OD	5 1/4	133.35
S538OD	5 3/8	136.53
S512OD	5 1/2	139.70
S558OD	5 5/8	142.88
S534OD	5 3/4	146.05
S578OD	5 7/8	149.23
S6OD	6	152.40
S618OD	6 1/8	155.58
S614OD	6 1/4	158.75
S638OD	6 3/8	161.93
S612OD	6 1/2	165.10
S658OD	6 5/8	168.28
S634OD	6 3/4	171.45
S678OD	6 7/8	174.63
S7OD	7	177.80
S718OD	7 1/8	180.98
S714OD	7 1/4	184.15
S738OD	7 3/8	187.33
S712OD	7 1/2	190.50
S758OD	7 5/8	193.68
S734OD	7 3/4	196.85
S778OD	7 7/8	200.03
S8OD	8	203.20
S818OD	8 1/8	206.38
S814OD	8 1/4	209.55
S838OD	8 3/8	212.73
S812OD	8 1/2	215.90

Catalogue Prefix	Outside Diameter (Inches)	(mm)
S858OD	8 5/8	219.08
S834OD	8 3/4	222.25
S878OD	8 7/8	225.43
S9OD	9	228.60
S918OD	9 1/8	231.78
S914OD	9 1/4	234.95
S938OD	9 3/8	238.13
S912OD	9 1/2	241.30
S958OD	9 5/8	244.48
S934OD	9 3/4	247.65
S978OD	9 7/8	250.83
S10OD	10	254.00
S1018OD	10 1/8	257.18
S1014OD	10 1/4	260.35
S1038OD	10 3/8	263.53
S1012OD	10 1/2	266.70
S1058OD	10 5/8	269.88
S1034OD	10 3/4	273.05
S1078OD	10 7/8	276.23
S11OD	11	279.40
S1118OD	11 1/8	282.58
S1114OD	11 1/4	285.75
S1138OD	11 3/8	288.93
S1112OD	11 1/2	292.10
S1158OD	11 5/8	295.28
S1134OD	11 3/4	298.45
S1178OD	11 7/8	301.63
S12.0OD	12	304.80
S1218OD	12 1/8	307.98
S1214OD	12 1/4	311.15
S1238OD	12 3/8	314.33
S1212OD	12 1/2	317.50
S1258OD	12 5/8	320.68
S1234OD	12 3/4	323.85

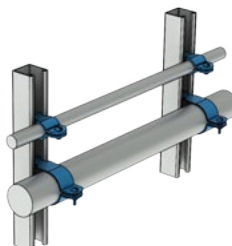
Finishes:	Pre-galvanized (standard)	-G
	Hot Dip Galvanized	-HG
	Stainless Steel Type 316	-SS
	Aluminum	-AL
	Fibreglass	-FG

Larger sizes available upon request.

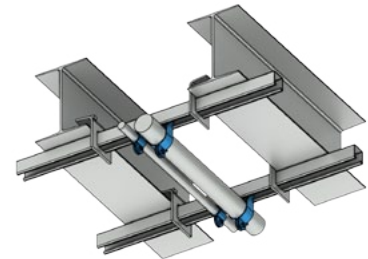
Add finish to Catalogue Prefix for Part No. (S14OD-SS).



CEILING MOUNTING



WALL MOUNTING



BEAM MOUNTING

PIPE CLAWS

Sasco Pipe Claws are designed to grab on to tube, pipe or hose and hold it in place. The unique one-piece patent pending design allows for quick, simple and easy installation. They will not rust because they are molded from TPE (thermoplastic elastomer).

- Quick, simple and easy snap-in of tube, pipe or hose. No tools required.
- Sure Grip base easily rotates into strut channel. No tools required.
- TPE (thermoplastic elastomer) will not corrode, and is non-conducting.
- Temp. range of -46 to 135 °C (-50 to 275 °F).
- Works great for interior and exterior applications.
- 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 plain, stainless, hot dip galvanized, pre-galvanized steel, or aluminum clamps.

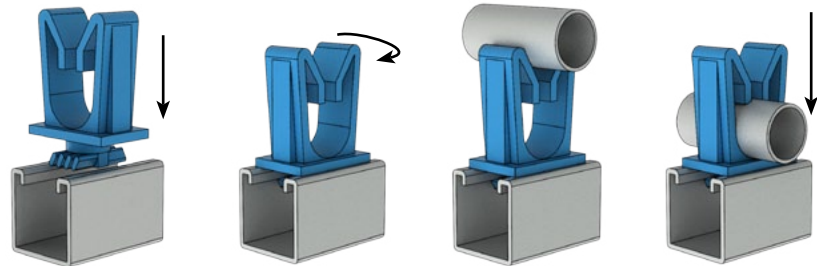
INSTALLATION ON STRUT:

Insert pipe claw

Twist to lock

Align pipe

Snap in place

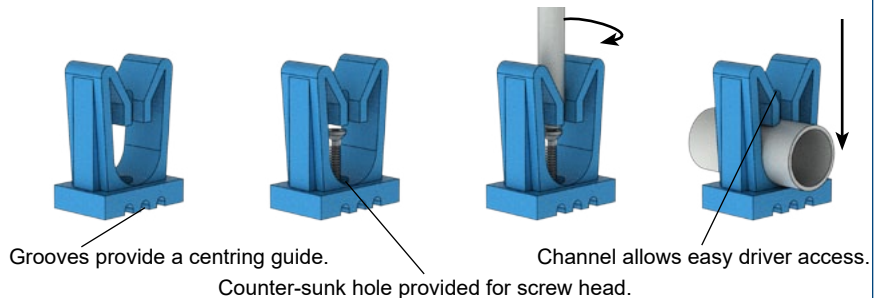


INSTALLATION ON SURFACES:

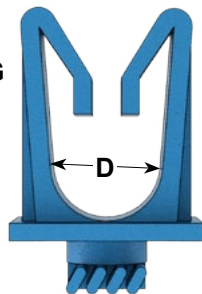
Position clamp

Mount with #10 screw and tighten

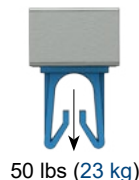
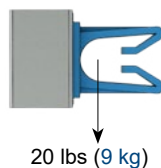
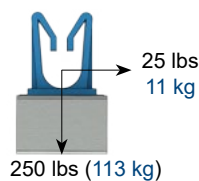
Align pipe, snap in



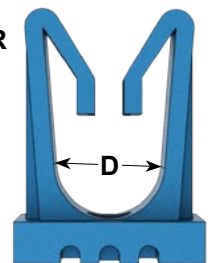
SASCO PIPE CLAW FOR STRUT MOUNTING



DESIGN LOADS:



SASCO PIPE CLAW FOR SURFACE MOUNTING



Catalogue No.	For Pipe (Inches)	D (diameter) (Inches)	(mm)
S14OD-CL	1/4 OD	0.250	6.35
S38OD-CL	3/8 OD	0.375	9.53
S12OD-CL	1/2 OD	0.500	12.70
S58OD-CL	5/8 OD	0.625	15.88
S34OD-CL	3/4 OD	0.750	19.05
S78OD-CL	7/8 OD	0.875	22.23
S118OD-CL	1 1/8 OD	1.125	28.58
S12TW-CL	1/2 EMT	0.706	17.93
S34TW-CL	3/4 EMT	0.922	23.42
S1TW-CL	1 EMT	1.163	29.54

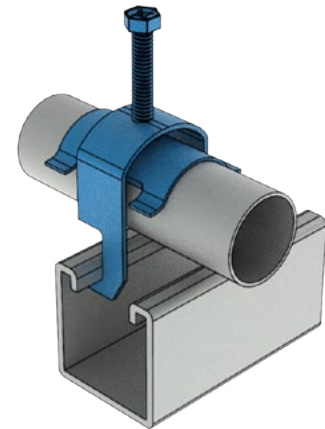
Catalogue No.	For Pipe (Inches)	D (diameter) (Inches)	(mm)
S14OD-CLH	1/4 OD	0.250	6.35
S38OD-CLH	3/8 OD	0.375	9.53
S12OD-CLH	1/2 OD	0.500	12.70
S58OD-CLH	5/8 OD	0.625	15.88
S34OD-CLH	3/4 OD	0.750	19.05
S78OD-CLH	7/8 OD	0.875	22.23
S118OD-CLH	1 1/8 OD	1.125	28.58
S12TW-CLH	1/2 EMT	0.706	17.93
S34TW-CLH	3/4 EMT	0.922	23.42
S1TW-CLH	1 EMT	1.163	29.54

ONE-PIECE CABLE CLAMPS

Sasco One-Piece Cable Clamps secure conduit and cables to both 1 5/8" wide Sasco Strut Channels, and ventilated or ladder cable tray. One-piece construction facilitates fast installation and a range of adjustment allows one cable clamp size to accommodate a range of cable sizes.

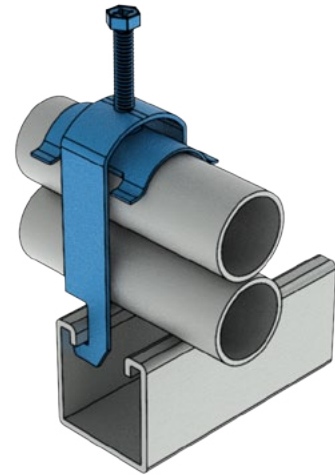
CLAMPS FOR SINGLE CABLES OR CONDUITS:

Catalogue Prefix	Outside Dia. Range (In.)	Rigid Conduit		EMT Conduit (In)
		Min (In)	Max (In)	
S055	0.050 - 0.625	-	-	3/8
S081	0.310 - 0.875	3/8	1/2	3/8 - 1/2
S125	0.750 - 1.313	1/2	3/4	3/4 - 1
S135	0.850 - 1.375	3/4	1	3/4 - 1
S175	1.250 - 1.875	1	1 1/4	1 1/4 - 1 1/2
S225	1.750 - 2.250	1 1/2	1 1/2	2
S275	2.250 - 2.875	2	2 1/2	-
S325	2.750 - 3.250	2 1/2	2 1/2	-
S375	3.250 - 3.813	3	3	-
S425	3.750 - 4.500	3 1/2	4	-
S475	4.250 - 4.938	4	4	-



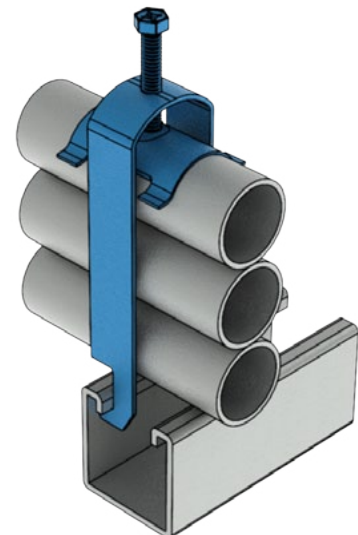
CLAMPS FOR TWO CABLES OR CONDUITS:

Available in the above listed sizes. Add suffix **D** to the Catalogue Prefix for the matching outside diameter in the table (S125D).



CLAMPS FOR THREE CABLES OR CONDUITS:

Available in the above listed sizes. Add suffix **T** to the Catalogue Prefix for the matching outside diameter in the table (S125T).

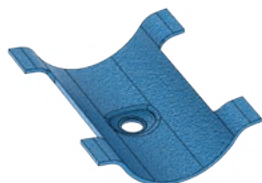


Finishes:

Pre-galvanized (standard)	-G
Stainless Steel Type 304	-SS

Add finish to Catalogue Prefix for Part No. (S125T-SS).

To protect cables on the bearing surface of the strut channel or tray, Sasco Counter Beds are available. For the Catalogue Number, add the suffix **BED** to the required Cable Clamp Catalogue Prefix (S125BED).



PIPE DATA

STEEL PIPE DATA: SCHEDULES 40 & 80

Pipe Size	OD	Schedule 40		Schedule 80	
		Weight Per Foot		Weight Per Foot	
		Pipe	Pipe Filled with Water	Pipe	Pipe Filled with Water
(In)	(In)	(Lbs)	(Lbs)	(Lbs)	(Lbs)
3/8	0.675	0.567	0.650	0.740	0.801
1/2	0.840	0.850	0.982	1.090	1.191
3/4	1.050	1.130	1.361	1.470	1.657
1	1.315	1.680	2.055	2.170	2.482
1 1/4	1.660	2.270	2.918	3.000	3.556
1 1/2	1.900	2.720	3.602	3.630	4.396
2	2.375	3.650	5.104	5.020	6.300
2 1/2	2.875	5.790	7.865	7.660	9.497
3	3.500	7.580	10.784	10.250	13.113
3 1/2	4.000	9.110	13.395	12.510	16.362
4	4.500	10.790	16.307	14.980	19.963
5	5.563	14.620	23.291	20.780	28.665
6	6.625	18.970	31.491	28.570	39.867
8	8.625	28.550	50.232	43.390	63.181
10	10.750	40.480	74.656	64.400	95.536
12	12.750	53.600	102.111	88.600	132.962

COPPER TUBING DATA

Tube Size	OD	Type L		Type K	
		Weight Per Foot		Weight Per Foot	
		Tube	Tube Filled with Water	Tube	Tube Filled with Water
(In)	(In)	(Lbs)	(Lbs)	(Lbs)	(Lbs)
1/4	0.375	0.126	0.160	0.145	0.177
3/8	0.500	0.198	0.261	0.269	0.324
1/2	0.625	0.285	0.386	0.344	0.439
5/8	0.750	0.362	0.513	0.418	0.563
3/4	0.875	0.455	0.665	0.641	0.830
1	1.125	0.655	1.013	0.839	1.176
1 1/4	1.375	0.884	1.429	1.040	1.568
1 1/2	1.625	1.140	1.911	1.360	2.107
2	2.125	1.750	3.118	2.060	3.366
2 1/2	2.625	2.480	4.548	2.930	4.948
3	3.125	3.330	6.282	4.000	6.877
3 1/2	3.625	4.290	8.283	5.120	9.020
4	4.125	5.380	10.571	6.510	11.574
5	5.125	7.610	15.700	9.670	17.529
6	6.125	10.200	21.829	13.870	25.089
8	8.125	19.290	39.603	25.900	45.473
10	10.125	30.100	61.634	40.300	70.691
12	12.125	40.400	85.927	57.800	101.380

PIPE DATA

PVC PIPE DATA: SCHEDULES 40 & 80

Pipe Size	OD	Schedule 40		Schedule 80	
		Weight Per Foot		Weight Per Foot	
		Pipe	Pipe Filled with Water	Pipe	Pipe Filled with Water
(In)	(In)	(Lbs)	(Lbs)	(Lbs)	(Lbs)
3/8	0.675	0.109	0.180	0.146	0.195
1/2	0.840	0.161	0.289	0.213	0.309
3/4	1.050	0.214	0.423	0.289	0.452
1	1.315	0.315	0.680	0.424	0.720
1 1/4	1.660	0.426	1.065	0.586	1.126
1 1/2	1.900	0.509	1.372	0.711	1.441
2	2.375	0.682	2.002	0.984	2.115
2 1/2	2.875	1.076	3.108	1.500	3.262
3	3.500	1.409	4.526	2.010	4.728
4	4.500	2.006	7.409	2.938	7.725
5	5.563	2.730	11.250	4.078	11.594
6	6.625	3.535	15.712	5.610	16.380
8	8.625	5.386	26.603	8.522	27.359
10	10.750	7.543	41.620	12.350	42.559
12	12.750	10.019	65.354	17.384	72.719

CPVC PIPE DATA: SDR 11

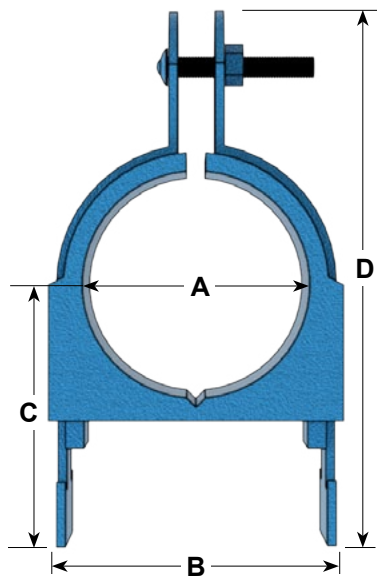
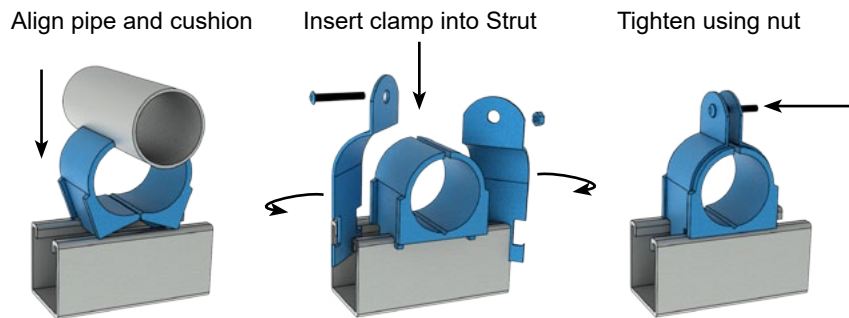
Tube Size	OD	Weight Per Foot	
		Tube	Tube Filled with Water
		(Lbs)	(Lbs)
(In)	(In)		
1/2	0.625	0.225	0.326
3/4	0.875	0.305	0.491
1	1.125	0.449	0.760
1 1/4	1.375	0.618	1.173
1 1/2	1.625	0.751	1.573
2	2.125	1.040	2.319

PIPE CUSHIONS

Sasco Pipe Cushions are ideal for multiple line runs, and mount to Sasco's standard 1 5/8" wide Strut Channels. They absorb shock and vibration, reduce noise and avoid galvanic corrosion. The TPE (thermoplastic elastomer) living hinge allows for quick installation and relocation of the cushion and pipe.

- Absorbs shock and vibration.
- Prevents galvanic corrosion of dissimilar metals.
- TPE (thermoplastic elastomer) will not corrode and is non-conducting.
- TPE has a temperature range of -46 to 135 °C (-50 to 275 °F).
- Resists the effects of most oils, chemicals and industrial cleaners.

SASCO PIPE CUSHION INSTALLATION:



Finishes (clamp material):

Pre-galvanized (standard)	-G
Hot Dip Galvanized	-HG
Stainless Steel Type 316	-SS
Aluminum	-AL

Catalogue Prefix	Copper & Steel Tubing Dia. (In)	Copper Water Pipe Nom. (In)	Nominal Pipe Size (In)	A (In)	B (In)	C (In)	D (In)
S0250PC	1/4	-	-	0.25	0.62	0.27	0.98
S0375PC	3/8	1/4	-	0.37	0.82	0.33	1.13
S0500PC	1/2	3/8	-	0.50	0.94	0.40	1.34
S0540PC	-	-	1/4	0.54	0.98	0.43	1.34
S0625PC	5/8	1/2	-	0.62	1.06	0.46	1.54
S0675PC	-	-	3/8	0.67	1.13	0.49	1.54
S0750PC	3/4	5/8	-	0.75	1.20	0.52	1.68
S0840PC	-	-	1/2	0.87	1.31	0.58	1.82
S0875PC	7/8	3/4	-	0.87	1.31	0.58	1.82
S1000PC	1	-	-	1.00	1.44	0.65	1.95
S1050PC	-	-	3/4	1.05	1.57	0.70	2.08
S1125PC	1 1/8	1	-	1.12	1.57	0.70	2.08
S1250PC	1 1/4	-	-	1.25	1.70	0.77	2.21
S1310PC	-	-	1	1.31	1.76	0.81	2.34
S1375PC	1 3/8	1 1/4	-	1.37	1.82	0.83	2.34
S1500PC	1 1/2	-	-	1.50	1.95	0.90	2.47
S1625PC	1 5/8	1 1/2	-	1.62	2.07	0.96	2.60
S1660PC	-	-	1 1/4	1.66	2.17	0.99	2.73
S1750PC	1 3/4	-	-	1.75	2.20	1.02	2.73
S1875PC	1 7/8	-	1 1/2	1.90	2.32	1.09	2.86
S2000PC	2	-	-	2.00	2.45	1.15	3.04
S2125PC	2 1/8	2	-	2.12	2.57	1.27	3.23
S2375PC	2 3/8	-	2	2.37	2.82	1.41	3.67
S2500PC	2 1/2	-	-	2.50	2.94	1.46	3.79
S2625PC	2 5/8	2 1/2	-	2.62	3.07	1.53	3.92
S2875PC	2 7/8	-	2 1/2	2.87	3.32	1.66	4.17
S3000PC	3	-	-	3.12	3.57	1.78	4.42
S3125PC	3 1/8	3	-	3.12	3.57	1.78	4.42
S3500PC	3 1/2	-	3	3.50	3.95	1.97	4.79
S3625PC	3 5/8	3 1/2	-	3.62	4.20	2.03	5.11
S4000PC	4	-	3 1/2	4.00	4.45	2.28	5.11
S4125PC	4 1/8	4	-	4.12	4.57	2.34	5.54
S4500PC	4 1/2	-	4	4.50	4.95	2.53	5.92
S5125PC	5 1/8	5	-	5.12	5.57	2.84	6.54

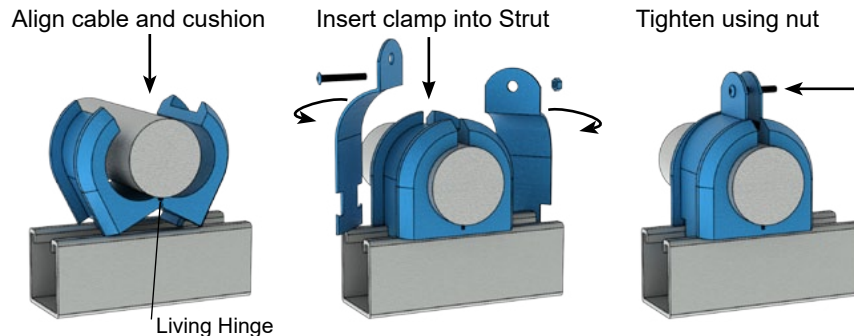
Add finish to Catalogue Prefix for Part No. (S0250PC-SS).

