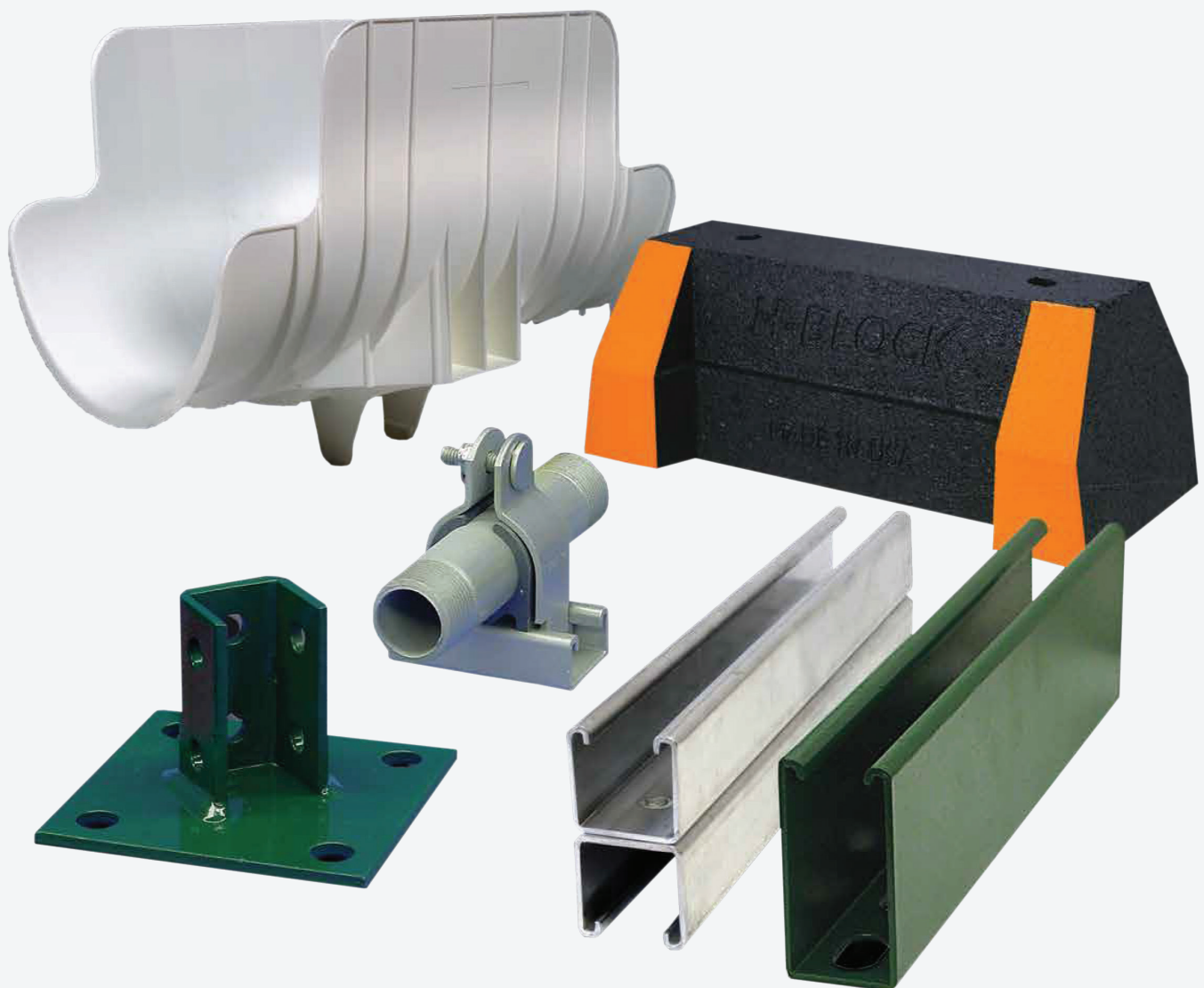


Building connections that last™

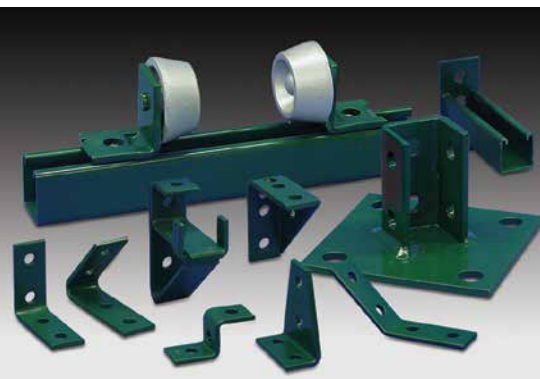
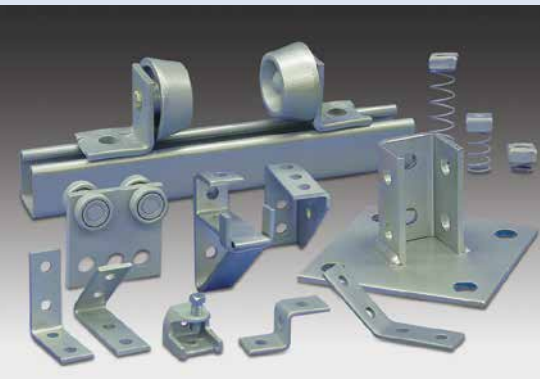


# Anvil-Strut®

## Metal Framing & H-Block



# BUILDING CONNECTIONS THAT LAST



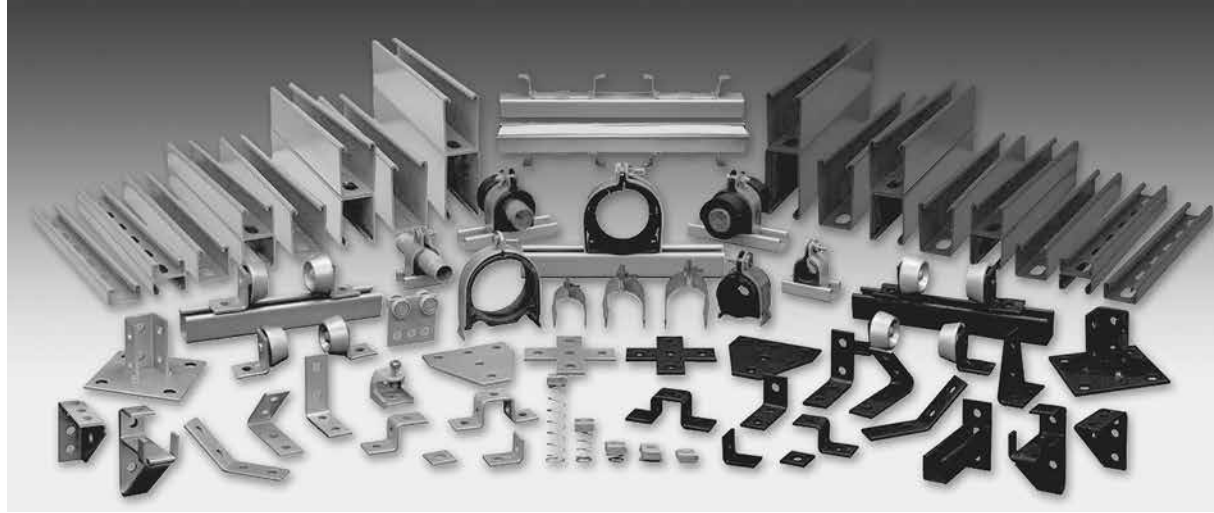
For over 160 years, Anvil has worked diligently to build a strong, vibrant tradition of making connections — pipe to pipe and people to people.

We pride ourselves in providing the finest-quality pipe products and services with integrity and dedication to superior customer service at all levels.

We provide expertise and product solutions for a wide range of applications, from plumbing, mechanical, HVAC, industrial and fire protection to mining, oil and gas. Our comprehensive line of products includes: grooved pipe couplings, grooved and plain-end fittings, valves, cast and malleable iron fittings, forged steel fittings, steel pipe nipples and couplings, pipe hangers and supports, channel and strut fittings, mining and oil field fittings, along with much more.

As an additional benefit to our customers, Anvil offers a complete and comprehensive Design Services Analysis for mechanical equipment rooms, to help you determine the most effective and cost-efficient piping solutions.

At Anvil, we believe that responsive and accessible customer support is what makes the difference between simply delivering products — and delivering solutions.



# Metal Framing Product and Engineering Catalog

The Anvil-Strut® product line includes metal framing channels, spring nuts, pipe and conduit supports, and fittings and accessories. Strut is designed to provide durable, dependable, and economical performance in clean rooms, satellite dish supports, x-ray supports, storage racks, theater screen, tunnel stanchions and offshore catwalk applications.

Anvil-Strut channels are manufactured by a series of forming dies (rolls) which progressively cold work the strip steel into the desired channel configuration. This method produces a cross-section of uniform dimensions with a tolerance of  $\pm .015$ " on outside dimensions. These channels are produced from prime structural steel and are ASTM approved. The channels are available as pre-galvanized steel, plain steel, stainless steel, and aluminum. Channel configurations of two or more elements are spotwelded, providing a wide range of combination options. The spotwelds are spaced two or three inches on centers throughout the length of the multiple channel sections.

Anvil-Strut channels are stocked in pre-galvanized and painted Supr-green. Some sizes are stocked in stainless steel, zinc dichromate, PVC coated, or hot dipped galvanized. Regular stocked lengths of Anvil-Strut channels are 10 and 20 foot, with tolerances of  $\pm 1/8$ ". Other lengths are available upon request.

## Anvil-Strut®

Anvil-Strut complete line of continuous strut and strut fittings with channels, fittings and accessories can be used in a variety of small or large, light or heavy applications.

### They include:

- Clean Rooms
- Satellite Dish Supports
- X-ray Supports
- Storage Racks
- Theater Screen
- Tunnel Stanchions
- Offshore Catwalks

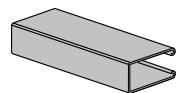
| <b>Description</b>                | <b>Pages</b> | <b>Description</b>                     | <b>Pages</b> |
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## TO OUR VALUED CUSTOMERS

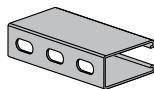
Anvil-Strut® products are carefully designed and manufactured to the listed standards, as applicable. However, Anvil-Strut reserves the right to revise product design without notification. Anvil-Strut products included in this catalog are intended for installation and service only as described or specified herein. Care should be exercised by installers and end-users to install, use and maintain these products properly to avoid any possible on-the-job accidents. Prices subject to change without notice.



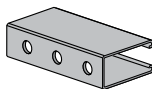
## CHANNELS



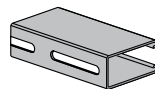
**AS 100**  
Channel  
Size: 3/4" x 1 5/8" x 12 GA.  
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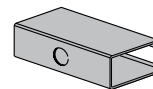
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Channel with  
Elongated Holes  
Size: 3/4" x 1 5/8" x 12 GA.  
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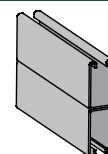
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Holes  
Size: 3/4" x 1 5/8" x 12 GA.  
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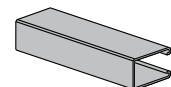
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Channel with  
Long Slots  
Size: 3/4" x 1 5/8" x 12 GA.  
Page 17



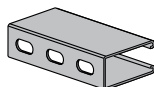
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Channel with  
Knock Out  
Size: 3/4" x 1 5/8" x 12 GA.  
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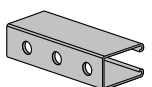
**AS 100 BTB**  
Welded Channel  
Size: 6 1/2" x 1 5/8" x 12 GA.  
Two Pcs. AS 100 Welded  
Back-to-Back.  
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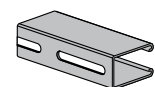
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Channel  
Size: 2 7/16" x 1 5/8" x 12 GA.  
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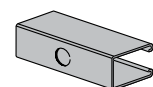
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Channel with  
Elongated Holes  
Size: 2 7/16" x 1 5/8" x 12 GA.  
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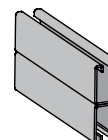
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Channel with Holes  
Size: 2 7/16" x 1 5/8" x 12 GA.  
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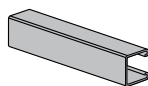
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Channel with Long Slots  
Size: 2 7/16" x 1 5/8" x 12 GA.  
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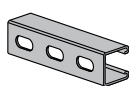
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Channel with Knock Out  
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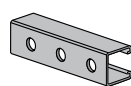
**AS 150 BTB**  
Welded Channel  
Size: 4 7/8" x 1 5/8" x 12 GA.  
Two Pcs. AS 150 Welded  
Back-to-Back.  
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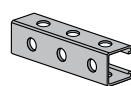
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Channel  
Size: 1 5/8" x 1 5/8" x 12 GA.  
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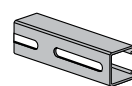
**AS 200 EH**  
Channel with  
Elongated Holes  
Size: 1 5/8" x 1 5/8" x 12 GA.  
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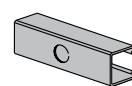
**AS 200 H**  
Channel with Holes  
Size: 1 5/8" x 1 5/8" x 12 GA.  
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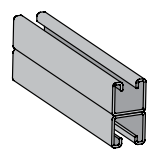
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Channel with  
Holes on 3 Sides  
Size: 1 5/8" x 1 5/8" x 12 GA.  
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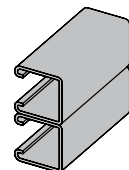
**AS 200 S**  
Channel with  
Long Slots  
Size: 1 5/8" x 1 5/8" x 12 GA.  
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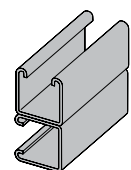
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Channel with  
Knock Out  
Size: 1 5/8" x 1 5/8" x 12 GA.  
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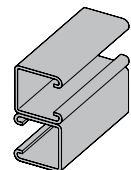
**AS 200 BTB**  
Welded Channel  
Size: 3 1/4" x 1 5/8" x 12 GA.  
Two Pcs. AS 200 Welded  
Back-to-Back.  
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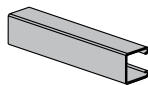
**AS 200 STS**  
Welded Channel  
Size: 3 1/4" x 1 5/8" x 12 GA.  
Two Pcs. AS 200 Welded  
Side-to-Side.  
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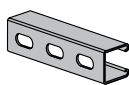
**AS 200 BTS**  
Welded Channel  
Size: 3 1/4" x 1 5/8" x 12 GA.  
Two Pcs. AS 200 Welded  
Back-to-Side.  
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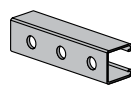
**AS 200 STSR**  
Welded Channel  
Size: 3 1/4" x 1 5/8" x 12 GA.  
Two Pcs. AS 200 Welded  
Side to Reverse Side.  
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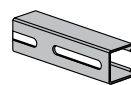
**AS 210**  
Channel  
Size: 1 5/8" x 1 5/8" x 14 GA.  
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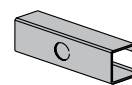
**AS 210 EH**  
Channel with  
Elongated Holes  
Size: 1 5/8" x 1 5/8" x 14 GA.  
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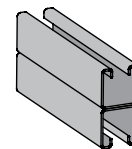
**AS 210 H**  
Channel with Holes  
Size: 1 5/8" x 1 5/8" x 14 GA.  
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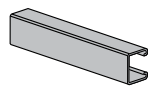
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Channel with  
Long Slots  
Size: 1 5/8" x 1 5/8" x 14 GA.  
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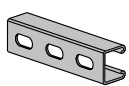
**AS 210 KO**  
Channel with  
Knock Out  
Size: 1 5/8" x 1 5/8" x 14 GA.  
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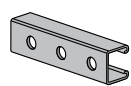
**AS 210 BTB**  
Welded Channel  
Size: 3 1/4" x 1 5/8" x 14 GA.  
Two Pcs. AS 210 Welded  
Back-to-Back.  
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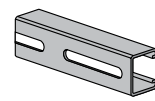
**AS 300**  
Channel  
Size: 1 5/8" x 1 5/8" x 12 GA.  
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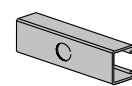
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Channel with  
Elongated Holes  
Size: 1 5/8" x 1 5/8" x 12 GA.  
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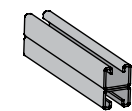
**AS 300 H**  
Channel with Holes  
Size: 1 3/8" x 1 5/8" x 12 GA.  
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**AS 300 S**  
Channel with  
Long Slots  
Size: 1 3/8" x 1 5/8" x 12 GA.  
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**AS 300 KO**  
Channel with  
Knock Out  
Size: 1 3/8" x 1 5/8" x 12 GA.  
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**AS 300 BTB**  
Welded Channel  
Size: 2 3/4" x 1 5/8" x 12 GA.  
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Channel

