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REGISTERED ISO 9001:2015 ISO 9001


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## SPECIALISTS SERVING SPECIALISTS

**Westlund Water Solutions is the leading Canadian distributor** of pipes, valves, fittings, and all related equipment found 'inside the fence' for wastewater treatment plants, reservoirs, and pumping stations.

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GENERAL PRODUCT CATALOGUE

Distributed by:

WESTLUND / EMCO WATER SOLUTIONS

REGISTERED ISO 9001:2015 ISO 9001

V 2.0

# SASCO STRUT

**EXPERIENCE · QUALITY · SERVICE**

WWW.SASCOCAN.COM

*A proud Canadian manufacturer since 1954*

# GENERAL INFORMATION

**Channels**
Sasco Strut Channels are precisely cold formed from low carbon steel on our roll forming mills. The channel's inturned 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 and paint finish 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.

**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, 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.**
**777 Fenmar Drive, Toronto, Ontario M9L 1C8**
**Telephone 416-742-6140 Fax 416-748-2878**
**sales@sascocan.com**

# CONTENTS



## STRUT CHANNEL



## FITTINGS

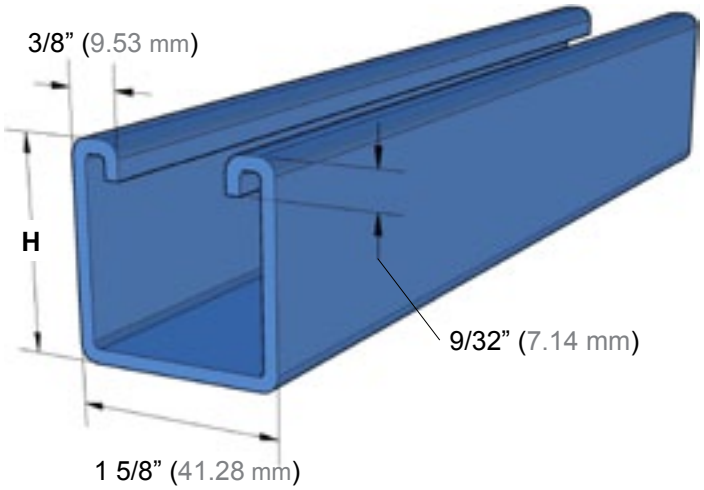
# STRUT CHANNEL

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 inturned 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 33.

# SINGLE CHANNEL

## STEEL

| Channel Prefix | H (In) | H (mm) | Thickness (Ga.) |
|---|---|---|---|
| **S9** | 3 1/4 | 82.55 | 12 |
| **S1** | 2 7/16 | 61.91 | 12 |
| **S2** | 1 5/8 | 41.28 | 12 |
| **S4** | 1 5/8 | 41.28 | 14 |
| **S3** | 1 5/8 | 41.28 | 16 |
| **S8** | 1 3/8 | 34.93 | 12 |
| **S5** | 1 | 25.40 | 12 |
| **S7** | 13/16 | 20.64 | 14 |
| **S6** | 13/16 | 20.64 | 16 |




| Finishes: | |
|---|---|
| Pre-galvanized (standard) | G |
| Hot Dip Galvanized | HG |
| Plain Steel | P |

Add finish and length in inches to Channel Prefix above for Catalogue No. (S2G-120).

Single channel strut can be cut to custom lengths at the factory.

Special coatings (paint, epoxy, PVC) can be supplied to your specification.

Steel Strut Channels are roll formed from 33,000 psi steel.

Engineering data page 39.

## ALUMINUM

| Catalogue Prefix | H (Inches) | H (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 |

Aluminum Strut Channels are extruded.
Add length in inches to Catalogue Prefix when ordering (S1AL-120).
Standard lengths are 10 feet (-120) and 20 feet (-240).
Single channel strut can be cut to custom lengths at the factory.

## STAINLESS STEEL

| Catalogue Prefix | H (Inches) | H (mm) | Thickness (Inches) | Type |
|---|---|---|---|---|
| **S2SS4** | 1 5/8 | 41.28 | 0.090 | T304 |
| **S2SS6** | 1 5/8 | 41.28 | 0.090 | T316 |
| **S5SS4** | 1 | 25.40 | 0.090 | T304 |
| **S5SS6** | 1 | 25.40 | 0.090 | T316 |

Strut Channels other than S2 and S5 are available in stainless steel T304 and T316. Consult Sasco for availability.

Single channel strut can be cut to custom lengths at the factory.

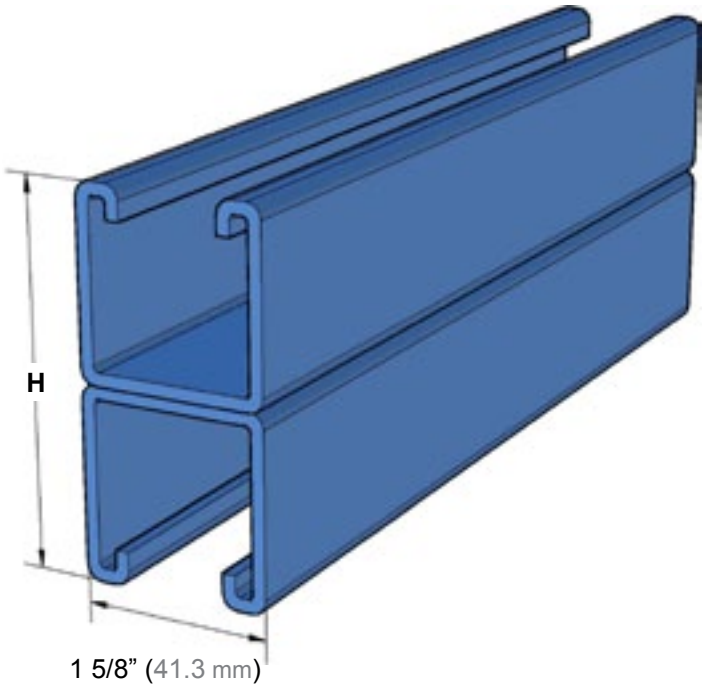
# STRUT CHANNEL: COMBINATIONS

# BACK-TO-BACK

## STEEL

| Channel Prefix | H (Inches) | H (mm) | Thickness (Ga.) |
|---|---|---|---|
| **S9BB-** | 6 1/2 | 165.10 | 12 |
| **S1BB-** | 4 7/8 | 123.83 | 12 |
| **S2BB-** | 3 1/4 | 82.55 | 12 |
| **S4BB-** | 3 1/4 | 82.55 | 14 |
| **S3BB-** | 3 1/4 | 82.55 | 16 |
| **S8BB-** | 2 3/4 | 69.85 | 12 |
| **S5BB-** | 2 | 50.80 | 12 |
| **S7BB-** | 1 5/8 | 41.28 | 14 |
| **S6BB-** | 1 5/8 | 41.28 | 16 |

| Finishes: | |
|---|---|
| Pre-galvanized (standard) | G |
| Hot Dip Galvanized | HG |
| Plain Steel | P |




Back-to-back Steel Strut Channels are spot welded on approx. 3" centres.

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

Back-to-back strut can be cut to custom lengths at the factory.

Add finish and length in inches to Channel Prefix above for Catalogue No. (S2BB-G-120).

Special coatings (paint, epoxy, PVC) can be supplied to your specification.

Engineering data page 39.

## ALUMINUM

| Catalogue Prefix | H (Inches) | H (mm) | Thickness (Ga.) | Alloy/Temper |
|---|---|---|---|---|
| **S2BB-AL** | 3 1/4 | 82.55 | 0.081 | 6063/T5 |

Back-to-back Aluminum Strut Channel is extruded.
Add length in inches to Channel Prefix when ordering (S2BB-AL120).
Standard lengths are 10 feet (-120) and 20 feet (-240).
Back-to-back strut can be cut to custom lengths at the factory.

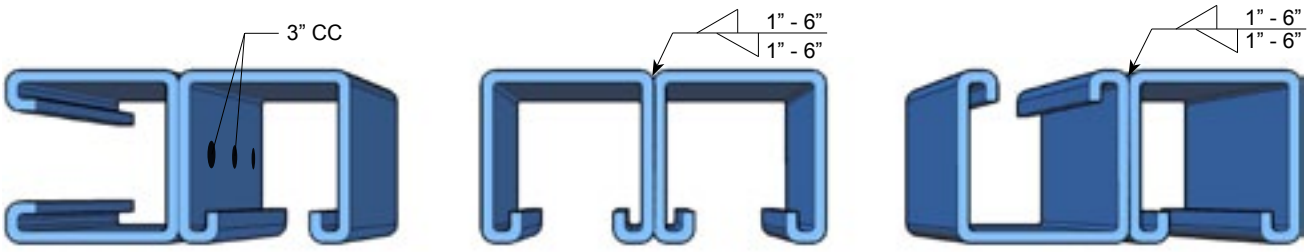
## STAINLESS STEEL

| Catalogue Prefix | H (Inches) | H (mm) | Thickness (Ga) | Type |
|---|---|---|---|---|
| **S2BBSS4** | 3 1/4 | 82.55 | 0.090 | T304 |
| **S2BBSS6** | 3 1/4 | 82.55 | 0.090 | T316 |
| **S5BBSS4** | 2 | 50.80 | 0.090 | T304 |
| **S5BBSS6** | 2 | 50.80 | 0.090 | T316 |

Strut Channels other than S2 and S5 are available in stainless steel T304 and T316. Consult Sasco for availability.
Back-to-back stainless steel channels are spot welded on approximately 3" centres.
Back-to-back strut can be cut to custom lengths at the factory.

# STRUT CHANNEL: OTHER COMBINATIONS

**OTHER DOUBLE CHANNEL STEEL AND STAINLESS STEEL COMBINATIONS:**




**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 Prefix (page 1), Combination Code (BS-, SS- or UN-), and add finish and length in inches. Similar to Back-to-Back Catalogue Numbers (S2SS-G-120).

Triple combinations in steel and stainless steel are also available. For more details, contact Sasco.

# STRUT CHANNEL: PRE-PUNCHED

## STRUT CHANNEL: KNOCK-OUT

Sasco Knock-Out Channels are CSA certified for use as electrical raceways when used as outlined on page 33.

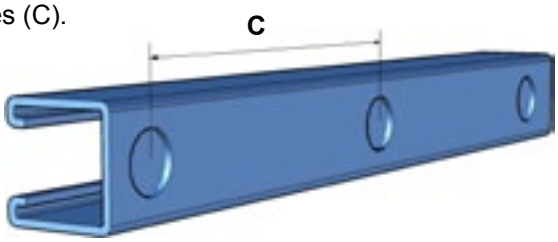
Knock-outs are 7/8" (22.2 mm) diameter on 6" (152.4 mm) centres (C).

Only available in S2 strut channel.

Standard finish is pre-galvanized (G).

Add suffix **KO6**, finish and length in inches to Channel Prefix for Catalogue Number (S2KO6G-120).

**LR 28611**




## TRAPEZE SUPPORTS

Manufactured to meet your requirements. Specify Strut Channel and length, as well as the slot or hole pattern (see Pre-punched Channel on page 3).

# STRUT CHANNEL: PRE-PUNCHED

## SLOTS

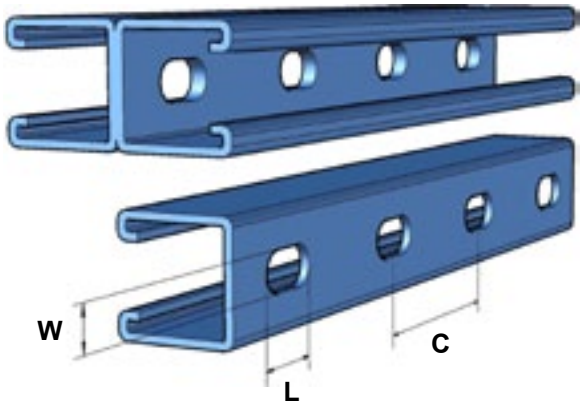
Sasco's Slotted Strut Channels provide adjustment for wall mounting, constructing trapeze supports and other suspension and mounting applications. Available in most single and back to back steel and stainless steel sizes and finishes. Slotted aluminum available in single channel only.

| Catalogue Suffix | Slot Size (W) | | Slot Size (L) | | Centres (C) | |
|---|---|---|---|---|---|---|
| | (Inches) | (mm) | (Inches) | (mm) | (Inches) | (mm) |
| **SL2** | 9/16 | 14.3 | 1 1/8 | 28.6 | 2 | 50.8 |
| **SL4** | 13/32 | 10.3 | 3 | 76.2 | 4 | 101.6 |
| **SL6** | 11/16 | 17.5 | 1 1/8 | 28.6 | 4 | 101.6 |
| **SL9** | 9/16 | 14.3 | 3 | 76.2 | 4 | 101.6 |

Standard finish for steel is pre-galvanized (-G). Also available in hot dip galvanized (HG) and in plain steel (P).

For availability of slots in stainless steel (SS), aluminum (AL) and fibreglass (FG), please consult Sasco.

Add suffix above, finish and length in inches to Channel Prefix for catalogue number (S2SL2-G120).

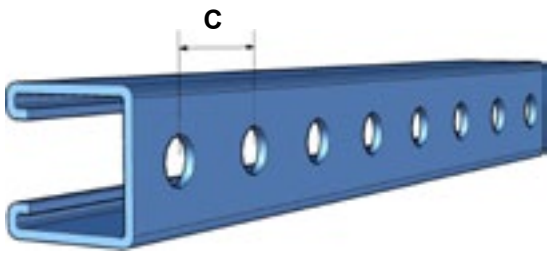



## HOLES

Sasco's Pre-Punched Strut Channels facilitate installation of wall mounts, trapeze hangers and other suspension and mounting applications.

| Catalogue Suffix | Hole Diameter (Inches) | Hole Diameter (mm) | Centres (C) (Inches) | Centres (C) (mm) |
|---|---|---|---|---|
| **H112** | 9/16 | 14.3 | 1 1/2 | 38.1 |

Standard finish for steel is pre-galvanized (-G). Also manufactured in hot dip galvanized (HG), stainless steel (SS) and aluminum (AL). Contact Sasco for availability. Add suffix above, finish and length in inches to Channel Prefix for Catalogue No. (S2H112-G120).



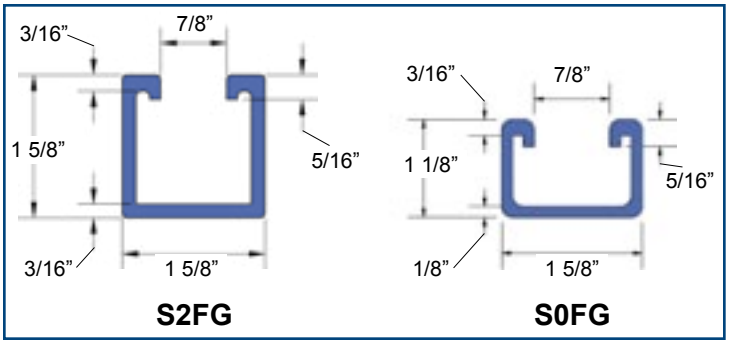
# MINI STRUT CHANNEL

Sasco offers a selection of Mini Strut Channels 13/16” wide.

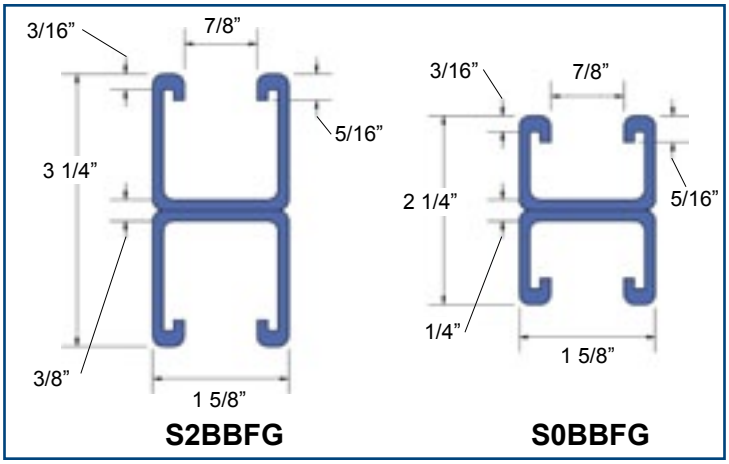
See page 38 for more information and fittings.