Note: 1.00 in = 25.40 mm

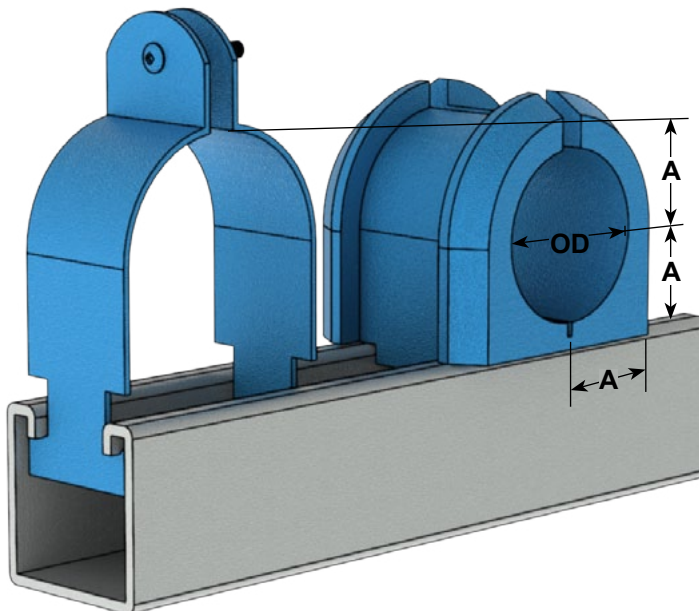
V-CUSHIONS

Sasco V-Cushions replace the older technology porcelain and maple cable clamps. They consist of a thermoplastic elastomer (TPE) cushion, and a pre-galvanized or stainless steel clamp. Both are supplied with a silicon bronze bolt and nut. The cushion hinge allows easy installation of the cable, while the components will not get separated and lost or broken.

SASCO V-CUSHION INSTALLATION:



- Dielectric strength 640 volts per mil.
- One piece cushion design, available in flame retardant or halogen free flame retardant (see below for Catalogue Numbers)
- Non-breakable material.
- Quick, adjustable installation.
- TPE is chemical and UV resistant.
- UL listed. Burning stops within 10 seconds after two applications of ten seconds each of a flame to a test bar with no flaming drips.
- Pre-galvanized steel, or stainless steel pipe clamps are available (see below for Catalogue Numbers).
- Silicon bronze hardware is used to break-up the magnetic field around the cable at the clamping location.
- Tapered flange to protect cable.



Catalogue Prefix	Cable OD		A	
	(Inches)	(mm)	(Inches)	(mm)
S38VC	3/8	9.5	9/16	14.3
S12VC	1/2	12.7	9/16	14.3
S58VC	5/8	15.9	9/16	14.3
S34VC	3/4	19.1	13/16	20.6
S78VC	7/8	22.2	13/16	20.6
S1VC	1	25.4	13/16	20.6
S118VC	1 1/8	28.6	13/16	20.6
S114VC	1 1/4	31.8	1 1/16	27.0
S138VC	1 3/8	34.9	1 1/16	27.0
S112VC	1 1/2	38.1	1 1/16	27.0
S158VC	1 5/8	41.3	1 1/16	27.0
S134VC	1 3/4	44.5	1 5/16	33.3
S178VC	1 7/8	47.6	1 5/16	33.3
S2VC	2	50.8	1 5/16	33.3
S218VC	2 1/8	54.0	1 5/16	33.3
S214VC	2 1/4	57.2	1 9/16	39.7
S238VC	2 3/8	60.3	1 9/16	39.7
S212VC	2 1/2	63.5	1 9/16	39.7
S258VC	2 5/8	66.7	1 9/16	39.7
S234VC	2 3/4	69.9	1 13/16	46.0
S278VC	2 7/8	73.0	1 13/16	46.0
S3VC	3	76.2	1 13/16	46.0
S318VC	3 1/8	79.4	1 13/16	46.0
S314VC	3 1/4	82.6	2 1/16	52.4
S338VC	3 3/8	85.7	2 1/16	52.4
S312VC	3 1/2	88.9	2 1/16	52.4
S358VC	3 5/8	92.1	2 1/16	52.4
S334VC	3 3/4	95.3	2 5/16	58.7
S378VC	3 7/8	98.4	2 5/16	58.7
S4VC	4	101.6	2 5/16	58.7
S418VC	4 1/8	104.8	2 5/16	58.7
S414VC	4 1/4	108.0	2 1/2	63.5
S438VC	4 3/8	111.1	2 1/2	63.5
S412VC	4 1/2	114.3	2 1/2	63.5

Finishes:

Stainless steel pipe clamp, silicon bronze hardware
 Flame retardant -SSB
 Flame ret., halogen free -SBFH

Pre-galvanized pipe clamp, silicon bronze hardware
 Flame retardant -GB
 Flame ret., halogen free -GBFH

Add finish to Catalogue Prefix for Part Number (S1VC-SBFH)

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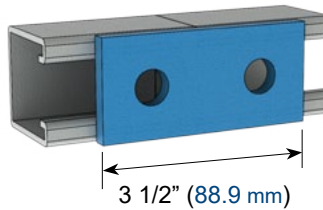
GENERAL INFO.

CONTACT US

To assist in the selection of the proper fitting for your application, Sasco fittings, many of which have multiple applications, are grouped according to their most common use.

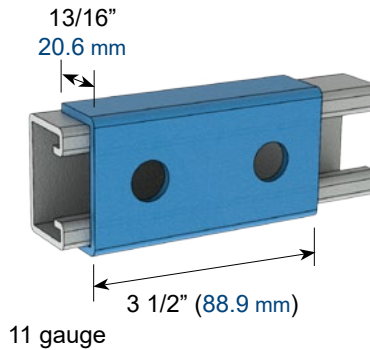
SPLICING CONNECTIONS

TWO HOLE SPLICE PLATE



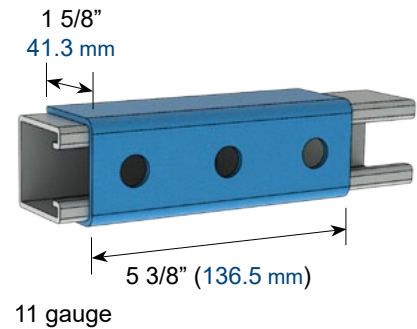
S110P-HG

TWO HOLE SPLICE PLATE



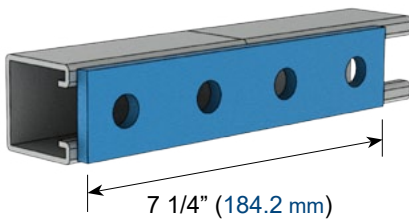
S409U-HG

THREE HOLE SPLICE PLATE



S412U-HG

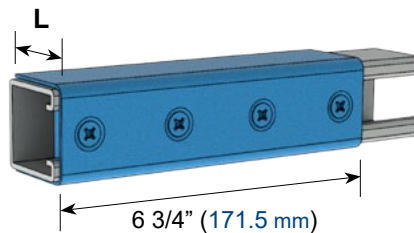
FOUR HOLE SPLICE PLATE



S114P-HG

FOUR HOLE SPLICE PLATE

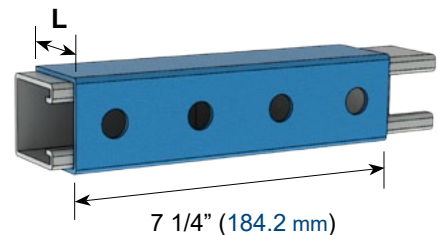
CSA certified, 16 gauge



Supplied with four 1/4" x 5/8" FHMS and four S14W clamping nuts.

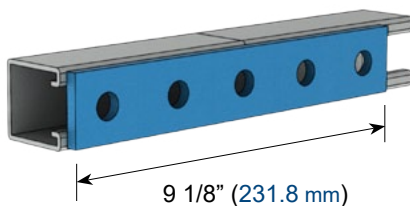
	L	
S710E-G	1 5/8"	(41.3 mm)
S712E-G	13/16"	(20.6 mm)

FOUR HOLE SPLICE PLATE



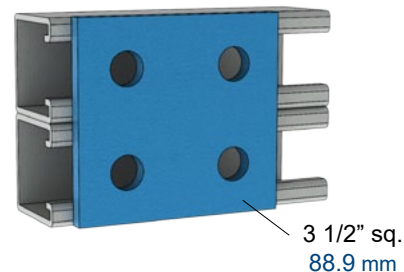
	L	Thick.
S417U-HG	3 1/4"	(82.6 mm) 1/4"
S415U-HG	2 7/16"	(61.9 mm) 1/4"
S413U-HG	2"	(50.8 mm) 11 Ga.
S414U-HG	1 5/8"	(20.6 mm) 1/4"

FIVE HOLE SPLICE PLATE



S115P-HG

FOUR HOLE SPLICE PLATE



S118P-HG

GENERAL DATA	(Inches)	(mm)
Hole Diameter	9/16	14.3
Hole Spacing from End	13/16	20.6
Hole Spacing on Centre	1 7/8	47.6
Width	1 1/2	38.1
Thickness	1/4	6.4

Dimensions are to outside edge unless otherwise indicated.

Finish Suffix Legend:

Hot Dip Galvanized After Fabrication	-HG
Pre-galvanized	-G
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

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GENERAL INFO.

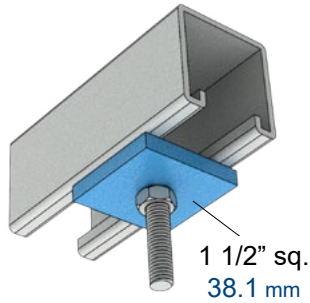
CONTACT US

To assist in the selection of the proper fitting for your application, Sasco fittings, many of which have multiple applications, are grouped according to their most common use.

SQUARE WASHERS

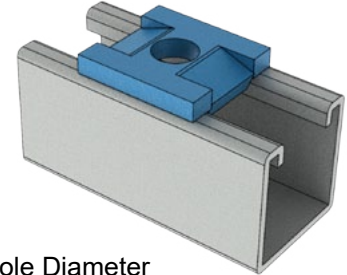
A Sasco Square Washer and hex nut ensure positive locking of clamping nuts. Hex nut not included.

Catalogue No.	Hole Diameter (Inches)	(mm)
S101P-EG	11/32	8.7
S102P-EG	7/16	11.1
S103P-EG	9/16	14.3
S104P-EG	11/16	17.5
S105P-EG	13/16	20.6



2" x 2", 3 1/2" x 3 1/2" and 4" x 4" available upon request.

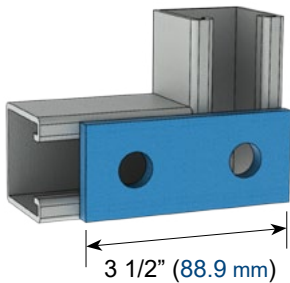
NOTCHED WASHERS



Catalogue No.	Hole Diameter (Inches)	(mm)
S101PN-HG	11/32	8.7
S102PN-HG	7/16	11.1
S103PN-HG	9/16	14.3
S104PN-HG	11/16	17.5
S105PN-HG	13/16	20.6

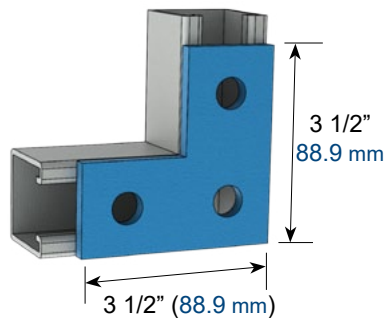
FLAT PLATE CORNER CONNECTIONS

TWO HOLE FLAT PLATE



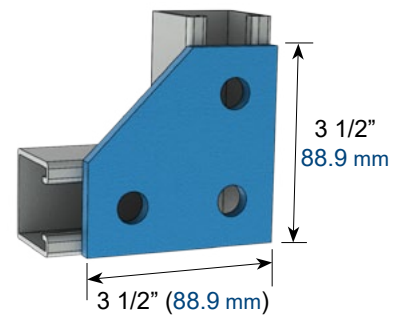
S110P-HG

THREE HOLE FLAT PLATE



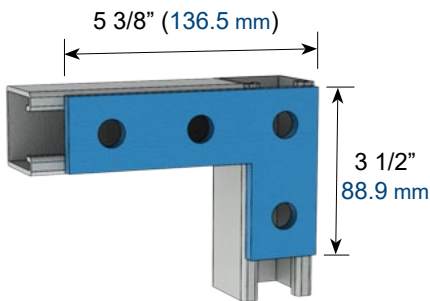
S119P-HG

THREE HOLE FLAT PLATE



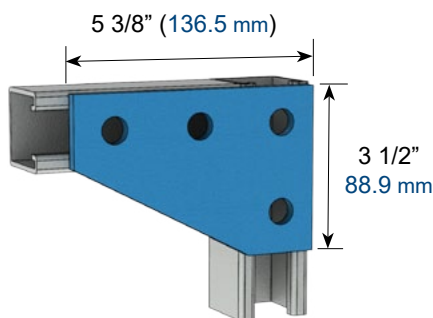
S122P-HG

FOUR HOLE FLAT PLATE



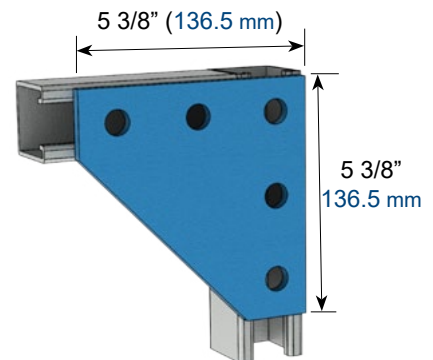
S123P-HG

FOUR HOLE FLAT PLATE



S124P-HG

FIVE HOLE FLAT PLATE



S125P-HG

GENERAL DATA	(Inches)	(mm)
Hole Diameter	9/16	14.3
Hole Spacing from End	13/16	20.6
Hole Spacing on Centre	1 7/8	47.6
Width	1 1/2	38.1
Thickness	1/4	6.4

Dimensions are to outside edge unless otherwise indicated.

Finish Suffix Legend:

Hot Dip Galvanized After Fabrication	-HG
Pre-galvanized	-G
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

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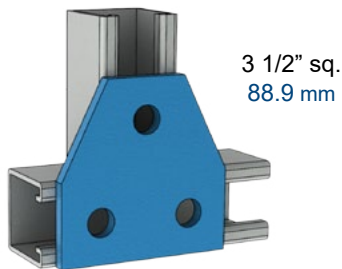
GENERAL INFO.

CONTACT US

To assist in the selection of the proper fitting for your application, Sasco fittings, many of which have multiple applications, are grouped according to their most common use.

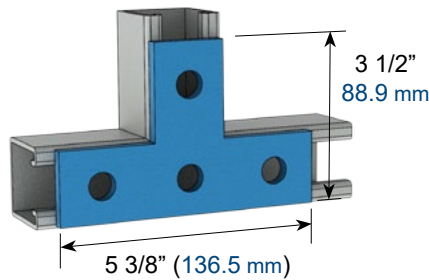
FLAT PLATE CORNER CONNECTIONS

THREE HOLE TEE PLATE



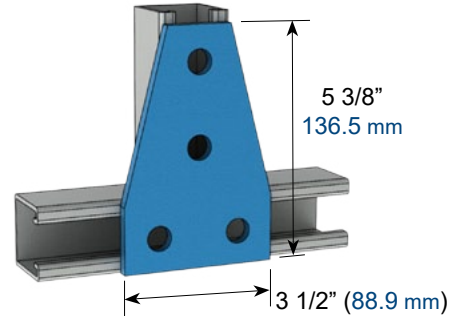
S126P-HG

FOUR HOLE TEE PLATE



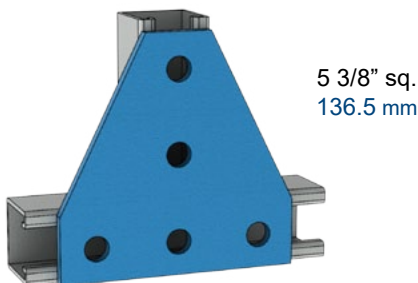
S120P-HG

FOUR HOLE TEE PLATE



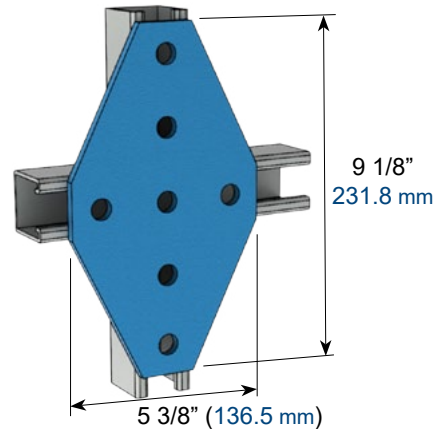
S127P-HG

FIVE HOLE TEE PLATE



S128P-HG

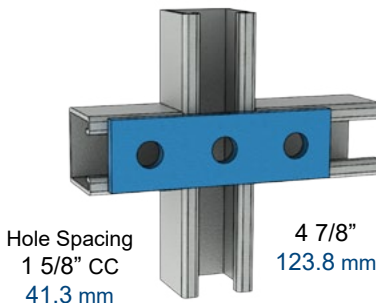
SEVEN HOLE FLAT PLATE



S131P-HG

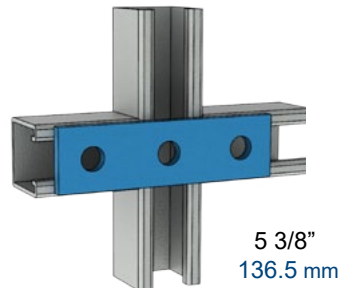
FLAT PLATE CROSSING CONNECTIONS

THREE HOLE FLAT PLATE



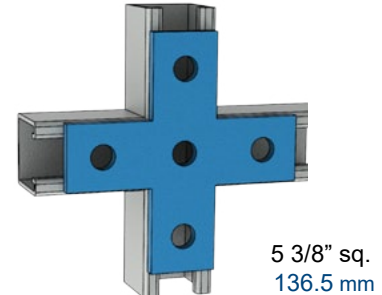
S113P-HG

THREE HOLE FLAT PLATE



S111P-HG

FIVE HOLE CROSS PLATE



S121P-HG

GENERAL DATA	(Inches)	(mm)
Hole Diameter	9/16	14.3
Hole Spacing from End	13/16	20.6
Hole Spacing on Centre	1 7/8	47.6
Width	1 1/2	38.1
Thickness	1/4	6.4

Dimensions are to outside edge unless otherwise indicated.

Finish Suffix Legend:

Hot Dip Galvanized After Fabrication	-HG
Pre-galvanized	-G
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

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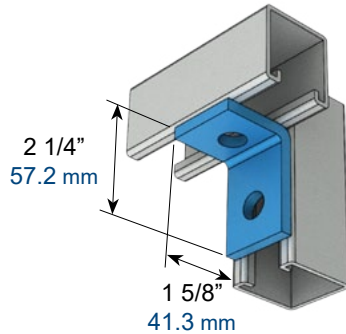
GENERAL INFO.

CONTACT US

To assist in the selection of the proper fitting for your application, Sasco fittings, many of which have multiple applications, are grouped according to their most common use.