Channel Nuts  
& Hardware

Pipe & Conduit  
Supports

Klo-Shure

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Angle Fittings &  
Connectors

"Z"  
Supports

Wing  
Fittings

"U"  
Supports

Splice  
Clevises

Post  
Bases

Miscellaneous  
Fittings

Trolleys &  
Accessories

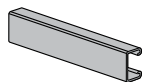
Beam  
Clamps

Brackets

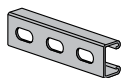
Concrete  
Inserts

End  
Caps

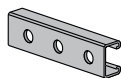
## CHANNELS



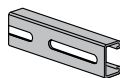
**AS 400**  
Channel  
Size: 1" x 1 5/8" x 12 GA.  
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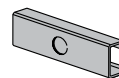
**AS 400 EH**  
Channel with  
Elongated Holes  
Size: 1" x 1 5/8" x 12 GA.  
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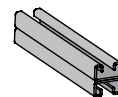
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Channel with Holes  
Size: 1" x 1 5/8" x 12 GA.  
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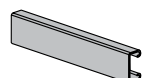
**AS 400 S**  
Channel with  
Long Slots  
Size: 1" x 1 5/8" x 12 GA.  
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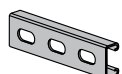
**AS 400 KO**  
Channel with  
Knock Out  
Size: 1" x 1 5/8" x 12 GA.  
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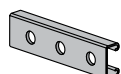
**AS 400 BTB**  
Welded Channel  
Size: 2" x 1 5/8" x 12 GA.  
Two Pcs. AS 400 Welded  
Back-to-Back.  
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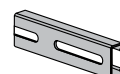
**AS 500**  
Channel  
Size: 1 3/16" x 1 5/8" x 14 GA.  
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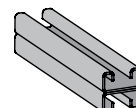
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Channel with  
Elongated Holes  
Size: 1 3/16" x 1 5/8" x 14 GA.  
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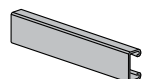
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Channel with Holes  
Size: 1 3/16" x 1 5/8" x 14 GA.  
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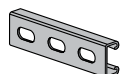
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Channel with  
Long Slots  
Size: 1 3/16" x 1 5/8" x 14 GA.  
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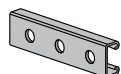
**AS 500 BTB**  
Welded Channel  
Size: 1 5/8" x 1 5/8" x 14 GA.  
Two Pcs. AS 500 Welded  
Back-to-Back.  
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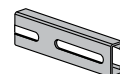
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Channel  
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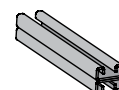
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Channel with  
Elongated Holes  
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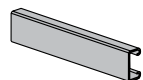
**AS 520 H**  
Channel with Holes  
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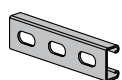
**AS 520 S**  
Channel with  
Long Slots  
Size: 1 3/16" x 1 5/8" x 12 GA.  
Page 45



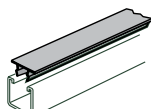
**AS 520 BTB**  
Welded Channel  
Size: 1 5/8" x 1 5/8" x 12 GA.  
Two Pcs. AS 520 Welded  
Back-to-Back.  
Pages 46 - 47



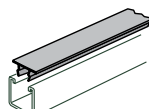
**AS 560**  
Channel  
Size: 1 3/16" x 1 5/8" x 16 GA.  
Pages 48 - 49



**AS 560 EH**  
Channel with  
Elongated Holes  
Size: 1 3/16" x 1 5/8" x 16 GA.  
Page 49

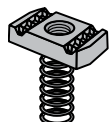


**AS 707**  
Metal Raceway  
Closure Strip  
Size: 1 5/8"  
Page 51

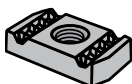


**AS 707P**  
Metal Painted  
Closure Strip  
Size: 1 5/8"  
Page 51

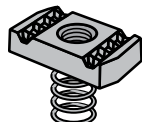
## CHANNEL NUTS



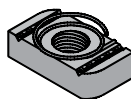
**AS LS**  
Clamping Nut  
with Long Spring  
Page 54



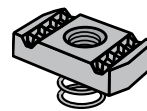
**AS NS**  
Clamping Nut  
without Spring  
Page 54



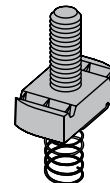
**AS RS**  
Clamping Nut  
with Regular Spring  
Page 54



**AS TG**  
Top Grip Nut with  
Spring on Top  
Page 54

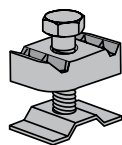


**AS SS**  
Clamping Nut with  
Short Spring  
Page 54



**AS 517**  
Stud Nut with  
RS Spring  
Page 54

## CHANNEL HARDWARE



**AS 3500**  
Seismic Rod  
Stiffener  
Page 55



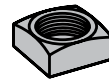
**AS 211**  
Lock Washer  
Page 55



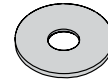
**AS 83**  
Hexagon Nut  
Page 55



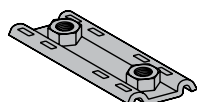
**AS 209**  
Flat Washer  
Page 55



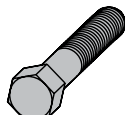
**AS 6108**  
Square Nut  
Page 55



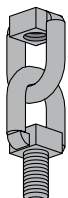
**AS 230**  
Fender Washer  
Page 55



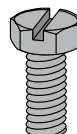
**AS 3281**  
Double Conveyor  
Adjusting Nut  
Page 55



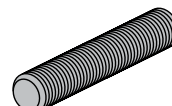
**AS 6024**  
Hex Head Cap Screw  
Page 56



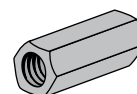
**AS 203**  
Linked Eyelet  
with Stud  
Page 56



**AS 6075**  
Slotted Hex Head  
Machine Screw  
Page 56

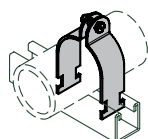


**Fig. 146**  
Continuous  
Threaded Rod  
Page 56

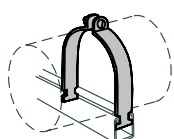


**Fig. 135**  
Rod Coupling  
Page 56

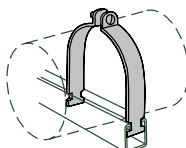
## PIPE & CONDUIT SUPPORT



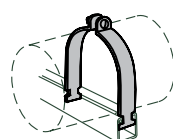
**AS 1000AS**  
EMT Conduit Clamp  
Page 58



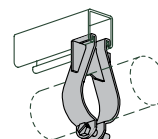
**AS 1300AS**  
Universal Clamp  
Page 58



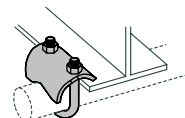
**AS 1100AS**  
Rigid Conduit Clamp  
Page 58



**AS 1200AS**  
O.D. Tubing Clamp  
Page 59



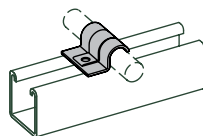
**AS 3138**  
Parallel Pipe Clamp  
Page 60



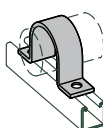
**AS 51**  
Right Angle Pipe  
or Conduit Clamp  
Page 60



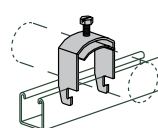
**AS 270**  
Conduit Clamp  
Page 60



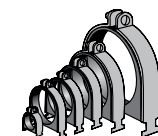
**AS 1450**  
One Hole Clamp  
for O.D. Tubing  
Page 60



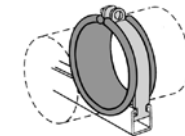
**AS 3126**  
Hold Down Clamp  
Page 61



**AS 3101  
thru AS 3114**  
One Piece Cable &  
Conduit Clamp  
Page 61



**AS 0040D  
thru AS 106P**  
Cushion Clamp Assembly  
Page 62



**AS 3792**  
Cushion Strip  
Page 63



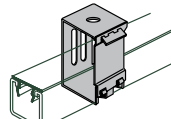
**Fig. 67**  
Pipe or Conduit Hanger  
Size Range: 1/2" thru 6"  
Page 64



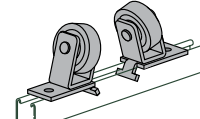
**Fig. 69**  
Swivel Ring Hanger  
Size Range: 1/2" thru 4"  
Page 64



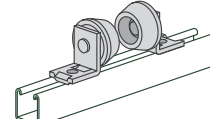
**Fig. 137**  
"U" Bolt with Nuts  
Long Tangent  
Size Range: 1/2" thru 4"  
Page 64



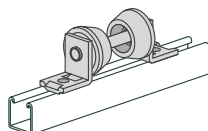
**AS 2631  
& AS 2631D**  
Swing Gate  
Fixture Hanger  
Page 64



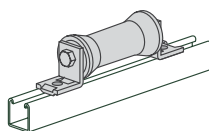
**AS 815**  
Double Roller  
Pipe Support  
Size: 6" to 16" pipe  
Page 65



**AS 1901**  
Pipe Roller Support  
Size: 1/2" to 4" pipe  
Page 65



**AS 1902**  
Pipe Roller Support  
Size: 1" to 8" pipe  
Page 65



**AS 1911**  
Pipe Roller  
Size: 2" to 14" pipe  
Page 65



**Klo-Shure®**  
**Strut-Mounted**  
Insulation Couplings with  
Strut Clamp  
Page 66

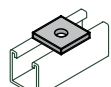


**Klo-Shure®**  
**Strut-Mounted**  
One-Piece Insulation  
Coupling. No Metal Clamps  
Needed.  
Page 67

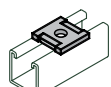


**Klo-Shure®**  
**Strut-Mounted**  
Insulation Couplings for  
Fiberglass Insulation  
Page 68

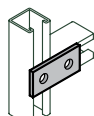
## FLAT PLATES



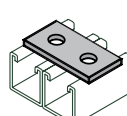
**AS 619**  
Square Washer  
Page 70



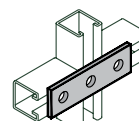
**AS 2504**  
Square Washer with  
Channel Guide  
Page 70



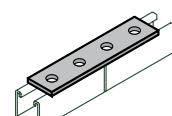
**AS 601**  
2-Hole Splice Plate  
Page 70



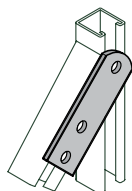
**AS 620**  
2-Hole Connecting Plate  
Page 70



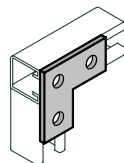
**AS 602**  
3-Hole Splice Plate  
Page 70



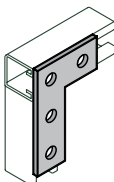
**AS 888**  
4-Hole Splice Plate  
Page 70



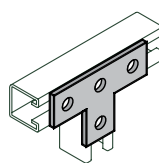
**AS 617**  
3-Hole Swivel Plate  
Page 71



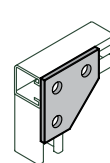
**AS 718**  
Flat Angle Plate  
Page 71



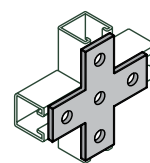
**AS 719**  
4-Hole Corner  
Joiner Plate  
Page 71



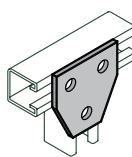
**AS 714**  
Tee Plate  
Page 71



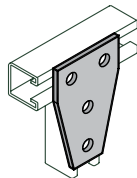
**AS 744**  
Flat Corner Connector  
Page 71



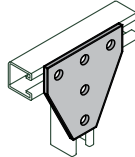
**AS 712**  
Cross Plate  
Page 71



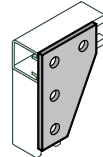
**AS 925**  
Symmetrical 3-Hole  
Joint Connector  
Page 72



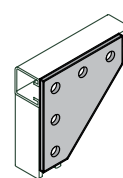
**AS 747**  
Symmetrical 4-Hole  
Joint Connector  
Page 72



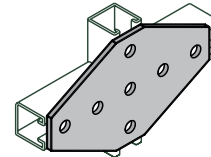
**AS 854**  
5-Hole Flat Connector  
Page 72



**AS 750**  
4-Hole Corner Connector  
Page 72

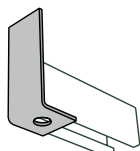


**AS 2190**  
Flat Corner Connector  
Page 72

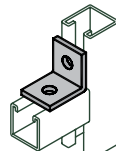


**AS 2112**  
7-Hole Cross Connector  
Page 72

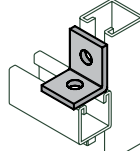
## ANGLE FITTINGS AND CONNECTORS



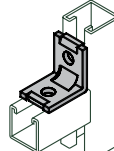
**AS 921**  
1-Hole Angle  
Page 73



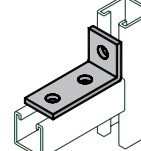
**AS 603**  
2-Hole End Angle  
Page 73



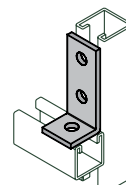
**AS 604**  
2-Hole Corner Angle  
Page 73



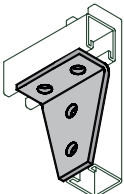
**AS 806**  
2-Hole Angle with  
Impressions on both Legs  
Page 73



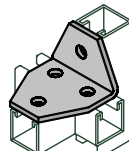
**AS 745**  
3-Hole Corner Angle  
Page 73



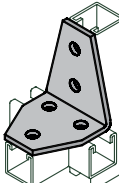
**AS 606**  
3-Hole Corner Angle  
Page 73



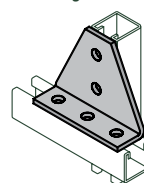
**AS 748**  
4-Hole Joint  
Corner Connector  
Page 74



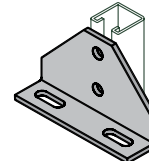
**AS 614**  
4-Hole Joint  
Corner Connector  
Page 74



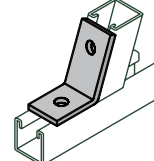
**AS 615**  
5-Hole Shelf  
Joint Angle  
Page 74



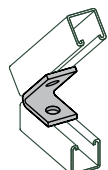
**AS 927**  
5-Hole  
Corner Connector  
Page 74



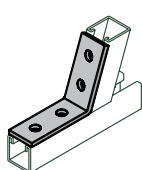
**AS 689**  
Adjustable Double Slotted  
Corner Connector  
Page 74



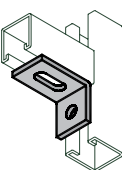
**AS 633**  
2-Hole Open Angle  
Connector  
Page 75



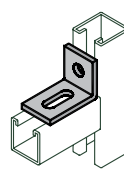
**AS 624**  
2-Hole Closed Angle  
Connector  
Page 75



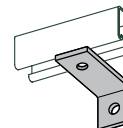
**AS 781**  
4-Hole Open  
Angle Connector  
Page 75



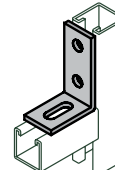
**AS 2520**  
Two Hole  
Adjustment Angle  
Page 75



**AS 2545**  
Slotted 90° Angle  
Page 76

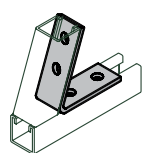


**AS 2144**  
Corner Angle  
Page 76

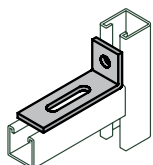


**AS 3049**  
2-Hole Slotted 90°  
Corner Connector  
Page 76

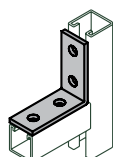
## ANGLE FITTINGS AND CONNECTORS



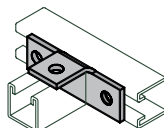
**AS 793**  
4-Hole Closed Angle  
Connector  
Page 76