# STRUT CHANNEL: FIBREGLASS

| Catalogue Prefix | Height (Inches) | Height (mm) | Side Wall Thickness (Inches) |
|---|---|---|---|
| **S0FG** | 1 1/8 | 28.58 | 0.1250 |
| **S2FG** | 1 5/8 | 41.28 | 0.1875 |




| Catalogue Prefix | Height (Inches) | Height (mm) | Side Wall Thickness (Inches) |
|---|---|---|---|
| **S0BB-FG** | 2 1/4 | 57.15 | 0.1250 |
| **S2BB-FG** | 3 1/4 | 82.55 | 0.1875 |




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).

# CLOSURE STRIP

Sasco Closure Strip is designed to snap into the continuous slot of all 1 5/8” wide Srut Channels including steel, stainless steel, aluminum and fibreglass. 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.

Steel Closure Strip is CSA certified for use on electrical raceways when used as outlined on page 33.

Lengths: 10’ (3048 mm)

Finishes: Pre-galvanized part number **S158CS-G** (CSA Certified)
Plastic (rigid PVC) part number **S158CSPLAS** (not CSA Certified)

# STRUT CHANNEL: CONCRETE INSERT - STEEL

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.

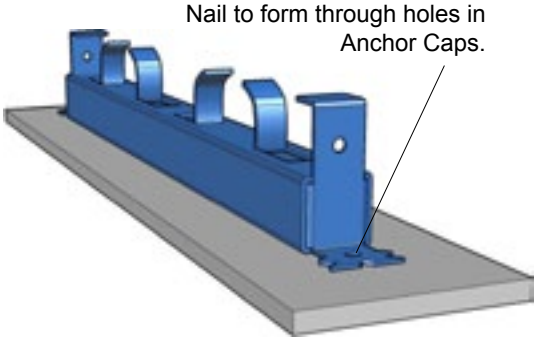
All inserts are shipped complete with two Anchor Caps and foam filler. This filler resists the entrance of wet concrete and is easily removed.

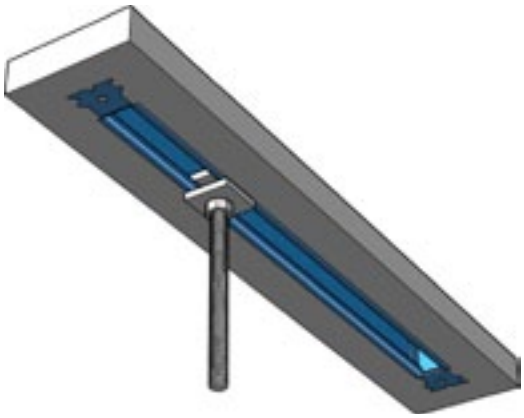
| Catalogue Prefix | Height (Inches) | (mm) | Maximum Allowable Point Load* (Lbs/ft) | (kg/m) |
|---|---|---|---|---|
| **S2CI-** | 1 5/8 | 41.3 | 2000 | 2975 |
| **S5CI-** | 1 | 25.4 | 1750 | 2600 |

*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.

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-36-G). For lengths less than 10 inches (254 mm), see Spot Inserts below.



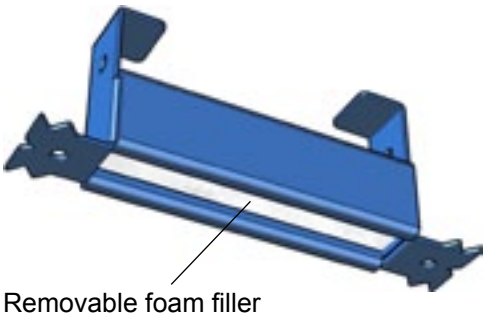
Remove form.
Remove filler.
Insert Clamping Nuts and install rod or fitting.

# SPOT INSERTS

| Catalogue Prefix | Length (Inches) | (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).




# CONCRETE INSERT ANCHOR CAPS

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

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

# 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. These Two-Piece Pipe Clamps may be used with all sizes of 1 5/8" wide Sasco Strut Channel.

**For Thin Wall Conduit (EMT):**

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

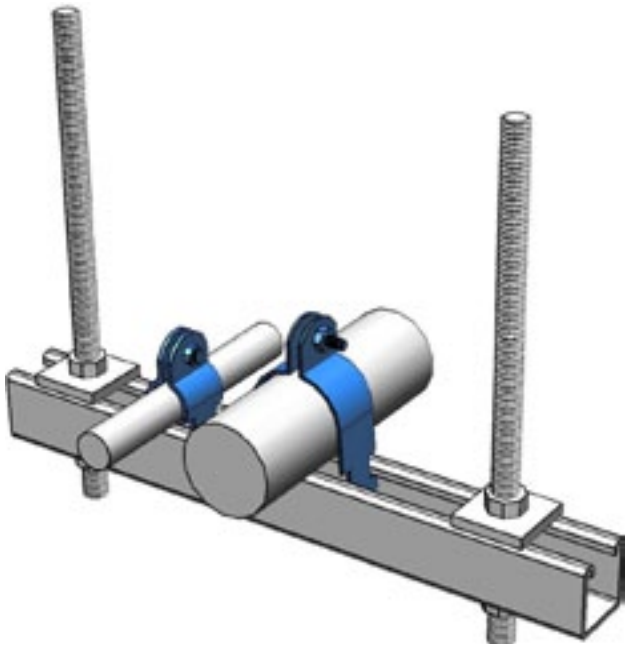
For sizes larger than 2" (50.8 mm), use equivalent Rigid Conduit Pipe Clamp.

**For Rigid Conduit:**

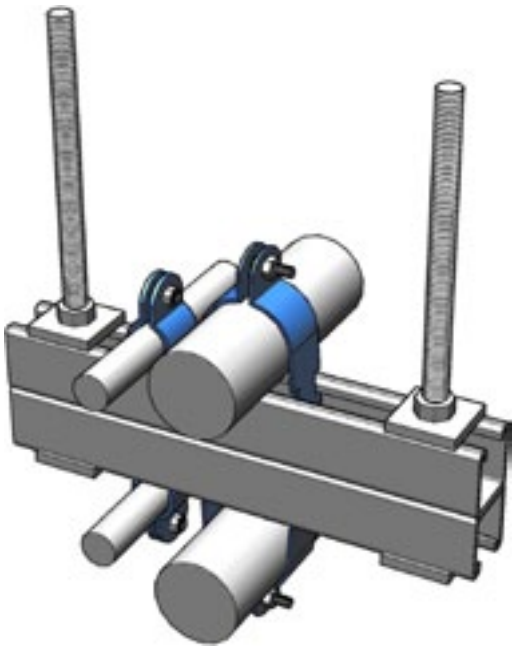
| Conduit Size (Inches) | Outside Diameter (Inches) | (mm) | Catalogue Prefix |
|---|---|---|---|
| 3/8 | 0.675 | 17.15 | **S38R** |
| 1/2 | 0.840 | 21.34 | **S12R** |
| 3/4 | 1.050 | 26.67 | **S34R** |
| 1 | 1.315 | 33.40 | **S1R** |
| 1 1/4 | 1.660 | 42.16 | **S114R** |
| 1 1/2 | 1.900 | 48.26 | **S112R**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

| 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.

| Outside Diameter (Inches) | (mm) | Catalogue Prefix |
|---|---|---|
| 1/4 | 6.35 | **S14OD** |
| 3/8 | 9.53 | **S38OD** |
| 1/2 | 12.70 | **S12OD** |
| 5/8 | 15.88 | **S58OD** |
| 3/4 | 19.05 | **S34OD** |
| 7/8 | 22.23 | **S78OD** |
| 1 | 25.40 | **S1OD** |
| 1 1/8 | 28.58 | **S118OD** |
| 1 1/4 | 31.75 | **S114OD** |
| 1 5/8 | 41.28 | **S158OD** |
| 1 7/8 | 46.88 | **S178OD** |
| 2 | 50.80 | **S2OD** |
| 2 1/8 | 53.98 | **S218OD** |
| 2 1/4 | 57.15 | **S214OD** |
| 2 1/2 | 63.50 | **S212OD** |
| 2 5/8 | 66.68 | **S258OD** |
| 2 3/4 | 69.85 | **S234OD** |
| 3 | 76.20 | **S3OD** |
| 3 1/8 | 79.38 | **S318OD** |
| 3 1/4 | 82.55 | **S314OD** |
| 3 3/8 | 85.73 | **S338OD** |
| 3 5/8 | 92.08 | **S358OD** |
| 3 3/4 | 95.25 | **S334OD** |
| 3 7/8 | 98.43 | **S378OD** |
| 4 1/8 | 104.78 | **S418OD** |
| 4 1/4 | 107.95 | **S414OD** |
| 4 3/8 | 111.13 | **S438OD** |
| 4 5/8 | 117.48 | **S458OD** |
| 4 3/4 | 120.65 | **S434OD** |

| Outside Diameter (Inches) | (mm) | Catalogue Prefix |
|---|---|---|
| 4 7/8 | 123.83 | **S478OD** |
| 5 | 127.00 | **S5OD** |
| 5 1/8 | 130.18 | **S518OD** |
| 5 1/4 | 133.35 | **S514OD** |
| 5 3/8 | 136.53 | **S538OD** |
| 5 1/2 | 139.70 | **S512OD** |
| 5 5/8 | 142.88 | **S558OD** |
| 5 3/4 | 146.05 | **S534OD** |
| 5 7/8 | 149.23 | **S578OD** |
| 6 | 152.40 | **S6OD** |
| 6 1/8 | 155.58 | **S618OD** |
| 6 1/4 | 158.75 | **S614OD** |
| 6 3/8 | 161.93 | **S638OD** |
| 6 1/2 | 165.10 | **S612OD** |
| 6 3/4 | 171.45 | **S634OD** |
| 6 7/8 | 174.63 | **S678OD** |
| 7 | 177.80 | **S7OD** |
| 7 1/8 | 180.98 | **S718OD** |
| 7 1/4 | 184.15 | **S714OD** |
| 7 3/8 | 187.33 | **S738OD** |
| 7 1/2 | 190.50 | **S712OD** |
| 7 5/8 | 193.68 | **S758OD** |
| 7 3/4 | 196.85 | **S734OD** |
| 7 7/8 | 200.03 | **S778OD** |
| 8 | 203.20 | **S8OD** |
| 8 1/8 | 206.38 | **S818OD** |
| 8 1/4 | 209.55 | **S814OD** |
| 8 3/8 | 212.73 | **S838OD** |
| 8 1/2 | 215.90 | **S812OD** |
| 8 3/4 | 222.25 | **S834OD** |

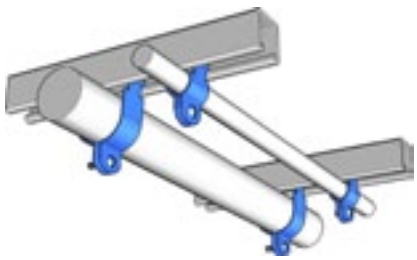
| Outside Diameter (Inches) | (mm) | Catalogue Prefix |
|---|---|---|
| 8 7/8 | 225.43 | **S878OD** |
| 9 | 228.60 | **S9OD** |
| 9 1/8 | 231.78 | **S918OD** |
| 9 1/4 | 234.95 | **S914OD** |
| 9 3/8 | 238.13 | **S938OD** |
| 9 1/2 | 241.30 | **S912OD** |
| 9 5/8 | 244.48 | **S958OD** |
| 9 3/4 | 247.65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

Finishes:

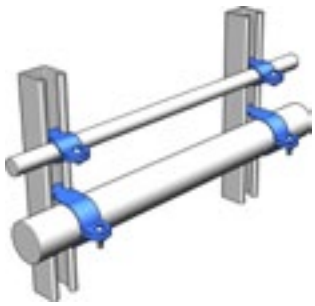
| | |
|---|---|
| Pre-galvanized (standard) | -G |
| Hot Dip Galvanized | -HG |
| Stainless Steel Type 316 | -SS |
| Aluminum | -AL |
| Fibreglass | -FG |

Larger sizes available upon request.

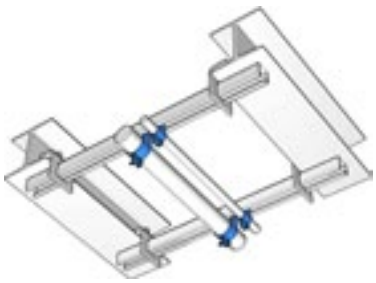
Add finish to Catalogue Prefix for Part No. (S14OD-SS).



Ceiling Mounting



Wall Mounting



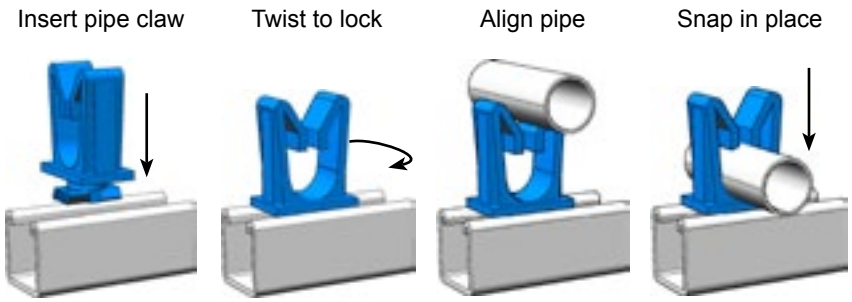
Beam Mounting

# PIPE CLAWS

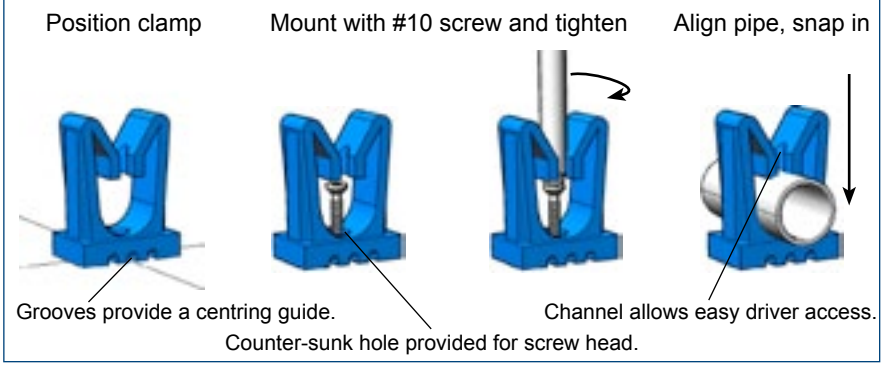
Sasco Pipe Claws are designed to grab on to tube, pipe or hose and hold it in place. The unique one-piece patent pending design allows for quick, simple and easy installation. They will not rust because they are molded from TPE (thermoplastic elastomer).

- 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.