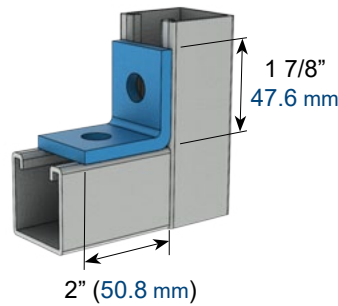
ANGLE CORNER CONNECTIONS

TWO HOLE ANGLE



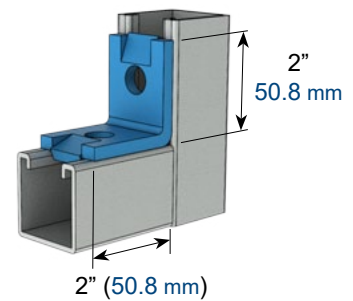
S205A-HG

TWO HOLE 90° FITTING



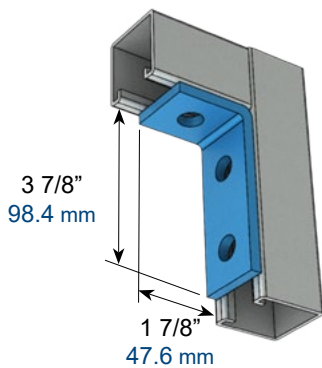
S206A-HG

TWO HOLE 90° FITTING



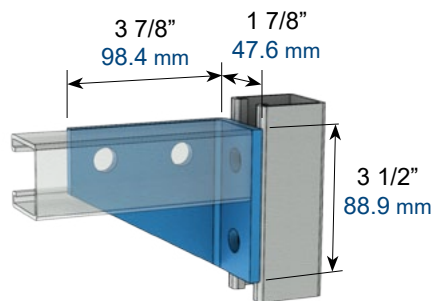
S207A-HG

THREE HOLE 90° FITTING



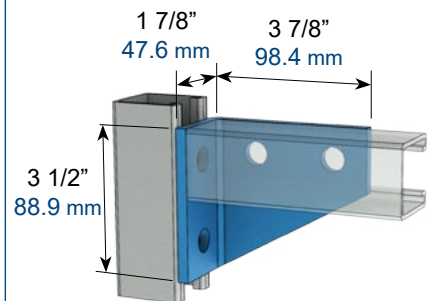
S210A-HG

FOUR HOLE LEFT ANGLE



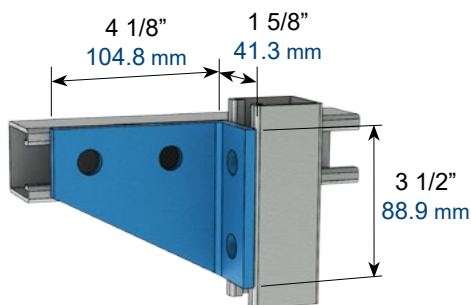
S232A-HG

FOUR HOLE RIGHT ANGLE



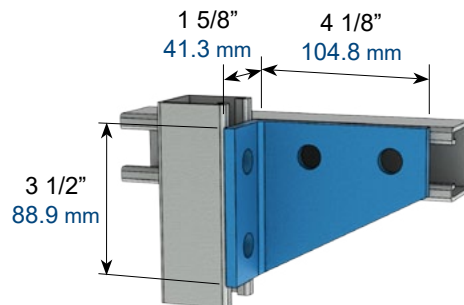
S233A-HG

FOUR HOLE LEFT ANGLE



S218A-HG

FOUR HOLE RIGHT ANGLE



S217A-HG

GENERAL DATA	(Inches)	(mm)
Hole Diameter	9/16	14.3
Hole Spacing from End	13/16	20.6
Hole Spacing on Centre	1 7/8	47.6
Width	1 1/2	38.1
Thickness	1/4	6.4

Dimensions are to outside edge unless otherwise indicated.

Finish Suffix Legend:

Hot Dip Galvanized After Fabrication	-HG
Pre-galvanized	-G
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

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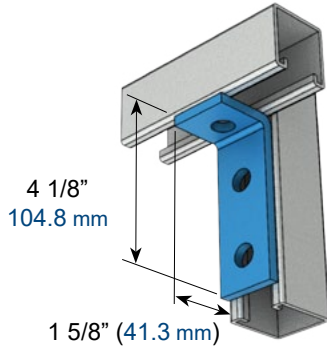
GENERAL INFO.

CONTACT US

To assist in the selection of the proper fitting for your application, Sasco fittings, many of which have multiple applications, are grouped according to their most common use.

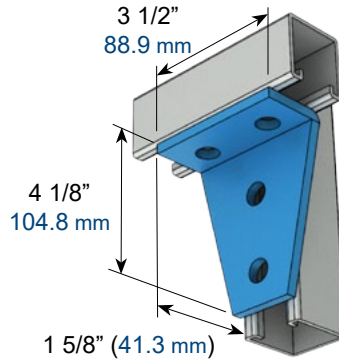
ANGLE CROSSING CONNECTIONS

THREE HOLE ANGLE



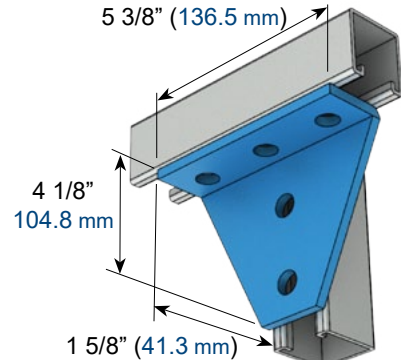
S209A-HG

FOUR HOLE ANGLE



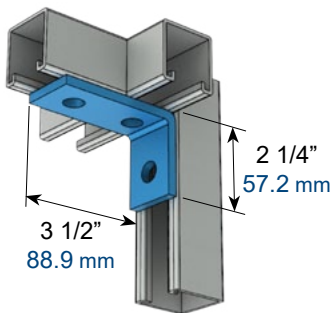
S235A-HG

FIVE HOLE ANGLE



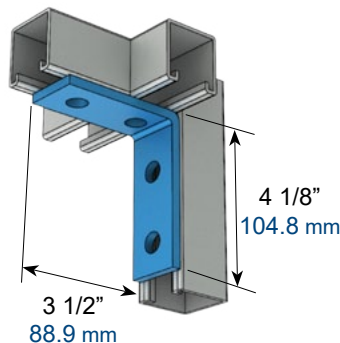
S230A-HG

THREE HOLE ANGLE



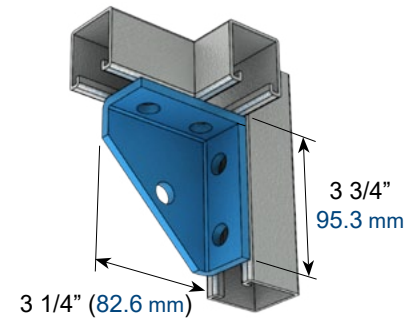
S212A-HG

FOUR HOLE ANGLE



S214A-HG

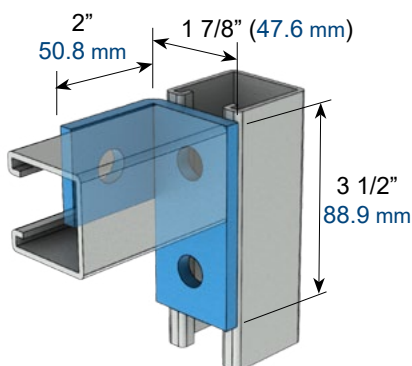
GUSSETED FIVE HOLE ANGLE



S215A-HG RIGHT HAND

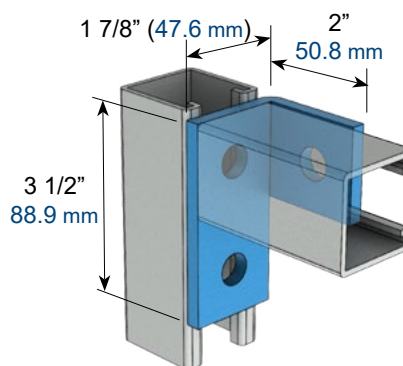
S216A-HG LEFT HAND (shown)

THREE HOLE CROSSING LEFT



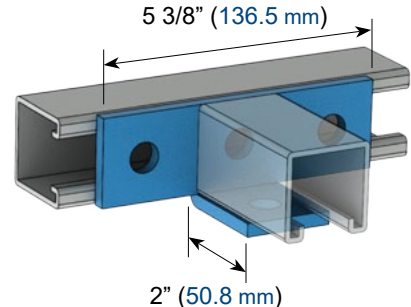
S223A-HG

THREE HOLE CROSSING RIGHT



S224A-HG

FOUR HOLE CROSSING



S226A-HG

GENERAL DATA	(Inches)	(mm)
Hole Diameter	9/16	14.3
Hole Spacing from End	13/16	20.6
Hole Spacing on Centre	1 7/8	47.6
Width	1 1/2	38.1
Thickness	1/4	6.4

Dimensions are to outside edge unless otherwise indicated.

Finish Suffix Legend:

Hot Dip Galvanized After Fabrication	-HG
Pre-galvanized	-G
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

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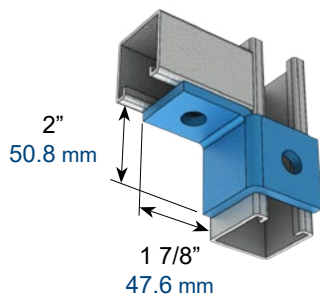
GENERAL INFO.

CONTACT US

To assist in the selection of the proper fitting for your application, Sasco fittings, many of which have multiple applications, are grouped according to their most common use.

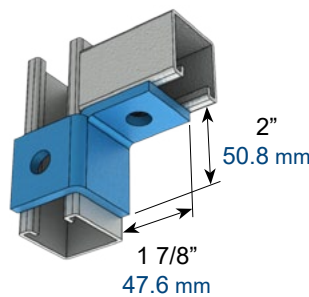
WING CROSSING CONNECTIONS

**TWO HOLE WING FITTING
LEFT**



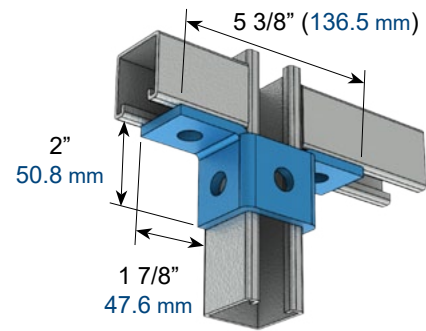
S527W-HG

**TWO HOLE WING FITTING
RIGHT**



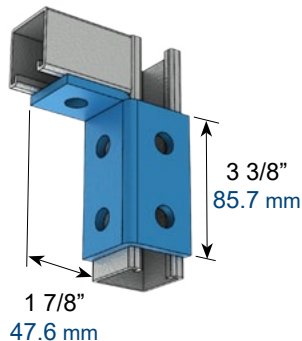
S526W-HG

FIVE HOLE WING FITTING



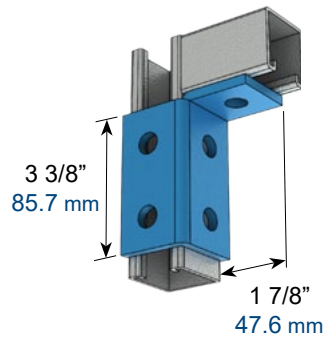
S536W-HG

**FIVE HOLE WING FITTING
LEFT**



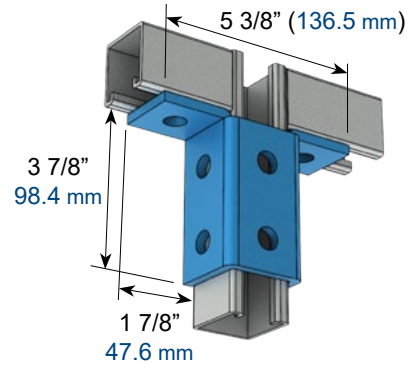
S529W-HG

**FIVE HOLE WING FITTING
RIGHT**



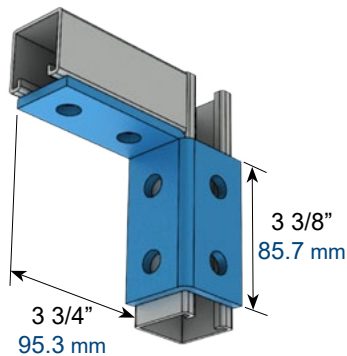
S528W-HG

EIGHT HOLE WING FITTING



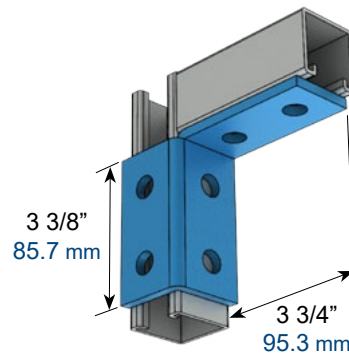
S537W-HG

**SIX HOLE WING FITTING
LEFT**



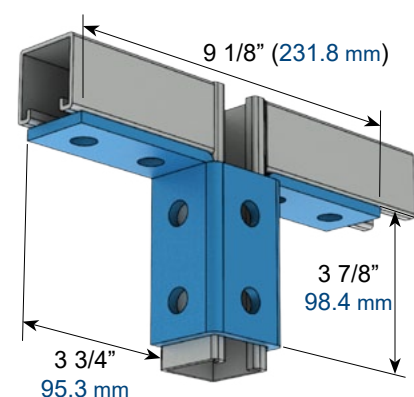
531W-HG

**SIX HOLE WING FITTING
RIGHT**



S530W-HG

TEN HOLE WING FITTING



S538W-HG

GENERAL DATA	(Inches)	(mm)
Hole Diameter	9/16	14.3
Hole Spacing from End	13/16	20.6
Hole Spacing on Centre	1 7/8	47.6
Width	1 1/2	38.1
Thickness	1/4	6.4

Dimensions are to outside edge unless otherwise indicated.

Finish Suffix Legend:

Hot Dip Galvanized After Fabrication	-HG
Pre-galvanized	-G
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

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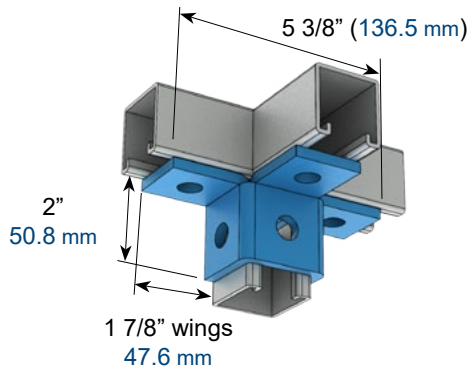
GENERAL INFO.

CONTACT US

To assist in the selection of the proper fitting for your application, Sasco fittings, many of which have multiple applications, are grouped according to their most common use.

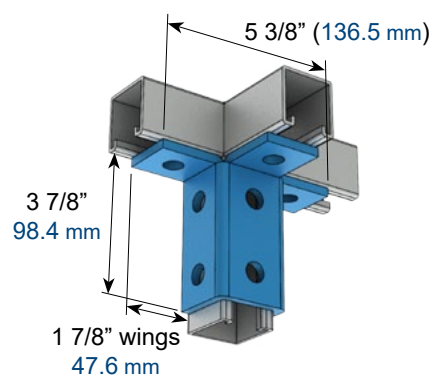
CROSSING CONNECTIONS

SIX HOLE WING FITTING



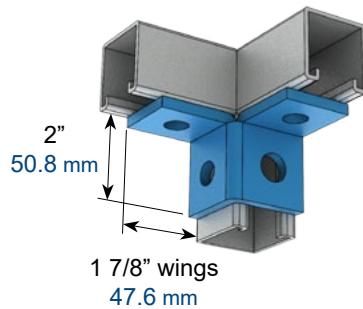
S539W-HG

NINE HOLE WING FITTING



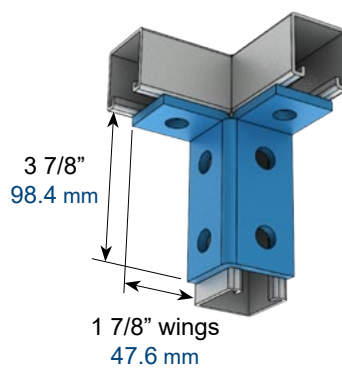
S540W-HG

FOUR HOLE WING FITTING



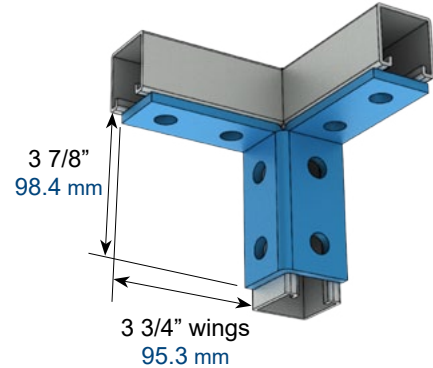
S532W-HG

SIX HOLE WING FITTING



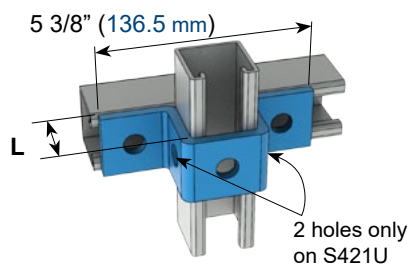
S533W-HG

EIGHT HOLE WING FITTING



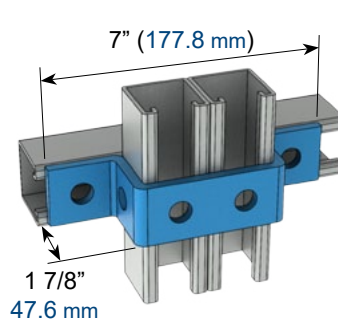
S534W-HG

U SHAPED FITTING



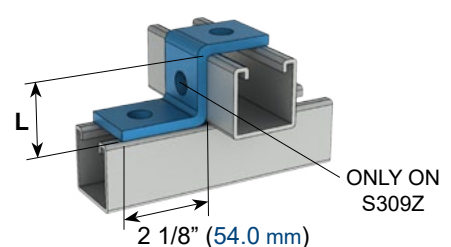
	L	
S425U-HG	3 1/4"	82.6 mm
S424U-HG	2 7/16"	61.9 mm
S421U-HG	1 5/8"	41.3 mm
S420U-HG	1"	25.4 mm
S419U-HG	13/16"	20.6 mm

U SHAPED FITTING



S428U-HG

Z SHAPED ANGLE



	L	
S315Z-HG	3 1/4"	82.6 mm
S313Z-HG	2 7/16"	61.9 mm
S309Z-HG	1 5/8"	41.3 mm
S312Z-HG	1"	25.4 mm
S301Z-HG	13/16"	20.6 mm
S302Z-HG	1/4"	6.4 mm

GENERAL DATA	(Inches)	(mm)
Hole Diameter	9/16	14.3
Hole Spacing from End	13/16	20.6
Hole Spacing on Centre	1 7/8	47.6
Width	1 1/2	38.1
Thickness	1/4	6.4

Dimensions are to outside edge unless otherwise indicated.

Finish Suffix Legend:

Hot Dip Galvanized After Fabrication	-HG
Pre-galvanized	-G
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

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GENERAL INFO.

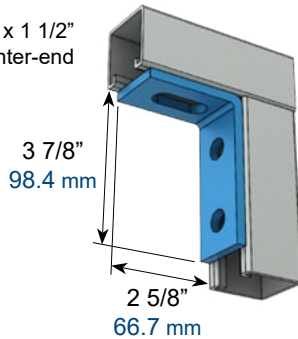
CONTACT US

To assist in the selection of the proper fitting for your application, Sasco fittings, many of which have multiple applications, are grouped according to their most common use.

SLOTTED ANGLE CONNECTIONS

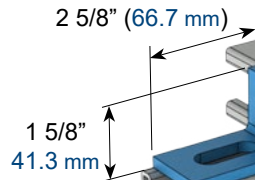
TWO HOLE SLOTTED ANGLE

Slot: 9/16" x 1 1/2"
1 5/16" center-end



S245A-HG

ONE HOLE SLOTTED ANGLE

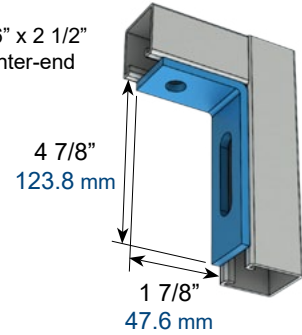


Slot: 9/16" x 1 1/2"
1 5/16" center-end

S243A-HG

ONE HOLE SLOTTED ANGLE

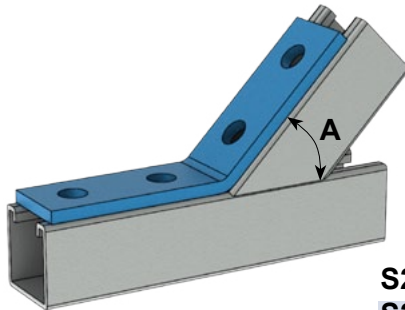
Slot: 9/16" x 2 1/2"
2 3/8" center-end



S246A-HG

ANGLE CONNECTIONS

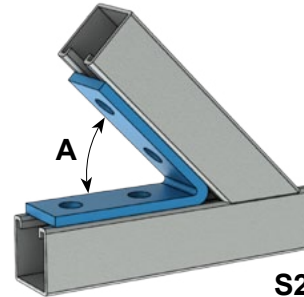
FOUR HOLE OPEN ANGLES



Other angles available.

S265A-HG	A
S267A-HG	30°
S269A-HG	45°
	60°

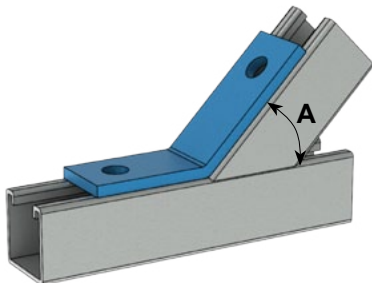
FOUR HOLE CLOSED ANGLES



Other angles available.

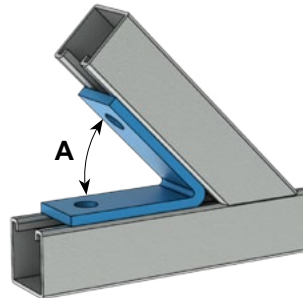
S284A-HG	A
S285A-HG	30°
S283A-HG	45°
	60°

TWO HOLE OPEN ANGLES



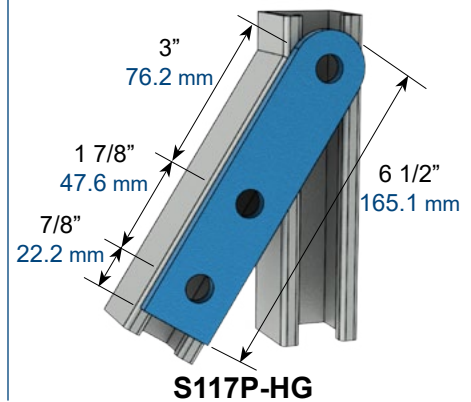
S258A-HG	A
S255A-HG	30°
S253A-HG	45°
	60°
Other angles available.	