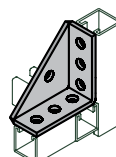
**AS 763 & AS 764**  
Slotted Adjustment  
Corner Angle  
Page 76



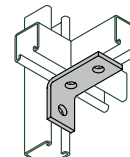
**AS 607**  
4-Hole Corner Angle  
Page 77



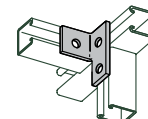
**AS 715**  
"T" Plate - 90° Angle  
Page 77



**AS 3373**  
Universal Angle  
Bracket  
Page 77

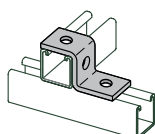


**AS 605**  
3-Hole Corner Angle  
Page 77

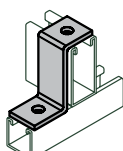


**AS 720**  
RH & LH Angle Plate  
Connector  
Page 77

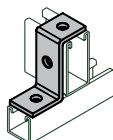
## "Z" SUPPORTS



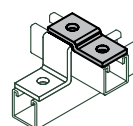
**AS 611**  
"Z" Support  
Page 78



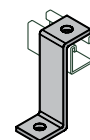
**AS 612, AS 711,  
AS 928, AS 2601**  
"Z" Support  
Page 78



**AS 756**  
"Z" Support  
Page 78

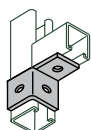


**AS 609**  
2-Hole Offset "Z" Support  
Page 78

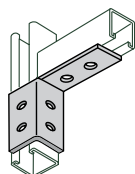


**AS 3060**  
Offset Connector  
Page 78

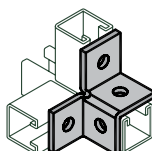
## WING FITTINGS



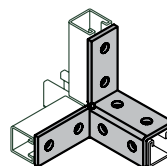
**AS 922**  
RH & LH 2-Hole Single  
Corner Angle Connector  
Page 79



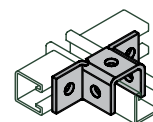
**AS 2128**  
RH & LH 6-Hole  
Corner Connector  
Page 79



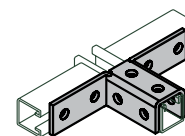
**AS 665**  
4-Hole Double  
Corner Connector  
Page 79



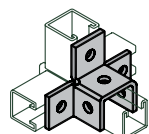
**AS 667**  
8-Hole Double  
Corner Connector  
Page 79



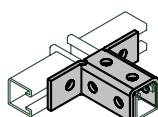
**AS 923**  
5-Hole Two Angle  
Connector  
Page 80



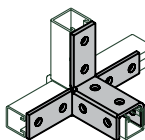
**AS 913**  
10-Hole Two Angle  
Clevis Connector  
Page 80



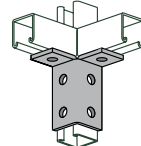
**AS 668**  
6-Hole Three Angle  
Connector  
Page 80



**AS 821**  
8-Hole Double  
Angle Connector  
Page 80

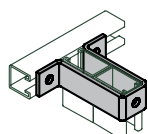


**AS 669**  
12-Hole Three Angle  
Clevis Connector  
Page 80

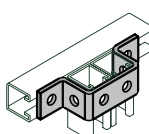


**AS 666**  
6-Hole Double  
Corner Connector  
Page 80

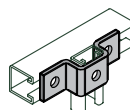
## "U" SUPPORTS



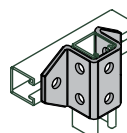
**AS 678**  
"U" Support  
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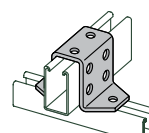
**AS 721**  
"U" Support  
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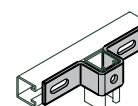
**AS 613, AS 679, AS 710,  
AS 929, AS 978,  
AS 2119, AS 2648**  
"U" Support  
Page 81



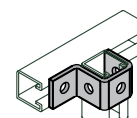
**AS 733**  
6-Hole "U"  
Support  
Page 82



**AS 735**  
8-Hole "U"  
Support  
Page 82



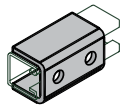
**AS 687**  
Slotted "U"  
Support  
Page 82



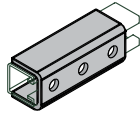
**AS 677**  
Cup Support for  
Standard Single  
Strut  
Page 82



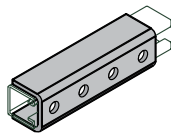
## SPLICE CLEVISES



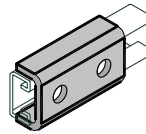
**AS 631**  
2-Hole Splice Clevis  
Page 83



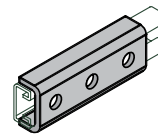
**AS 629**  
3-Hole Splice Clevis  
Size: 5<sup>3</sup>/<sub>8</sub>" x 1<sup>5</sup>/<sub>8</sub>"  
Page 83



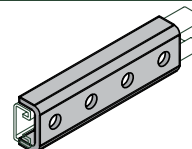
**AS 616**  
4-Hole Splice Clevis  
Size: 7<sup>1</sup>/<sub>4</sub>" x 1<sup>5</sup>/<sub>8</sub>"  
Page 83



**AS 644**  
2-Hole Splice Clevis  
Size: 3<sup>1</sup>/<sub>2</sub>" x 1<sup>3</sup>/<sub>16</sub>"  
Page 83

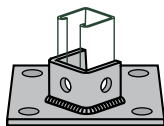


**AS 645**  
3-Hole Splice Clevis  
Size: 5<sup>3</sup>/<sub>8</sub>" x 1<sup>3</sup>/<sub>16</sub>"  
Page 83

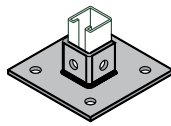


**AS 646**  
4-Hole Splice Clevis  
Size: 7<sup>1</sup>/<sub>4</sub>" x 1<sup>3</sup>/<sub>16</sub>"  
Page 83

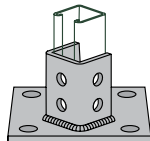
## POST BASES



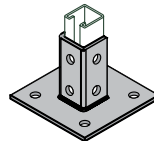
**AS 3013**  
Single Post Base  
Page 84



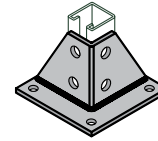
**AS 3013SQ**  
Single Post Base  
Page 84



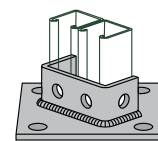
**AS 3033**  
Single Post Base  
Page 84



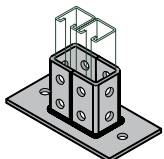
**AS 3033SQ**  
Single Post Base  
Page 84



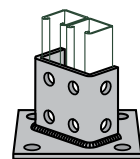
**AS 3040**  
Post Base  
Page 84



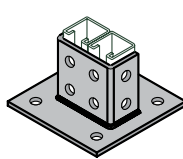
**AS 3029**  
Double Post Base  
Page 85



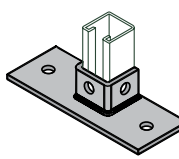
**AS 2064**  
Double Column Post Base  
Page 85



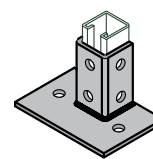
**AS 3064**  
Double Post Base  
Page 85



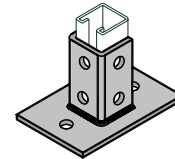
**AS 3064SQ**  
Double Post Base  
Page 85



**AS 3013FL**  
Single Post Base  
Page 86

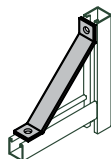


**AS 3025FL**  
Single Post Base  
Page 86

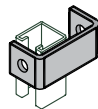


**AS 3025**  
Single Post Base  
Page 86

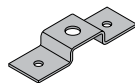
## MISCELLANEOUS FITTINGS



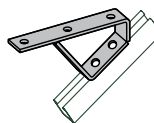
**AS 926**  
Strut Brace  
Page 87



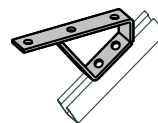
**AS 993**  
Inside Clevis  
Page 87



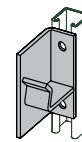
**AS 2560, AS 2561**  
Conduit Connector  
Fitting Assembly  
Page 87



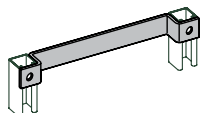
**AS 2422**  
37<sup>1</sup>/<sub>2</sub>° Stair Support  
Page 88



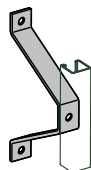
**AS 2421**  
45° Stair Support  
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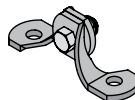
**AS 825**  
RH & LH Pipe Axle  
Support  
Page 88



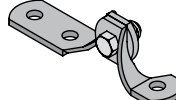
**AS 2401 thru  
AS 2403**  
Ladder Rung  
Page 88



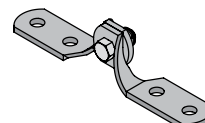
**AS 2404 thru  
AS 2408**  
Wall Ladder Bracket  
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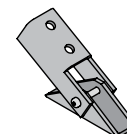
**AS 9402**  
2-Hole Hinge Connector  
Page 89



**AS 9403**  
3-Hole Hinge Connector  
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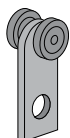


**AS 9404**  
4-Hole Hinge Connector  
Page 89

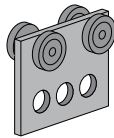


**AS 9400 &  
AS 9401**  
Adjustable Bases  
Page 90

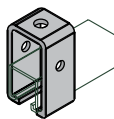
## TROLLEYS AND ACCESSORIES



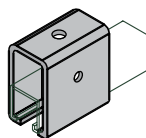
**AS 2521**  
Two Wheel Trolley  
Page 91



**AS 2522**  
Four Wheel Trolley  
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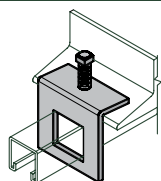


**AS 2528**  
Trolley Beam Standard  
Support  
Page 91

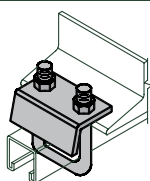


**AS 2528-1**  
Trolley Beam Joint  
Support  
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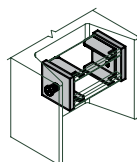
## BEAM CLAMPS



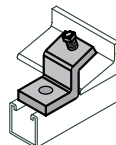
**AS 855**  
Angular "I" Beam Clamp  
Page 94



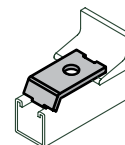
**AS 2651**  
Beam Clamp  
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**AS 2654**  
Column Attachment  
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**AS 685**  
Beam Clamp  
Page 94



**AS 686**  
Beam Clamp  
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**Fig. 86**  
Clamp with Lock Nut  
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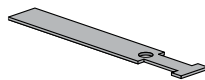
**Fig. 93**  
Top Beam "C" Clamp  
Page 95



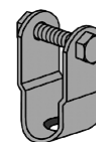
**Fig. 94**  
Top Beam "C" Clamp  
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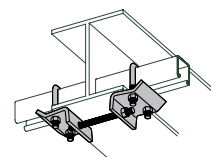
**Fig. 95**  
Clamp with Lock Nut  
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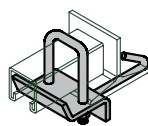
**AS 871**  
Safety Anchor Strap  
Page 95



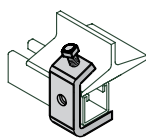
**AS 2623**  
Swivel Adapter  
Page 95



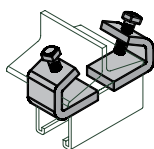
**AS 2657**  
Double "U" Bolt  
Beam Clamp  
Page 96



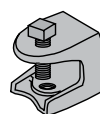
**AS 2656**  
"U" Bolt Beam Clamp  
with Hook  
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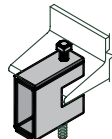
**AS 684**  
Beam Clamp  
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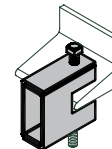
**AS 907, AS 908**  
"I" Beam Clamp  
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**AS 85**  
Rod or Insulator Support  
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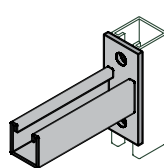


**AS 858**  
Heavy Duty Suspension  
Rod Beam Clamp  
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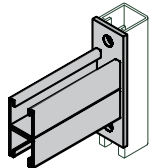


**AS 865**  
Wide Throat Heavy Duty  
Beam Clamp  
Page 97

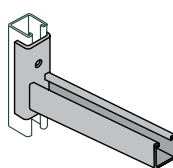
## BRACKETS



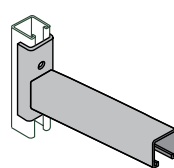
**AS 651**  
Reversible Strut Bracket  
Page 100



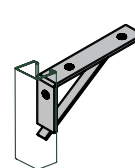
**AS 809**  
Double Channel Bracket  
Page 100



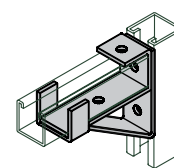
**AS 661 T1**  
Strut Bracket (Slot Up)  
Page 100



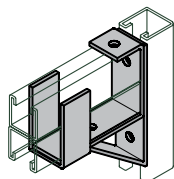
**AS 661 T2**  
Strut Bracket (Slot Down)  
Page 100



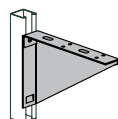
**AS 732**  
Shelf Bracket  
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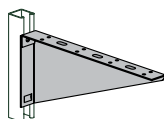
**AS 708**  
Single Channel  
Bracket Support  
Page 101



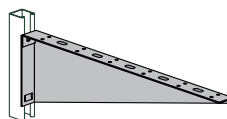
**AS 3164**  
Double Channel  
Bracket Support  
Page 101



**AS 838**  
RH & LH Shelf Bracket  
Size Range: 6" thru 10"  
Page 102

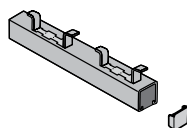


**AS 838**  
RH & LH Shelf Bracket  
Size Range: 12" thru 22"  
Page 102

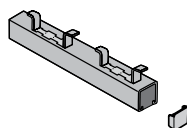


**AS 838**  
RH & LH Shelf Bracket  
Size Range: 24" thru 30"  
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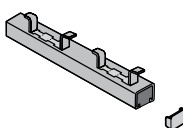
## CONCRETE INSERTS



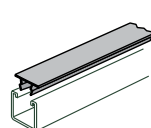
**AS 249**  
Continuous Concrete Insert  
Page 104



**AS 349**  
Continuous Concrete Insert  
Page 105



**AS 449**  
Continuous Concrete Insert  
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**AS 6151**  
Plastic Closure Strip  
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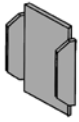


**Fig. 152**  
Screw Concrete Insert  
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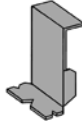


**Fig. 285**  
Light Weight Concrete Insert  
Page 107

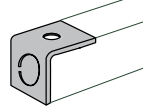
## END CAPS



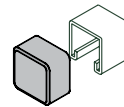
**AS 655, AS 656, AS 901,  
AS 902, AS 930, AS 2580**  
Type "A" End Cap  
Page 108



**AS 652, AS 653, AS 654**  
Type "B" End Cap  
Page 108

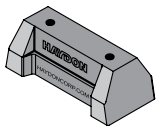


**AS 2511**  
End Cap with Knock Out  
(Conduit End Cap)  
Page 108

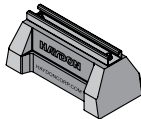


**AS 6153**  
Plastic Red & White Safety End Cap  
Page 108

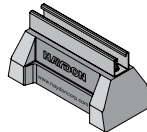
## H-BLOCK ROOFTOP SUPPORT SYSTEM



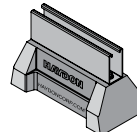
**HBS-Standard  
Base**  
Base Rubber Support -  
Base Only  
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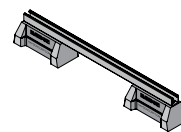
**HBS Series**  
HBS-Support with  $\frac{1}{16}$ "  
H-164 Pre-Galv. Steel  
Channel  
Page 112



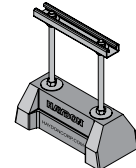
**HBS Series**  
HBS-Support with  $\frac{1}{8}$ "  
H-132 Pre-Galv. Steel  
Channel  
Page 112