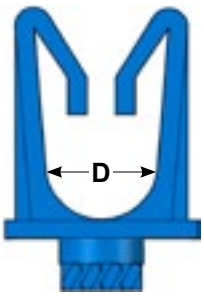
**Installation on Strut:**




**Installation on Surfaces:**

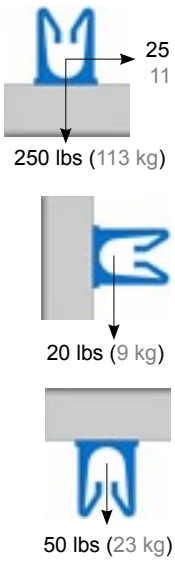



## Sasco Pipe Claw for Strut Mounting

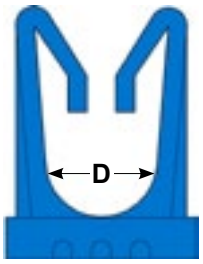



| For Pipe (Inches) | D (diameter) (Inches) | (mm) | Catalogue No. |
|---|---|---|---|
| 1/4 OD | 0.250 | 6.35 | **S14OD-CL** |
| 3/8 OD | 0.375 | 9.53 | **S38OD-CL** |
| 1/2 OD | 0.500 | 12.70 | **S12OD-CL** |
| 5/8 OD | 0.625 | 15.88 | **S58OD-CL** |
| 3/4 OD | 0.750 | 19.05 | **S34OD-CL** |
| 7/8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

## Design Loads:




## Sasco Pipe Claw for Surface Mounting



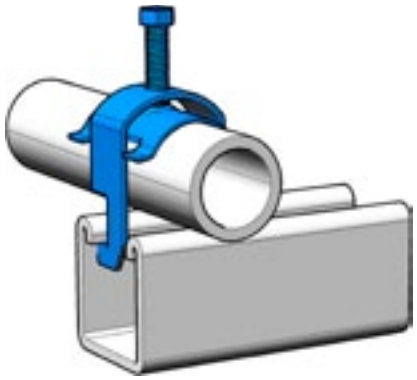

| For Pipe (Inches) | D (diameter) (Inches) | (mm) | Catalogue No. |
|---|---|---|---|
| 1/4 OD | 0.250 | 6.35 | **S14OD-CLH** |
| 3/8 OD | 0.375 | 9.53 | **S38OD-CLH** |
| 1/2 OD | 0.500 | 12.70 | **S12OD-CLH** |
| 5/8 OD | 0.625 | 15.88 | **S58OD-CLH** |
| 3/4 OD | 0.750 | 19.05 | **S34OD-CLH** |
|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

# 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.

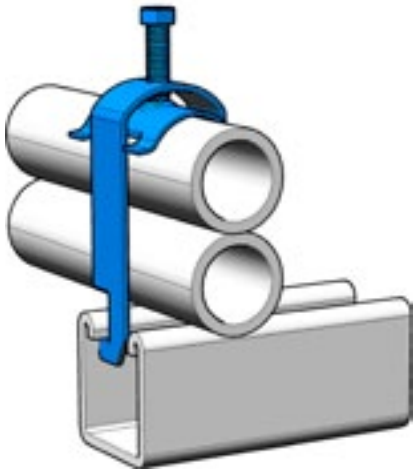
**Clamps for Single Cables or Conduits:**

| Catalogue Prefix | Outside Dia. Range (In.) | Rigid Conduit Min (In) | Rigid Conduit Max (In) | EMT Conduit (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).

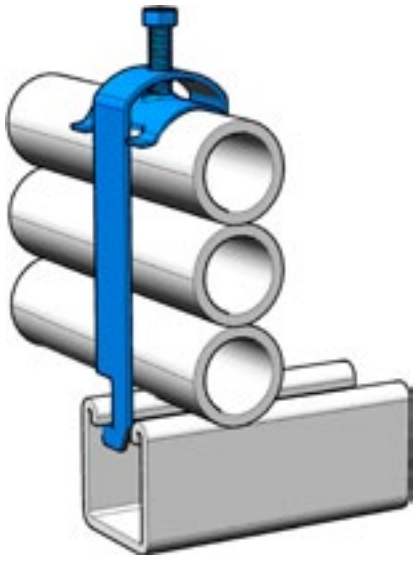


**Clamps for Three Cables or Conduits:**

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 |
| Aluminum | -AL |
| Stainless Steel Type 316 | -SS |

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



To protect cables on the bearing surface of the strut channel or tray, 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 Weight Per Foot | | Schedule 80 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 Weight Per Foot | | Type K 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 | .0269 | 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 | 40.00 | 85.927 | 57.800 | 101.380 |

# PIPE DATA

## PVC Pipe Data - Schedules 40 & 80

| Pipe Size | OD | Schedule 40 Weight Per Foot | | Schedule 80 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 |
| 3.500 | 1.409 | 4.526 | 2.010 | 4.728 | 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 | 41.62 | 12.35 | 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 |
| (In) | (In) | (Lbs) | (Lbs) |
| 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 |

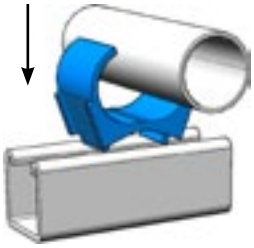
# PIPE CUSHIONS

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.

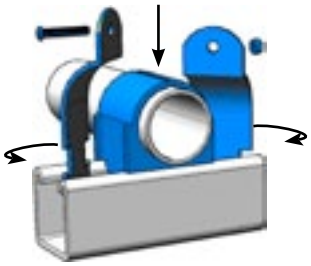
- Absorbs shock and vibration.
- Prevents galvanic corrosion of dissimilar metals.
- TPE (thermoplastic elastomer) will not corrode and is non-conducting.
- TPE has a temperature range of -50 to 275 °F (-46 to 135 °C).
- Resists the effects of most oils, chemicals and industrial cleaners.

**Sasco Pipe Cushion Installation:**

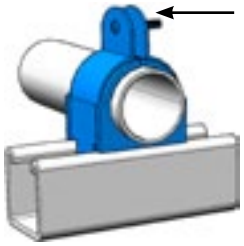
Align pipe and cushion

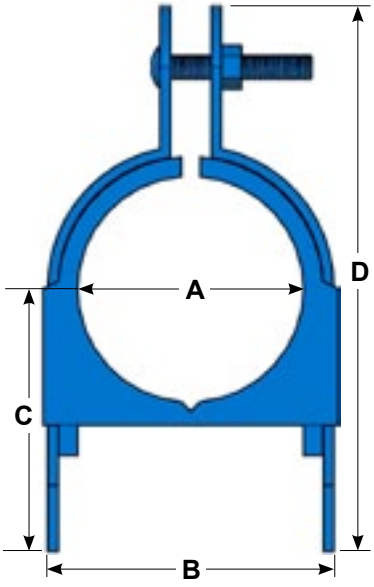


Insert clamp into Strut



Tighten using nut






**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 |
| **S0875PC** | - | - | 1/2 | 0.84 | 1.29 | 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 | - | - | 1.90 | 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 | - | - | 3.00 | 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 |

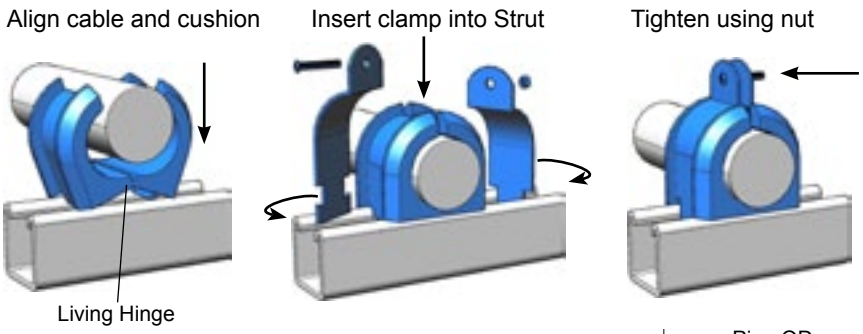
Add finish to Catalogue Prefix for Part No. (S0250PC-SS).

Note: 1.00 in = 25.40 mm

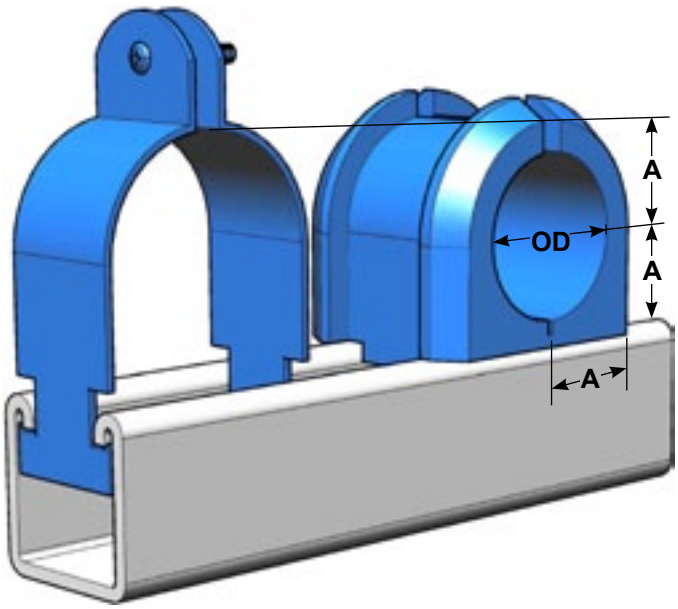
# V-CUSHIONS

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 | Pipe OD (Inches) | Pipe OD (mm) | A (Inches) | A (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 |

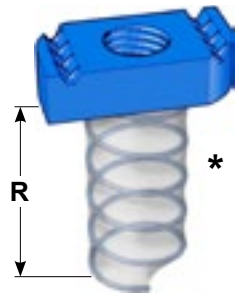
Pre-galvanized pipe clamp, silicon bronze hardware

| | |
|---|---|
| Flame retardant | -GB |
| Flame ret., halogen free | -GBFH |

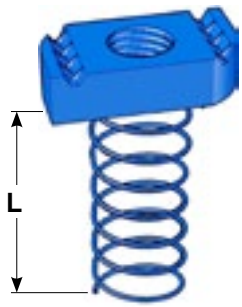
Add finish to Catalogue Prefix for Part Number (S1VC-SBFH)

# CLAMPING NUTS

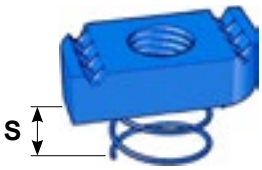
Sasco Clamping Nuts are fundamental to the Sasco Suspension System. They ensure positive locking between the nut's serrated grooves and the Strut Channel. When they are inserted anywhere along the continuous slot of the channel they allow attachment of fittings without drilling or welding. If changes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




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




**Long Spring**
Used in Strut Channels S1 and S9.




**Short Spring**
Used in Strut Channels S5, S6 and S7.

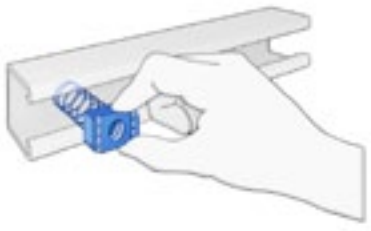
**Without Spring**
Used in all 1 5/8" wide Strut Channels.

| 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** | - | 1.5" | - | 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 |

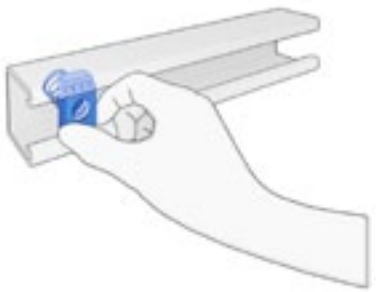
***Sasco Clamping Nuts marked with asterisks have plastic sleeves eliminating tangling during shipping and installation.**

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 fibreglass. Consult Sasco for availability.

**Easy, Fast Installation:**



Insert Clamping Nut



Turn 90°

Align fitting and tighten bolt

# CLAMPING NUTS

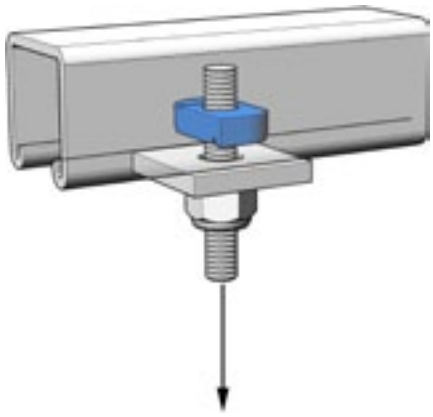
## Pullout and Resistance to Slip Loads

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

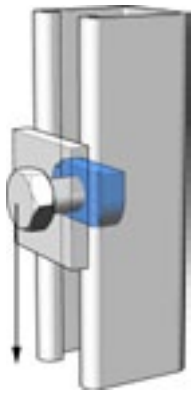
| Bolt Diameter | (Inches) | 1/4 | 5/16 | 3/8 | 1/2 | 5/8 | 3/4 |
|---|---|---|---|---|---|---|---|
| | (mm) | 6 | 8 | 10 | 12 | - | - |
| Recommended Torque | (Ft·Lbs) | 6 | 11 | 19 | 50 | 100 | 125 |
| | (N·m) | 8 | 15 | 26 | 68 | 136 | 170 |

| 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 | 200 | 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** | | | | | | | | | | | | |
| 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.



Pullout Strength

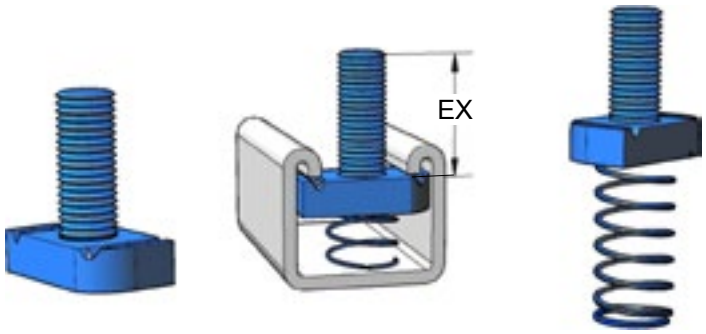


Resistance to Slip

# 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 1/2 inch thread exposure is S38SN112EX as a Part Number.
An S38 Stud Nut with a 2 inch thread exposure is S38SN2EX.



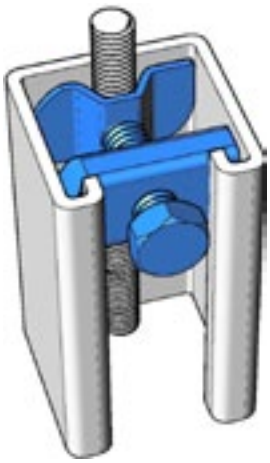

# SEISMIC HANGER ROD STIFFENER

Sasco Seismic Hanger Rod Stiffener fastens 1 5/8” (41.3 mm) wide x 1 5/8” (41.3 mm) SR2 Strut Channel to the hanger rod as required by the design engineer.

Secures 3/8” through 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.

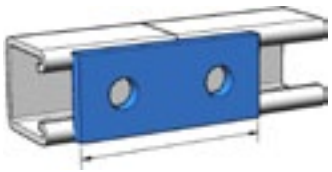


**SR38-RS**

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

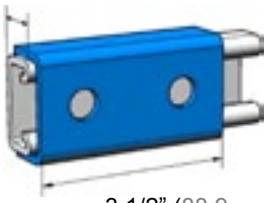


3 1/2" (88.9 mm)

**S110P-HG**

### TWO HOLE SPLICE PLATE

13/16"
20.6 mm



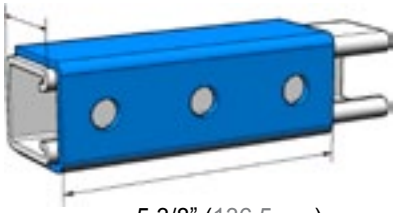
3 1/2" (88.9 mm)

11 GAUGE

**S409U-HG**

### THREE HOLE SPLICE PLATE

1 5/8"
41.3 mm



5 3/8" (136.5 mm)

11 GAUGE

**S412U-HG**

### FOUR HOLE SPLICE PLATE

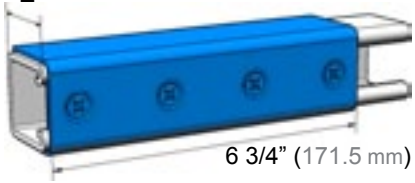
7 1/4" (184.2 mm)

**S114P-HG**

### FOUR HOLE SPLICE PLATE

CSA CERTIFIED, 16 GAUGE

L



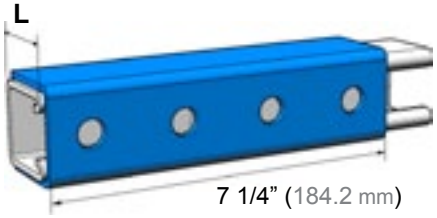
6 3/4" (171.5 mm)

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

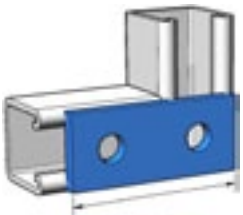


7 1/4" (184.2 mm)

| | 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) | 11 Ga. |

# CORNER CONNECTIONS

### TWO HOLE FLAT PLATE



3 1/2" (88.9 mm)

**S110P-HG**

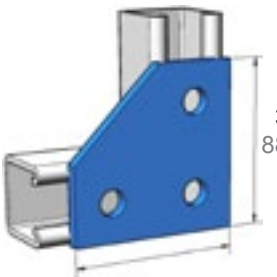
### THREE HOLE FLAT PLATE

3 1/2"
88.9 mm

3 1/2" (88.9 mm)

**S119P-HG**

### THREE HOLE FLAT PLATE



3 1/2"
88.9 mm

3 1/2" (88.9 mm)

**S122P-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.

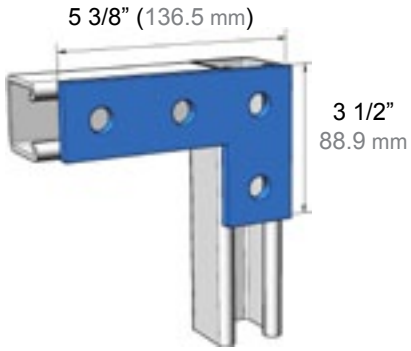
Finish Suffix Legend:

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

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.