TWO HOLE CLOSED ANGLES



S279A-HG	A
S278A-HG	30°
S276A-HG	45°
	60°
Other angles available.	

THREE HOLE ADJUSTABLE PLATE



S117P-HG

GENERAL DATA	(Inches)	(mm)
Hole Diameter	9/16	14.3
Hole Spacing from End	13/16	20.6
Hole Spacing on Centre	1 7/8	47.6
Width	1 1/2	38.1
Thickness	1/4	6.4

1.000 inches = 25.40 mm
Dimensions are to outside edge
unless otherwise indicated.

Finish Suffix Legend:	
Hot Dip Galvanized After Fabrication	-HG
Pre-galvanized	-G
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

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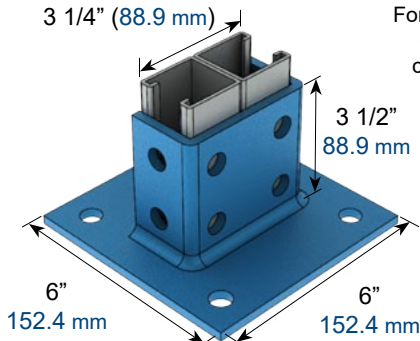
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GENERAL INFO.

CONTACT US

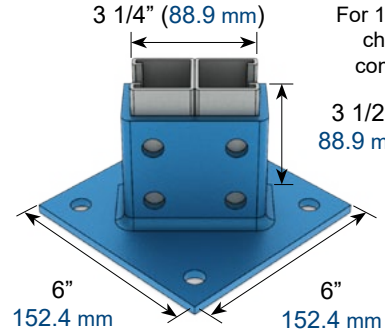
To assist in the selection of the proper fitting for your application, Sasco fittings, many of which have multiple applications, are grouped according to their most common use.

POST BASES



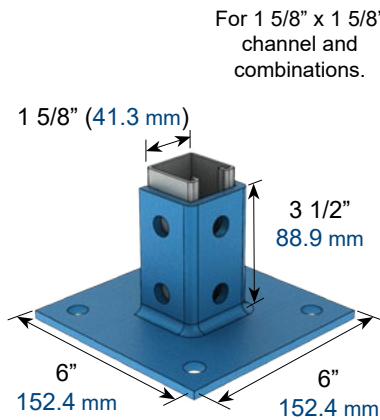
S500PB-HG

For 1 5/8" x 3 1/4" channel and combinations.



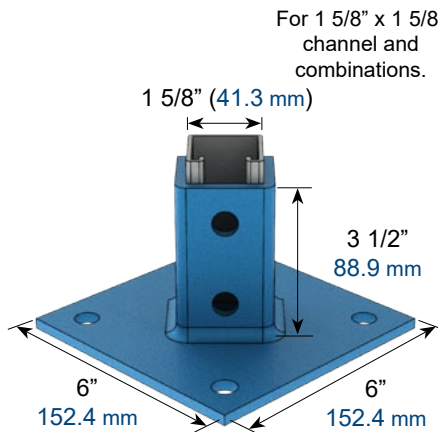
S500DPB-HG

For 1 5/8" x 3 1/4" channel and combinations.



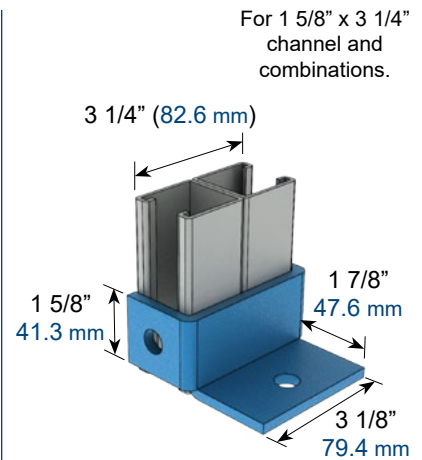
S501PB-HG

For 1 5/8" x 1 5/8" channel and combinations.



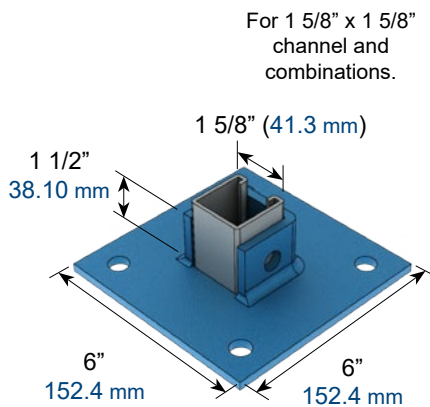
S501DPB-HG

For 1 5/8" x 1 5/8" channel and combinations.



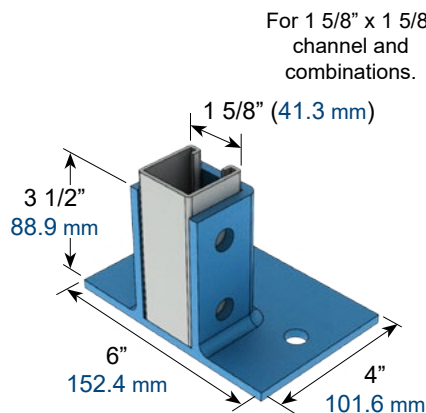
S505PB-HG

For 1 5/8" x 3 1/4" channel and combinations.



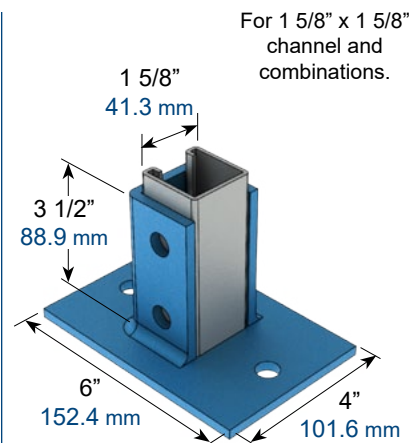
S503PB-HG

For 1 5/8" x 1 5/8" channel and combinations.



S508PB-HG

For 1 5/8" x 1 5/8" channel and combinations.



S509PB-HG

For 1 5/8" x 1 5/8" channel and combinations.

GENERAL DATA	(Inches)	(mm)
Hole Diameter	9/16	14.3
Thickness	1/4	6.4

Dimensions are to outside edge unless otherwise indicated.

Finish Suffix Legend:

Hot Dip Galvanized After Fabrication	-HG
Pre-galvanized	-G
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

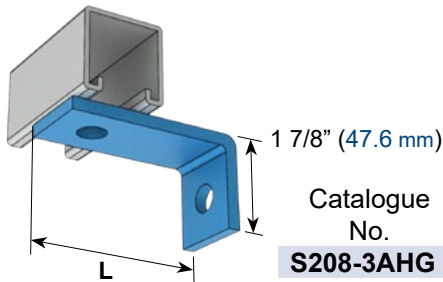
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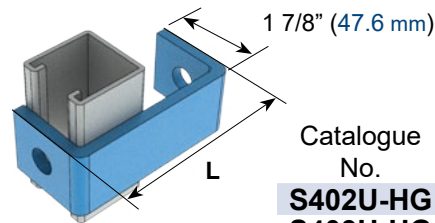
GENERAL INFO.

CONTACT US

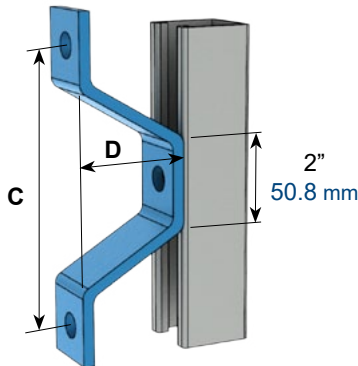
OFFSET CONNECTIONS



Catalogue No.	(Inches)	L (mm)
S208-3AHG	3	76.2
S208-35AHG	3 1/2	88.9
S208-4AHG	4	101.6

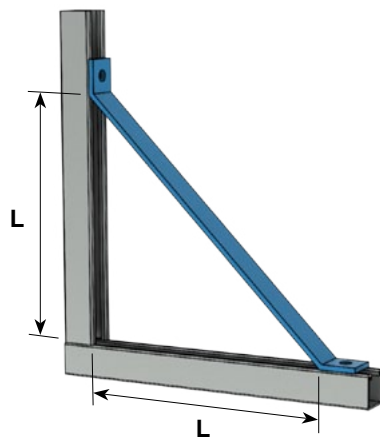


Catalogue No.	(Inches)	L (mm)
S402U-HG	4	101.6
S403U-HG	5	127.0
S404U-HG	6	152.4
S405U-HG	7	177.8
S406U-HG	8	203.2



Catalogue No.	Depth (D) (Inches)	(mm)	Centres (C) (Inches)	(mm)
S780-6HG	2 3/8	60.3	6	152.4
S780-8HG	4 3/8	111.1	8	203.2
S780-10HG	6 3/8	161.9	10	254.0
S780-12HG	8 3/8	212.7	12	304.8
S780-14HG	10 3/8	263.5	14	355.6

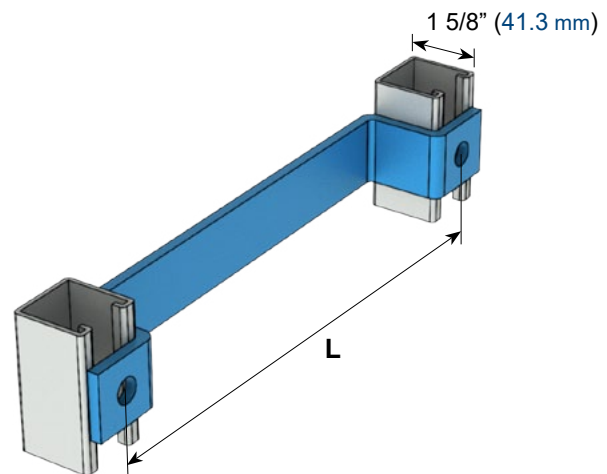
BRACES



Catalogue No.	(Inches)	L (mm)
S800-12HG	12	304.8
S800-18HG	18	457.2
S800-24HG	24	609.6

Other sizes available upon request.

LADDER RUNGS



Catalogue No.	(Inches)	L (mm)
S812LR-HG	12	304.8
S815LR-HG	15	381.0
S818LR-HG	18	457.2

GENERAL DATA	(Inches)	(mm)
Hole Diameter	9/16	14.3
Hole Spacing from End	13/16	20.6
Hole Spacing on Centre	1 7/8	47.6
Width	1 1/2	38.1
Thickness	1/4	6.4

Dimensions are to outside edge unless otherwise indicated.

Finish Suffix Legend:

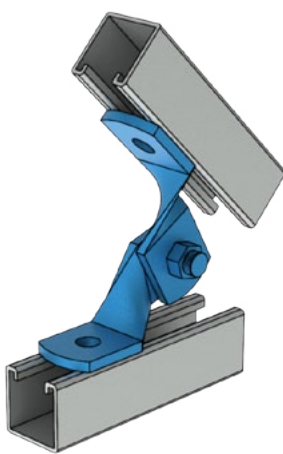
Hot Dip Galvanized After Fabrication	-HG
Pre-galvanized	-G
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

ADJUSTABLE BRACES AND HINGES

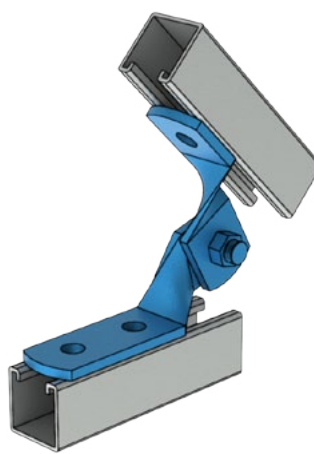
Sasco's Adjustable Braces and Hinges are part of the Sasco Metal Framing System and can also be used as part of an engineered seismic restraint system. For assistance on seismic restraint design, refer to the Sasco Seismic Restraint Design Manual, or contact Sasco. Loads are limited by the slip strength and pull out strength of the clamping nut.

ADJUSTABLE HINGES:

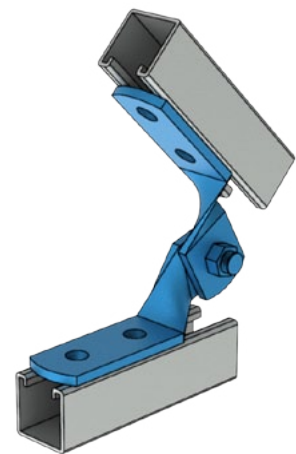
Hinges rotate on 1/2" bolts using nylon insert nuts to prevent loosening. Holes are spaced on 1 5/8" (41.3 mm) centres.



SR292A-EG



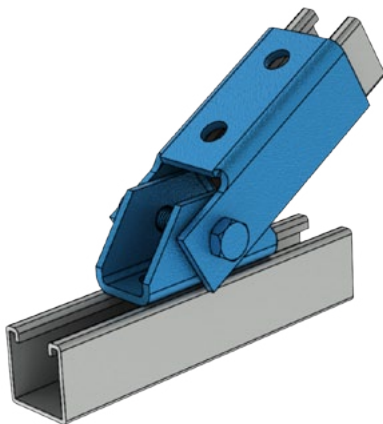
SR293A-EG



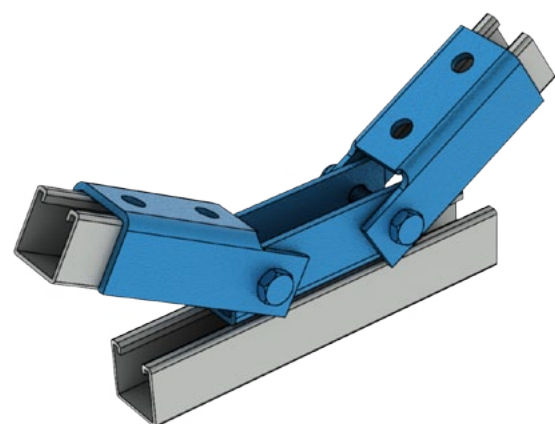
SR294A-EG

ADJUSTABLE BRACES:

Each brace fastens to Strut via two 9/16" dia. (14.3 mm) holes. Parts hinge on 1/2" bolts using nylon insert nuts to prevent loosening. Holes are spaced on 1 7/8" (47.6 mm) centres.



SR298A-EG

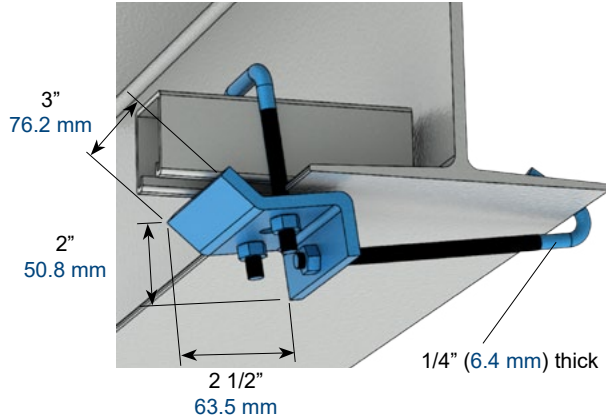


SR299A-EG

GENERAL DATA:

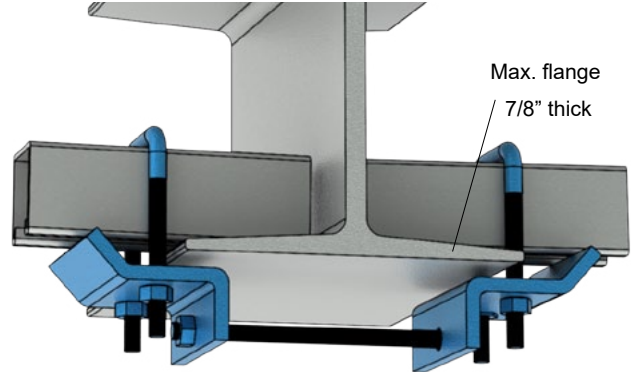
Holes 9/16" (14.3 mm) dia. centred 13/16" (20.6 mm) from ends. Steel is 1 5/8" (41.3 mm) wide and 1/4" (6.4 mm) thick. Standard finish is Electroplated Zinc (-EG). Stainless Steel (-SS) available upon request.

BEAM CLAMPS



S948 SERIES

Catalogue No.	3/8" U-bolt Length* (Inches)	(mm)	3/8" J-hook Length* (Inches)	(mm)
S948SBC-6EG	3 3/4	95.3	6	152.4
S948SBC-8EG	3 3/4	95.3	8	203.2
S948SBC-14EG	3 3/4	95.3	14	355.6
S948LBC-6EG	5 3/8	136.5	6	152.4
S948LBC-8EG	5 3/8	136.5	8	203.2
S948LBC-14EG	5 3/8	136.5	14	355.6

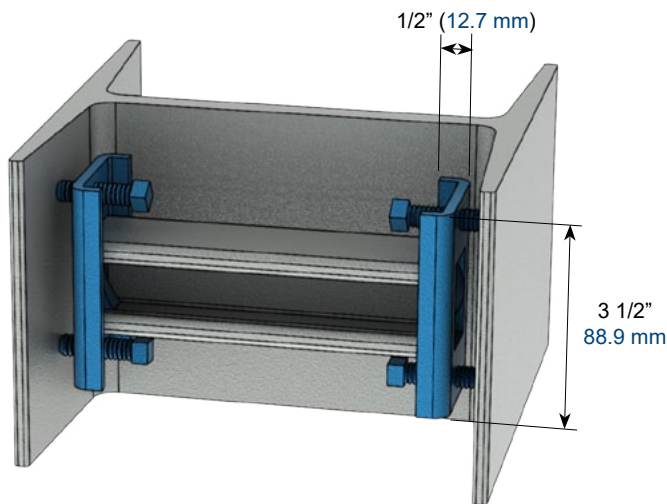


S949 SERIES

Catalogue No.	3/8" U-bolt Length* (Inches)	(mm)	3/8" Rod Length (Inches)	(mm)
S949SBC-6EG	3 3/4	95.3	6	152.4
S949SBC-8EG	3 3/4	95.3	8	203.2
S949SBC-12EG	3 3/4	95.3	12	304.8
S949LBC-6EG	5 3/8	136.5	6	152.4
S949LBC-8EG	5 3/8	136.5	8	203.2
S949LBC-12EG	5 3/8	136.5	12	304.8

S948SBC and S949SBC series for use with Sasco Single and Combination Strut Channels 13/16" to 1 5/8".

S948LBC and S949LBC series for use with Sasco Single and Combination Strut Channels 2 7/16" to 3 1/4".



S954BC-EG S955BC-EG

Used between column flanges. No welding required. The length of strut channel is the inside beam width less 1" (25.4 mm). Sold in pairs.

Part No. Prefix	Used in Channel	Pullout Resistance (Lbs)	(kg)	Slip Resistance (Lbs)	(kg)
S954BC	S2	1000	454	800	363
S954BC	S3	500	227	300	136
S954BC	S4	700	318	500	227
S955BC	S5	1000	454	800	363

Other sizes and finishes available.

Must be used in pairs.

Dimensions are to outside edge unless otherwise indicated.

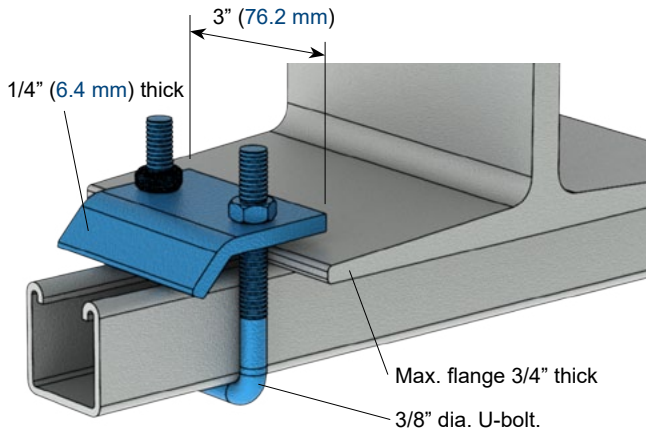
All holes for attachments are 9/16" (14.3 mm) diameter.

*U-bolt and J-hook lengths are measured to the inside of the bend.