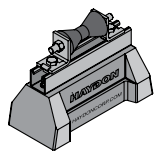
**HBS-6 Series**  
HBS-Support with  $\frac{27}{16}$ "  
H-122 Pre-Galv. Steel  
Channel  
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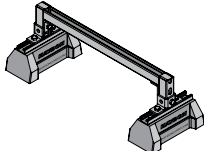
**HBS-CB  
Bridge Series**  
Bridge Length Supports  
with 2 HBS Bases and  
Channel  
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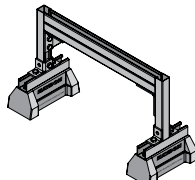
**HBS-CE  
Extension Series**  
Support with Threaded Rod  
Extension and Channel  
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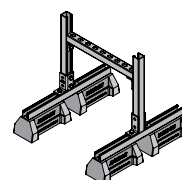
**HBS-R Roller  
Series**  
With  $1\frac{1}{8}$ " H-132 Pre-Galv.  
Steel Channel with Rollers  
Page 116



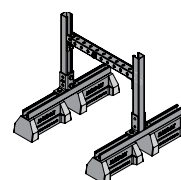
**HBS-CES Series**  
Raised Bridge Length with  
2 HBS Bases  $1\frac{5}{8}$ "  
H-132 Pre-Galv. Steel  
Channel  
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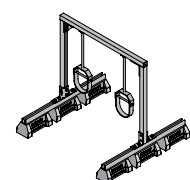
**HBS-CES Series**  
Raised Bridge Length with  
2 HBS Bases  $3\frac{1}{4}$ "  
H-132-A Back-to-Back  
Pre-Galv. Steel Channel  
Page 117



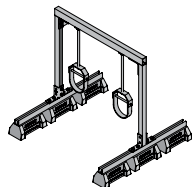
**HBS-DSFW Fixed  
Width Duct  
Support**  
HBS-DS Duct Support  
Series with Fixed Width and  
Adjustable Height  
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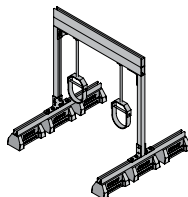
**HBS-DSAW  
Adjustable Duct  
Support**  
HBS-DS Duct Support  
Series with Adjustable  
Width and Height  
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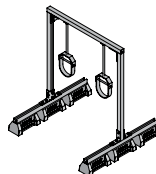
**HBS-PH 36" Light  
Duty Pipe  
Hanger Support**  
Series with H-132PG Top  
Support  
Page 120



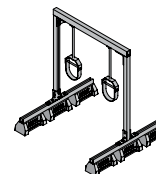
**HBS-PH 36" Medium  
Duty Pipe Hanger  
Support**  
Series with H-122PG or  
H-112PG Top Support  
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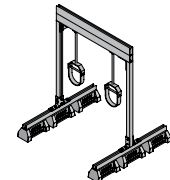
**HBS-PH 36" Heavy  
Duty Pipe Hanger  
Support**  
Series with H-122APG or  
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**HBS-PH 48" Light  
Duty Pipe Hanger  
Support**  
Series with H-132PG Top Support  
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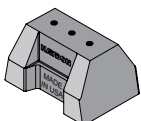


**HBS-PH 48" Medium  
Duty Pipe Hanger  
Support**  
Series with H-122PG or  
H-112PG Top Support  
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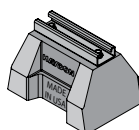


**HBS-PH 48" Heavy  
Duty Pipe Hanger  
Support**  
Series with H-122APG or  
H-112APG Top Support  
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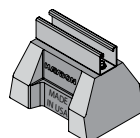
## H-BLOCK MINI ROOFTOP SUPPORT SYSTEM



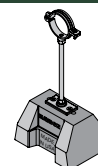
**HBM-Mini Base Only**  
Base Rubber Support - Base Only  
Page 126



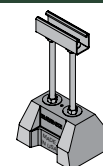
**HBM Series**  
HBM-Support with  $\frac{1}{16}$ " H-164  
Pre-Galv. Steel Channel  
Page 127



**HBM Series**  
HBM-Support with  $\frac{1}{8}$ "  
H-132 Pre-Galv. Steel Channel  
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**HBM-HPC Series**  
HBM-Hinged Pipe Clamp  
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**HBM-CE5  
Extension Series**  
Support with Threaded Rod  
Extension and Channel  
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**ANVIL SHIELDS**



**FIG. 20**  
Strut Shield  
Page 131



**FIG. 21**  
Strut Shield Insulation Cover  
Page 132



**FIG. 30**  
Universal Shield  
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**FIG. 31**  
Universal Shield Clevis Adapter  
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Contents

Channel

Channel Nuts  
& Hardware

Pipe & Conduit  
Supports

Klo-Shure

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Supports

Wing  
Fittings

"U"  
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Miscellaneous  
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Trolleys &  
Accessories

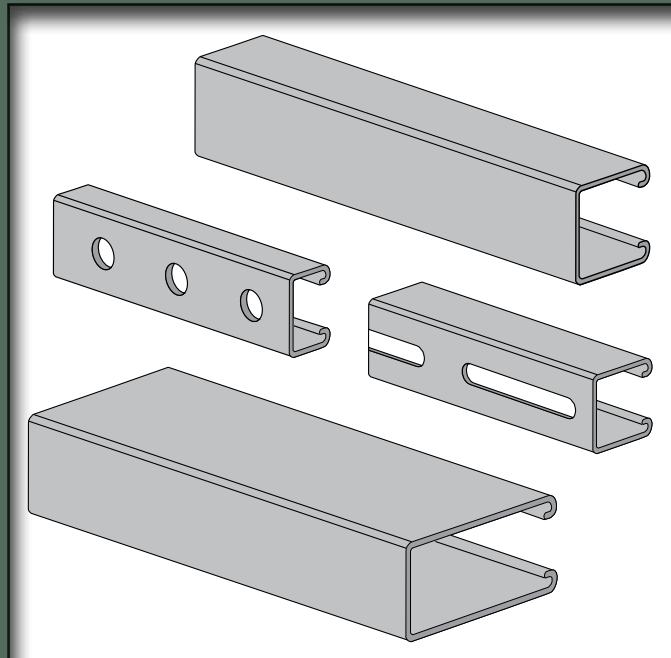
Beam  
Clamps

Brackets

Concrete  
Inserts

End  
Caps





## Specifications

### GENERAL

Anvil-Strut channels are manufactured by a series of forming dies, or rolls, which progressively cold work the strip steel into the desired channel configuration. This method produces a cross section of uniform dimensions within a tolerance of plus or minus 0.015", on outside dimensions.

### WELDING

Channel combinations of two or more elements are spot welded together to form various multiple combinations, see page 51. The spot welds are spaced two or three inches on centers throughout the length of the multiple channel sections.

### LENGTH INFORMATION

Anvil-Strut Channels are produced and stocked in 10' and 20' lengths with a tolerance of  $\pm \frac{1}{8}$ ". Other lengths are available upon request.

### LOADING DATA

1. When calculating load at center of span, multiply load from table by 0.5 and deflection by 0.8.
2. When calculating beam and column loads for aluminum, multiply by 33%.

### MATERIAL

Anvil-Strut channels are produced from prime structural steel covered by the following specifications. (See technical section for additional information)

|                                                          |                   |
|----------------------------------------------------------|-------------------|
| Pre-Galvanized Steel.....                                | ASTM A-653        |
| Plain Steel.....                                         | ASTM A-1011-04-SS |
| Aluminum (Type 6063T6).....                              | ASTM B-221        |
| Stainless Steel (Type 304 & 316) .....                   | ASTM A-240        |
| Other materials and specifications available on request. |                   |

### FINISHES

All Anvil-Strut channels are stocked in pre-galvanized and powder coated Supr-Green. Some sizes are stocked in zinc trivalent chromium, PVC or hot dipped galvanized. (See technical section for additional information)

|                                                      |               |
|------------------------------------------------------|---------------|
| Hot Dipped Galvanized.....                           | ASTM A-123    |
| Zinc Trivalent Chromium .....                        | ASTM B-633-85 |
| Powder Coated Supr-Green .....                       | ASTM B-117    |
| PVC Coating 40 ML Thickness - Available Upon Request |               |



## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

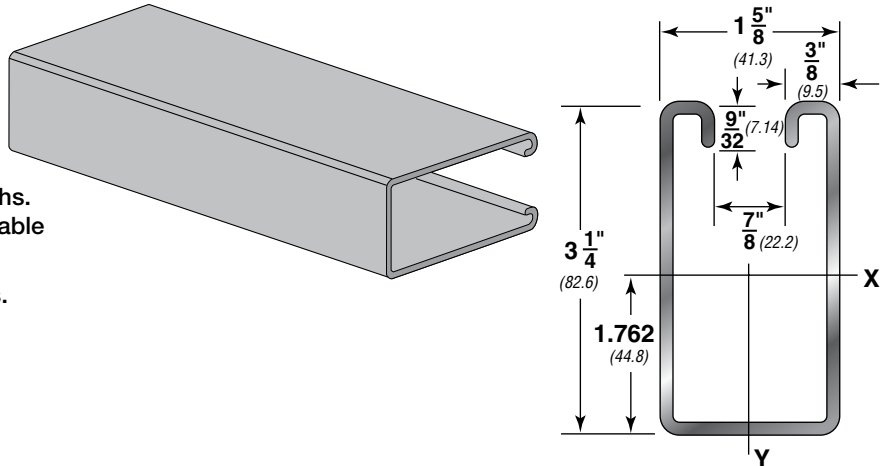
## AS 100

**3 1/4" X 1 5/8"** (82.6 x 41.3mm)

**12 Gauge Channel • wt./100 ft. - 313#**

Stocked in pre-galvanized, plain and powder coated Supr-green, in both 10 and 20 ft. lengths. Other materials, finishes and lengths are available upon request.

See pages 18-19, 51 for welded combinations.



## PROPERTIES OF SECTION

| Catalog No.   | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|---------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|               | Lbs.    | Kg  | Sq. In.         | Sq. CM | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| <b>AS 100</b> | 3.13    | 4.7 | 0.887           | 5.723  | 1.100             | 45.785            | 0.633             | 10.373            | 1.114 | 2.830 | 0.431             | 17.940            | 0.530             | 8.685             | 0.697 | 1.770 |

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

## BEAM & COLUMN LOADS

| Span or Unbraced Height | Static Beam Load (X-X Axis) |                            |                            |                     |                     |                   | Max. Allowable Load at Slot Face | Column Loading Data              |        |        |        |
|-------------------------|-----------------------------|----------------------------|----------------------------|---------------------|---------------------|-------------------|----------------------------------|----------------------------------|--------|--------|--------|
|                         | Max Allowable Uniform Load  | Deflection at Uniform Load | Uniform Load at Deflection |                     |                     |                   |                                  | Max. Column Load Applied at C.G. |        |        |        |
|                         |                             |                            | Span/180 Deflection        | Span/240 Deflection | Span/360 Deflection | Weight of Channel |                                  | k=.65                            | k=.80  | k=1.0  | k=1.2  |
| In                      | Lbs                         | In                         | Lbs                        | Lbs                 | Lbs                 | Lbs               | Lbs                              | Lbs                              | Lbs    | Lbs    | Lbs    |
| 12                      | 10,610                      | 0.01                       | 10,610                     | 10,610              | 10,610              | 3.1               | 6,170                            | 19,600                           | 19,060 | 18,210 | 17,240 |
| 18                      | 7,070                       | 0.02                       | 7,070                      | 7,070               | 7,070               | 4.7               | 5,950                            | 18,320                           | 17,240 | 15,630 | 13,920 |
| 24                      | 5,300                       | 0.03                       | 5,300                      | 5,300               | 5,300               | 6.3               | 5,650                            | 16,720                           | 15,070 | 12,770 | 10,560 |
| 30                      | 4,240                       | 0.05                       | 4,240                      | 4,240               | 4,240               | 7.8               | 5,270                            | 14,920                           | 12,770 | 10,030 | 7,640  |
| 36                      | 3,540                       | 0.07                       | 3,540                      | 3,540               | 3,540               | 9.4               | 4,840                            | 13,060                           | 10,560 | 7,640  | 5,650  |
| 42                      | 3,030                       | 0.09                       | 3,030                      | 3,030               | 3,030               | 11.0              | 4,360                            | 11,230                           | 8,560  | 5,910  | 4,450  |
| 48                      | 2,650                       | 0.12                       | 2,650                      | 2,650               | 2,650               | 12.5              | 3,860                            | 9,530                            | 6,850  | 4,790  | 3,660  |
| 60                      | 2,120                       | 0.18                       | 2,120                      | 2,120               | 1,920               | 15.7              | 3,100                            | 6,680                            | 4,790  | 3,450  | 2,710  |
| 72                      | 1,770                       | 0.26                       | 1,770                      | 1,770               | 1,340               | 18.8              | 2,570                            | 4,980                            | 3,660  | 2,710  | 2,170  |
| 84                      | 1,520                       | 0.36                       | 1,520                      | 1,470               | 980                 | 21.9              | 2,200                            | 3,950                            | 2,960  | 2,240  | 1,820  |
| 96                      | 1,330                       | 0.47                       | 1,330                      | 1,130               | 750                 | 25.0              | 1,930                            | 3,270                            | 2,500  | 1,920  | 1,580  |
| 108                     | 1,180                       | 0.60                       | 1,180                      | 890                 | 590                 | 28.2              | 1,730                            | 2,800                            | 2,170  | 1,690  | 1,390  |
| 120                     | 1,060                       | 0.74                       | 960                        | 720                 | 480                 | 31.3              | 1,560                            | 2,450                            | 1,920  | 1,510  | **     |
| 144                     | 880                         | 1.06                       | 670                        | 500                 | 330                 | 37.6              | 1,320                            | 1,980                            | 1,580  | **     | **     |
| 168                     | 760                         | 1.44                       | 490                        | 370                 | 250                 | 43.8              | 1,150                            | 1,670                            | 1,340  | **     | **     |
| 180                     | 710                         | 1.65                       | 430                        | 320                 | 210                 | 47.0              | **                               | 1,550                            | **     | **     | **     |
| 192                     | 660                         | 1.88                       | 380                        | 280                 | 190                 | 50.1              | **                               | 1,450                            | **     | **     | **     |
| 216                     | 590                         | 2.38                       | 300                        | 220                 | 150                 | 56.3              | **                               | **                               | **     | **     | **     |
| 240                     | 530                         | 2.94                       | 240                        | 180                 | 120                 | 62.6              | **                               | **                               | **     | **     | **     |

# Bearing Load may limit load

\*\* Not recommended - KL/r exceeds 200

### Notes

- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (% holes) by 88%, KO by 82%.