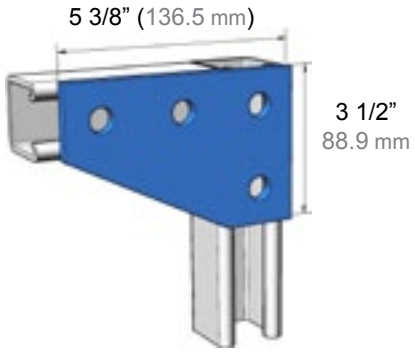
# CORNER CONNECTIONS

### FOUR HOLE FLAT PLATE



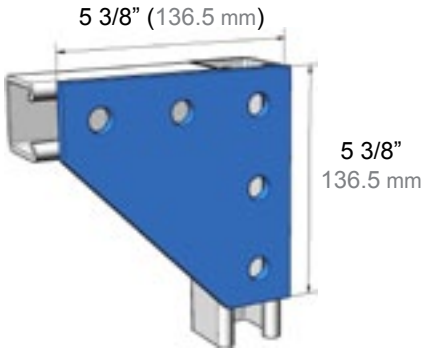

**S123P-HG**

### FOUR HOLE FLAT PLATE



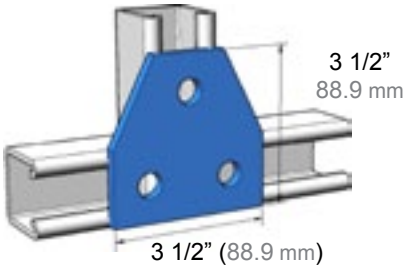

**S124P-HG**

### FIVE HOLE FLAT PLATE



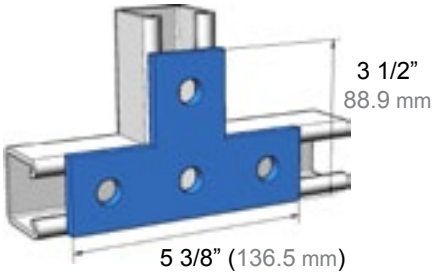

**S125P-HG**

### THREE HOLE TEE PLATE



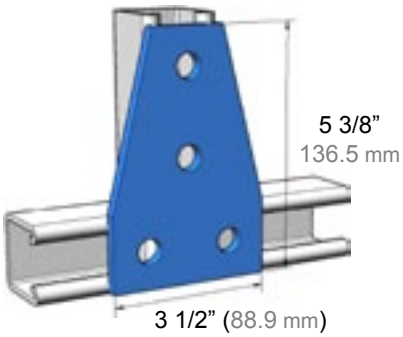

**S126P-HG**

### FOUR HOLE TEE PLATE



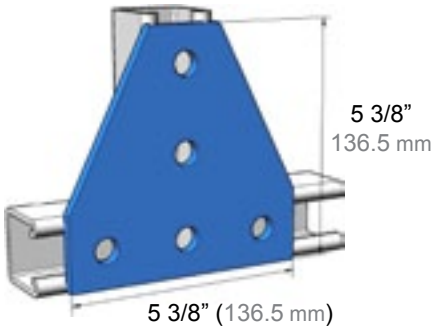

**S120P-HG**

### FOUR HOLE TEE PLATE



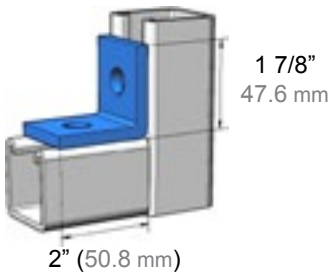

**S127P-HG**

### FIVE HOLE TEE PLATE



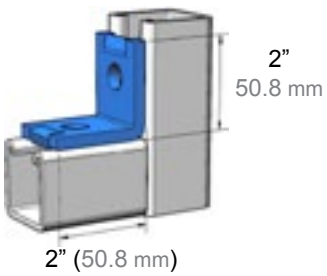

**S128P-HG**

### TWO HOLE 90° FITTING




**S206A-HG**

### TWO HOLE 90° FITTING




**S207A-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.

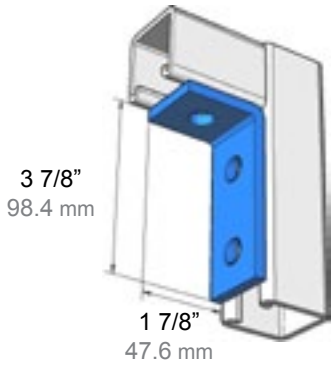
Finish Suffix Legend:

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

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.

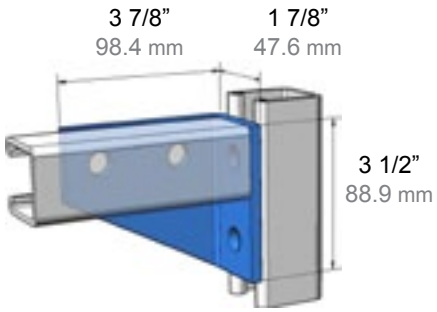
# CORNER CONNECTIONS

### THREE HOLE 90° FITTING



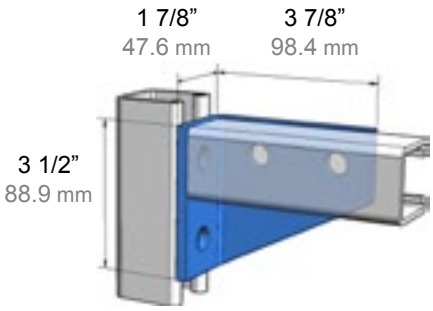

**S210A-HG**

### FOUR HOLE RIGHT ANGLE



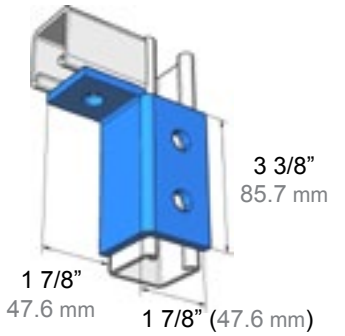

**S232A-HG**

### FOUR HOLE RIGHT ANGLE



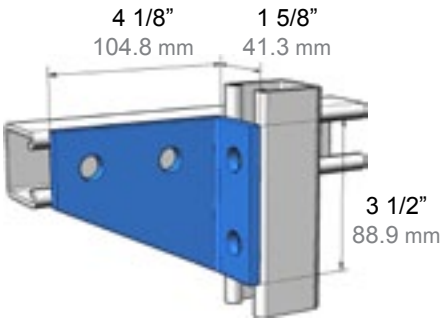

**S233A-HG**

### THREE HOLE 90° FITTING



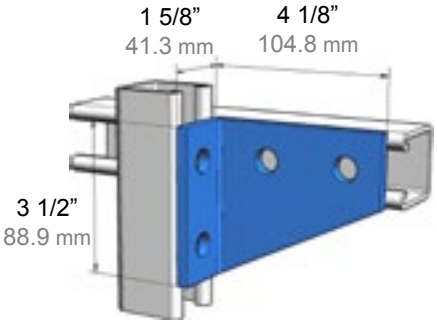

**S528W-HG** RIGHT HAND
**S529W-HG** LEFT HAND (shown)

### FOUR HOLE RIGHT ANGLE




**S218A-HG**

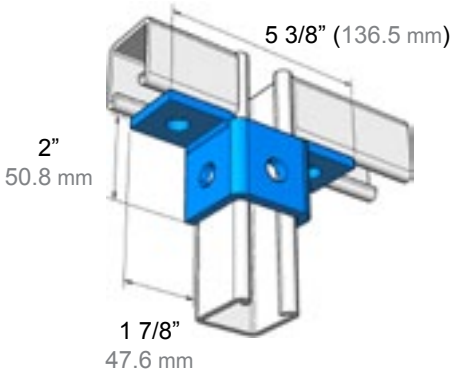
### FOUR HOLE RIGHT ANGLE




**S217A-HG**

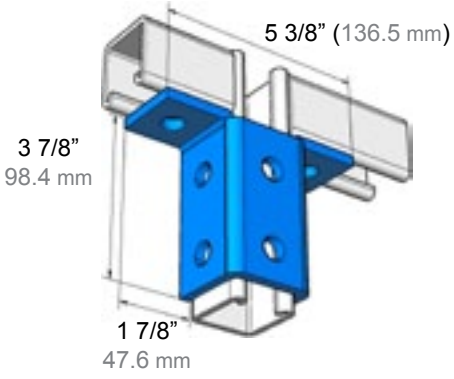
# CROSSING CONNECTIONS

### FIVE HOLE WING FITTING




**S536W-HG**

### EIGHT HOLE WING FITTING




**S537W-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.

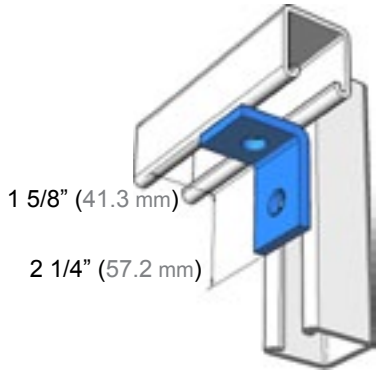
Finish Suffix Legend:

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

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.

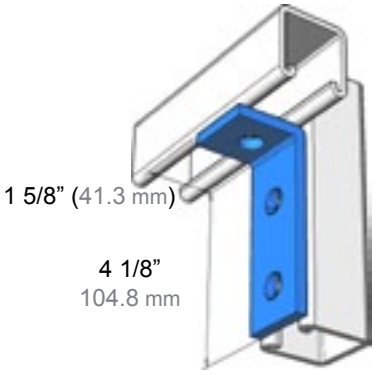
# CROSSING CONNECTIONS

## TWO HOLE ANGLE



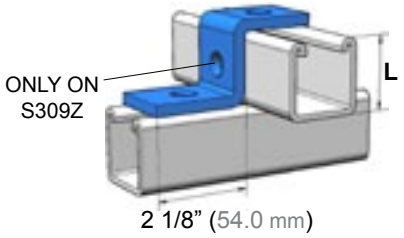

**S205A-HG**

## THREE HOLE ANGLE



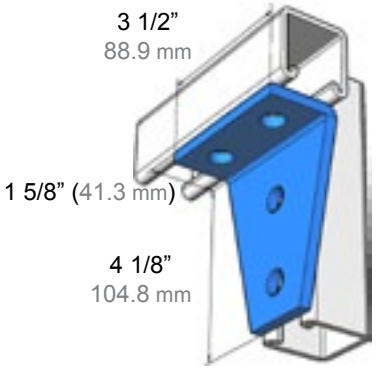

**S209A-HG**

## Z SHAPED ANGLE



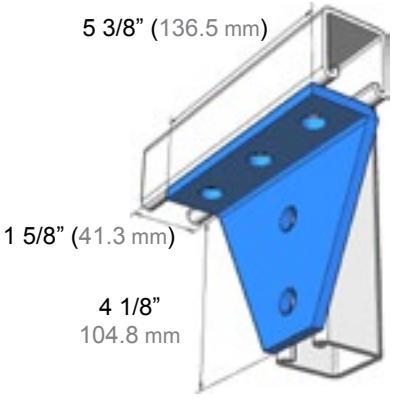

| | L | |
|---|---|---|
| **S315Z-HG** | 3 1/4" | 82.6 mm |
| **S313Z-HG** | 2 7/16" | 61.9 mm |
| **S309Z-HG** | 1 5/8" | 41.3 mm |
| **S312Z-HG** | 1" | 25.4 mm |
| **S301Z-HG** | 13/16" | 20.6 mm |

## FOUR HOLE ANGLE



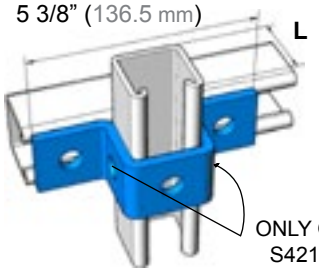

**S235A-HG**

## FIVE HOLE ANGLE



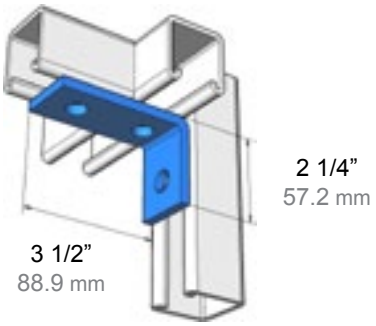

**S230A-HG**

## U SHAPED FITTING



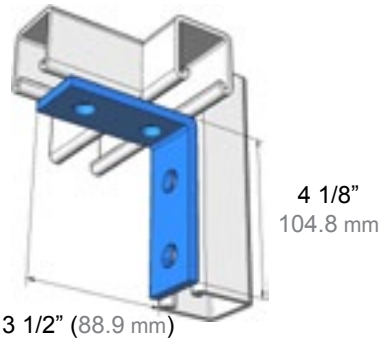

| | L | |
|---|---|---|
| **S425U-HG** | 3 1/4" | 82.6 mm |
| **S424U-HG** | 2 7/16" | 61.9 mm |
| **S421U-HG** | 1 5/8" | 41.3 mm |
| **S420U-HG** | 1" | 25.4 mm |
| **S419U-HG** | 13/16" | 20.6 mm |

## THREE HOLE ANGLE



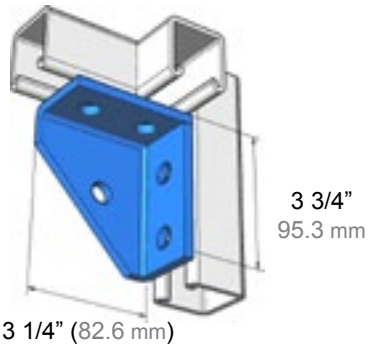

**S212A-HG**

## FOUR HOLE ANGLE




**S214A-HG**

## FIVE HOLE ANGLE




| | |
|---|---|
| **S216A-HG** | LEFT HAND (shown) |
| **S215A-HG** | RIGHT HAND |

| 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.

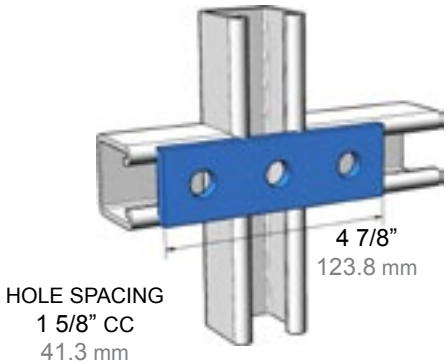
Finish Suffix Legend:

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

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.