Finish Suffix Legend:

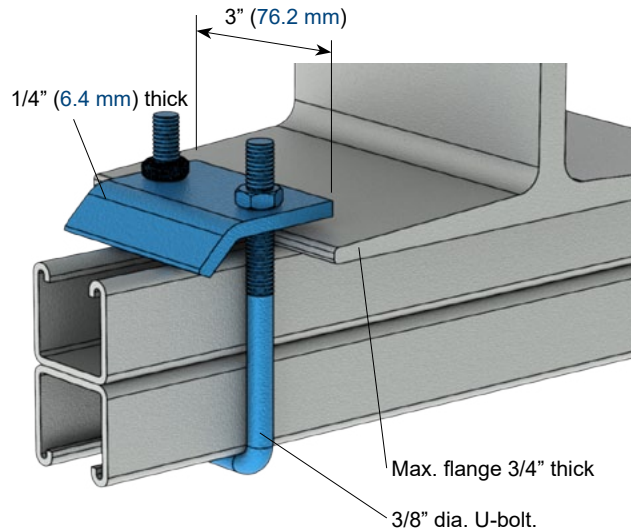
Hot Dip Galvanized After Fabrication	-HG
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

BEAM CLAMPS



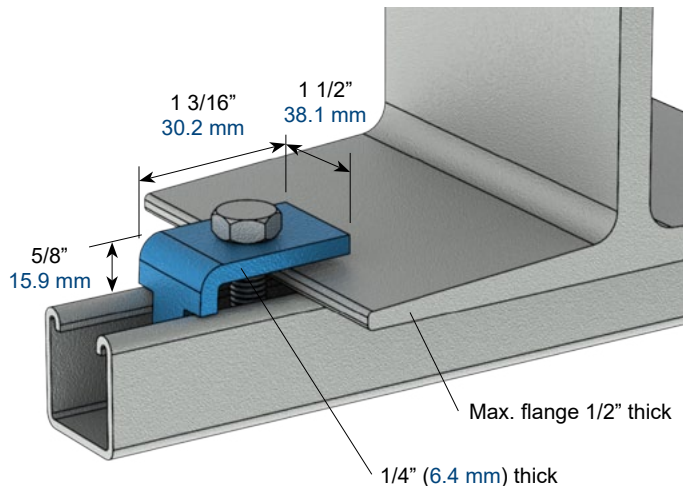
S942BC-EG

For use with Sasco Strut Channel 13/16" to 1 5/8"
Design load* 1000 lbs (455 kg) each.
Must be used in pairs.



S943BC-EG

For use with Sasco Strut Channel 2 7/16" to 3 1/4"
Design load* 1000 lbs (455 kg) each.
Must be used in pairs.



S937BC-EG

Requires 1/2" Sasco Clamping Nut and bolt (not incl.).

Channel Gauge	Design Load* (ea.) (Lbs)	(kg)
12	600	270
14	500	225
16	450	205

Must be used in pairs.

Dimensions are to outside edge unless otherwise indicated.

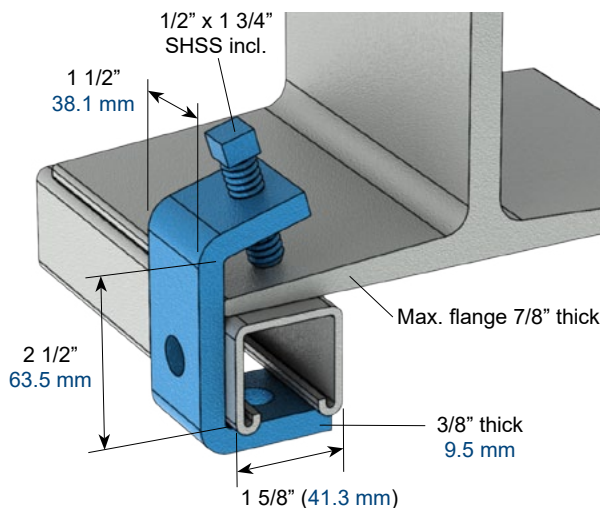
All holes for attachments are 9/16" (14.3 mm) diameter.

*Design load is for a single Sasco Beam Clamp when used in pairs.

Finish Suffix Legend:

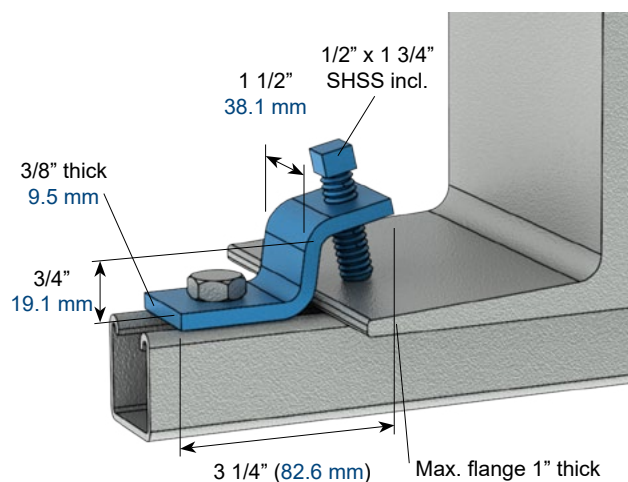
Hot Dip Galvanized After Fabrication	-HG
Pre-galvanized	-G
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

BEAM CLAMPS



S953BC-HG

Requires 1/2" Sasco Clamping Nut and bolt (not incl.).
Design load* 500 lbs (225 kg) each.
Must be used in pairs.

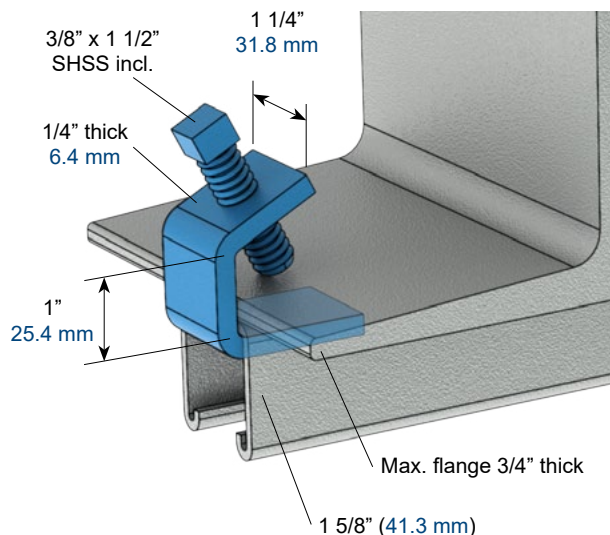


S936BC-HG

Requires 1/2" Sasco Clamping Nut and bolt (not incl.).

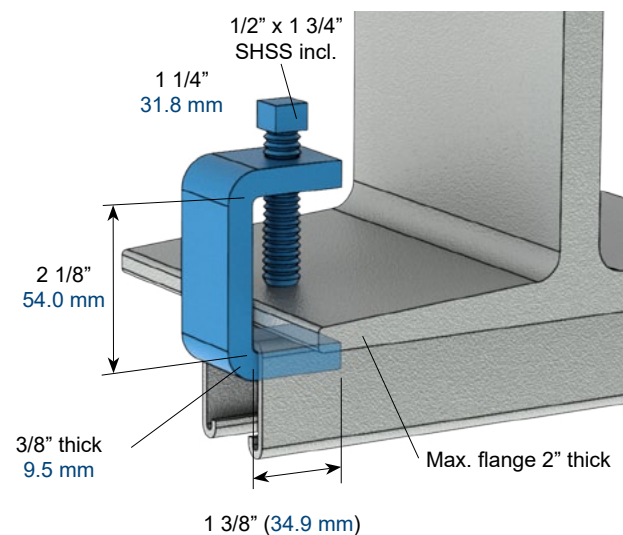
Channel Gauge	Design Load* (ea.) (Lbs)	(kg)
12	600	270
14	500	225
16	450	205

Must be used in pairs.



S950BC-HG

Design load* 450 lbs (205 kg) each.
Must be used in pairs.



S952BC-HG

Design load* 900 lbs (410 kg) each.
Must be used in pairs.

Dimensions are to outside edge unless otherwise indicated.

All holes for attachments are 9/16" (14.3 mm) diameter.

*Design load is for a single Sasco Beam Clamp when used in pairs.

Finish Suffix Legend:

Hot Dip Galvanized After Fabrication	-HG
Pre-galvanized	-G
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

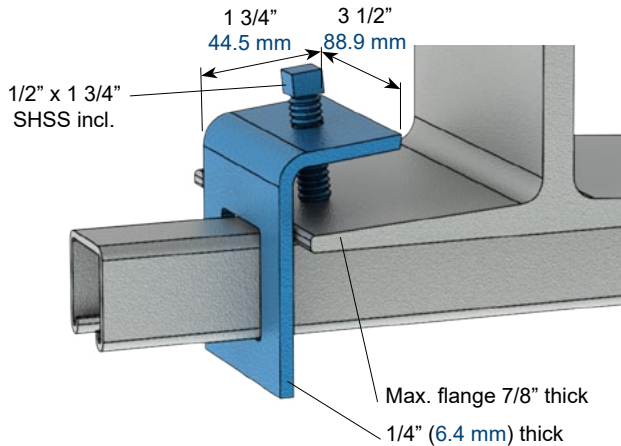
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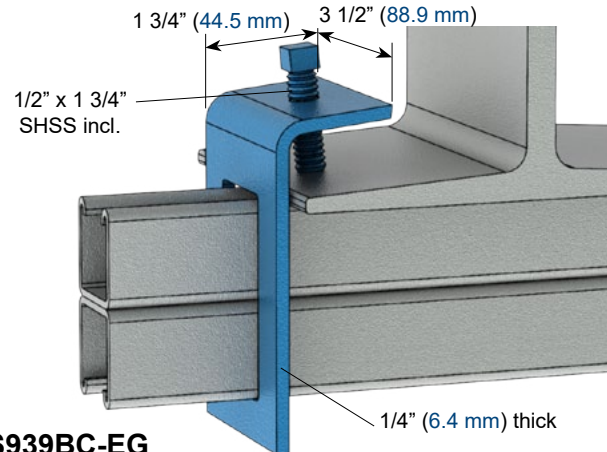
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BEAM CLAMPS



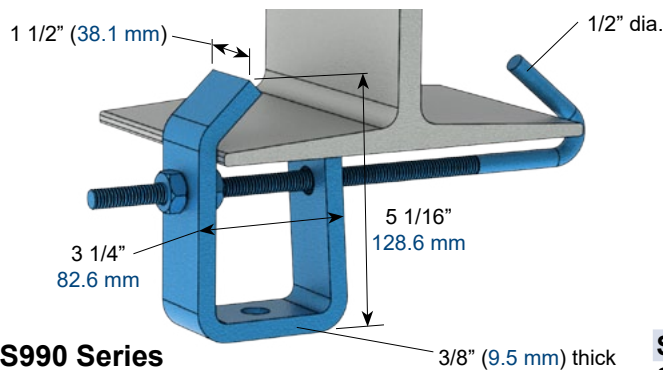
S938BC-EG

For use with 1 5/8" x 1 5/8" channel profiles.
Design load* 480 lbs (220 kg) each.
Must be used in pairs.



S939BC-EG

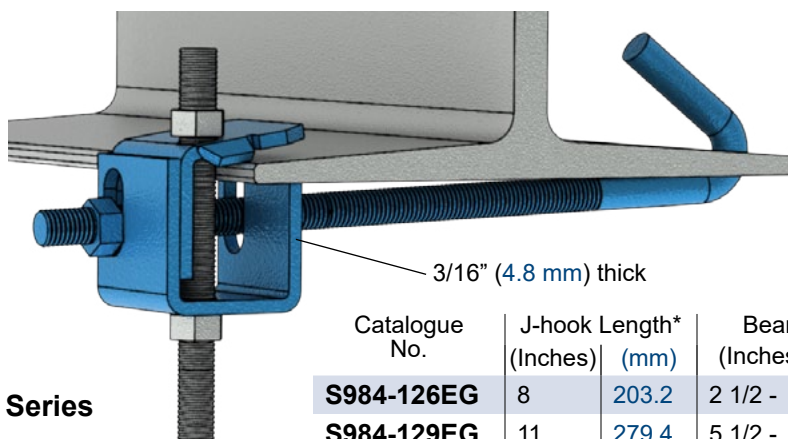
For use with 1 5/8" x 3 1/2" channel profiles.
Design load* 480 lbs (220 kg) each.
Must be used in pairs.



S990 Series

Design load 800 lbs (363 kg)

Catalogue No.	J-hook Length* (Inches)	J-hook Length* (mm)	Beam Flange Range (Inches)	Beam Flange Range (mm)
S997BC-HG	11	279.4	4 - 9	101.60 - 228.6
S999BC-HG	19 1/2	495.3	7 - 17	177.80 - 431.8



S984 Series

Includes one 1/2" hex nut and J-hook. Threaded rod and additional nuts must be ordered separately. Design load 450 lbs (205 kg). Standard finish is electroplated zinc (EG)

Catalogue No.	J-hook Length* (Inches)	J-hook Length* (mm)	Beam Flange Range (Inches)	Beam Flange Range (mm)	Design Load (Lbs)	Design Load (kg)
S984-126EG	8	203.2	2 1/2 - 6	63.5 - 152.4	500	225
S984-129EG	11	279.4	5 1/2 - 9	139.7 - 228.6	500	225
S984-1212EG	14	355.6	8 1/2 - 12	215.9 - 304.8	500	225

Dimensions are to outside edge unless otherwise indicated.

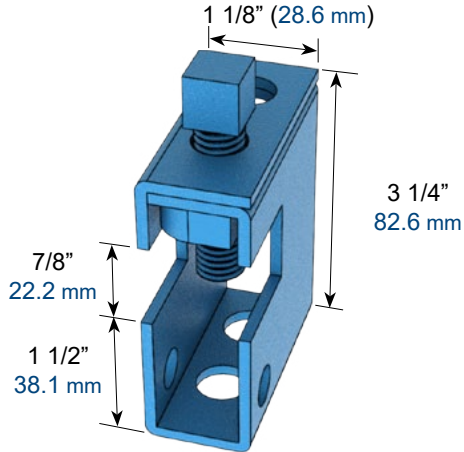
All holes for attachments are 9/16" (14.3 mm) diameter.

*U-bolt and J-hook lengths are measured to the inside of the bend.

Finish Suffix Legend:

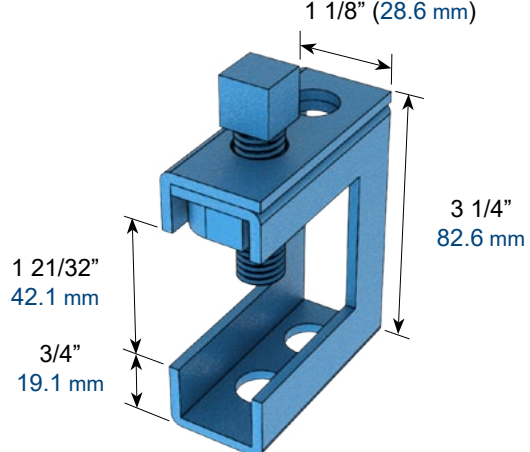
Hot Dip Galvanized After Fabrication	-HG
Electroplated Zinc	-EG
Stainless Steel Type 304	-SS4
Stainless Steel Type 316	-SS6

BEAM CLAMPS



S902BC-HG

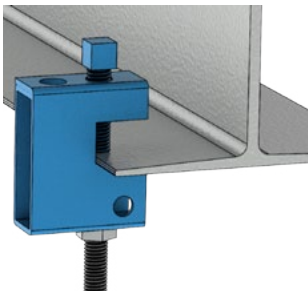
One 1/2" x 1 3/4" SHSS incl.
All holes 9/16" dia. (14.3 mm)



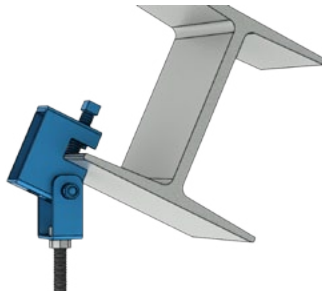
S900BC-HG

One 1/2" x 1 3/4" SHSS incl.
All holes 9/16" dia. (14.3 mm)

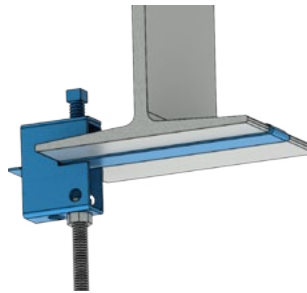
TYPICAL USES OF THE ABOVE BEAM CLAMPS



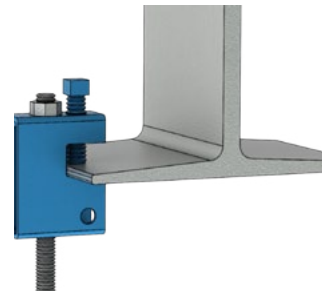
Design load 500 lbs (227 kg)



Design load 500 lbs (227 kg)

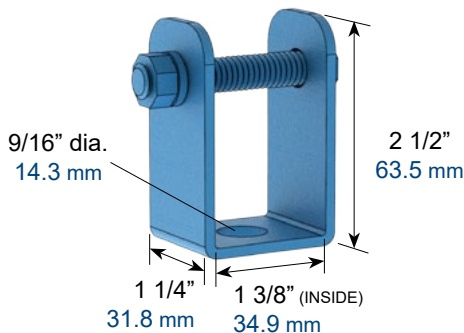


Design load 500 lbs (227 kg)



Design load 300 lbs (136 kg)

CLEVIS HANGER

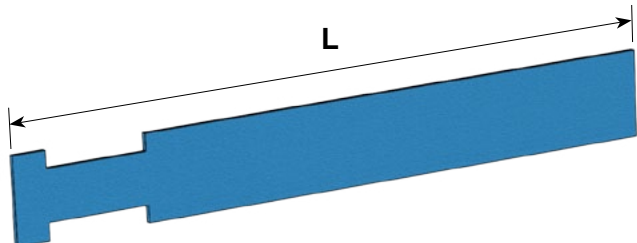


S906BC-HG

Used with S902BC

Standard finish is hot dip galvanized (HG)

SAFETY STRAPS

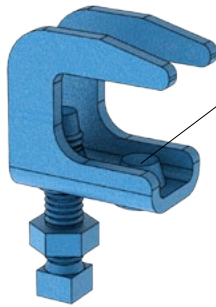


Used with S902BC and S900BC
Standard finish is pre-galvanized (G)

Catalogue No.	L (Inches)	L (mm)	Beam Flange Range (Inches)	Beam Flange Range (mm)
S930BC-G	9	228.6	6	152.4
S931BC-G	12	304.8	9	228.6
S932BC-G	15	381.0	12	304.8
S933BC-G	20	508.0	16	406.4

PIPE HANGER: BEAM CLAMPS

SILVERHAWK TOP BEAM CLAMP



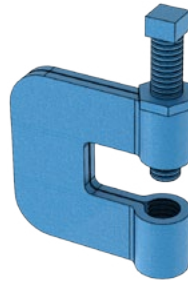
3/8" - 16 thread

Standard finish is
electroplated zinc (EG)
Also available in
stainless steel (SS)

F38TBSH-EG

Design Load 400 lbs

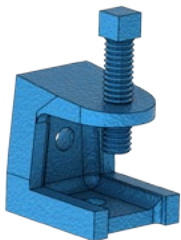
STAMPED "C" CLAMP



Catalogue No.	Rod Dia. (Inches)	Design Load (Lbs)
S201-3/8	3/8	400
S201-1/2	1/2	500
S201-5/8	5/8	550
S201-3/4	3/4	630
S201-7/8	7/8	700

Carbon steel body, zinc plated is
standard. Also available in plain steel
finish (P), and stainless steel (SS).

INSULATOR OR ROD SUPPORT



Catalogue No.	Rod Dia. (Inches)	Design Load (Lbs)
SH405TB14M	1/4	335
SH405T516M	5/16	335
SH405TB38M	3/8	525

Maleable iron body (M). Also available in
zinc plated (Z) and stainless steel (SS).

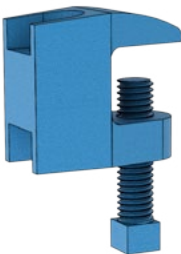
CEILING FLANGE



Catalogue No.	Rod Dia. (Inches)	Design Load (Lbs)
SH28C14MZ	1/4	180
SH28C38MZ	3/8	180
SH28C12MZ	1/2	180

Carbon steel body, zinc plated (MZ).
Also available in black finish (M), and
stainless steel (SS).

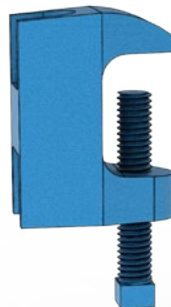
SMALL MOUTH TOP BEAM CLAMP



Catalogue No.	Rod Dia. (Inches)	Design Load (Lbs)
SH406TB38M	3/8	350
SH406TB12M	1/2	470
SH406TB58M	5/8	550
SH406TB34M	3/4	700
SH406TB78M	7/8	1000

Maleable iron body (M). Also available in
zinc plated (Z) and stainless steel (SS).

WIDE MOUTH TOP BEAM CLAMP



Catalogue No.	Rod Dia. (Inches)	Design Load (Lbs)
SH407TB38M	3/8	400
SH407TB12M	1/2	500
SH407TB58M	5/8	850
SH407TB34M	3/4	850

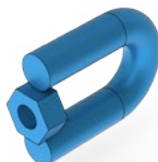
Maleable iron body (M). Also available in
zinc plated (Z).