4. Refer to page 52 for reduction factors for unbraced lengths

## LEGEND:

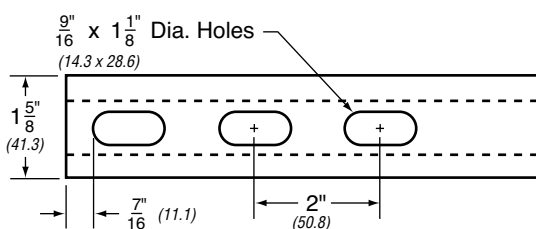
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (SS), Zinc Trivalent Chromium (ZTC) and Hot Dipped Galvanized (HG) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## BEAM & COLUMN LOADS - METRIC

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                               | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                              | 47.2                                | 0.3                              | 47.2                       | 47.2                   | 47.2                   | 1.4                  | 27.4                                      | 87.2                             | 84.8  | 81.0  | 76.7  |
| 457                              | 31.4                                | 0.5                              | 31.4                       | 31.4                   | 31.4                   | 2.1                  | 26.5                                      | 81.5                             | 76.7  | 69.5  | 61.9  |
| 610                              | 23.6                                | 0.8                              | 23.6                       | 23.6                   | 23.6                   | 2.9                  | 25.1                                      | 74.4                             | 67.0  | 56.8  | 47.0  |
| 762                              | 18.9                                | 1.3                              | 18.9                       | 18.9                   | 18.9                   | 3.5                  | 23.4                                      | 66.4                             | 56.8  | 44.6  | 34.0  |
| 914                              | 15.7                                | 1.8                              | 15.7                       | 15.7                   | 15.7                   | 4.3                  | 21.5                                      | 58.1                             | 47.0  | 34.0  | 25.1  |
| 1,067                            | 13.5                                | 2.3                              | 13.5                       | 13.5                   | 13.5                   | 5.0                  | 19.4                                      | 50.0                             | 38.1  | 26.3  | 19.8  |
| 1,219                            | 11.8                                | 3.0                              | 11.8                       | 11.8                   | 11.8                   | 5.7                  | 17.2                                      | 42.4                             | 30.5  | 21.3  | 16.3  |
| 1,524                            | 9.4                                 | 4.6                              | 9.4                        | 9.4                    | 8.5                    | 7.1                  | 13.8                                      | 29.7                             | 21.3  | 15.3  | 12.1  |
| 1,829                            | 7.9                                 | 6.6                              | 7.9                        | 7.9                    | 6.0                    | 8.5                  | 11.4                                      | 22.2                             | 16.3  | 12.1  | 9.7   |
| 2,134                            | 6.8                                 | 9.1                              | 6.8                        | 6.5                    | 4.4                    | 9.9                  | 9.8                                       | 17.6                             | 13.2  | 10.0  | 8.1   |
| 2,438                            | 5.9                                 | 11.9                             | 5.9                        | 5.0                    | 3.3                    | 11.3                 | 8.6                                       | 14.5                             | 11.1  | 8.5   | 7.0   |
| 2,743                            | 5.2                                 | 15.2                             | 5.2                        | 4.0                    | 2.6                    | 12.8                 | 7.7                                       | 12.5                             | 9.7   | 7.5   | 6.2   |
| 3,048                            | 4.7                                 | 18.8                             | 4.3                        | 3.2                    | 2.1                    | 14.2                 | 6.9                                       | 10.9                             | 8.5   | 6.7   | **    |
| 3,658                            | 3.9                                 | 26.9                             | 3.0                        | 2.2                    | 1.5                    | 17.1                 | 5.9                                       | 8.8                              | 7.0   | **    | **    |
| 4,267                            | 3.4                                 | 36.6                             | 2.2                        | 1.6                    | 1.1                    | 19.9                 | 5.1                                       | 7.4                              | 6.0   | **    | **    |
| 4,572                            | 3.2                                 | 41.9                             | 1.9                        | 1.4                    | 0.9                    | 21.3                 | **                                        | 6.9                              | **    | **    | **    |
| 4,877                            | 2.9                                 | 47.8                             | 1.7                        | 1.2                    | 0.8                    | 22.7                 | **                                        | 6.4                              | **    | **    | **    |
| 5,486                            | 2.6                                 | 60.5                             | 1.3                        | 1.0                    | 0.7                    | 25.5                 | **                                        | **                               | **    | **    | **    |
| 6,096                            | 2.4                                 | 74.7                             | 1.1                        | 0.8                    | 0.5                    | 28.4                 | **                                        | **                               | **    | **    | **    |

### AS 100EH PL, GR, PG

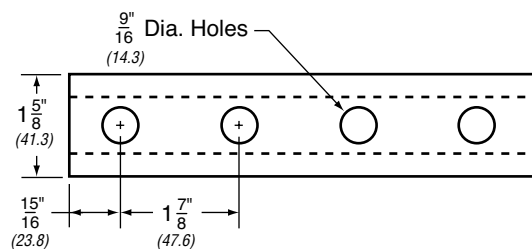
#### WITH ELONGATED HOLES



Wt/100 Ft: 300 Lbs

### AS 100H PL, GR, PG

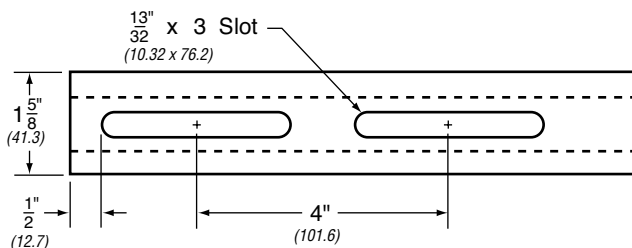
#### WITH HOLES



Wt/100 Ft: 308 Lbs

### AS 100S PL, GR, PG

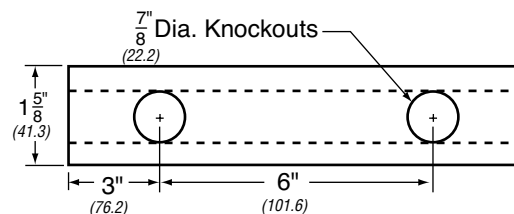
#### WITH LONG SLOTS



Wt/100 Ft: 298 Lbs

### AS 100KO PL, GR, PG

#### WITH KNOCK OUT



Wt/100 Ft: 313 Lbs

## LEGEND:

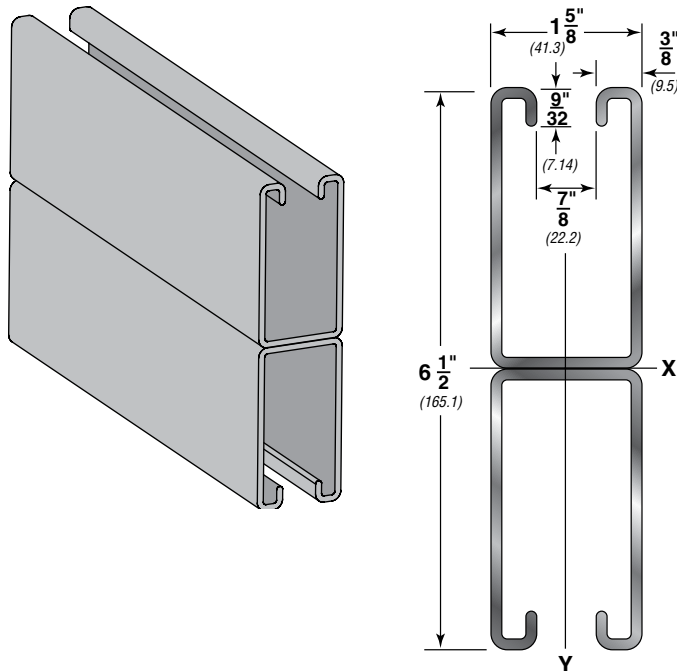
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (SS), Zinc Trivalent Chromium (ZTC) and Hot Dipped Galvanized (HG) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## AS 100 BTB

6½" X 1⅝" (165.1 x 41.3mm)

12 Gauge Back-to-Back • wt./100 ft. - 626#

Stocked in pre-galvanized, plain & powder coated Supr-Green, in both 10 & 20 ft. lengths. Other materials, finishes & lengths are available upon request.



## PROPERTIES OF SECTION

| Catalog No. | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|-------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|             | Lbs.    | Kg  | Sq. In.         | Sq. cm | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| AS 100 BTB  | 6.26    | 9.3 | 1.775           | 11.452 | 6.251             | 260.185           | 1.923             | 31.512            | 1.877 | 4.768 | 0.862             | 35.879            | 1.06              | 17.370            | 0.697 | 1.770 |

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

## BEAM & COLUMN LOADS

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |        |        |        |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|--------|--------|--------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |        |        |        |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80  | k=1.0  | k=1.2  |
| In                               | Lbs                                 | In                               | Lbs                        | Lbs                    | Lbs                    | Lbs                  | Lbs                                       | Lbs                              | Lbs    | Lbs    | Lbs    |
| 12                               | 6,890 *                             | 0.00                             | 6,890 *                    | 6,890 *                | 6,890 *                | 6.3                  | 10,910                                    | 41,100                           | 40,940 | 40,680 | 40,360 |
| 18                               | 6,890 *                             | 0.01                             | 6,890 *                    | 6,890 *                | 6,890 *                | 9.4                  | 10,860                                    | 40,720                           | 40,360 | 39,780 | 39,080 |
| 24                               | 6,890 *                             | 0.02                             | 6,890 *                    | 6,890 *                | 6,890 *                | 12.5                 | 10,780                                    | 40,180                           | 39,560 | 38,550 | 37,360 |
| 30                               | 6,890 *                             | 0.02                             | 6,890 *                    | 6,890 *                | 6,890 *                | 15.7                 | 10,690                                    | 39,500                           | 38,550 | 37,030 | 35,250 |
| 36                               | 6,890 *                             | 0.04                             | 6,890 *                    | 6,890 *                | 6,890 *                | 18.8                 | 10,570                                    | 38,690                           | 37,360 | 35,250 | 32,840 |
| 42                               | 6,890 *                             | 0.05                             | 6,890 *                    | 6,890 *                | 6,890 *                | 21.9                 | 10,440                                    | 37,750                           | 35,990 | 33,260 | 30,200 |
| 48                               | 6,890 *                             | 0.06                             | 6,890 *                    | 6,890 *                | 6,890 *                | 25.0                 | 10,280                                    | 36,700                           | 34,480 | 31,100 | 27,420 |
| 60                               | 6,450                               | 0.10                             | 6,450                      | 6,450                  | 6,450                  | 31.3                 | 9,900                                     | 34,280                           | 31,100 | 26,470 | 21,740 |
| 72                               | 5,370                               | 0.14                             | 5,370                      | 5,370                  | 5,370                  | 37.6                 | 9,440                                     | 31,540                           | 27,420 | 21,740 | 16,370 |
| 84                               | 4,610                               | 0.19                             | 4,610                      | 4,610                  | 4,610                  | 43.8                 | 8,890                                     | 28,590                           | 23,620 | 17,230 | 12,030 |
| 96                               | 4,030                               | 0.25                             | 4,030                      | 4,030                  | 4,030                  | 50.1                 | 8,260                                     | 25,520                           | 19,890 | 13,270 | 9,210  |
| 108                              | 3,580                               | 0.32                             | 3,580                      | 3,580                  | 3,370                  | 56.3                 | 7,550                                     | 22,440                           | 16,370 | 10,480 | 7,280  |
| 120                              | 3,220                               | 0.39                             | 3,220                      | 3,220                  | 2,730                  | 62.6                 | 6,790                                     | 19,440                           | 13,270 | 8,490  | **     |
| 144                              | 2,690                               | 0.57                             | 2,690                      | 2,690                  | 1,900                  | 75.1                 | 5,510                                     | 13,960                           | 9,210  | **     | **     |
| 168                              | 2,300                               | 0.77                             | 2,300                      | 2,090                  | 1,390                  | 87.6                 | 4,520                                     | 10,250                           | 6,770  | **     | **     |
| 180                              | 2,150                               | 0.89                             | 2,150                      | 1,820                  | 1,210                  | 93.9                 | **                                        | 8,930                            | **     | **     | **     |
| 192                              | 2,020                               | 1.01                             | 2,020                      | 1,600                  | 1,070                  | 100.2                | **                                        | 7,850                            | **     | **     | **     |
| 216                              | 1,790                               | 1.27                             | 1,690                      | 1,260                  | 840                    | 112.7                | **                                        | **                               | **     | **     | **     |
| 240                              | 1,610                               | 1.57                             | 1,370                      | 1,020                  | 680                    | 125.2                | **                                        | **                               | **     | **     | **     |

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**BEAM & COLUMN LOADS - METRIC**

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                               | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                              | 30.6 *                              | 0.0                              | 30.6 *                     | 30.6 *                 | 30.6 *                 | 2.9                  | 48.5                                      | 182.8                            | 182.1 | 181.0 | 179.5 |
| 457                              | 30.6 *                              | 0.3                              | 30.6 *                     | 30.6 *                 | 30.6 *                 | 4.3                  | 48.3                                      | 181.1                            | 179.5 | 177.0 | 173.8 |
| 610                              | 30.6 *                              | 0.5                              | 30.6 *                     | 30.6 *                 | 30.6 *                 | 5.7                  | 48.0                                      | 178.7                            | 176.0 | 171.5 | 166.2 |
| 762                              | 30.6 *                              | 0.5                              | 30.6 *                     | 30.6 *                 | 30.6 *                 | 7.1                  | 47.6                                      | 175.7                            | 171.5 | 164.7 | 156.8 |
| 914                              | 30.6 *                              | 1.0                              | 30.6 *                     | 30.6 *                 | 30.6 *                 | 8.5                  | 47.0                                      | 172.1                            | 166.2 | 156.8 | 146.1 |
| 1,067                            | 30.6 *                              | 1.3                              | 30.6 *                     | 30.6 *                 | 30.6 *                 | 9.9                  | 46.4                                      | 167.9                            | 160.1 | 147.9 | 134.3 |
| 1,219                            | 30.6 *                              | 1.5                              | 30.6 *                     | 30.6 *                 | 30.6 *                 | 11.3                 | 45.7                                      | 163.2                            | 153.4 | 138.3 | 122.0 |
| 1,524                            | 28.7                                | 2.5                              | 28.7                       | 28.7                   | 28.7                   | 14.2                 | 44.0                                      | 152.5                            | 138.3 | 117.7 | 96.7  |
| 1,829                            | 23.9                                | 3.6                              | 23.9                       | 23.9                   | 23.9                   | 17.1                 | 42.0                                      | 140.3                            | 122.0 | 96.7  | 72.8  |
| 2,134                            | 20.5                                | 4.8                              | 20.5                       | 20.5                   | 20.5                   | 19.9                 | 39.5                                      | 127.2                            | 105.1 | 76.6  | 53.5  |
| 2,438                            | 17.9                                | 6.4                              | 17.9                       | 17.9                   | 17.9                   | 22.7                 | 36.7                                      | 113.5                            | 88.5  | 59.0  | 41.0  |
| 2,743                            | 15.9                                | 8.1                              | 15.9                       | 15.9                   | 15.0                   | 25.5                 | 33.6                                      | 99.8                             | 72.8  | 46.6  | 32.4  |
| 3,048                            | 14.3                                | 9.9                              | 14.3                       | 14.3                   | 12.1                   | 28.4                 | 30.2                                      | 86.5                             | 59.0  | 37.8  | **    |
| 3,658                            | 12.0                                | 14.5                             | 12.0                       | 12.0                   | 8.5                    | 34.1                 | 24.5                                      | 62.1                             | 41.0  | **    | **    |
| 4,267                            | 10.2                                | 19.6                             | 10.2                       | 9.3                    | 6.2                    | 39.7                 | 20.1                                      | 45.6                             | 30.1  | **    | **    |
| 4,572                            | 9.6                                 | 22.6                             | 9.6                        | 8.1                    | 5.4                    | 42.6                 | **                                        | 39.7                             | **    | **    | **    |
| 4,877                            | 9.0                                 | 25.7                             | 9.0                        | 7.1                    | 4.8                    | 45.4                 | **                                        | 34.9                             | **    | **    | **    |
| 5,486                            | 8.0                                 | 32.3                             | 7.5                        | 5.6                    | 3.7                    | 51.1                 | **                                        | **                               | **    | **    | **    |
| 6,096                            | 7.2                                 | 39.9                             | 6.1                        | 4.5                    | 3.0                    | 56.8                 | **                                        | **                               | **    | **    | **    |

# Bearing Load may limit load

\* Load limited by spot weld shear

\*\* Not recommended - KL/r exceeds 200

**Notes**

1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.

2. Refer to page 52 for reduction factors for unbraced lengths

3. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

4. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (1/16 holes) by 88%, KO by 82%.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

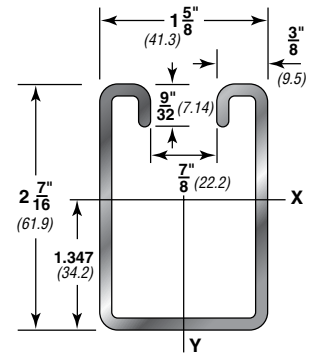
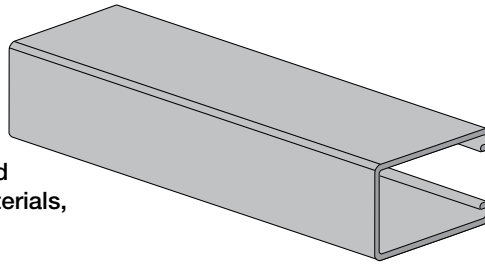
## AS 150

**2<sup>7</sup>/<sub>16</sub>" X 1<sup>5</sup>/<sub>8</sub>" (61.9 x 41.3mm)**

**12 Gauge Channel • wt./100 ft. - 254#**

Stocked in pre-galvanized, plain and powder coated Supr-green, in both 10 and 20 ft. lengths. Other materials, finishes and lengths are available upon request.