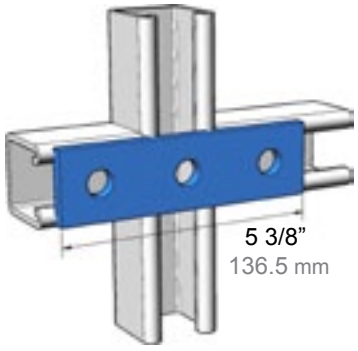
# CROSSING CONNECTIONS

### THREE HOLE FLAT PLATE



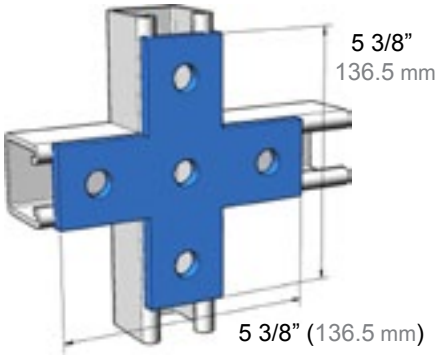

**S113P-HG**

### THREE HOLE FLAT PLATE




**S111P-HG**

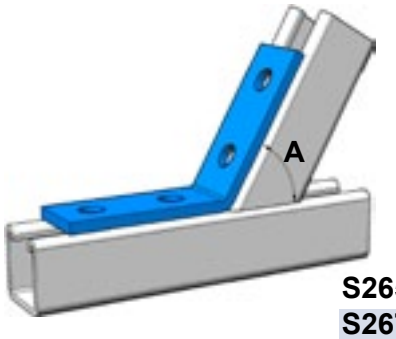
### FIVE HOLE CROSS PLATE




**S121P-HG**

# ANGLE CONNECTIONS

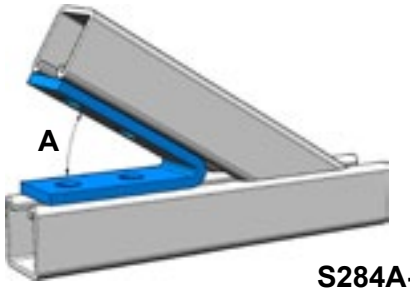
### FOUR HOLE OPEN ANGLES




OTHER ANGLES AVAILABLE

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

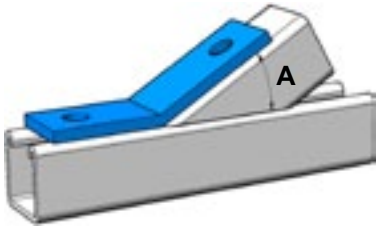
### FOUR HOLE CLOSED ANGLES




OTHER ANGLES AVAILABLE

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

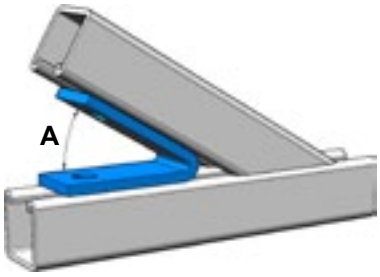
### TWO HOLE OPEN ANGLES




| | A |
|---|---|
| **S258A-HG** | 30° |
| **S255A-HG** | 45° |
| **S253A-HG** | 60° |

OTHER ANGLES AVAILABLE

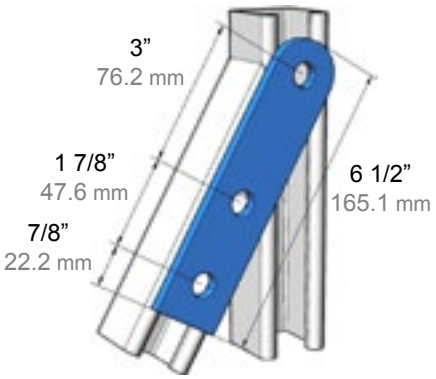
### TWO HOLE CLOSED ANGLES




| | A |
|---|---|
| **S279A-HG** | 30° |
| **S278A-HG** | 45° |
| **S276A-HG** | 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 |

Dimensions are to outside edge unless otherwise indicated.

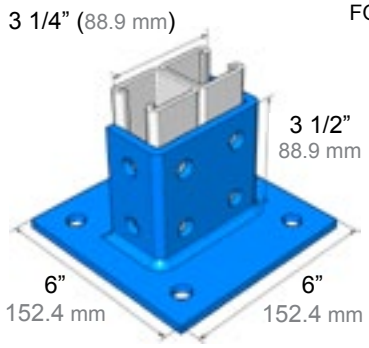
Finish Suffix Legend:

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

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.

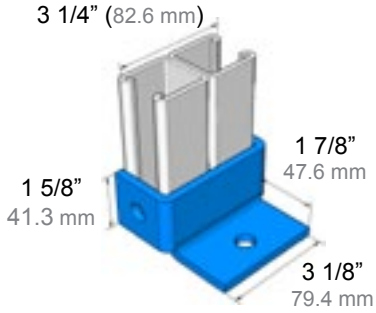
# POST BASES

FOR 1 5/8" x 3 1/4" CHANNEL AND COMBINATIONS



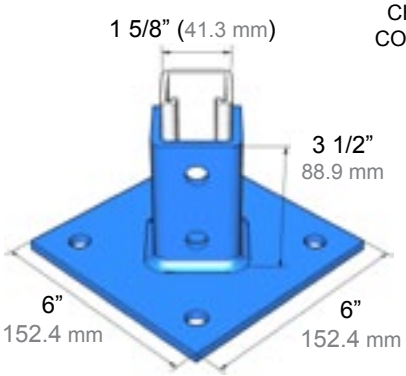

**S500PB-HG**

FOR 1 5/8" x 3 1/4" CHANNEL AND COMBINATIONS



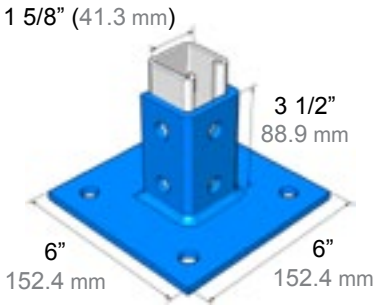

**S505PB-HG**

FOR 1 5/8" x 1 5/8" CHANNEL AND COMBINATIONS



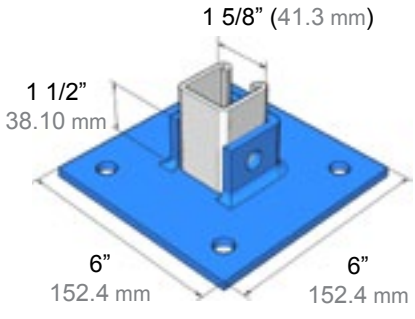

**S501DPB-HG**

FOR 1 5/8" x 1 5/8" CHANNEL AND COMBINATIONS



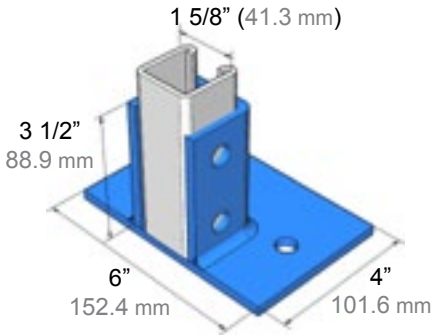

**S501PB-HG**

FOR 1 5/8" x 1 5/8" CHANNEL AND COMBINATIONS



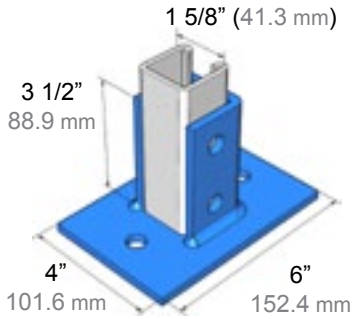

**S503PB-HG**

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**

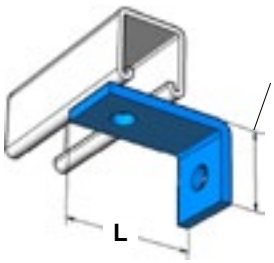
| GENERAL DATA | (Inches) | (mm) |
|---|---|---|
| Hole Diameter | 9/16 | 14.3 |
| Hole Spacing from End | 13/16 | 20.6 |
| Hole Spacing on Centre | 1 7/8 | 47.6 |
| Width | 1 1/2 | 38.1 |
| Thickness | 1/4 | 6.4 |

Dimensions are to outside edge unless otherwise indicated.

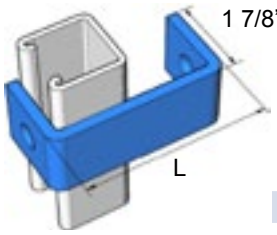
Finish Suffix Legend:

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

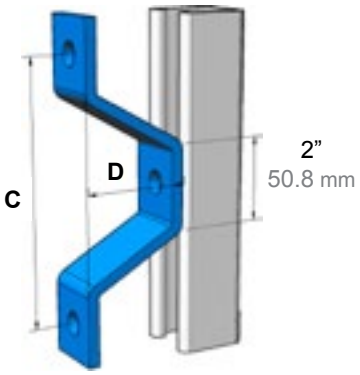
# OFFSET CONNECTIONS




| L (Inches) | (mm) | Catalogue No. |
|---|---|---|
| 3 | 76.2 | **S208-3A-HG** |
| 3 1/2 | 88.9 | **S208-35A-HG** |
| 4 | 101.6 | **S208-4A-HG** |

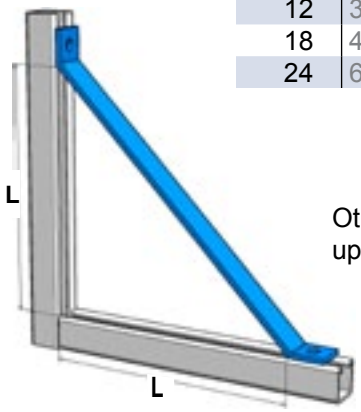



| L (Inches) | (mm) | Catalogue No. |
|---|---|---|
| 4 | 101.6 | **S402U-HG** |
| 5 | 127.0 | **S403U-HG** |
| 6 | 152.4 | **S404U-HG** |
| 7 | 177.8 | **S405U-HG** |
| 8 | 203.2 | **S406U-HG** |




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

# BRACES



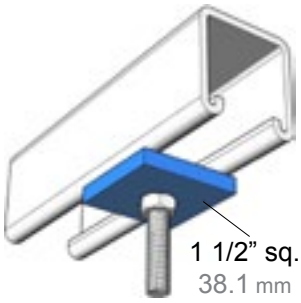

| L (Inches) | (mm) | Catalogue No. |
|---|---|---|
| 12 | 304.8 | **S800-12HG** |
| 18 | 457.2 | **S800-18HG** |
| 24 | 609.6 | **S800-24HG** |

Other sizes available upon request.

# SQUARE WASHERS

A Sasco Square Washer and hex nut ensure positive locking of Clamping Nuts. Hex nut not included.

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




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

| 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**

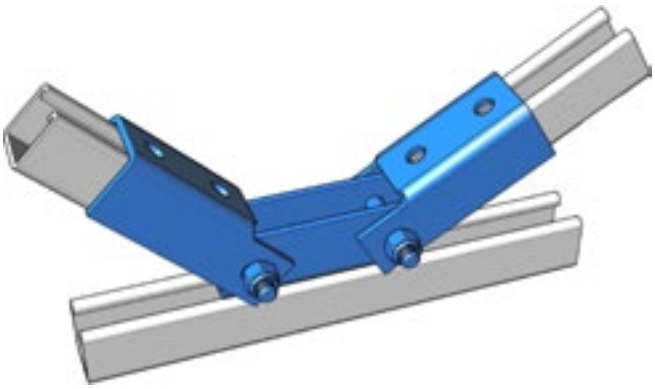
**SR293A-EG**

**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.

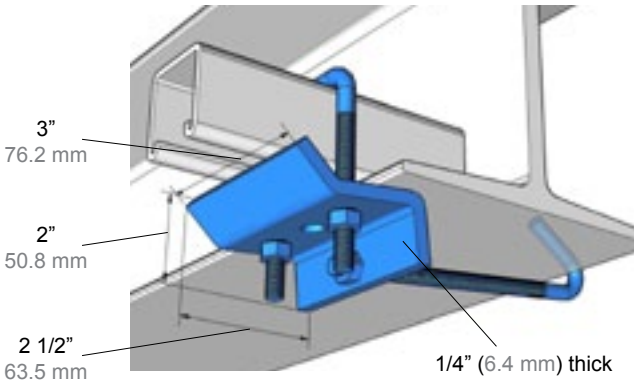
**SR298A-EG**



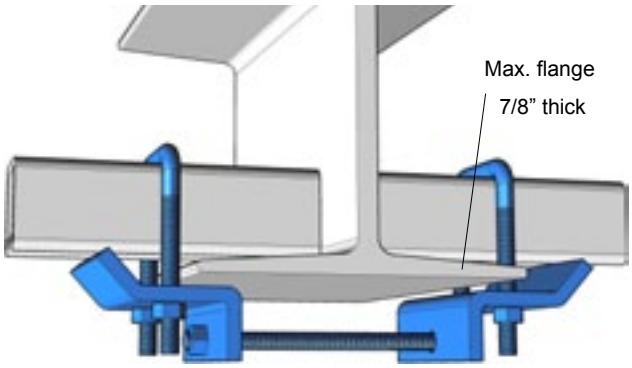
**SR299A-EG**

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). Hot Dip Galvanized (-HG) available upon request.

# BEAM CLAMPS




**S948 Series**



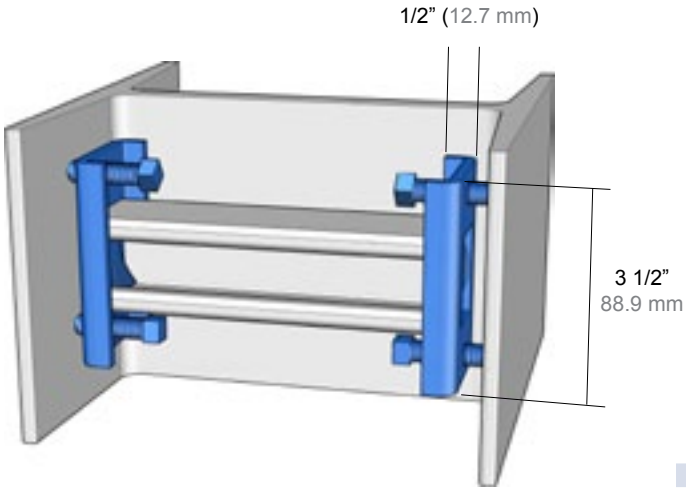

**S949 Series**

| 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 |

| 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 |

S948**S**BC and S949**S**BC series for use with Sasco Single and Combination Strut Channels 13/16” to 1 5/8”.

S948**L**BC and S949**L**BC 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).

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

Other sizes and finishes available. Must be used in pairs.

Dimensions are to outside edge unless otherwise indicated.

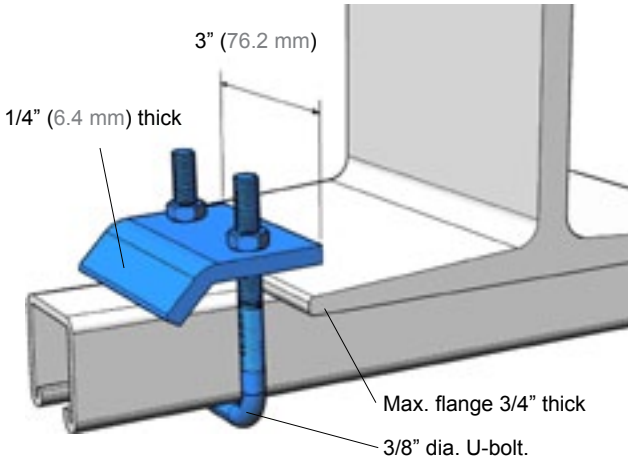
All holes for attachments are 9/16” (14.3 mm) diameter.