SWIVELS



Male, 1" stud

Catalogue No.	Thread
S12-1M-EG	1/2" - 13
S38-1M-EG	3/8" - 16



Female

Catalogue No.	Thread
S12F-EG	1/2" - 13
S38F-EG	3/8" - 16



Male-Female, 1" stud

Catalogue No.	Thread
S12-1MF-EG	1/2" - 13
S38-1MF-EG	3/8" - 16



Female-Female

Catalogue No.	Thread
S12FF-EG	1/2" - 13
S38FF-EG	3/8" - 16

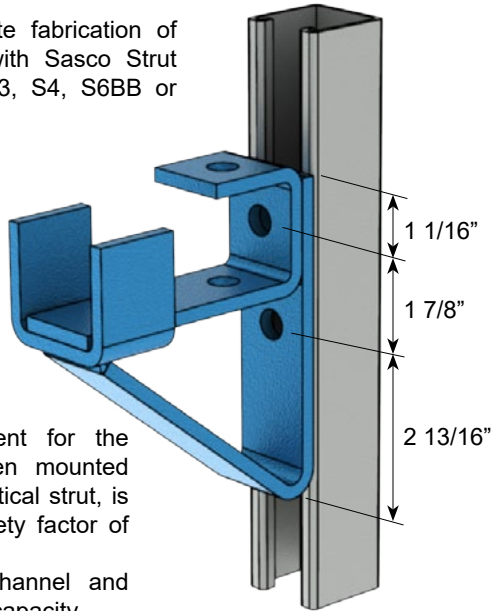
BRACKETS

The Sasco Brackets illustrated are the most common styles and lengths, and are suitable for wall or strut channel mounting.

Sasco will manufacture custom styles or lengths to meet your requirements.

S681B-HG

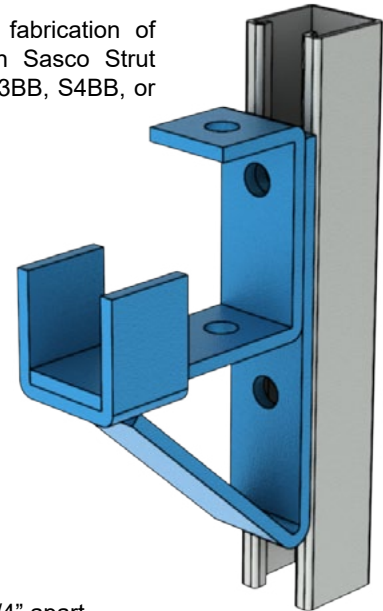
Allows for on-site fabrication of brackets. Use with Sasco Strut Channels S2, S3, S4, S6BB or S7BB.



Allowable moment for the fitting, only when mounted on 12 gauge vertical strut, is 5150 in-lbs. Safety factor of 2.5. Inserted strut channel and length may limit capacity.

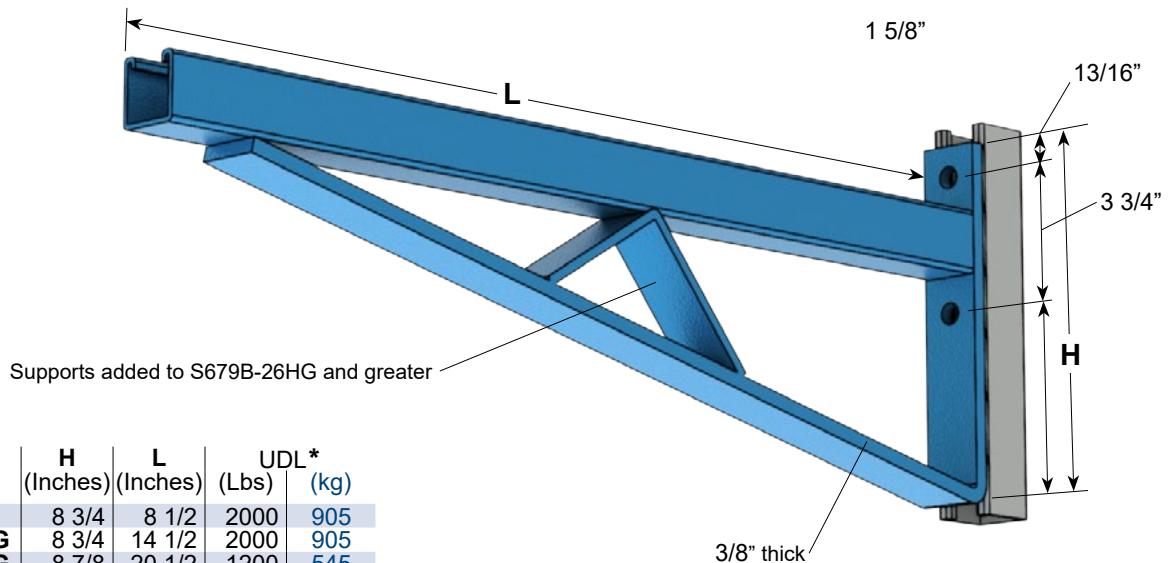
S682B-HG

Allows for on-site fabrication of brackets. Use with Sasco Strut Channels S2BB, S3BB, S4BB, or S9.



Holes spaced 3 3/4" apart

S679B Series



Supports added to S679B-26HG and greater

Catalogue No.	H (Inches)	L (Inches)	UDL* (Lbs)	UDL* (kg)
S679B-8HG	8 3/4	8 1/2	2000	905
S679B-14HG	8 3/4	14 1/2	2000	905
S679B-20HG	8 7/8	20 1/2	1200	545
S679B-26HG	8 7/8	26 1/2	975	440
S679B-32HG	11 1/4	32 1/2	920	420
S679B-38HG	11 1/2	38 1/2	860	390

Safety factor of 2.5.

*The Uniform Design Load (UDL) values shown are when 12 ga. vertical strut channel is used.

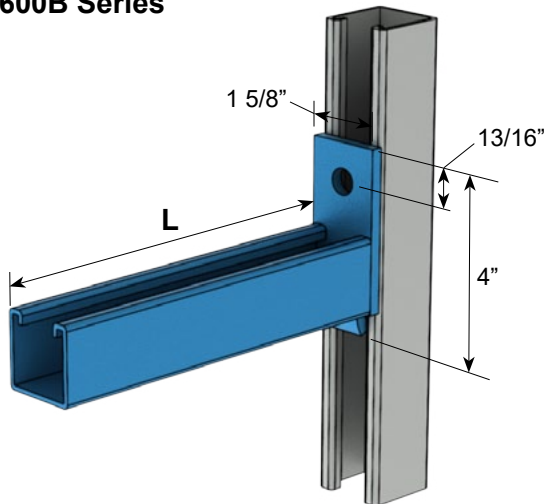
Uprights must be designed to properly support load. When wall mounted, anchors must be of sufficient size to support load.

Note: All holes 9/16" dia., 1.000 inches = 25.40 mm

BRACKETS

The Sasco Brackets illustrated are the most common styles and lengths, and are suitable for wall or strut channel mounting. Sasco will manufacture styles and lengths to meet your requirements. For all brackets below, two 1/2" bolts and 1/2" Sasco Clamping Nuts are required for mounting (not included).

S600B Series

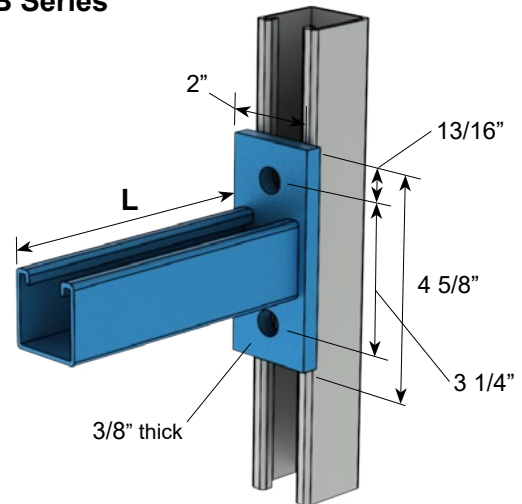


Catalogue No.	L (Inches)	UDL* (Lbs)	UDL* (kg)
S600B-8HG	8	1100	500
S600B-14HG	14	550	250
S600B-20HG	20	350	160
S600B-26HG	26	250	110

Safety factor of 2.5.

Custom lengths on request.

S665B Series



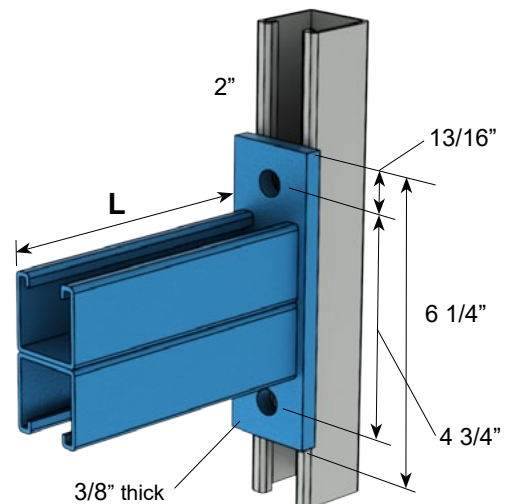
Catalogue No.	L (Inches)	UDL* (Lbs)	UDL* (kg)
S665B-6HG	6	1400	635
S665B-12HG	12	750	340
S665B-18HG	18	500	225
S665B-24HG	24	455	205

Safety factor of 2.5.

S655B Series

Catalogue No.	L (Inches)	UDL* (Lbs)	UDL* (kg)
S655B-6HG	6	2150	975
S655B-12HG	12	1900	860
S655B-18HG	18	1200	545
S655B-24HG	24	930	420
S655B-30HG	30	780	355
S655B-36HG	36	610	275

Safety factor of 2.5.



*The Uniform Design Load (UDL) values shown are when 12 ga. vertical strut channel is used.

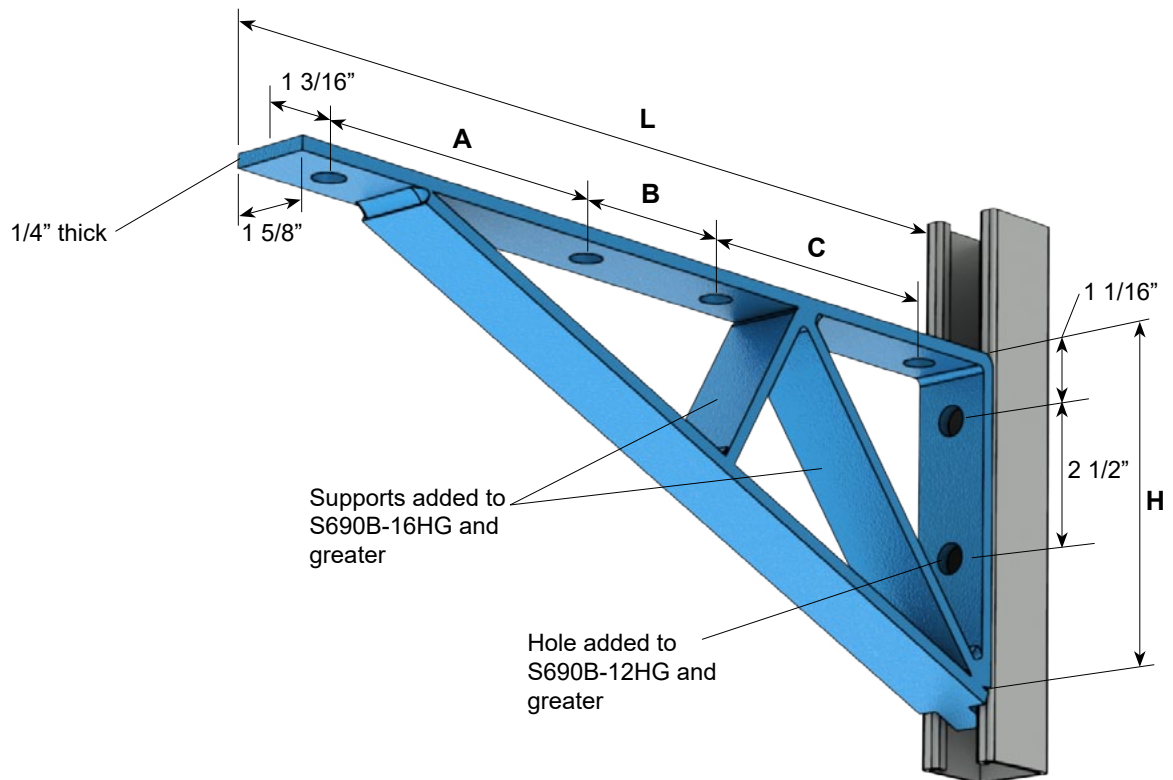
Uprights must be designed to properly support load. When wall mounted, anchors must be of sufficient size to support load.

Note: All holes 9/16" dia., 1.000 inches = 25.40 mm, 1.000 lbs = 0.4536 kg

BRACKETS

The Sasco Brackets illustrated are the most common styles and lengths, and are suitable for wall or strut channel mounting. Sasco will manufacture styles and lengths to meet your requirements. For all brackets below, two 1/2" bolts and 1/2" Sasco Clamping Nuts are required for mounting (not included).

S690B Series



Catalogue No.	H (Inches)	L (Inches)	A (Inches)	B (Inches)	C (Inches)	UDL* (Lbs)
S690B-8HG	4	8 1/2	6 1/8	-	-	820
S690B-10HG	4	10 1/2	3 3/4	4 3/8	-	820
S690B-12HG	6	12 1/2	3 3/4	3 1/8	3 1/4	950
S690B-14HG	6	14 1/2	5 3/4	3 1/8	3 1/4	950
S690B-16HG	6	16 1/2	5 3/4	3 1/8	5 1/4	1150
S690B-18HG	6	18 1/2	7 3/4	3 1/8	5 1/4	1090
S690B-20HG	6	20 1/2	7 3/4	3 1/8	7 1/4	670

Safety factor of 2.5.

*The Uniform Design Load (UDL) values shown are when 12 ga. vertical strut channel is used.
 Uprights must be designed to properly support load. When wall mounted, anchors must be of sufficient size to support load.
 Note: All holes 9/16" dia., 1.000 inches = 25.40 mm, 1.000 lbs = 0.4536 kg

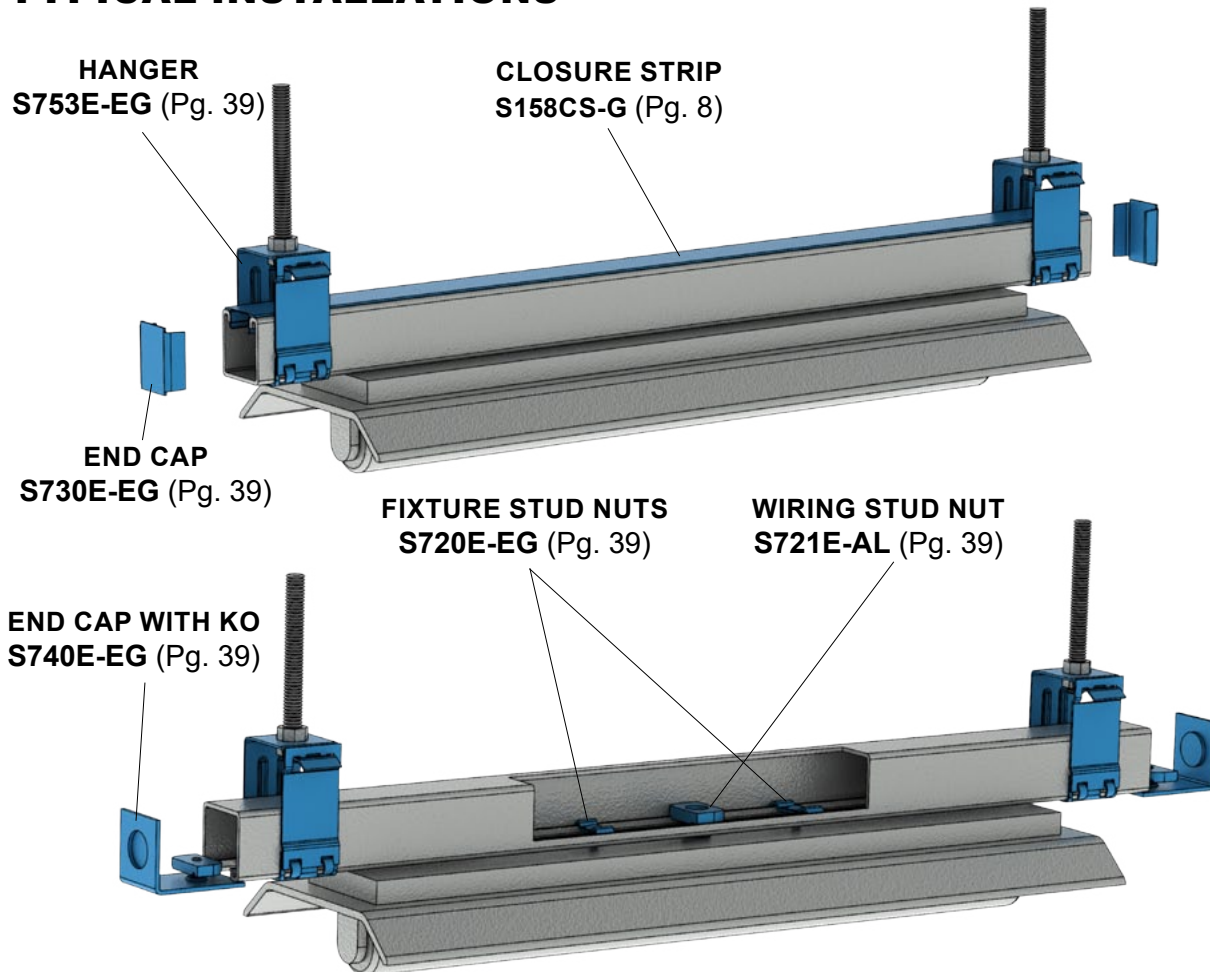
SASCO SURFACE RACEWAYS



LR 28611

To eliminate the individual suspension of fluorescent lighting fixtures, and to save labour and material, use Sasco Surface Raceways. When Sasco Strut Channel is in place, fixtures may be installed anywhere along the system. Due to the strength of the strut channel, a minimum number of suspension rods are required.

TYPICAL INSTALLATIONS



Note: S158CS-G Closure Strip must be used to form an enclosed raceway. A fixture enclosure may form one face of the raceway.

“Caution: wiring in raceway shall be rated at not less than 75 °C when electric-discharge lighting fixtures are supported closer than 1/2” (12.7 mm) from the raceway.”

WIRING CAPACITY FOR TYPES R, RH, RW, T OR TW:

Wire Thickness		Strut Channel Catalogue Prefix		
(Ga.)	(mm approx.)	S2, S3, S2KO6, S3KO6	S5, S5KO6	S6, S7, S6KO6, S7KO7
14	1.6	10	10	10
12	2.1	10	10	9
10	2.6	10	10	7
8	3.3	10	8	4
6	4.1	6	5	3

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Sasco Strut Channel Deflection for a Continuous Row of Fixtures at 15 lbs (7.3 kg) Per Fixture

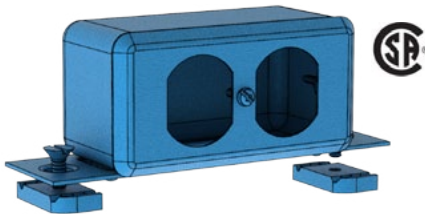
Support Distance		Strut Channel Catalogue Prefix									
(Feet)	(m)	S2 (Inches)	(mm)	S3 (Inches)	(mm)	S5 (Inches)	(mm)	S6 (Inches)	(mm)	S7 (Inches)	(mm)
4	1.22	0.004	0.102	0.006	0.152	0.013	0.330	0.037	0.940	0.028	0.711
8	2.44	0.064	1.626	0.096	2.438	0.212	5.385	0.595	15.11	0.458	11.63
12	3.66	0.324	8.230	0.490	12.45	1.077	27.36				
16	4.88	1.025	26.04	1.550	39.37						

When fixtures are spaced 4 feet (1.22 m) apart, the deflection will be approximately 50% of the values for a continuous row. To maintain the above deflection, **do not** join strut channel in mid span.

FITTINGS FOR SASCO SURFACE RACEWAY

RECEPTACLE BOX

S755E-G



Supplied with two 1/4" x 5/8" FHMS and two S14W Sasco Clamping Nuts. Receptacle not included.

FIXTURE HANGER



17/32" dia.
13.5 mm

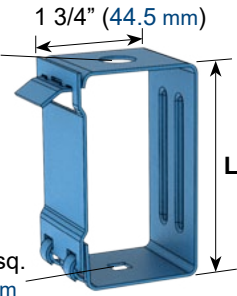
L

S753E-EG (shown) 3" (76.2 mm)

S754E-EG 5" (127.0 mm)

Other sizes available upon request.

9/32" sq.
7.1 mm



FOUR HOLE SPLICE PLATE

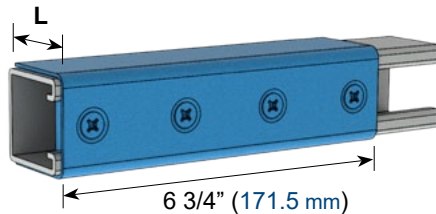
L

S710E-G (shown) 1 5/8" (41.3 mm)

S712E-G 13/16" (20.6 mm)

16 GAUGE

Supplied with four 1/4" x 5/8" FHMS and four S14W Sasco Clamping Nuts.



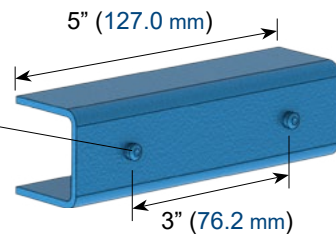
INSIDE SPLICE PLATE

CHANNEL

S751IS-G S1

S752IS-G S2,S3,S4

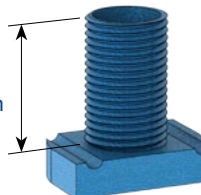
Supplied with two hex socket head jamb screws.