See pages 22-23, 51 for welded combinations.



## PROPERTIES OF SECTION

| Catalog No.   | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|---------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|               | Lbs.    | Kg  | Sq. In.         | Sq. CM | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| <b>AS 150</b> | 2.54    | 3.8 | 0.720           | 4.645  | 0.525             | 21.852            | 0.396             | 6.489             | 0.854 | 2.169 | 0.334             | 13.902            | 0.411             | 6.735             | 0.681 | 1.730 |

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

## BEAM & COLUMN LOADS

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |        |        |        |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|--------|--------|--------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |        |        |        |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80  | k=1.0  | k=1.2  |
| In                               | Lbs                                 | In                               | Lbs                        | Lbs                    | Lbs                    | Lbs                  | Lbs                                       | Lbs                              | Lbs    | Lbs    | Lbs    |
| 12                               | 6,640                               | 0.01                             | 6,640                      | 6,640                  | 6,640                  | 2.5                  | 5,050                                     | 15,940                           | 15,530 | 14,880 | 14,140 |
| 18                               | 4,430                               | 0.02                             | 4,430                      | 4,430                  | 4,430                  | 3.8                  | 4,870                                     | 14,970                           | 14,140 | 12,920 | 11,640 |
| 24                               | 3,320                               | 0.04                             | 3,320                      | 3,320                  | 3,320                  | 5.1                  | 4,630                                     | 13,750                           | 12,500 | 10,790 | 9,160  |
| 30                               | 2,660                               | 0.06                             | 2,660                      | 2,660                  | 2,660                  | 6.4                  | 4,350                                     | 12,390                           | 10,790 | 8,770  | 7,020  |
| 36                               | 2,210                               | 0.09                             | 2,210                      | 2,210                  | 2,210                  | 7.6                  | 4,030                                     | 11,000                           | 9,160  | 7,020  | 5,360  |
| 42                               | 1,900                               | 0.12                             | 1,900                      | 1,900                  | 1,870                  | 8.9                  | 3,700                                     | 9,650                            | 7,680  | 5,590  | 4,320  |
| 48                               | 1,660                               | 0.15                             | 1,660                      | 1,660                  | 1,430                  | 10.2                 | 3,350                                     | 8,400                            | 6,390  | 4,620  | 3,630  |
| 60                               | 1,330                               | 0.24                             | 1,330                      | 1,330                  | 920                    | 12.7                 | 2,770                                     | 6,240                            | 4,620  | 3,450  | 2,770  |
| 72                               | 1,110                               | 0.35                             | 1,110                      | 960                    | 640                    | 15.2                 | 2,360                                     | 4,790                            | 3,630  | 2,770  | 2,260  |
| 84                               | 950                                 | 0.47                             | 940                        | 700                    | 470                    | 17.8                 | 2,070                                     | 3,890                            | 3,010  | 2,330  | 1,910  |
| 96                               | 830                                 | 0.62                             | 720                        | 540                    | 360                    | 20.3                 | 1,850                                     | 3,290                            | 2,580  | 2,020  | 1,650  |
| 108                              | 740                                 | 0.78                             | 570                        | 420                    | 280                    | 22.9                 | 1,670                                     | 2,860                            | 2,260  | 1,770  | 1,440  |
| 120                              | 660                                 | 0.97                             | 460                        | 340                    | 230                    | 25.4                 | 1,520                                     | 2,530                            | 2,020  | 1,580  | **     |
| 144                              | 550                                 | 1.39                             | 320                        | 240                    | 160                    | 30.5                 | 1,290                                     | 2,070                            | 1,650  | **     | **     |
| 168                              | 470                                 | 1.89                             | 230                        | 180                    | 120                    | 35.6                 | 1,110                                     | 1,750                            | 1,380  | **     | **     |
| 180                              | 440                                 | 2.17                             | 200                        | 150                    | 100                    | 38.1                 | **                                        | 1,620                            | **     | **     | **     |
| 192                              | 420                                 | 2.47                             | 180                        | 130                    | 90                     | 40.6                 | **                                        | 1,510                            | **     | **     | **     |
| 216                              | 370                                 | 3.13                             | 140                        | 110                    | 70                     | 45.7                 | **                                        | **                               | **     | **     | **     |
| 240                              | 330                                 | 3.86                             | 110                        | 90                     | 60                     | 50.8                 | **                                        | **                               | **     | **     | **     |

# Bearing Load may limit load

\*\* Not recommended - KL/r exceeds 200

### Notes

- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

- The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (% holes) by 88%, KO by 82%.

- Refer to page 52 for reduction factors for unbraced lengths

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

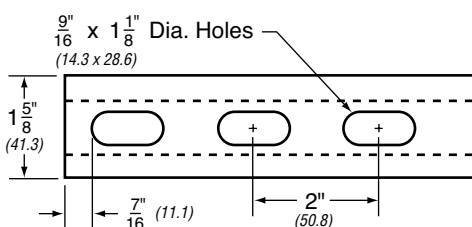
## BEAM & COLUMN LOADS - METRIC

| Span or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|-------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                               | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                               |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
|                               |                                     |                                  |                            |                        |                        |                      |                                           |                                  |       |       |       |
| mm                            | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                           | 29.5                                | 0.3                              | 29.5                       | 29.5                   | 29.5                   | 1.1                  | 22.5                                      | 70.9                             | 69.1  | 66.2  | 62.9  |
| 457                           | 19.7                                | 0.5                              | 19.7                       | 19.7                   | 19.7                   | 1.7                  | 21.7                                      | 66.6                             | 62.9  | 57.5  | 51.8  |
| 610                           | 14.8                                | 1.0                              | 14.8                       | 14.8                   | 14.8                   | 2.3                  | 20.6                                      | 61.2                             | 55.6  | 48.0  | 40.7  |
| 762                           | 11.8                                | 1.5                              | 11.8                       | 11.8                   | 11.8                   | 2.9                  | 19.3                                      | 55.1                             | 48.0  | 39.0  | 31.2  |
| 914                           | 9.8                                 | 2.3                              | 9.8                        | 9.8                    | 9.8                    | 3.4                  | 17.9                                      | 48.9                             | 40.7  | 31.2  | 23.8  |
| 1,067                         | 8.5                                 | 3.0                              | 8.5                        | 8.5                    | 8.3                    | 4.0                  | 16.5                                      | 42.9                             | 34.2  | 24.9  | 19.2  |
| 1,219                         | 7.4                                 | 3.8                              | 7.4                        | 7.4                    | 6.4                    | 4.6                  | 14.9                                      | 37.4                             | 28.4  | 20.6  | 16.1  |
| 1,524                         | 5.9                                 | 6.1                              | 5.9                        | 5.9                    | 4.1                    | 5.8                  | 12.3                                      | 27.8                             | 20.6  | 15.3  | 12.3  |
| 1,829                         | 4.9                                 | 8.9                              | 4.9                        | 4.3                    | 2.8                    | 6.9                  | 10.5                                      | 21.3                             | 16.1  | 12.3  | 10.1  |
| 2,134                         | 4.2                                 | 11.9                             | 4.2                        | 3.1                    | 2.1                    | 8.1                  | 9.2                                       | 17.3                             | 13.4  | 10.4  | 8.5   |
| 2,438                         | 3.7                                 | 15.7                             | 3.2                        | 2.4                    | 1.6                    | 9.2                  | 8.2                                       | 14.6                             | 11.5  | 9.0   | 7.3   |
| 2,743                         | 3.3                                 | 19.8                             | 2.5                        | 1.9                    | 1.2                    | 10.4                 | 7.4                                       | 12.7                             | 10.1  | 7.9   | 6.4   |
| 3,048                         | 2.9                                 | 24.6                             | 2.0                        | 1.5                    | 1.0                    | 11.5                 | 6.8                                       | 11.3                             | 9.0   | 7.0   | **    |
| 3,658                         | 2.4                                 | 35.3                             | 1.4                        | 1.1                    | 0.7                    | 13.8                 | 5.7                                       | 9.2                              | 7.3   | **    | **    |
| 4,267                         | 2.1                                 | 48.0                             | 1.0                        | 0.8                    | 0.5                    | 16.1                 | 4.9                                       | 7.8                              | 6.1   | **    | **    |
| 4,572                         | 2.0                                 | 55.1                             | 0.9                        | 0.7                    | 0.4                    | 17.3                 | **                                        | 7.2                              | **    | **    | **    |
| 4,877                         | 1.9                                 | 62.7                             | 0.8                        | 0.6                    | 0.4                    | 18.4                 | **                                        | 6.7                              | **    | **    | **    |
| 5,486                         | 1.6                                 | 79.5                             | 0.6                        | 0.5                    | 0.3                    | 20.7                 | **                                        | **                               | **    | **    | **    |
| 6,096                         | 1.5                                 | 98.0                             | 0.5                        | 0.4                    | 0.3                    | 23.0                 | **                                        | **                               | **    | **    | **    |

**AS 150EH**

**PL, GR, PG**

### WITH ELONGATED HOLES

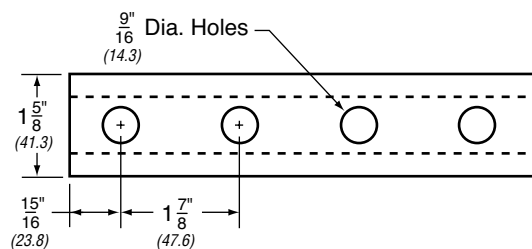


Wt/100 Ft: 249 Lbs

**AS 150H**

**PL, GR, PG**

### WITH HOLES

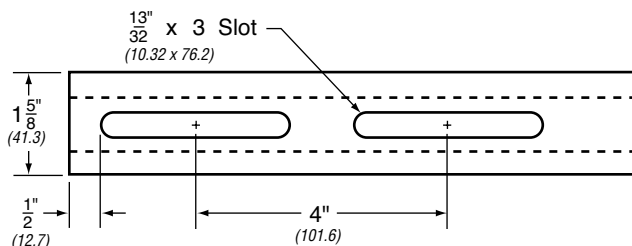


Wt/100 Ft: 249 Lbs

**AS 150S**

**PL, GR, PG**

### WITH LONG SLOTS

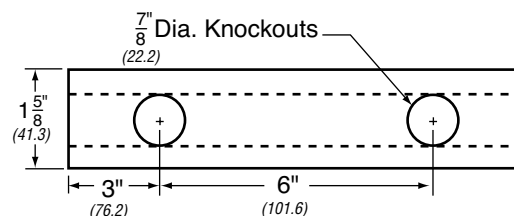


Wt/100 Ft: 239 Lbs

**AS 150KO**

**PL, GR, PG**

### WITH KNOCK OUT



Wt/100 Ft: 254 Lbs



## LEGEND:

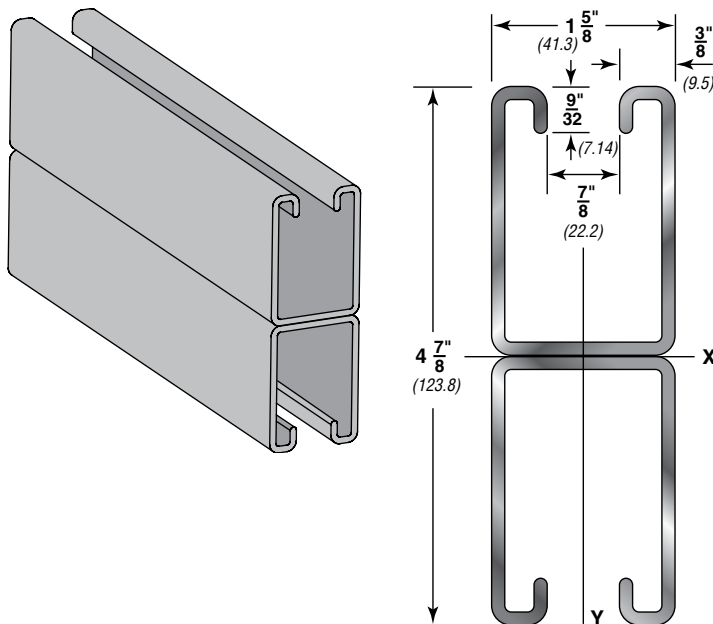
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (SS), Zinc Trivalent Chromium (ZTC) and Hot Dipped Galvanized (HG) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## AS 150 BTB

4<sup>7</sup>/<sub>8</sub>" X 1<sup>5</sup>/<sub>8</sub>" (123.8 x 41.3mm)

12 Gauge Back-to-Back • wt./100 ft. - 508#

Stocked in pre-galvanized, plain & powder coated Supr-Green, in both 10 & 20 ft. lengths. Other materials, finishes & lengths are available upon request.



## PROPERTIES OF SECTION

| Catalog No. | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|-------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|             | Lbs.    | Kg  | Sq. In.         | Sq. cm | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| AS 150 BTB  | 5.08    | 7.6 | 1.439           | 9.284  | 2.832             | 117.876           | 1.162             | 19.042            | 1.403 | 3.564 | 0.667             | 27.763            | 0.82              | 13.437            | 0.681 | 1.730 |

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

## BEAM & COLUMN LOADS

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |        |        |        |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|--------|--------|--------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |        |        |        |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80  | k=1.0  | k=1.2  |
| In                               | Lbs                                 | In                               | Lbs                        | Lbs                    | Lbs                    | Lbs                  | Lbs                                       | Lbs                              | Lbs    | Lbs    | Lbs    |
| 12                               | 5,220 *                             | 0.01                             | 5,220 *                    | 5,220 *                | 5,220 *                | 5.1                  | 8,800                                     | 33,310                           | 33,180 | 32,950 | 32,680 |
| 18                               | 5,220 *                             | 0.01                             | 5,220 *                    | 5,220 *                | 5,220 *                | 7.6                  | 8,750                                     | 32,980                           | 32,680 | 32,190 | 31,600 |
| 24                               | 5,220 *                             | 0.02                             | 5,220 *                    | 5,220 *                | 5,220 *                | 10.2                 | 8,680                                     | 32,530                           | 32,000 | 31,150 | 30,140 |
| 30                               | 5,220 *                             | 0.03                             | 5,220 *                    | 5,220 *                | 5,220 *                | 12.7                 | 8,590                                     | 31,950                           | 31,150 | 29,860 | 28,360 |
| 36                               | 5,220 *                             | 0.05                             | 5,220 *                    | 5,220 *                | 5,220 *                | 15.2                 | 8,480                                     | 31,270                           | 30,140 | 28,360 | 26,330 |
| 42                               | 5,220 *                             | 0.06                             | 5,220 *                    | 5,220 *                | 5,220 *                | 17.8                 | 8,350                                     | 30,470                           | 28,980 | 26,680 | 24,120 |
| 48                               | 4,870                               | 0.08                             | 4,870                      | 4,870                  | 4,870                  | 20.3                 | 8,200                                     | 29,580                           | 27,710 | 24,870 | 21,790 |
| 60                               | 3,900                               | 0.13                             | 3,900                      | 3,900                  | 3,900                  | 25.4                 | 7,860                                     | 27,540                           | 24,870 | 21,010 | 17,090 |
| 72                               | 3,250                               | 0.19                             | 3,250                      | 3,250                  | 3,250                  | 30.5                 | 7,440                                     | 25,240                           | 21,790 | 17,090 | 12,670 |
| 84                               | 2,780                               | 0.26                             | 2,780                      | 2,780                  | 2,530                  | 35.6                 | 6,960                                     | 22,770                           | 18,650 | 13,390 | 9,310  |
| 96                               | 2,440                               | 0.34                             | 2,440                      | 2,440                  | 1,930                  | 40.6                 | 6,420                                     | 20,220                           | 15,570 | 10,270 | 7,130  |
| 108                              | 2,160                               | 0.43                             | 2,160                      | 2,160                  | 1,530                  | 45.7                 | 5,820                                     | 17,670                           | 12,670 | 8,110  | 5,630  |
| 120                              | 1,950                               | 0.52                             | 1,950                      | 1,860                  | 1,240                  | 50.8                 | 5,230                                     | 15,200                           | 10,270 | 6,570  | **     |
| 144                              | 1,620                               | 0.76                             | 1,620                      | 1,290                  | 860                    | 61.0                 | 4,230                                     | 10,800                           | 7,130  | **     | **     |
| 168                              | 1,390                               | 1.03                             | 1,260                      | 950                    | 630                    | 71.1                 | 3,470                                     | 7,930                            | 5,240  | **     | **     |
| 180                              | 1,300                               | 1.18                             | 1,100                      | 830                    | 550                    | 76.2                 | **                                        | 6,910                            | **     | **     | **     |
| 192                              | 1,220                               | 1.34                             | 970                        | 730                    | 480                    | 81.3                 | **                                        | 6,070                            | **     | **     | **     |
| 216                              | 1,080                               | 1.70                             | 760                        | 570                    | 380                    | 91.4                 | **                                        | **                               | **     | **     | **     |
| 240                              | 970                                 | 2.10                             | 620                        | 460                    | 310                    | 101.6                | **                                        | **                               | **     | **     | **     |