*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 |

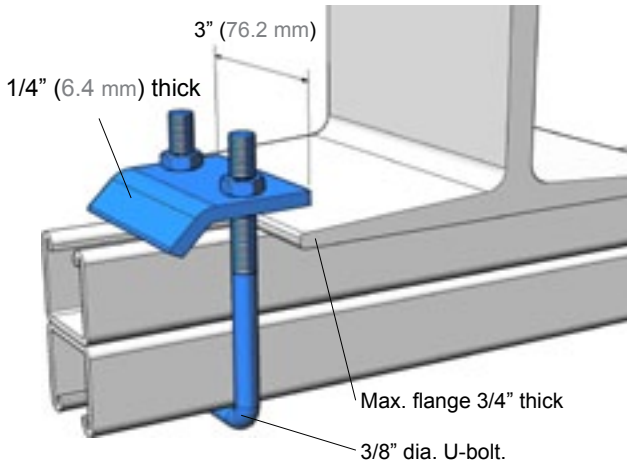
# BEAM CLAMPS




## S942BC-EG

For use with Sasco Strut Channel 13/16" to 1 5/8"

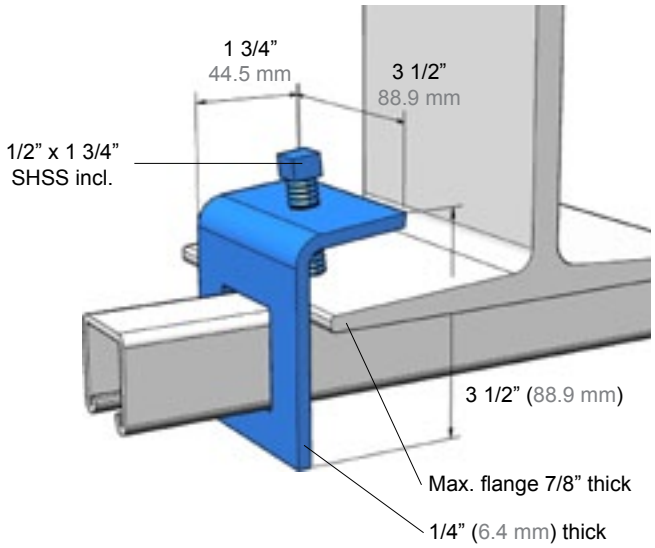
Design load* 1000 lbs (455 kg) each. Must be used in pairs.




## S943BC-EG

For use with Sasco Strut Channel 2 7/16" to 3 1/4"

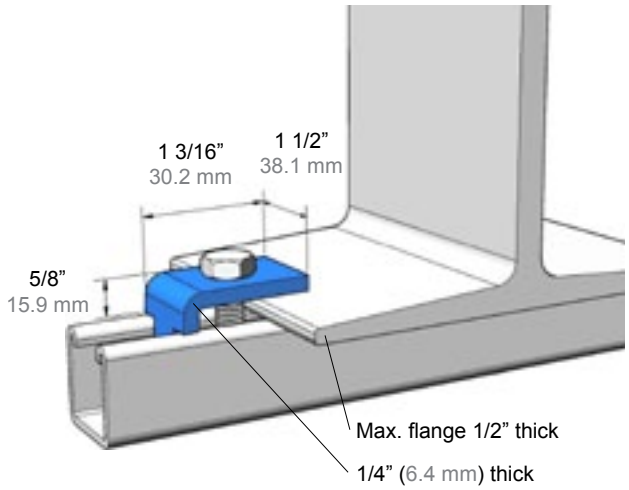
Design load* 1000 lbs (455 kg) each. Must be used in pairs.




## S938BC-EG

Design load* 480 lbs (220 kg) each. Must be used in pairs.

Use with 1 5/8" x 1 5/8" Strut Channel




## S937BC-EG

Requires 1/2" 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.

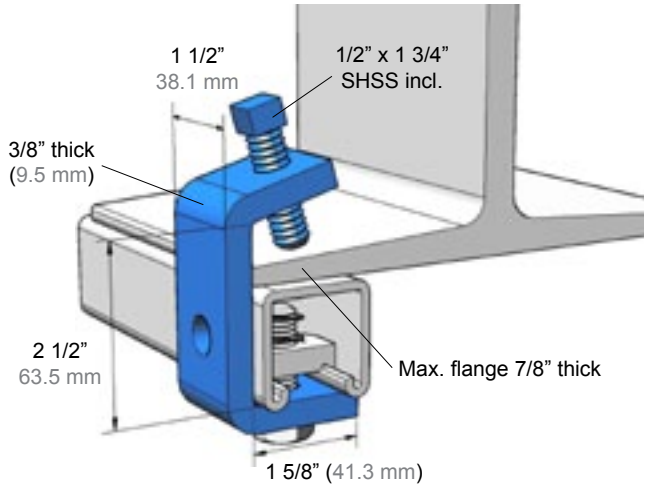
All holes for attachments are 9/16" (14.3 mm) diameter.

*Design load is for a single 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 |

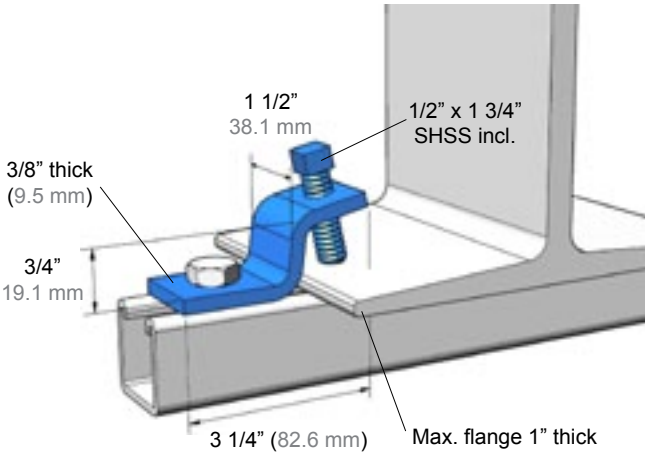
# BEAM CLAMPS




## S953BC-HG

Design load* 500 lbs (225 kg) each.
Must be used in pairs.

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

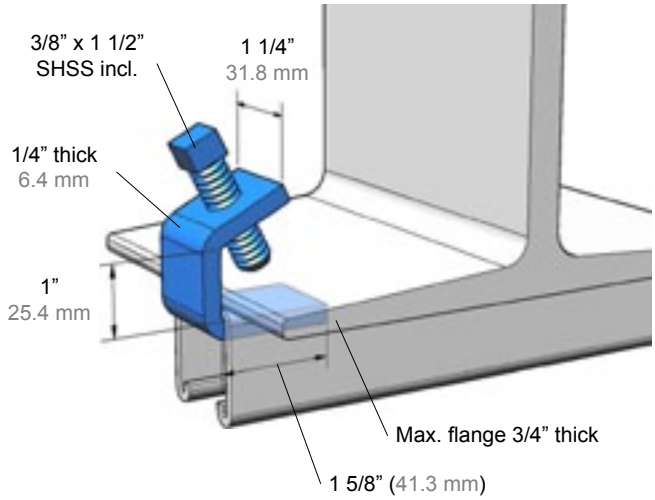



## S936BC-HG

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

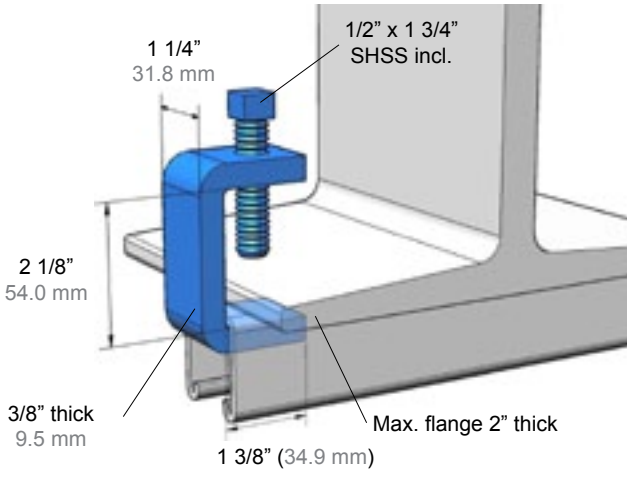
Requires 1/2" Clamping Nut and bolt (not incl.).

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.

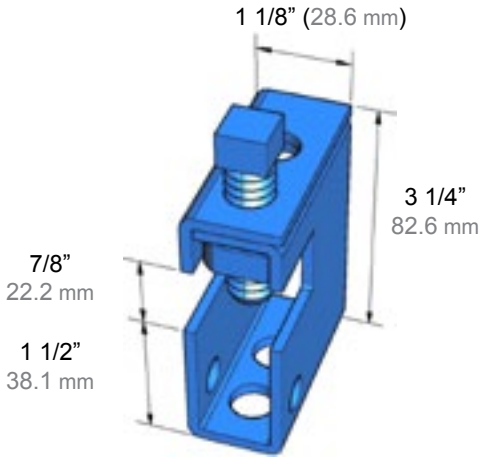
All holes for attachments are 9/16" (14.3 mm) diameter.

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

Finish Suffix Legend:

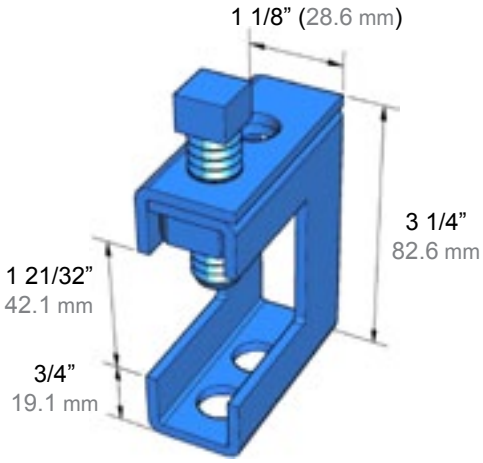
| | |
|---|---|
| Hot Dip Galvanized After Fabrication | -HG |
| Pre-galvanized | -G |
| Electroplated Zinc | -EG |
| Stainless Steel Type 304 | -SS4 |
| Stainless Steel Type 316 | -SS6 |

# BEAM CLAMPS




**S902BC-HG**

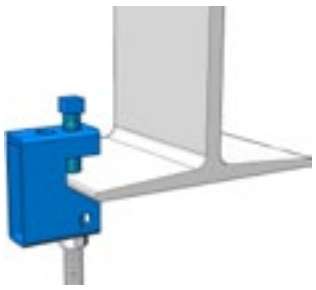
One 1/2" x 1 3/4" SHSS incl.
All holes 9/16" dia. (14.3 mm)




**S900BC-HG**

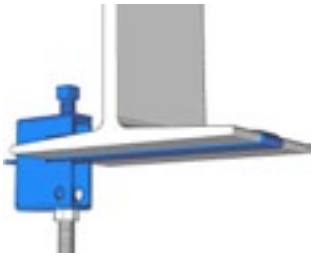
One 1/2" x 1 3/4" SHSS incl.
All holes 9/16" dia. (14.3 mm)

# TYPICAL USES OF THE ABOVE BEAM CLAMPS

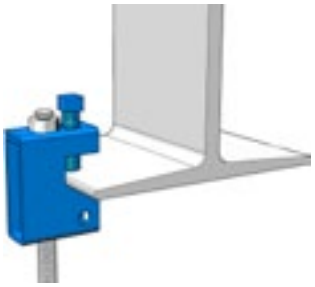


Design Load 500 lbs (227 kg)

Design Load 500 lbs (227 kg)

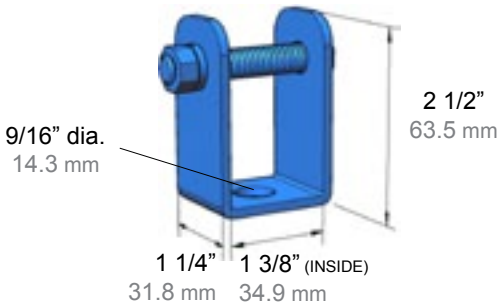


Design Load 500 lbs (227 kg)



Design Load 300 lbs (136 kg)

# CLEVIS HANGER

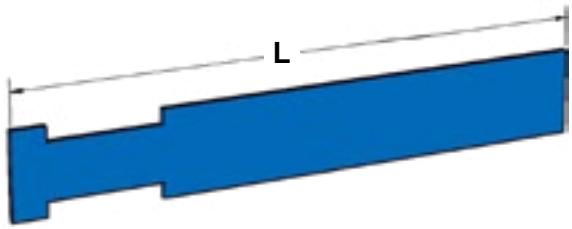



**S906BC-HG**

Used with S902BC

Standard finish is hot dip galvanized (HG)

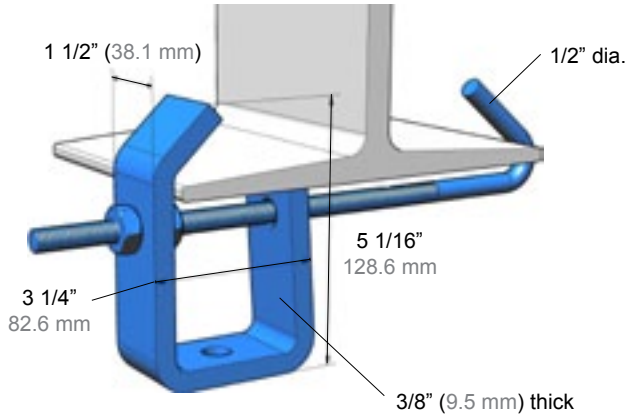
# SAFETY STRAPS




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 |

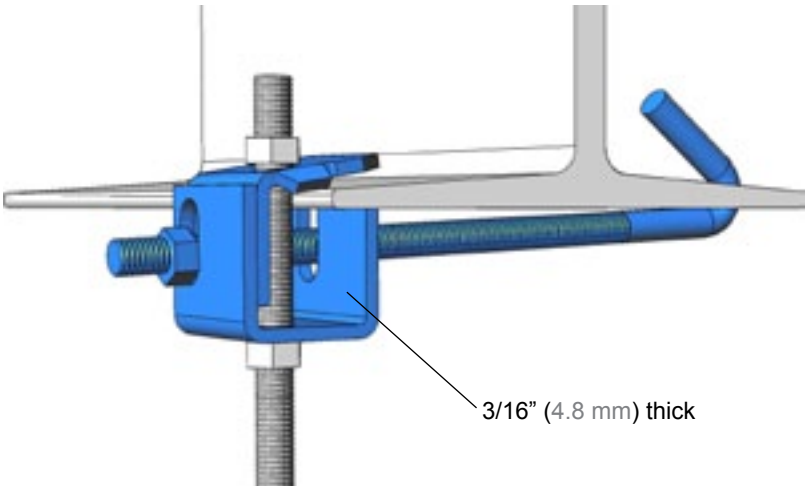
# BEAM CLAMPS




## S990 Series

Design load 800 lbs (363 kg)

| Catalogue No. | J-hook Length* (Inches) | (mm) | Beam Flange Range (Inches) | (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. | Beam Flange Range (Inches) | (mm) | Design Load (Lbs) | (kg) |
|---|---|---|---|---|
| **S984-126EG** | 2 1/2 - 6 | 63.5 - 152.4 | 500 | 225 |
| **S984-129EG** | 5 1/2 - 9 | 139.7 - 228.6 | 500 | 225 |
| **S984-1212EG** | 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.

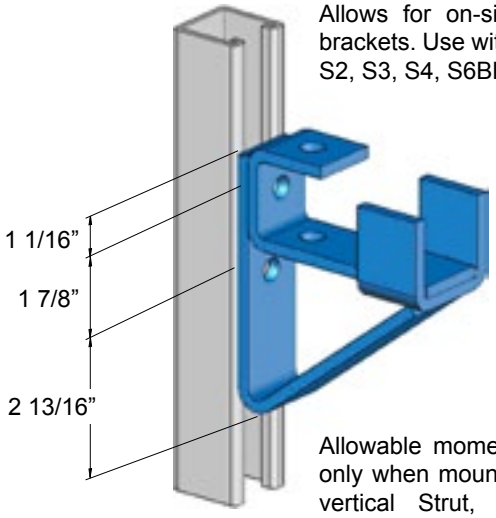
Finish Suffix Legend:

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

# 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.



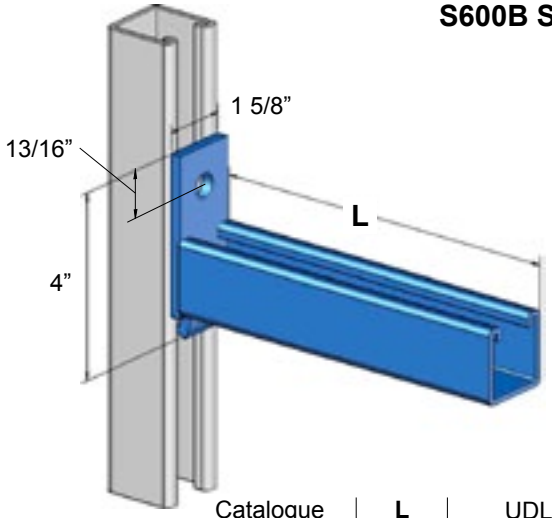

Allows for on-site fabrication of brackets. Use with Strut Channels S2, S3, S4, S6BB or S7BB.