1/2" WIRING STUD NUT

S721E-AL

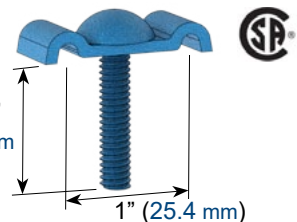
1 1/8"
28.6 mm



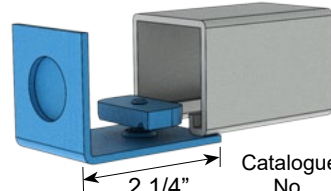
FIXTURE STUD NUT

S720E-EG

1 1/8"
28.6 mm



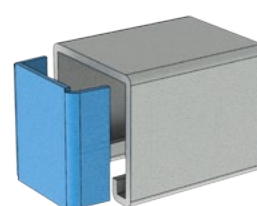
END CAP WITH KNOCK-OUT



Supplied with S14W Sasco Clamping Nut and bolt.

Catalogue No.	KO Rigid Pipe Size	KO Dia. (Inches)	(mm)	Channel
S740E-EG	1/2	0.84	21.6	S2,S3,S4
S742E-EG	3/4	1.05	26.7	S1
S743E-EG	3/4	1.05	26.7	S2,S3,S4

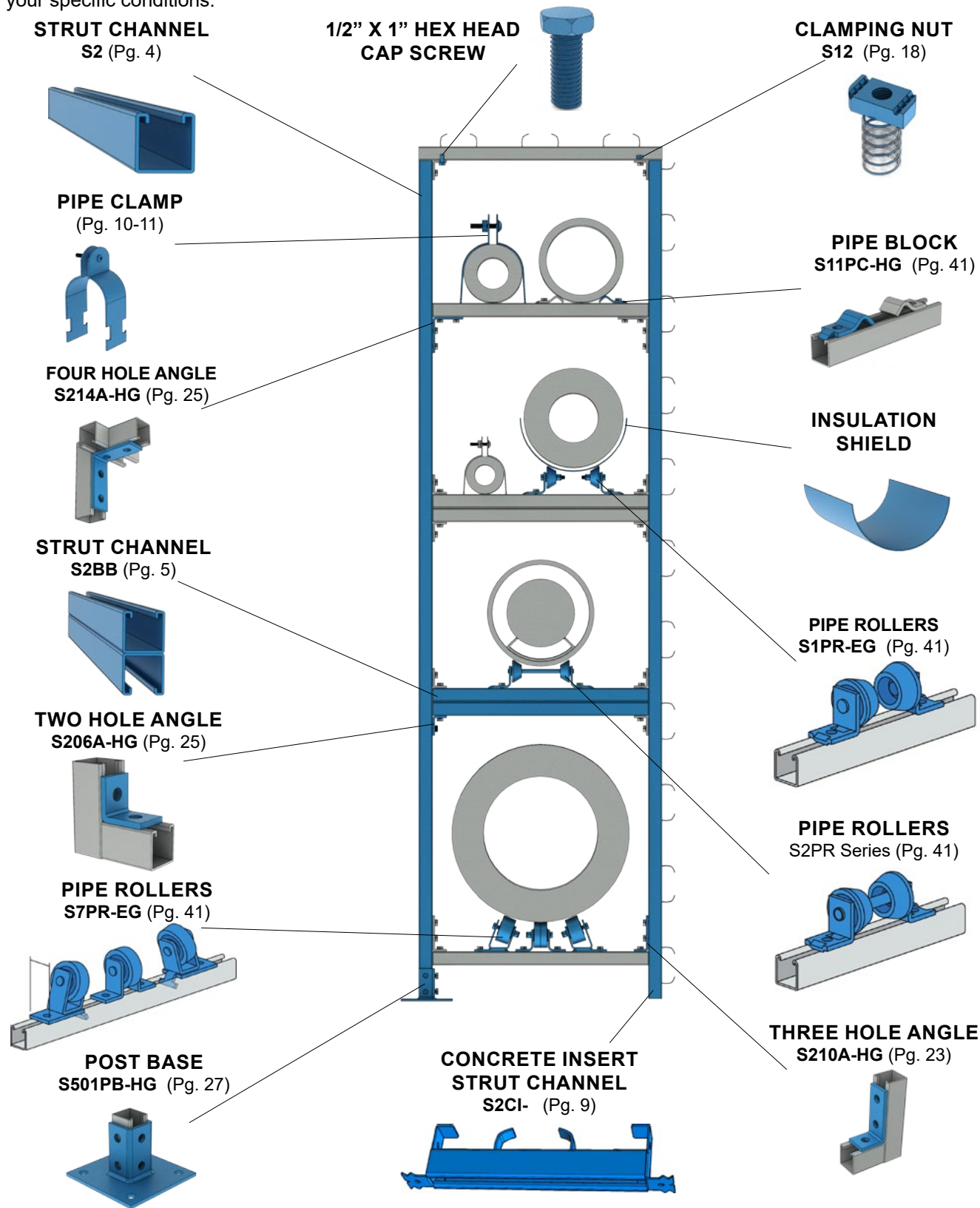
END CAP



Catalogue No.	Channel
S733E-EG	S1
S730E-EG	S2,S3,S4
S731E-EG	S5
S734E-EG	S6, S7

PIPE TUNNEL FRAME

Below is a composite drawing of a pipe tunnel frame. Consult Sasco for assistance in designing framing to meet your specific conditions.

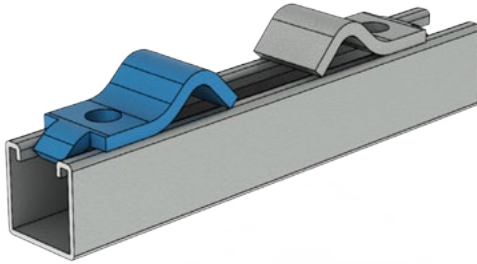


MECHANICAL FITTINGS

PIPE BLOCK

For pipe diameters 2 to 8" (50.8 to 203.2 mm)

Use in pairs.

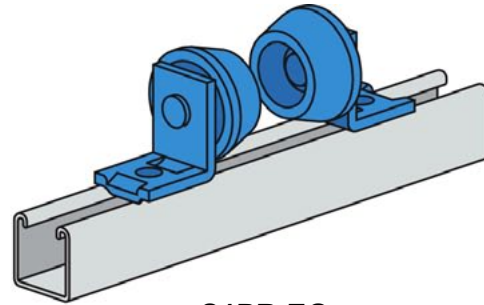


S11PC-HG

PIPE ROLLERS

For pipe sizes 1 to 8" (25.4 to 203.2 mm)

Design load 500 lbs (2.22 kN). Safety factor of 5.



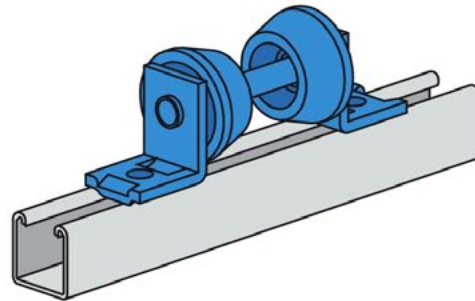
S1PR-EG

PIPE ROLLERS WITH AXLE

S2PR Series

Catalogue No.	Pipe Size (Inches)	Pipe Size (mm)
S2PR1-3EG	1 - 3	25.4 - 76.2
S2PR25-4EG	2 1/2 - 4	63.5 - 101.6
S2PR4-6EG	4 - 6	101.6 - 152.4
S2PR6-8EG	6 - 8	152.4 - 203.2
S2PR9-10EG	9 - 10	228.6 - 254.0
S2PR12EG	12	304.8 -

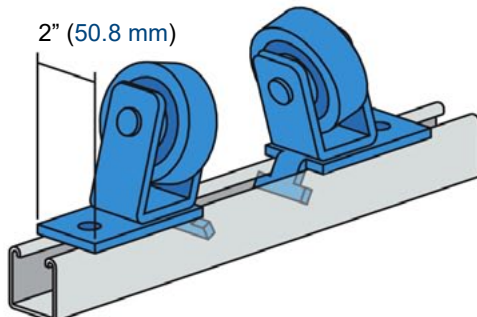
Design load 750 lbs (3.33 kN). Safety factor of 5.



PIPE ROLLERS

For pipe sizes 6 to 18" (152.4 to 203.2 mm)

Design load 1500 lbs (6.67 kN). Safety factor of 5.

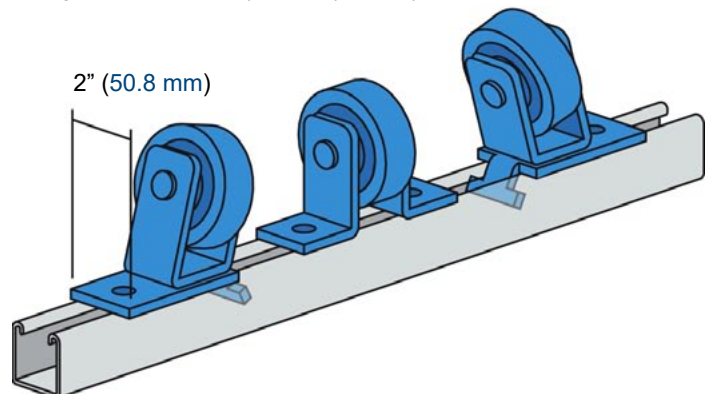


S6PR-EG

PIPE ROLLERS

For pipe sizes 20 to 30" (508 to 762 mm)

Design load 2000 lbs (8.89 kN). Safety factor of 5.

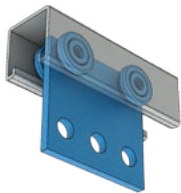


S7PR-EG

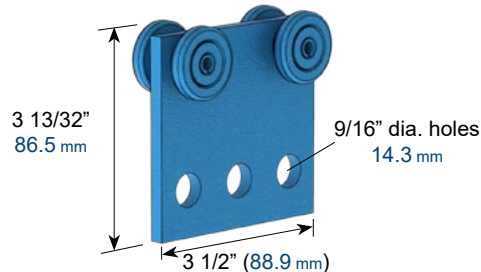
Note: 1/2" Sasco Clamping Nuts and 1/2" x 1" hex head cap screws must be ordered separately for each assembly above.

TROLLEYS

The Sasco Trolley System provides mobility, reliability and economy. Stainless Steel wheel bearings require no lubrication for longevity and maintenance-free performance. Specialized supports allow trolleys to travel the full length of the strut channel track. Great for doors, tools, curtains and other applications.

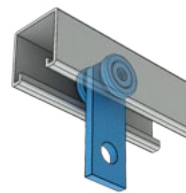


		Design Load	
FPM	RPM	(lbs)	(kN)
180	600	300	1.33
90	300	450	2.00
30	100	600	2.67

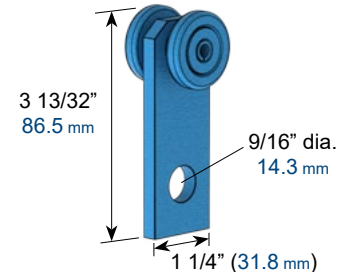


S871T-EG

Do not lubricate.

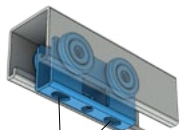


		Design Load	
FPM	RPM	(lbs)	(kN)
180	600	150	0.67
90	300	225	1.00
30	100	437	1.94

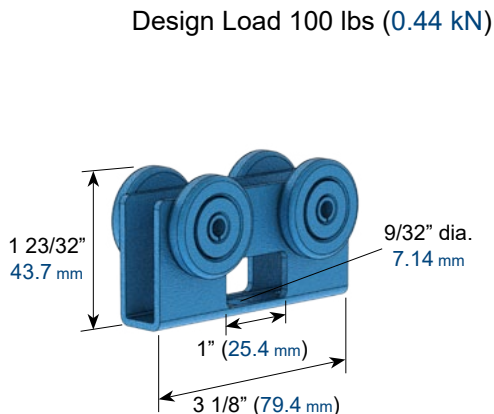


S870T-EG

Do not lubricate.

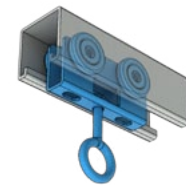


Slots 9/16" x 9/32"
14.3 mm x 7.14 mm



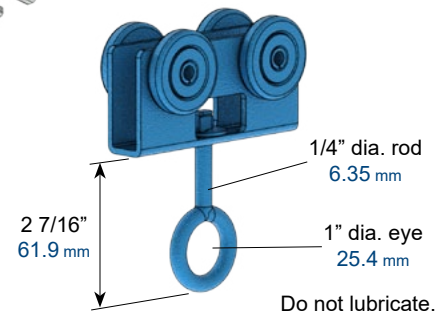
S875T-EG

Do not lubricate.



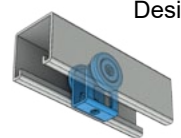
Design Load 100 lbs (0.44 kN)

Same as S875T-EG with
1/4" dia. eye bolt

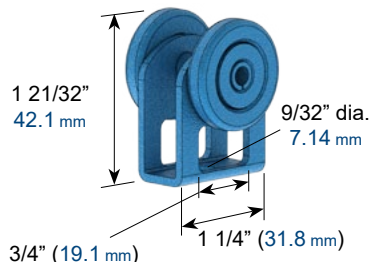


S876HT-EG

Do not lubricate.

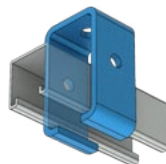


Design Load 50 lbs
(0.22 kN)



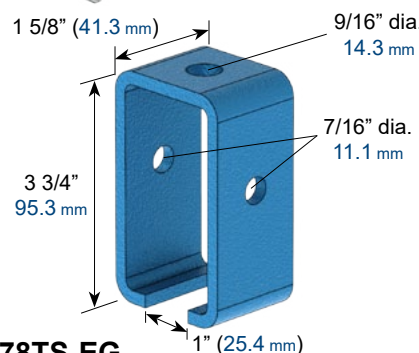
S873T-EG

Do not lubricate.

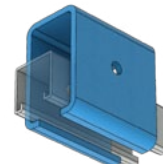


Design Load 1200 lbs
(5.28 kN)

Requires 3/8" x 2 1/2" bolt
and 3/8" nut (not included)

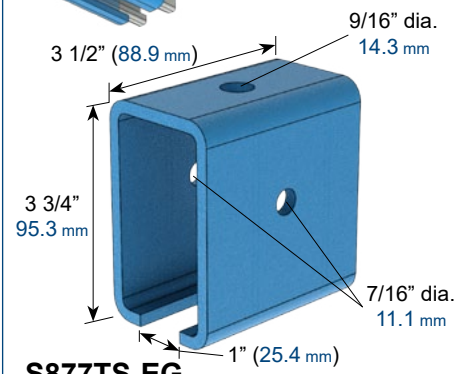


S878TS-EG



Design Load 2500 lbs
(11.34 kN)

Requires 3/8" x 2 1/2" bolt
and 3/8" nut (not included)



S877TS-EG

STRUT CHANNEL: MINI

STEEL

Catalogue Prefix	H (Inches)	H (mm)	Thickness (Ga.)
S18	13/16	10.32	20
S19	13/32	7.94	20

Standard lengths are 10 feet (-120) and 20 feet (-240).

Finishes:

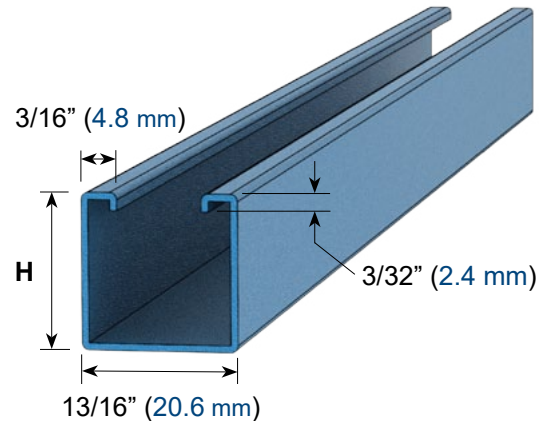
Pre-galvanized (standard)

G

Plain Steel

P

Add suffix above to catalogue prefix to specify required finish (S18G-120).
Special coatings (paint, epoxy, PVC) can be supplied to your specifications.



STAINLESS STEEL

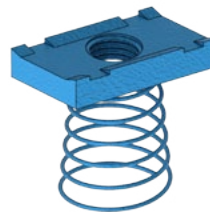
Sasco Mini Strut Channels are available in Type 304 stainless steel. Use suffix SS4 for part number (S18SS4-120).
Stainless steel Type 316 available upon request (SS6).

CLAMPING NUTS: MINI STRUT

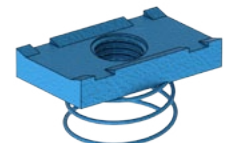
Sasco Mini Strut Clamping Nuts allow attachment anywhere along the continuous slot of the Mini Strut Channels without drilling or welding. If change is required, fittings are easily adjusted, removed or reused.

Thread Size	Catalogue Numbers	
	Regular Spring	Short Spring
#8 - 32	SM-0832	SM-0832S
#10 - 32	SM-1032	SM-1032S
1/4" - 20	SM-14	SM-14S

Standard finish is electroplated zinc.



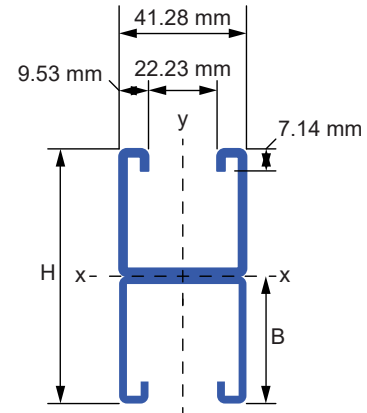
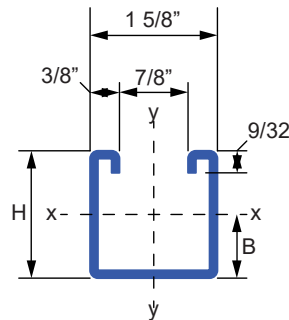
REGULAR SPRING



SHORT SPRING

ELEMENTS OF SASCO STEEL CHANNELS

A = Area of Section
I = Moment of Inertia
S = Section of Modulus
r = Radius of Gyration

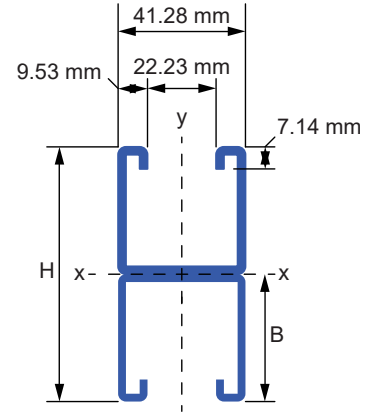
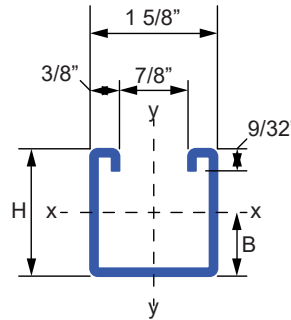


IMPERIAL MEASURES

Catalogue Prefix	Ga.	H (In)	Weight (Lbs/Ft)	A (In ²)	Section x-x				B (In)	Section y-y			
					I (In ⁴)	S (In ³)	r (In)			I (In ⁴)	S (In ³)	r (In)	
S1	12	2.438	2.47	0.728	0.512	0.389	0.849		1.110	0.332	0.414	0.684	
S2	12	1.625	1.89	0.558	0.186	0.206	0.580		0.714	0.232	0.290	0.652	
S3	16	1.625	1.18	0.339	0.123	0.139	0.604		0.742	0.141	0.177	0.664	
S4	14	1.625	1.42	0.409	0.141	0.156	0.599		0.729	0.173	0.215	0.661	
S5	12	1.000	1.46	0.428	0.056	0.096	0.355		0.424	0.168	0.210	0.621	
S6	16	0.813	0.84	0.234	0.020	0.043	0.308		0.345	0.088	0.109	0.611	
S7	14	0.813	1.02	0.294	0.026	0.057	0.298		0.342	0.109	0.133	0.609	
S8	12	1.375	1.71	0.499	0.121	0.153	0.488		0.591	0.204	0.250	0.637	
S9	12	3.250	3.06	0.899	1.110	0.639	1.107		1.509	0.435	0.535	0.696	
S1BB	12	4.875	4.94	1.456	2.860	1.170	1.394		2.438	0.665	0.825	0.680	
S2BB	12	3.250	3.78	1.116	0.954	0.587	0.921		1.625	0.475	0.583	0.655	
S3BB	16	3.250	2.36	0.678	0.613	0.377	0.951		1.625	0.248	0.285	0.666	
S4BB	14	3.250	2.84	0.818	0.738	0.454	0.942		1.625	0.326	0.390	0.662	
S5BB	12	2.000	2.92	0.856	0.262	0.262	0.554		1.000	0.325	0.392	0.617	
S6BB	16	1.625	1.68	0.468	0.097	0.122	0.460		0.813	0.175	0.216	0.613	
S7BB	14	1.625	2.04	0.588	0.121	0.159	0.455		0.813	0.217	0.265	0.609	
S8BB	12	2.750	3.42	0.998	0.590	0.429	0.770		1.375	0.407	0.500	0.640	
S9BB	12	6.500	6.12	1.798	6.275	1.928	1.868		3.250	0.869	1.070	0.696	

ELEMENTS OF SASCO STEEL CHANNELS

A = Area of Section
I = Moment of Inertia
S = Section of Modulus
r = Radius of Gyration



METRIC MEASURES

Catalogue Prefix	Ga.	H (cm)	Weight (kg/m)	A (cm ²)	Section x-x			B (cm)	Section y-y		
					I (cm ⁴)	S (cm ³)	r (cm)		I (cm ⁴)	S (cm ³)	r (cm)
S1	12	6.19	3.68	4.70	21.30	6.37	2.16	2.82	13.80	6.78	1.74
S2	12	4.13	2.81	3.60	7.74	3.38	1.47	1.81	9.66	4.75	1.66
S3	16	4.13	1.76	2.19	5.12	2.28	1.53	1.88	5.87	2.90	1.69
S4	14	4.13	2.11	2.64	5.87	2.56	1.52	1.85	7.20	3.52	1.68
S5	12	2.54	2.17	2.76	2.33	1.57	0.90	1.08	6.99	3.44	1.58
S6	16	2.06	1.25	1.51	0.83	0.70	0.78	0.88	3.66	1.79	1.55
S7	14	2.06	1.52	1.90	1.08	0.93	0.76	0.87	4.54	2.18	1.55
S8	12	3.49	2.55	3.22	5.04	2.51	1.24	1.50	8.49	4.10	1.62
S9	12	8.26	4.56	5.80	46.20	10.47	2.81	3.83	18.11	8.77	1.77
S1BB	12	12.38	7.36	9.39	119.00	19.20	3.54	6.19	27.70	13.50	1.73
S2BB	12	8.26	5.62	7.20	39.70	9.62	2.34	4.13	19.80	9.55	1.66
S3BB	16	8.26	3.52	4.37	25.50	6.18	2.42	4.13	10.30	4.67	1.69
S4BB	14	8.26	4.22	5.28	30.70	7.44	2.39	4.13	13.60	6.39	1.68
S5BB	12	5.08	4.34	5.52	10.90	4.29	1.41	2.54	13.50	6.42	1.57
S6BB	16	4.12	2.50	3.02	4.04	2.00	1.17	2.06	7.28	3.54	1.56
S7BB	14	4.12	3.04	3.79	5.04	2.61	1.16	2.06	9.03	4.34	1.55
S8BB	12	6.99	5.10	6.44	24.56	7.03	1.96	3.49	16.94	8.19	1.63
S9BB	12	16.51	9.12	11.61	261.19	31.59	4.74	8.26	36.17	17.53	1.77

LOAD TABLES FOR STEEL STRUT CHANNELS

COLUMN LOADS

Maximum allowable load of columns depends on many factors, including end conditions, eccentricity of load, bracing and length. Submit full details of application to Sasco and we will advise you which Sasco Strut Channels to use.