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## BEAM & COLUMN LOADS - METRIC

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                               | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                              | 23.2 *                              | 0.3                              | 23.2 *                     | 23.2 *                 | 23.2 *                 | 2.3                  | 39.1                                      | 148.2                            | 147.6 | 146.6 | 145.4 |
| 457                              | 23.2 *                              | 0.3                              | 23.2 *                     | 23.2 *                 | 23.2 *                 | 3.4                  | 38.9                                      | 146.7                            | 145.4 | 143.2 | 140.6 |
| 610                              | 23.2 *                              | 0.5                              | 23.2 *                     | 23.2 *                 | 23.2 *                 | 4.6                  | 38.6                                      | 144.7                            | 142.3 | 138.6 | 134.1 |
| 762                              | 23.2 *                              | 0.8                              | 23.2 *                     | 23.2 *                 | 23.2 *                 | 5.8                  | 38.2                                      | 142.1                            | 138.6 | 132.8 | 126.2 |
| 914                              | 23.2 *                              | 1.3                              | 23.2 *                     | 23.2 *                 | 23.2 *                 | 6.9                  | 37.7                                      | 139.1                            | 134.1 | 126.2 | 117.1 |
| 1,067                            | 23.2 *                              | 1.5                              | 23.2 *                     | 23.2 *                 | 23.2 *                 | 8.1                  | 37.1                                      | 135.5                            | 128.9 | 118.7 | 107.3 |
| 1,219                            | 21.7                                | 2.0                              | 21.7                       | 21.7                   | 21.7                   | 9.2                  | 36.5                                      | 131.6                            | 123.3 | 110.6 | 96.9  |
| 1,524                            | 17.3                                | 3.3                              | 17.3                       | 17.3                   | 17.3                   | 11.5                 | 35.0                                      | 122.5                            | 110.6 | 93.5  | 76.0  |
| 1,829                            | 14.5                                | 4.8                              | 14.5                       | 14.5                   | 14.5                   | 13.8                 | 33.1                                      | 112.3                            | 96.9  | 76.0  | 56.4  |
| 2,134                            | 12.4                                | 6.6                              | 12.4                       | 12.4                   | 11.3                   | 16.1                 | 31.0                                      | 101.3                            | 83.0  | 59.6  | 41.4  |
| 2,438                            | 10.9                                | 8.6                              | 10.9                       | 10.9                   | 8.6                    | 18.4                 | 28.6                                      | 89.9                             | 69.3  | 45.7  | 31.7  |
| 2,743                            | 9.6                                 | 10.9                             | 9.6                        | 9.6                    | 6.8                    | 20.7                 | 25.9                                      | 78.6                             | 56.4  | 36.1  | 25.0  |
| 3,048                            | 8.7                                 | 13.2                             | 8.7                        | 8.3                    | 5.5                    | 23.0                 | 23.3                                      | 67.6                             | 45.7  | 29.2  | **    |
| 3,658                            | 7.2                                 | 19.3                             | 7.2                        | 5.7                    | 3.8                    | 27.7                 | 18.8                                      | 48.0                             | 31.7  | **    | **    |
| 4,267                            | 6.2                                 | 26.2                             | 5.6                        | 4.2                    | 2.8                    | 32.3                 | 15.4                                      | 35.3                             | 23.3  | **    | **    |
| 4,572                            | 5.8                                 | 30.0                             | 4.9                        | 3.7                    | 2.4                    | 34.6                 | **                                        | 30.7                             | **    | **    | **    |
| 4,877                            | 5.4                                 | 34.0                             | 4.3                        | 3.2                    | 2.1                    | 36.9                 | **                                        | 27.0                             | **    | **    | **    |
| 5,486                            | 4.8                                 | 43.2                             | 3.4                        | 2.5                    | 1.7                    | 41.5                 | **                                        | **                               | **    | **    | **    |
| 6,096                            | 4.3                                 | 53.3                             | 2.8                        | 2.0                    | 1.4                    | 46.1                 | **                                        | **                               | **    | **    | **    |

# Bearing Load may limit load

\* Load limited by spot weld shear

\*\* Not recommended - KL/r exceeds 200

### Notes

- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Refer to page 52 for reduction factors for unbraced lengths

3. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

4. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (1/16 holes) by 88%, KO by 82%.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

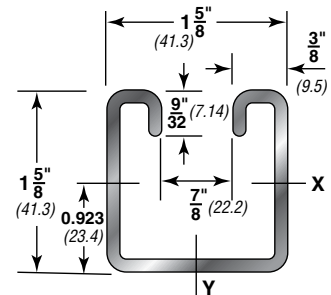
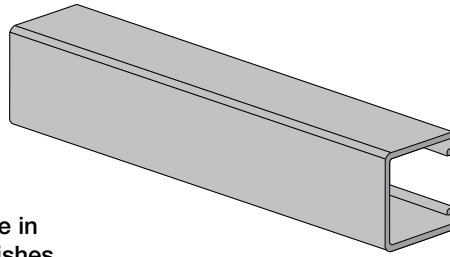
## AS 200

**1<sup>5</sup>/<sub>8</sub>" X 1<sup>5</sup>/<sub>8</sub>" (41.3 x 41.3mm)**

**12 Gauge Channel • wt./100 ft. - 194#**

Stocked in pre-galvanized, plain, powder coated Supr-Green, zinc trivalent chromium, and hot dipped galvanized, in 10 & 20 ft. lengths. Note: Also available in Stainless Steel 304 & 316 Alloys. Other materials, finishes & lengths are available upon request.

See pages 26-27, 51 for welded combinations.



## PROPERTIES OF SECTION

| Catalog No.   | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|---------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|               | Lbs.    | Kg  | Sq. In.         | Sq. CM | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| <b>AS 200</b> | 1.94    | 2.9 | 0.552           | 3.561  | 0.188             | 7.825             | 0.208             | 3.409             | 0.584 | 1.483 | 0.236             | 9.823             | 0.290             | 4.752             | 0.654 | 1.661 |

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

## BEAM & COLUMN LOADS

| Span or Unbraced Height | Static Beam Load (X-X Axis) |                            |                            |                     |                     |                   | Max. Allowable Load at Slot Face | Column Loading Data              |        |        |        |
|-------------------------|-----------------------------|----------------------------|----------------------------|---------------------|---------------------|-------------------|----------------------------------|----------------------------------|--------|--------|--------|
|                         | Max Allowable Uniform Load  | Deflection at Uniform Load | Uniform Load at Deflection |                     |                     |                   |                                  | Max. Column Load Applied at C.G. |        |        |        |
|                         |                             |                            | Span/180 Deflection        | Span/240 Deflection | Span/360 Deflection | Weight of Channel |                                  | k=.65                            | k=.80  | k=1.0  | k=1.2  |
| In                      | Lbs                         | In                         | Lbs                        | Lbs                 | Lbs                 | Lbs               | Lbs                              | Lbs                              | Lbs    | Lbs    | Lbs    |
| 12                      | 3,480                       | 0.01                       | 3,480                      | 3,480               | 3,480               | 1.9               | 3,850                            | 12,240                           | 11,940 | 11,480 | 10,960 |
| 18                      | 2,320                       | 0.03                       | 2,320                      | 2,320               | 2,320               | 2.9               | 3,710                            | 11,540                           | 10,960 | 10,130 | 9,290  |
| 24                      | 1,740                       | 0.06                       | 1,740                      | 1,740               | 1,740               | 3.9               | 3,530                            | 10,690                           | 9,850  | 8,740  | 7,710  |
| 30                      | 1,390                       | 0.09                       | 1,390                      | 1,390               | 1,310               | 4.9               | 3,330                            | 9,780                            | 8,740  | 7,470  | 6,380  |
| 36                      | 1,160                       | 0.13                       | 1,160                      | 1,160               | 910                 | 5.8               | 3,120                            | 8,880                            | 7,710  | 6,380  | 5,310  |
| 42                      | 990                         | 0.17                       | 990                        | 990                 | 670                 | 6.8               | 2,910                            | 8,020                            | 6,800  | 5,470  | 4,430  |
| 48                      | 870                         | 0.23                       | 870                        | 770                 | 510                 | 7.8               | 2,710                            | 7,240                            | 6,000  | 4,690  | 3,810  |
| 60                      | 700                         | 0.35                       | 660                        | 490                 | 330                 | 9.7               | 2,340                            | 5,910                            | 4,690  | 3,630  | 2,960  |
| 72                      | 580                         | 0.51                       | 460                        | 340                 | 230                 | 11.6              | 2,040                            | 4,840                            | 3,810  | 2,960  | 2,400  |
| 84                      | 500                         | 0.69                       | 340                        | 250                 | 170                 | 13.6              | 1,800                            | 4,040                            | 3,200  | 2,480  | 1,980  |
| 96                      | 430                         | 0.90                       | 260                        | 190                 | 130                 | 15.5              | 1,600                            | 3,480                            | 2,750  | 2,110  | 1,670  |
| 108                     | 390                         | 1.14                       | 200                        | 150                 | 100                 | 17.5              | 1,440                            | 3,050                            | 2,400  | 1,820  | **     |
| 120                     | 350                         | 1.41                       | 160                        | 120                 | 80                  | 19.4              | 1,290                            | 2,700                            | 2,110  | **     | **     |
| 144                     | 290                         | 2.03                       | 110                        | 90                  | 60                  | 23.3              | 1,060                            | 2,180                            | 1,670  | **     | **     |
| 168                     | 250                         | 2.77                       | 80                         | 60                  | 40                  | 27.2              | **                               | 1,790                            | **     | **     | **     |
| 180                     | 230                         | 3.18                       | 70                         | 50                  | 40                  | 29.1              | **                               | **                               | **     | **     | **     |
| 192                     | 220                         | 3.61                       | 60                         | 50                  | NR                  | 31.0              | **                               | **                               | **     | **     | **     |
| 216                     | 190                         | 4.57                       | 50                         | 40                  | NR                  | 34.9              | **                               | **                               | **     | **     | **     |
| 240                     | 170                         | 5.65                       | 40                         | NR                  | NR                  | 38.8              | **                               | **                               | **     | **     | **     |

# Bearing Load may limit load

\*\* Not recommended - KL/r exceeds 200

### Notes

- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

- The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%,  
H (% holes) by 88%,  
KO by 82%.

S by 90%,  
H3 (% holes) by 88%

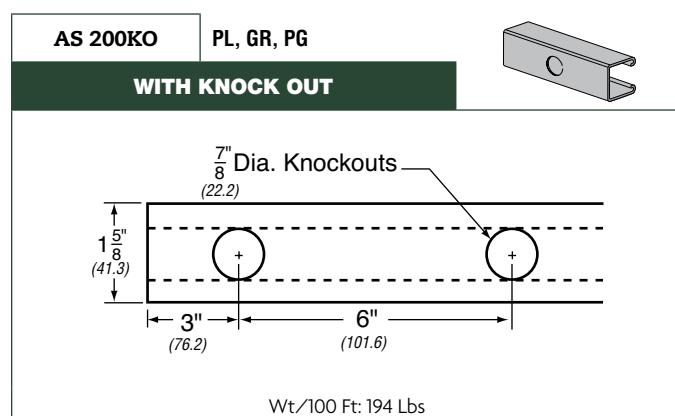
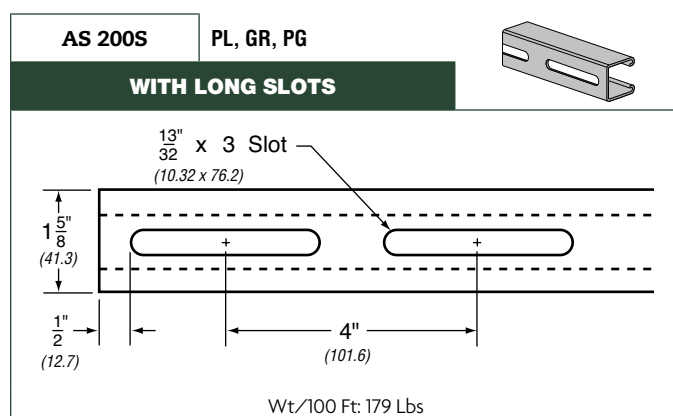
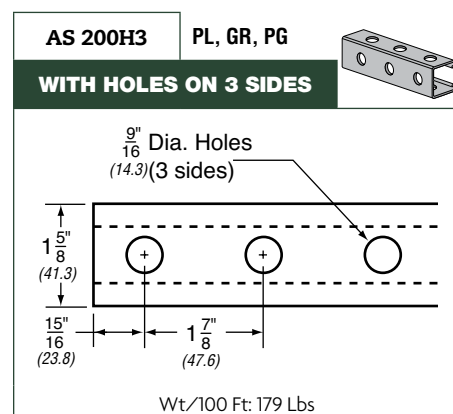
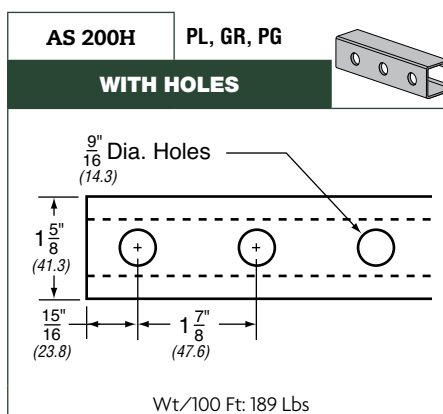
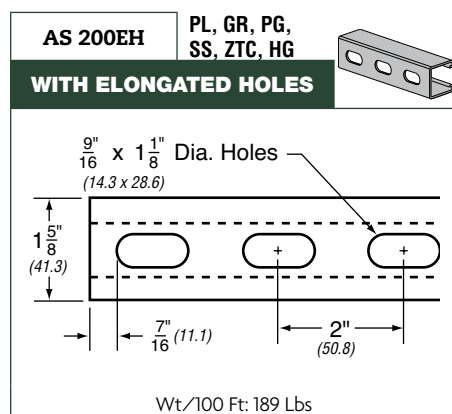
- Refer to page 52 for reduction factors for unbraced lengths

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**BEAM & COLUMN LOADS - METRIC**