Allowable moment for the fitting, only when mounted on 12 gauge vertical Strut, is 5150 in-lbs. Safety factor: 2.5

Inserted strut channel and length may limit capacity.

**S681B-HG**

## S600B Series




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

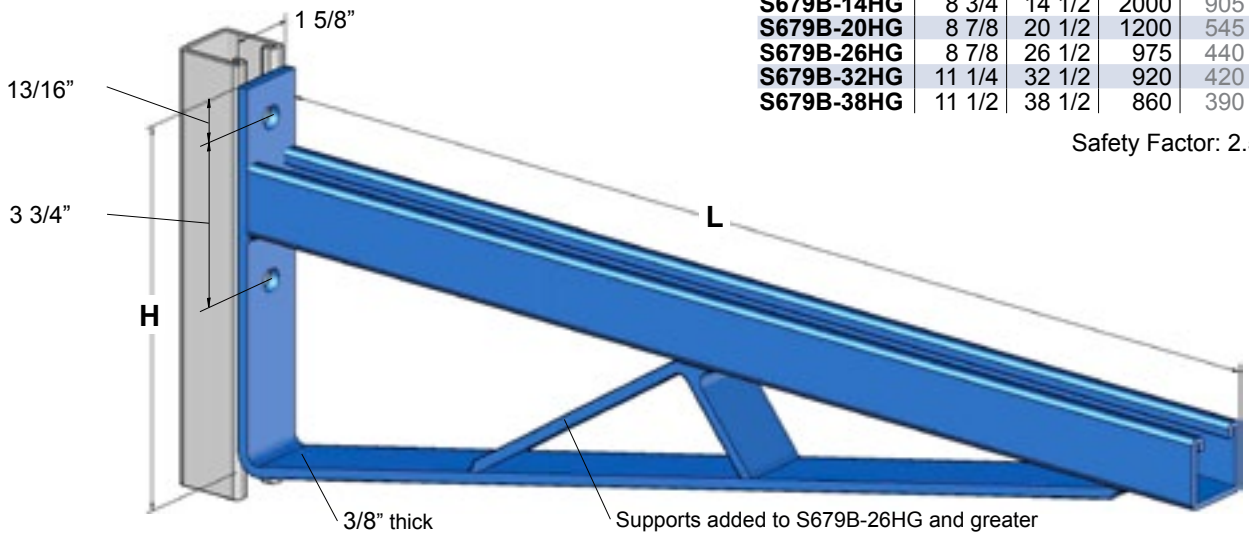
Custom lengths on request.

Safety Factor: 2.5

## S679B Series

| Catalogue No. | H (Inches) | L (Inches) | UDL* (Lbs) | (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: 2.5

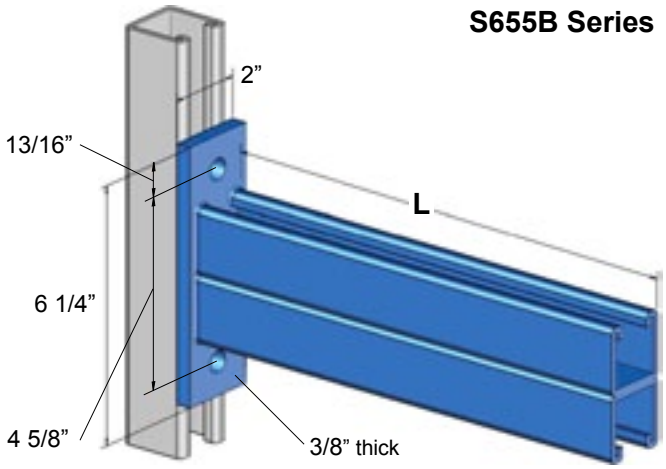



*The Uniform Design Load (UDL) values shown are when 12 ga. vertical strut channel is used.
Uprights must be designed to properly support load. When wall mounted, anchors must be of sufficient size to support load.
Note: All holes 9/16” dia., 1.000 inches = 25.40 mm

# 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" Clamping Nuts are required for mounting (not included).

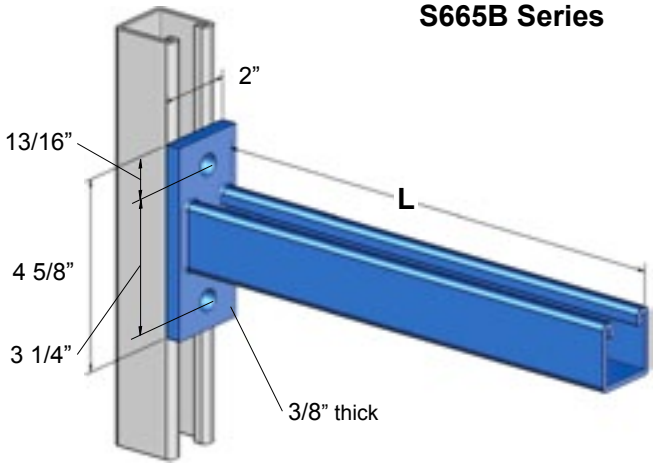
## S655B Series




| Catalogue No. | L (Inches) | UDL* (Lbs) | (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: 2.5

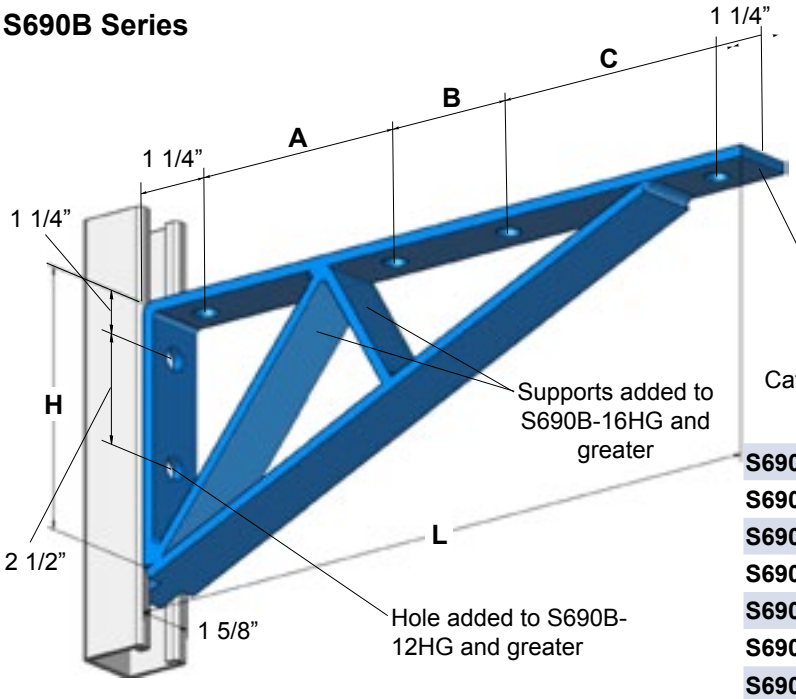
## S665B Series




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

Safety Factor: 2.5

## S690B Series




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

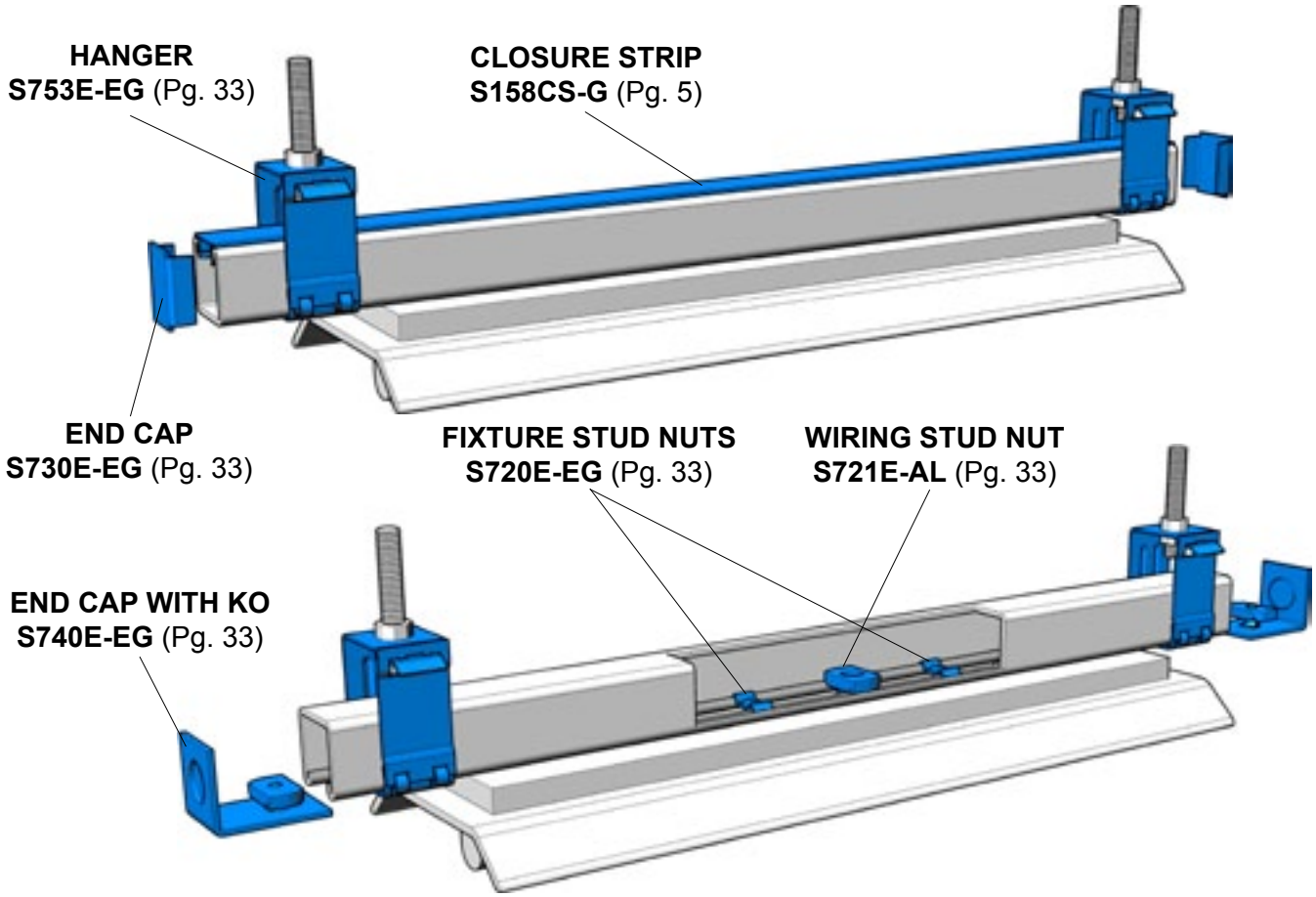
*The Uniform Design Load (UDL) values shown are when 12 ga. vertical strut channel is used.
Uprights must be designed to properly support load. When wall mounted, anchors must be of sufficient size to support load.
Note: All holes 9/16" dia., 1.000 inches = 25.40 mm, 1.000 lbs = 0.4536 kg

# 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 | S5 | S6, S7 |
| 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 |

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

| Support Distance | | Strut Channel Catalogue Prefix | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | S2 | | S3 | | S5 | | S6 | | S7 | |
| (Feet) | (m) | (Inches) | (mm) | (Inches) | (mm) | (Inches) | (mm) | (Inches) | (mm) | (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

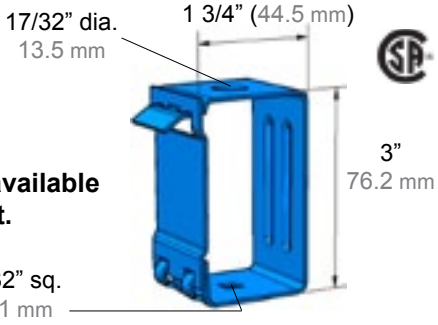
**S755E-G**

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

## HANGER

**S753E-EG**

**Other sizes available upon request.**



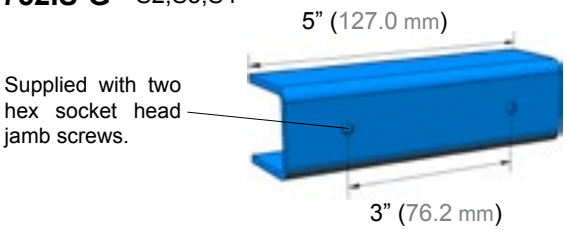

## FOUR HOLE SPLICE PLATE

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


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

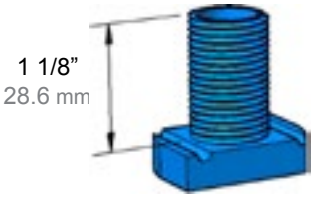
## INSIDE SPLICE PLATE

| | CHANNEL |
|---|---|
| **S751IS-G** | S1 |
| **S752IS-G** | S2,S3,S4 |



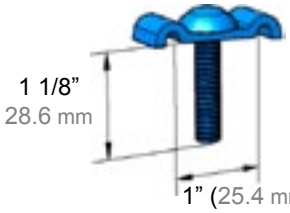

## 1/2" WIRING STUD NUT

**S721E-AL**

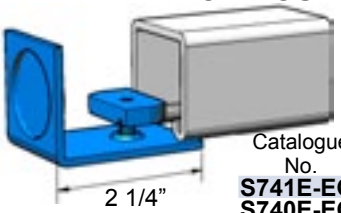



## FIXTURE STUD NUT

**S720E-EG**



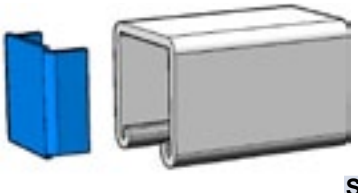

## END CAP WITH KNOCK-OUT




Supplied with S14W Clamping Nut and bolt.

| Catalogue No. | Conduit Size (Inches) | (mm) | Channel |
|---|---|---|---|
| **S741E-EG** | 1/2 | 12.7 | S1 |
| **S740E-EG** | 1/2 | 12.7 | S2,S3,S4 |
| **S742E-EG** | 3/4 | 19.1 | S1 |
| **S743E-EG** | 3/4 | 19.1 | S2,S3,S4 |