SIMPLE SPAN STEEL BEAM LOADS

The following tables are for steel and stainless steel and based on 25,000 psi allowable stress about the x-axis as pictured on page 45 and 46. Safety Factor 1.67 to Yield Strength.

The loads shown are the **NET allowable UNIFORMLY DISTRIBUTED** load, which is defined as the maximum allowable uniformly distributed load LESS the weight of the beam and **therefore is the additional weight which the beam can carry.**

For concentrated loads at the center of the span, multiply load by 0.50 and deflection by 0.80.

For Sasco Pre-punched, Slotted and Knock-out Channels, multiply load by 0.85.

Simple long span beams must be supported to prevent rotation and be adequately braced so as to prevent twisting. If this is not the case, the allowable loads will be reduced.

Catalogue Prefix	(Ga.)	12" Beam					18" Beam				
		Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection			Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection		
		(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)	(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)
S9	12	10,625	0.01"	10,625	10,625	10,625	7,080	0.02"	7,080	7,080	7,080
S1	12	6,635	0.01"	6,635	6,635	6,635	4,425	0.02"	4,425	4,425	4,425
S2	12	3,445	0.02"	3,445	3,445	3,445	2,295	0.03"	2,295	2,295	2,295
S4	14	2,745	0.02"	2,745	2,745	2,745	1,830	0.03"	1,830	1,830	1,830
S8	12	2,625	0.02"	2,625	2,625	2,625	1,750	0.04"	1,750	1,750	1,750
S3	16	2,315	0.02"	2,315	2,315	2,315	1,540	0.03"	1,540	1,540	1,540
S5	12	1,550	0.02"	1,550	1,550	1,550	1,030	0.05"	1,030	1,030	1,030
S7	14	925	0.03"	925	925	925	615	0.06"	615	615	505
S6	16	805	0.03"	805	805	805	535	0.06"	535	535	435

¹ See above for details.

LOAD TABLES FOR STEEL STRUT CHANNELS

		24" Beam					30" Beam				
Catalogue Prefix	(Ga.)	Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection			Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection		
		(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)	(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)
S9BB	12	5,305*	0.01"	5,305*	5,305*	5,305*	5,150*	0.01"	5,150*	5,150*	5,150*
S9	12	5,305	0.03"	5,305	5,305	5,305	4,245	0.05"	4,245	4,245	4,245
S1BB	12	3,910*	0.01"	3,910*	3,910*	3,910*	3,910*	0.02"	3,910*	3,910*	3,910*
S1	12	3,315	0.04"	3,315	3,315	3,315	2,650	0.06"	2,650	2,650	2,650
S2BB	12	2,625*	0.02"	2,625*	2,625*	2,625*	2,625*	0.03"	2,625*	2,625*	2,625*
S8BB	12	2,225*	0.02"	2,225*	2,225*	2,225*	2,225*	0.05"	2,225*	2,225*	2,225*
S4BB	14	1,755*	0.02"	1,755*	1,755*	1,755*	1,755*	0.03"	1,755*	1,755*	1,755*
S2	12	1,720	0.06"	1,720	1,720	1,720	1,375	0.09"	1,375	1,375	1,305
S5BB	12	1,595*	0.04"	1,595*	1,595*	1,595*	1,595*	0.07"	1,595*	1,595*	1,595*
S4	14	1,370	0.06"	1,370	1,370	1,370	1,095	0.09"	1,095	1,095	1,025
S8	12	1,310	0.07"	1,310	1,310	1,310	1,045	0.10"	1,045	1,045	850
S3BB	16	1,215*	0.01"	1,215*	1,215*	1,215*	1,215*	0.02"	1,215*	1,215*	1,215*
S3	16	1,155	0.06"	1,155	1,155	1,155	925	0.09"	925	925	860
S7BB	14	885*	0.05"	885*	885*	885*	885*	0.09"	885*	885*	840
S5	12	775	0.09"	775	775	585	620	0.14"	620	560	370
S6BB	16	600*	0.04"	600*	600*	600*	600*	0.07"	600*	600*	600*
S7	14	460	0.11"	460	425	280	370	0.17"	360	270	180
S6	16	400	0.11"	400	370	245	320	0.17"	315	235	155

		36" Beam					42" Beam				
Catalogue Prefix	(Ga.)	Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection			Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection		
		(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)	(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)
S9BB	12	5,150*	0.02"	5,150*	5,150*	5,150*	5,150*	0.03"	5,150*	5,150*	5,150*
S1BB	12	3,910*	0.03"	3,910*	3,910*	3,910*	3,910*	0.05"	3,910*	3,910*	3,910*
S9	12	3,535	0.07"	3,535	3,535	3,535	3,025	0.09"	3,025	3,025	3,025
S2BB	12	2,625*	0.06"	2,625*	2,625*	2,625*	2,625*	0.09"	2,625*	2,625*	2,625*
S8BB	12	2,225*	0.08"	2,225*	2,225*	2,225*	2,095	0.11"	2,095	2,095	2,095
S1	12	2,205	0.09"	2,205	2,205	2,205	1,890	0.12"	1,890	1,890	1,875
S4BB	14	1,755*	0.05"	1,755*	1,755*	1,755*	1,755*	0.08"	1,755*	1,755*	1,755*
S5BB	12	1,435	0.11"	1,435	1,435	1,255	1,230	0.16"	1,230	1,230	915
S3BB	16	1,215*	0.04"	1,215*	1,215*	1,215*	1,215*	0.07"	1,215*	1,215*	1,215*
S2	12	1,145	0.13"	1,145	1,145	905	980	0.17"	980	980	660
S4	14	910	0.13"	910	910	710	780	0.17"	780	780	520
S8	12	870	0.15"	870	870	590	745	0.20"	745	650	430
S7BB	14	820	0.14"	820	820	580	700	0.19"	700	640	425
S3	16	770	0.13"	770	770	595	660	0.18"	660	660	435
S6BB	16	600*	0.12"	600*	600*	495	595	0.19"	595	545	360
S5	12	515	0.20"	515	385	255	440	0.27"	380	280	185
S7	14	305	0.24"	250	185	120	260	0.33"	180	135	90
S6	16	265	0.25"	215	160	105	225	0.33"	155	115	75

¹ See page 50 for details.

* Limited by spot weld shear.

LOAD TABLES FOR STEEL STRUT CHANNELS

		48" Beam						54" Beam				
Catalogue Prefix	(Ga.)	Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection			Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection			
		(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)	(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)	
S9BB	12	5,150*	0.04"	5,150*	5,150*	5,150*	5,150*	0.06"	5,150*	5,150*	5,150*	
S1BB	12	3,910*	0.07"	3,910*	3,910*	3,910*	3,910*	0.10"	3,910*	3,910*	3,910*	
S9	12	2,645	0.12"	2,645	2,645	2,645	2,345	0.15"	2,345	2,345	2,345	
S2BB	12	2,425	0.13"	2,425	2,425	2,425	2,150	0.16"	2,150	2,150	2,035	
S4BB	14	1,755*	0.12"	1,755*	1,755*	1,755*	1,665	0.16"	1,665	1,665	1,575	
S8BB	12	1,830	0.15"	1,830	1,830	1,645	1,620	0.19"	1,620	1,620	1,295	
S1	12	1,650	0.15"	1,650	1,650	1,430	1,465	0.19"	1,465	1,465	1,125	
S3BB	16	1,215*	0.10"	1,215*	1,215*	1,215*	1,215*	0.14"	1,215*	1,215*	1,215*	
S5BB	12	1,070	0.20"	1,070	1,055	700	950	0.26"	950	830	545	
S2	12	855	0.22"	855	760	505	755	0.28"	755	595	395	
S4	14	680	0.23"	680	600	395	605	0.29"	605	470	310	
S8	12	650	0.26"	650	495	325	575	0.33"	520	385	255	
S7BB	14	615	0.25"	615	485	320	545	0.32"	515	380	250	
S3	16	575	0.23"	575	500	330	510	0.29"	510	395	260	
S6BB	16	520	0.25"	530	415	270	460	0.32"	435	325	215	
S5	12	380	0.35"	285	215	140	340	0.45"	225	165	110	
S7	14	225	0.43"	140	100	65	200	0.55"	105	80	50	
S6	16	200	0.44"	120	90	55	175	0.55"	95	70	45	

		60" Beam						72" Beam				
Catalogue Prefix	(Ga.)	Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection			Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection			
		(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)	(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)	
S9BB	12	5,150*	0.08"	5,150*	5,150*	5,150*	5,150*	0.13"	5,150*	5,150*	5,150*	
S1BB	12	3,885	0.13"	3,885	3,885	3,885	3,225	0.19"	3,225	3,225	3,225	
S9	12	2,110	0.18"	2,110	2,110	1,920	1,750	0.26"	1,750	1,750	1,325	
S2BB	12	1,935	0.20"	1,935	1,935	1,640	1,605	0.28"	1,605	1,605	1,130	
S4BB	14	1,495	0.20"	1,495	1,495	1,275	1,240	0.28"	1,240	1,240	875	
S8BB	12	1,455	0.23"	1,455	1,455	1,045	1,205	0.33"	1,205	1,085	715	
S1	12	1,315	0.24"	1,315	1,315	910	1,090	0.35"	1,090	945	625	
S3BB	16	1,215*	0.19"	1,215*	1,215*	1,060	1,035	0.28"	1,035	1,035	730	
S5BB	12	855	0.32"	855	665	440	705	0.46"	615	455	295	
S2	12	680	0.35"	645	480	315	565	0.51"	445	330	215	
S4	14	540	0.36"	510	380	250	450	0.51"	350	260	170	
S8	12	515	0.41"	420	310	205	425	0.59"	285	210	135	
S7BB	14	485	0.39"	410	305	200	400	0.56"	280	205	135	
S3	16	455	0.36"	725	320	210	380	0.51"	290	215	140	
S6BB	16	415	0.39"	350	260	170	340	0.56"	240	175	115	
S5	12	300	0.55"	180	135	85	250	0.79"	120	90	55	
S7	14	180	0.67"	85	60	40	150	0.97"	55	40	25	
S6	16	155	0.68"	75	55	35	130	0.98"	50	35	20	

¹ See page 50 for details.

* Limited by spot weld shear.

LOAD TABLES FOR STEEL STRUT CHANNELS

		84" Beam					96" Beam				
Catalogue Prefix	(Ga.)	Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection			Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection		
		(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)	(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)
S9BB	12	4,585	0.19"	4,585	4,585	4,585	4,000	0.25"	4,000	4,000	4,000
S1BB	12	2,755	0.26"	2,755	2,755	2,510	2,400	0.33"	2,400	2,400	1,910
S9	12	1,495	0.36"	1,495	1,460	965	1,300	0.47"	1,300	1,110	730
S2BB	12	1,365	0.38"	1,365	1,245	820	1,190	0.51"	1,190	945	620
S4BB	14	1,060	0.38"	1,060	965	635	920	0.50"	920	730	480
S8BB	12	1,025	0.45"	1,025	790	515	890	0.59"	800	595	385
S1	12	930	0.47"	925	690	450	810	0.61"	700	520	340
S3BB	16	880	0.38"	880	805	530	765	0.50"	765	610	400
S5BB	12	600	0.62"	440	325	210	520	0.81"	330	240	150
S2	12	480	0.69"	320	235	150	415	0.90"	240	175	110
S4	14	380	0.70"	250	185	120	330	0.91"	190	140	90
S8	12	360	0.80"	205	150	95	315	1.05"	150	110	65
S7BB	14	340	0.77"	200	145	90	295	1.00"	150	105	65
S3	16	320	0.70"	210	155	100	280	0.91"	160	115	75
S6BB	16	290	0.77"	170	125	80	250	1.00"	125	90	55
S5	12	210	1.08"	85	60	35	180	1.41"	60	40	25
S7	14	125	1.32"	40	25	15	110	1.73"	25	20	10
S6	16	110	1.33"	35	25	15	95	1.74"	25	15	10

		108" Beam					120" Beam				
Catalogue Prefix	(Ga.)	Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection			Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection		
		(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)	(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)
S9BB	12	3,545	0.32"	3,545	3,545	3,350	3,175	0.39"	3,175	3,175	2,700
S1BB	12	2,125	0.42"	2,125	2,125	1,495	1,905	0.52"	1,905	1,820	1,195
S9	12	1,150	0.59"	1,150	870	570	1,030	0.73"	935	695	450
S2BB	12	1,050	0.64"	990	735	475	935	0.78"	790	585	375
S4BB	14	815	0.63"	770	570	370	725	0.78"	615	455	290
S8BB	12	785	0.75"	625	460	295	700	0.92"	495	360	230
S1	12	715	0.78"	545	405	260	640	0.96"	435	320	205
S3BB	16	675	0.63"	640	475	310	605	0.78"	510	375	240
S5BB	12	455	1.03"	250	180	110	405	1.27"	195	140	80
S2	12	365	1.14"	185	135	80	325	1.40"	145	100	60
S4	14	290	1.15"	145	105	65	260	1.42"	115	80	60
S8	12	275	1.33"	115	80	50	245	1.64"	90	60	35
S7BB	14	255	1.27"	110	80	45	225	1.57"	85	60	30
S3	16	245	1.16"	120	90	55	220	1.43"	95	70	40
S6BB	16	220	1.27"	95	65	40	195	1.57"	70	50	25
S5	12	160	1.78"	45	30	15	140	2.20"	30	20	5
S7	14	95	2.19"	20	10	5	80	2.70"	10	5	-
S6	16	80	2.20"	15	10	5	70	2.72"	10	5	-

¹ See page 50 for details.

LOAD TABLES FOR STEEL STRUT CHANNELS

		144" Beam					168" Beam				
Catalogue Prefix	(Ga.)	Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection			Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection		
		(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)	(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)
S9BB	12	2,625	0.56"	2,625	2,625	1,840	2,225	0.77"	2,225	2,025	1,320
S1BB	12	1,565	0.75"	1,565	1,240	805	1,325	1.02"	1,205	885	565
S9	12	850	1.05"	535	465	295	715	1.43"	450	325	200
S2BB	12	765	1.13"	530	385	240	640	1.53"	370	265	155
S4BB	14	595	1.13"	410	300	190	500	1.53"	285	205	125
S8BB	12	570	1.33"	325	235	140	475	1.81"	220	150	85
S1	12	520	1.38"	290	210	130	440	1.88"	200	140	80
S3BB	16	495	1.13"	345	250	155	415	1.53"	240	170	105
S5BB	12	325	1.83"	120	80	40	270	2.49"	70	45	15
S2	12	265	2.02"	90	60	35	220	2.75"	55	35	15
S4	14	210	2.04"	70	50	25	175	2.78"	45	30	10
S8	12	200	2.36"	50	35	15	160	3.21"	30	15	-
S7BB	14	180	2.25"	50	30	10	150	3.07"	25	10	-
S3	16	180	2.06"	60	40	20	150	2.80"	40	25	10
S6BB	16	155	2.25"	40	25	10	125	3.07"	20	10	-
S5	12	110	3.17"	15	5	-	90	4.31"	-	-	-
S7	14	65	3.89"	-	-	-	50	5.30"	-	-	-
S6	16	55	3.92"	-	-	-	45	5.33"	-	-	-

		192" Beam					216" Beam				
Catalogue Prefix	(Ga.)	Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection			Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection		
		(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)	(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)
S9BB	12	1,925	1.00"	1,925	1,515	975	1,685	1.27"	1,590	1,165	740
S1BB	12	1,140	1.34"	895	650	405	995	1.69"	680	485	295
S9	12	615	1.87"	330	235	140	535	2.37"	240	165	90
S2BB	12	550	2.00"	260	180	100	470	2.54"	185	120	55
S4BB	14	425	2.00"	205	140	80	370	2.54"	145	95	45
S8BB	12	405	2.37"	150	100	45	345	3.00"	100	60	15
S1	12	375	2.45"	140	95	50	325	3.11"	95	60	25
S3BB	16	355	2.00"	170	120	65	305	2.54"	120	80	40
S5BB	12	220	3.25"	40	15	-	185	4.12"	15	-	-
S2	12	185	3.59"	30	15	-	155	4.54"	15	-	-
S4	14	150	3.63"	25	15	-	125	4.60"	15	5	-
S8	12	135	4.19"	10	-	-	115	5.31"	-	-	-
S7BB	14	120	4.01"	10	-	-	100	5.07"	-	-	-
S3	16	125	3.65"	20	10	-	105	4.62"	10	-	-
S6BB	16	105	4.01"	5	-	-	85	5.07"	-	-	-
S5	12	70	5.63"	-	-	-	60	7.13"	-	-	-
S7	14	40	6.92"	-	-	-	30	8.76"	-	-	-
S6	16	35	6.97"	-	-	-	30	8.82"	-	-	-

¹ See page 50 for details.

LOAD TABLES FOR STEEL STRUT CHANNELS

		240" Beam				
Catalogue Prefix	(Ga.)	Net Allowable Uniform Load ¹		Net Uniform Load ¹ at Deflection		
		(Lbs)	DEFL	Span/180 (Lbs)	Span/240 (Lbs)	Span/360 (Lbs)
S9BB	12	1,495	1.57"	1,255	910	565
S1BB	12	875	2.09"	525	365	210
S9	12	470	2.92"	180	115	55
S2BB	12	410	3.13"	130	75	25
S4BB	14	320	3.13"	100	60	20
S8BB	12	295	3.70"	60	30	-
S1	12	280	3.84"	65	35	5
S3BB	16	265	3.13"	85	50	20
S5BB	12	155	5.09"	-	-	-
S2	12	135	5.61"	-	-	-
S4	14	110	5.68"	-	-	-
S8	12	95	6.55"	-	-	-
S7BB	14	80	6.26"	-	-	-
S3	16	90	5.71"	-	-	-
S6BB	16	70	6.26"	-	-	-
S5	12	50	8.80"	-	-	-
S7	14	25	10.81"	-	-	-
S6	16	20	10.89"	-	-	-

¹ See page 50 for details.

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QUICK REFERENCE UNIT CONVERSIONS

(to 4 digits)

Measure	Multiply Imperial Unit by		Multiply Metric Unit by	
Length:	25.40	mm per in	0.03937	in per mm
Mass:	0.4536	kg per lb	2.205	lb per kg
Torque:	0.1130	N·m per in·lbf	8.851	in·lbf per N·m
Linear Mass:	1.488	kg/m per lb/ft	0.6720	lb/ft per kg/m
Pressure:	6.895	kPa per psi	0.1450	psi per kPa



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