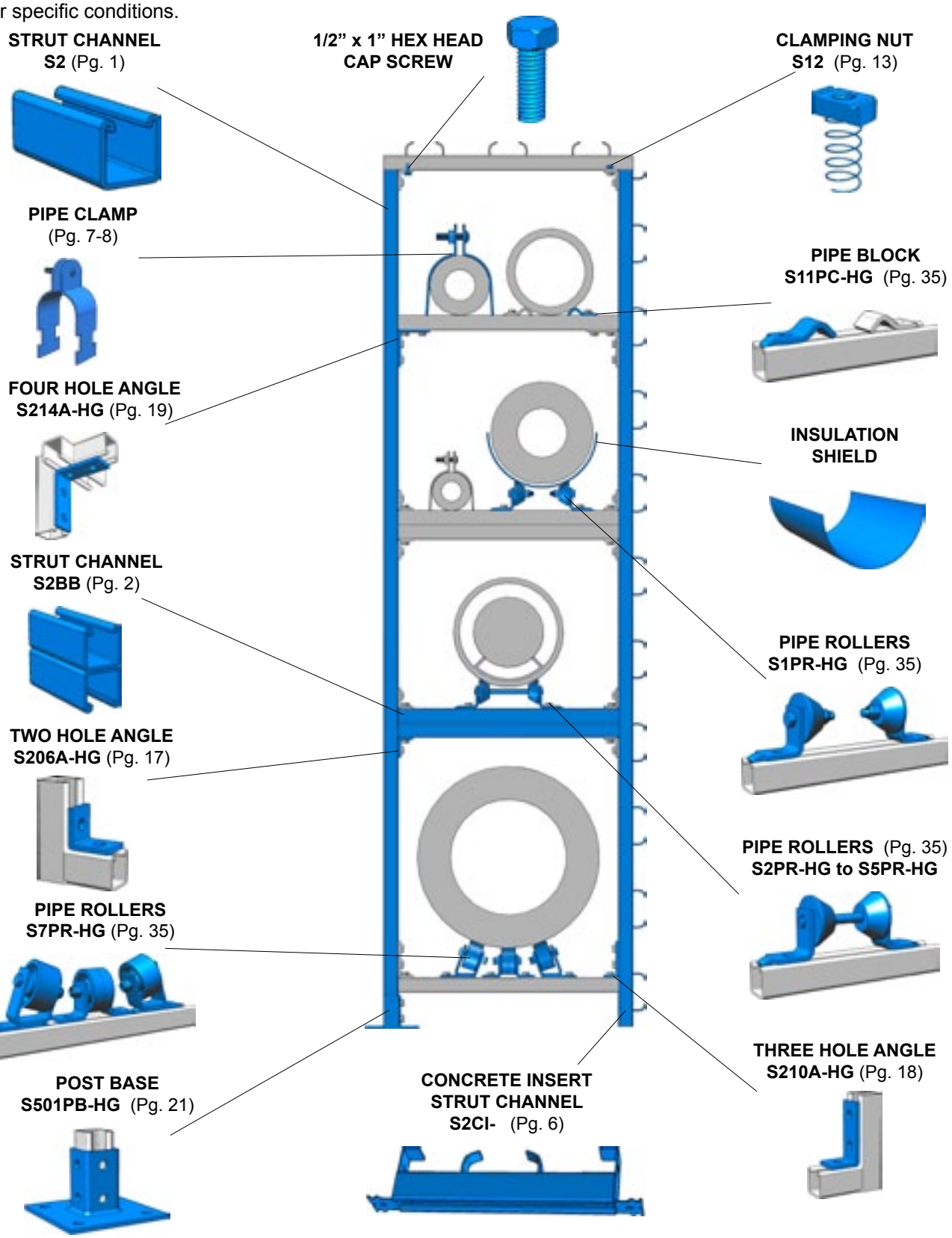
## END CAP



| 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

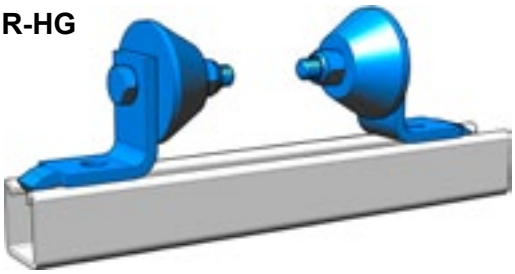
### S11PC-HG

**Use in pairs.**

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

## PIPE ROLLERS

### S1PR-HG



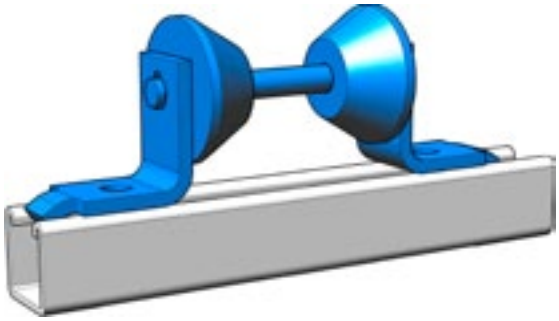
Design Load 500 lbs (227 kg)

For pipe diameters 1/2 to 4” (12.7 to 101.6 mm)

## PIPE ROLLERS

Design Load 750 lbs (340 kg)

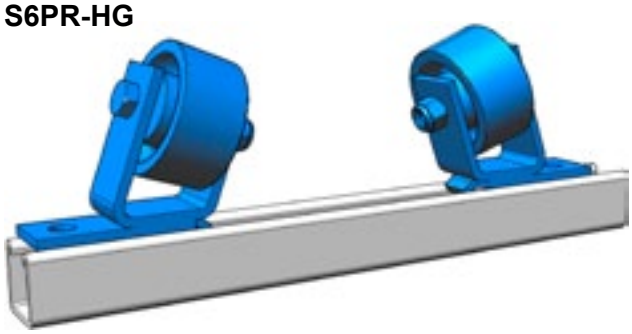
For pipe diameters 1 to 8” (25.4 to 203.2 mm)



| Catalogue No. | Pipe Diameter (Inches) | (mm) |
|---|---|---|
| **S2PR-HG** | 1 - 3 | 25.4 - 76.2 |
| **S3PR-HG** | 1 - 4 | 25.4 - 101.6 |
| **S4PR-HG** | 1 - 6 | 25.4 - 152.4 |
| **S5PR-HG** | 1 - 8 | 25.4 - 203.2 |

## PIPE ROLLERS

### S6PR-HG

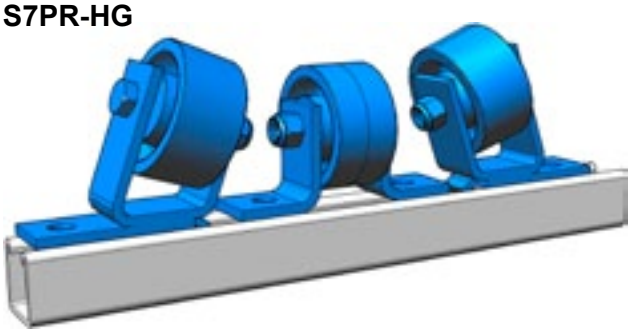


Design Load 1500 lbs (680 kg)

For pipe diameters 6 to 16” (152.4 to 406.4 mm)

## PIPE ROLLERS

### S7PR-HG



Design Load 2000 lbs (907 kg)

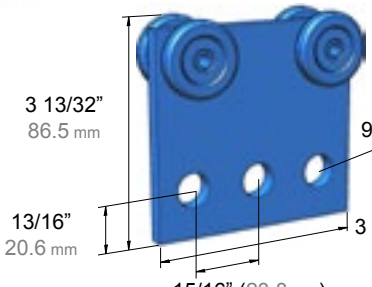
For pipe diameters 16 to 24” (406.4 to 609.6 mm)

Note: 1/2” 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.

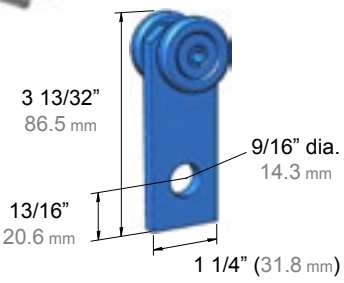
| FPM | RPM | Design Load (lbs) | (kN) |
|---|---|---|---|
| 180 | 600 | 300 | 1.33 |
| 90 | 300 | 450 | 2.00 |
| 30 | 100 | 600 | 2.67 |




**S871T-EG**

Do not lubricate.

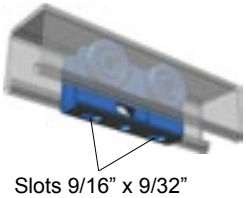
| FPM | RPM | Design Load (lbs) | (kN) |
|---|---|---|---|
| 180 | 600 | 150 | 0.67 |
| 90 | 300 | 225 | 1.00 |
| 30 | 100 | 437 | 1.94 |

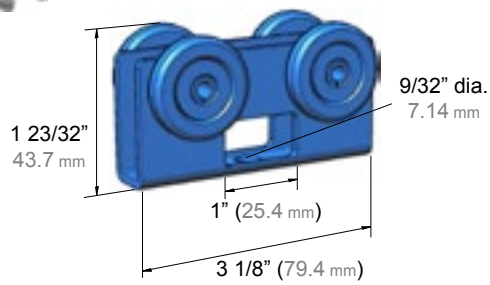



**S870T-EG**

Do not lubricate.

Design Load 100 lbs (0.44 kN)



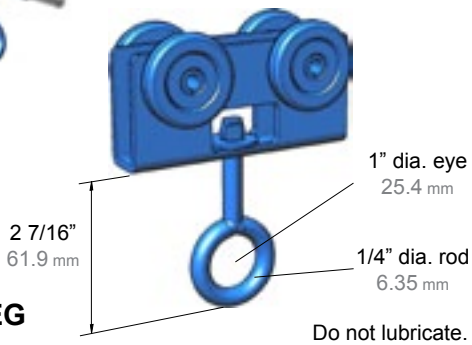




**S875T-EG**

Do not lubricate.

Design Load 100 lbs (0.44 kN)

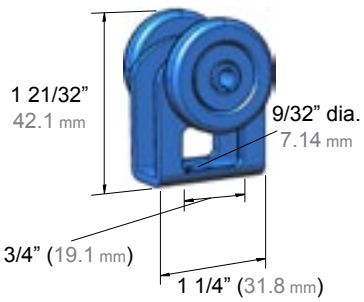
Same as S875T-EG with 1/4" dia. eye bolt




**S876HT-EG**

Do not lubricate.

Design Load 50 lbs (0.22 kN)

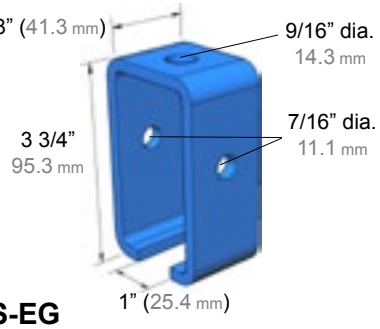



**S873T-EG**

Do not lubricate.

Design Load 1200 lbs (5.28 kN)

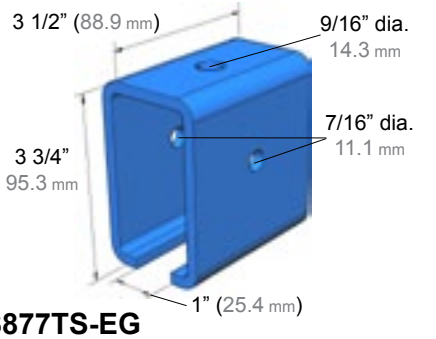
Requires 3/8" x 2 1/2" bolt and 3/8" nut (not included)




**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**

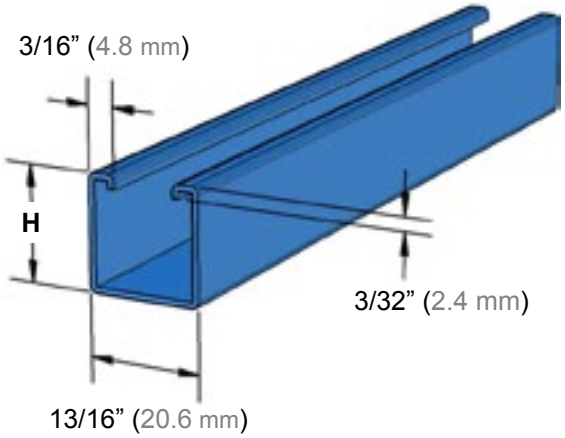
Wheel bearings are stainless steel. Do not lubricate.

Vertical measurements include wheels where applicable.

# STRUT CHANNEL: MINI

## STEEL

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




| 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.

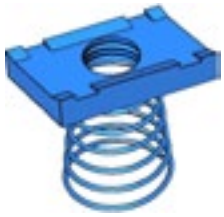
## STAINLESS STEEL

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.

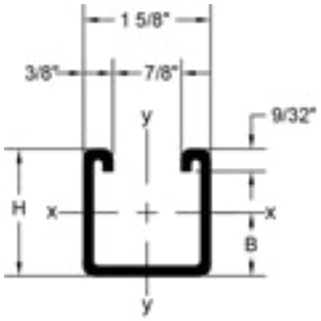
| Thread Size | Catalogue Numbers | |
|---|---|---|
| | Regular Spring | Short Spring |
| #8 - 32 | **SM-0832** | **SM-0832S** |
| #10 - 32 | **SM-1032** | **SM-1032S** |
| 1/4" - 20 | **SM-14** | **SM-14S** |

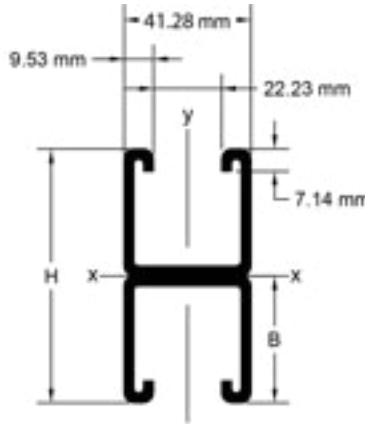


Standard finish is electroplated zinc.

# ELEMENTS OF SASCO STEEL CHANNELS

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



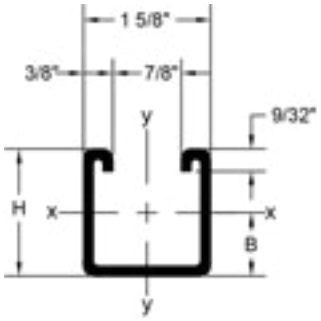



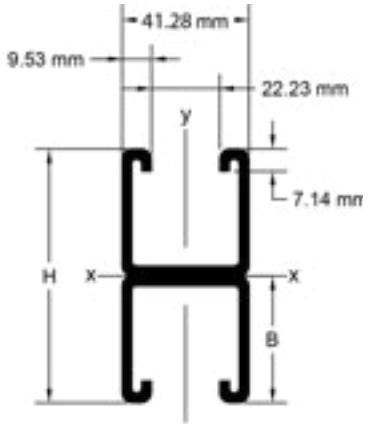

## IMPERIAL MEASURES

| Catalogue Prefix | Ga. | H (In) | Weight (Lbs/Ft) | A ($In^2$) | Section x-x I ($In^4$) | Section x-x S ($In^3$) | Section x-x r (In) | B (In) | Section y-y I ($In^4$) | Section y-y S ($In^3$) | Section y-y 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 I ($cm^4$) | Section x-x S ($cm^3$) | Section x-x r (cm) | B (cm) | Section y-y I ($cm^4$) | Section y-y S ($cm^3$) | Section y-y 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 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 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 39 and 40. 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 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.

| | | 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 | | |
| Catalogue Prefix | (Ga.) | (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 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | |
| Catalogue Prefix | (Ga.) | (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 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | |
| Catalogue Prefix | (Ga.) | (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 39 for details. * Limited by spot weld shear.

# LOAD TABLES FOR STRUT STEEL CHANNELS

| | | 48" Beam | | | | | 54" Beam | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | |
| Catalogue Prefix | (Ga.) | (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 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | |
| Catalogue Prefix | (Ga.) | (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 39 for details. * Limited by spot weld shear.

# LOAD TABLES FOR STRUT STEEL CHANNELS

| | | 84" Beam | | | | | 96" Beam | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | |
| Catalogue Prefix | (Ga.) | (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 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | |
| Catalogue Prefix | (Ga.) | (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 39 for details.

# LOAD TABLES FOR STRUT STEEL CHANNELS

| | | 144" Beam | | | | | 168" Beam | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | |
| Catalogue Prefix | (Ga.) | (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 | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | |
| Catalogue Prefix | (Ga.) | (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 39 for details.

# LOAD TABLES FOR STRUT STEEL CHANNELS

| | | 240" Beam | | | | |
|---|---|---|---|---|---|---|
| | | Net Allowable Uniform Load[1] | | Net Uniform Load[1] at Deflection | | |
| **Catalogue Prefix** | (Ga.) | (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 | 29.92 | 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 39 for details.

# INDEX

# NOTES

## 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 |

# SASCO

PROVIDES

# LOCAL

REPRESENTATION & INVENTORIES

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