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                               | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                              | 15.5                                | 0.3                              | 15.5                       | 15.5                   | 15.5                   | 0.9                  | 17.1                                      | 54.4                             | 53.1  | 51.1  | 48.8  |
| 457                              | 10.3                                | 0.8                              | 10.3                       | 10.3                   | 10.3                   | 1.3                  | 16.5                                      | 51.3                             | 48.8  | 45.1  | 41.3  |
| 610                              | 7.7                                 | 1.5                              | 7.7                        | 7.7                    | 7.7                    | 1.8                  | 15.7                                      | 47.6                             | 43.8  | 38.9  | 34.3  |
| 762                              | 6.2                                 | 2.3                              | 6.2                        | 6.2                    | 5.8                    | 2.2                  | 14.8                                      | 43.5                             | 38.9  | 33.2  | 28.4  |
| 914                              | 5.2                                 | 3.3                              | 5.2                        | 5.2                    | 4.0                    | 2.6                  | 13.9                                      | 39.5                             | 34.3  | 28.4  | 23.6  |
| 1,067                            | 4.4                                 | 4.3                              | 4.4                        | 4.4                    | 3.0                    | 3.1                  | 12.9                                      | 35.7                             | 30.2  | 24.3  | 19.7  |
| 1,219                            | 3.9                                 | 5.8                              | 3.9                        | 3.4                    | 2.3                    | 3.5                  | 12.1                                      | 32.2                             | 26.7  | 20.9  | 16.9  |
| 1,524                            | 3.1                                 | 8.9                              | 2.9                        | 2.2                    | 1.5                    | 4.4                  | 10.4                                      | 26.3                             | 20.9  | 16.1  | 13.2  |
| 1,829                            | 2.6                                 | 13.0                             | 2.0                        | 1.5                    | 1.0                    | 5.3                  | 9.1                                       | 21.5                             | 16.9  | 13.2  | 10.7  |
| 2,134                            | 2.2                                 | 17.5                             | 1.5                        | 1.1                    | 0.8                    | 6.2                  | 8.0                                       | 18.0                             | 14.2  | 11.0  | 8.8   |
| 2,438                            | 1.9                                 | 22.9                             | 1.2                        | 0.8                    | 0.6                    | 7.0                  | 7.1                                       | 15.5                             | 12.2  | 9.4   | 7.4   |
| 2,743                            | 1.7                                 | 29.0                             | 0.9                        | 0.7                    | 0.4                    | 7.9                  | 6.4                                       | 13.6                             | 10.7  | 8.1   | **    |
| 3,048                            | 1.6                                 | 35.8                             | 0.7                        | 0.5                    | 0.4                    | 8.8                  | 5.7                                       | 12.0                             | 9.4   | **    | **    |
| 3,658                            | 1.3                                 | 51.6                             | 0.5                        | 0.4                    | 0.3                    | 10.6                 | 4.7                                       | 9.7                              | 7.4   | **    | **    |
| 4,267                            | 1.1                                 | 70.4                             | 0.4                        | 0.3                    | 0.2                    | 12.3                 | **                                        | 8.0                              | **    | **    | **    |
| 4,572                            | 1.0                                 | 80.8                             | 0.3                        | 0.2                    | 0.2                    | 13.2                 | **                                        | **                               | **    | **    | **    |
| 4,877                            | 1.0                                 | 91.7                             | 0.3                        | 0.2                    | **                     | 14.1                 | **                                        | **                               | **    | **    | **    |
| 5,486                            | 0.8                                 | 116.1                            | 0.2                        | 0.2                    | **                     | 15.8                 | **                                        | **                               | **    | **    | **    |
| 6,096                            | 0.8                                 | 143.5                            | 0.2                        | **                     | **                     | 17.6                 | **                                        | **                               | **    | **    | **    |



## LEGEND:

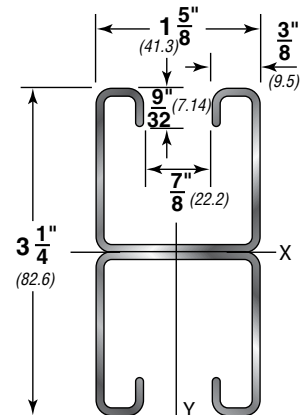
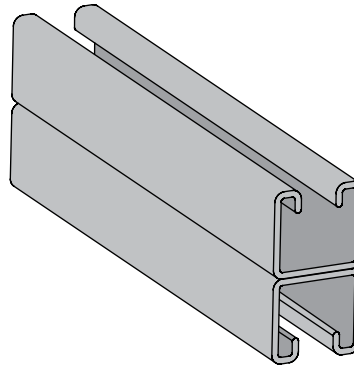
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## AS 200 BTB

**3 1/4" X 1 5/8"** (82.6 x 41.3mm)

**12 Gauge Back-to-Back • wt./100 ft. - 388#**

Stocked in pre-galvanized, plain, powder coated Supr-Green, zinc trivalent chromium, and hot dipped galvanized, in 10 & 20 ft. lengths. Note: Also available in Stainless Steel 304 & 316 Alloys. Other materials, finishes & lengths are available upon request.



## PROPERTIES OF SECTION

| Catalog No. | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|-------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|             | Lbs.    | Kg  | Sq. In.         | Sq. cm | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| AS 200 BTB  | 3.88    | 5.8 | 1.104           | 7.123  | 0.947             | 39.417            | 0.583             | 9.554             | 0.926 | 2.352 | 0.473             | 19.688            | 0.582             | 9.537             | 0.655 | 1.664 |

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

## BEAM & COLUMN LOADS

| Span or Unbraced Height | Static Beam Load (X-X Axis) |                            |                            |                     |                     |                   | Max. Allowable Load at Slot Face | Column Loading Data              |        |        |        |
|-------------------------|-----------------------------|----------------------------|----------------------------|---------------------|---------------------|-------------------|----------------------------------|----------------------------------|--------|--------|--------|
|                         | Max Allowable Uniform Load  | Deflection at Uniform Load | Uniform Load at Deflection |                     |                     |                   |                                  | Max. Column Load Applied at C.G. |        |        |        |
|                         |                             |                            | Span/180 Deflection        | Span/240 Deflection | Span/360 Deflection | Weight of Channel |                                  | k=.65                            | k=.80  | k=1.0  | k=1.2  |
| In                      | Lbs                         | In                         | Lbs                        | Lbs                 | Lbs                 | Lbs               | Lbs                              | Lbs                              | Lbs    | Lbs    | Lbs    |
| 12                      | 3,500 *                     | 0.01                       | 3,500 *                    | 3,500 *             | 3,500 *             | 3.9               | 6,640                            | 25,540                           | 25,430 | 25,240 | 25,020 |
| 18                      | 3,500 *                     | 0.02                       | 3,500 *                    | 3,500 *             | 3,500 *             | 5.8               | 6,580                            | 25,270                           | 25,020 | 24,610 | 24,120 |
| 24                      | 3,500 *                     | 0.03                       | 3,500 *                    | 3,500 *             | 3,500 *             | 7.8               | 6,510                            | 24,890                           | 24,460 | 23,750 | 22,920 |
| 30                      | 3,500 *                     | 0.05                       | 3,500 *                    | 3,500 *             | 3,500 *             | 9.7               | 6,410                            | 24,420                           | 23,750 | 22,690 | 21,460 |
| 36                      | 3,260                       | 0.07                       | 3,260                      | 3,260               | 3,260               | 11.6              | 6,300                            | 23,850                           | 22,920 | 21,460 | 19,800 |
| 42                      | 2,790                       | 0.10                       | 2,790                      | 2,790               | 2,790               | 13.6              | 6,170                            | 23,190                           | 21,970 | 20,090 | 18,010 |
| 48                      | 2,440                       | 0.13                       | 2,440                      | 2,440               | 2,440               | 15.5              | 6,030                            | 22,460                           | 20,930 | 18,620 | 16,140 |
| 60                      | 1,950                       | 0.20                       | 1,950                      | 1,950               | 1,660               | 19.4              | 5,690                            | 20,790                           | 18,620 | 15,510 | 12,410 |
| 72                      | 1,630                       | 0.28                       | 1,630                      | 1,630               | 1,150               | 23.3              | 5,310                            | 18,920                           | 16,140 | 12,410 | 8,990  |
| 84                      | 1,400                       | 0.39                       | 1,400                      | 1,270               | 840                 | 27.2              | 4,890                            | 16,920                           | 13,630 | 9,510  | 6,600  |
| 96                      | 1,220                       | 0.50                       | 1,220                      | 970                 | 650                 | 31.0              | 4,450                            | 14,880                           | 11,220 | 7,280  | 5,060  |
| 108                     | 1,090                       | 0.64                       | 1,020                      | 770                 | 510                 | 34.9              | 3,980                            | 12,860                           | 8,990  | 5,750  | 3,990  |
| 120                     | 980                         | 0.79                       | 830                        | 620                 | 410                 | 38.8              | 3,560                            | 10,930                           | 7,280  | 4,660  | **     |
| 144                     | 810                         | 1.13                       | 570                        | 430                 | 290                 | 46.6              | 2,870                            | 7,660                            | 5,060  | **     | **     |
| 168                     | 700                         | 1.54                       | 420                        | 320                 | 210                 | 54.3              | **                               | 5,630                            | **     | **     | **     |
| 180                     | 650                         | 1.77                       | 370                        | 280                 | 180                 | 58.2              | **                               | 4,900                            | **     | **     | **     |
| 192                     | 610                         | 2.01                       | 320                        | 240                 | 160                 | 62.1              | **                               | 4,310                            | **     | **     | **     |
| 216                     | 540                         | 2.55                       | 260                        | 190                 | 130                 | 69.8              | **                               | **                               | **     | **     | **     |
| 240                     | 490                         | 3.15                       | 210                        | 160                 | 100                 | 77.6              | **                               | **                               | **     | **     | **     |

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**BEAM & COLUMN LOADS - METRIC**

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                               | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                              | 15.6 *                              | 0.3                              | 15.6 *                     | 15.6 *                 | 15.6 *                 | 1.8                  | 29.5                                      | 113.6                            | 113.1 | 112.3 | 111.3 |
| 457                              | 15.6 *                              | 0.5                              | 15.6 *                     | 15.6 *                 | 15.6 *                 | 2.6                  | 29.3                                      | 112.4                            | 111.3 | 109.5 | 107.3 |
| 610                              | 15.6 *                              | 0.8                              | 15.6 *                     | 15.6 *                 | 15.6 *                 | 3.5                  | 29.0                                      | 110.7                            | 108.8 | 105.6 | 102.0 |
| 762                              | 15.6 *                              | 1.3                              | 15.6 *                     | 15.6 *                 | 15.6 *                 | 4.4                  | 28.5                                      | 108.6                            | 105.6 | 100.9 | 95.5  |
| 914                              | 14.5                                | 1.8                              | 14.5                       | 14.5                   | 14.5                   | 5.3                  | 28.0                                      | 106.1                            | 102.0 | 95.5  | 88.1  |
| 1,067                            | 12.4                                | 2.5                              | 12.4                       | 12.4                   | 12.4                   | 6.2                  | 27.4                                      | 103.2                            | 97.7  | 89.4  | 80.1  |
| 1,219                            | 10.9                                | 3.3                              | 10.9                       | 10.9                   | 10.9                   | 7.0                  | 26.8                                      | 99.9                             | 93.1  | 82.8  | 71.8  |
| 1,524                            | 8.7                                 | 5.1                              | 8.7                        | 8.7                    | 7.4                    | 8.8                  | 25.3                                      | 92.5                             | 82.8  | 69.0  | 55.2  |
| 1,829                            | 7.3                                 | 7.1                              | 7.3                        | 7.3                    | 5.1                    | 10.6                 | 23.6                                      | 84.2                             | 71.8  | 55.2  | 40.0  |
| 2,134                            | 6.2                                 | 9.9                              | 6.2                        | 5.6                    | 3.7                    | 12.3                 | 21.8                                      | 75.3                             | 60.6  | 42.3  | 29.4  |
| 2,438                            | 5.4                                 | 12.7                             | 5.4                        | 4.3                    | 2.9                    | 14.1                 | 19.8                                      | 66.2                             | 49.9  | 32.4  | 22.5  |
| 2,743                            | 4.8                                 | 16.3                             | 4.5                        | 3.4                    | 2.3                    | 15.8                 | 17.7                                      | 57.2                             | 40.0  | 25.6  | 17.7  |
| 3,048                            | 4.4                                 | 20.1                             | 3.7                        | 2.8                    | 1.8                    | 17.6                 | 15.8                                      | 48.6                             | 32.4  | 20.7  | **    |
| 3,658                            | 3.6                                 | 28.7                             | 2.5                        | 1.9                    | 1.3                    | 21.1                 | 12.8                                      | 34.1                             | 22.5  | **    | **    |
| 4,267                            | 3.1                                 | 39.1                             | 1.9                        | 1.4                    | 0.9                    | 24.6                 | **                                        | 25.0                             | **    | **    | **    |
| 4,572                            | 2.9                                 | 45.0                             | 1.6                        | 1.2                    | 0.8                    | 26.4                 | **                                        | 21.8                             | **    | **    | **    |
| 4,877                            | 2.7                                 | 51.1                             | 1.4                        | 1.1                    | 0.7                    | 28.2                 | **                                        | 19.2                             | **    | **    | **    |
| 5,486                            | 2.4                                 | 64.8                             | 1.2                        | 0.8                    | 0.6                    | 31.7                 | **                                        | **                               | **    | **    | **    |
| 6,096                            | 2.2                                 | 80.0                             | 0.9                        | 0.7                    | 0.4                    | 35.2                 | **                                        | **                               | **    | **    | **    |

# Bearing Load may limit load

\* Load limited by spot weld shear

\*\* Not recommended - KL/r exceeds 200

**Notes**

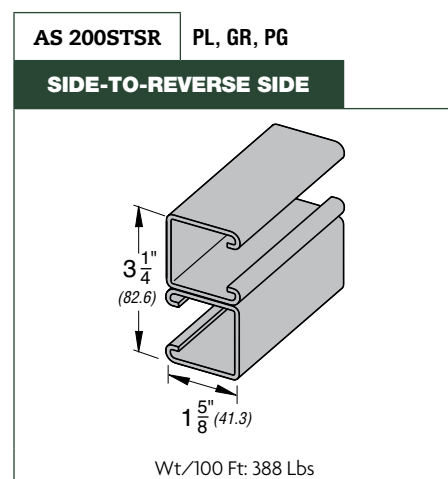
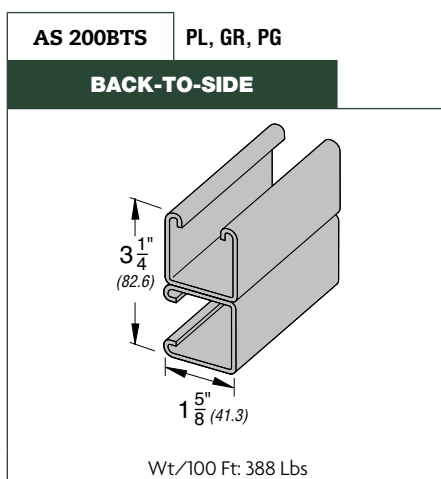
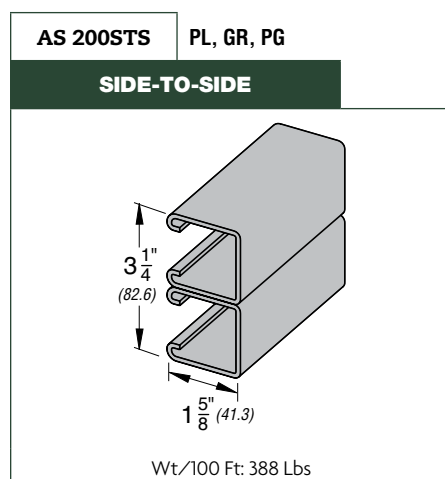
- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Refer to page 52 for reduction factors for unbraced lengths

3. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

4. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%,  
H (1/16 holes) by 88%,

S by 90%,  
KO by 82%.



## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

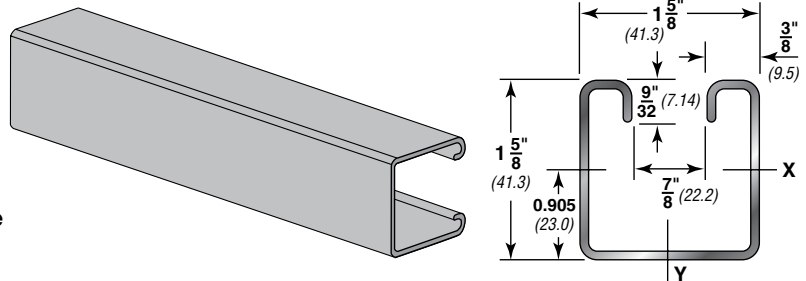
## AS 210

**1 5/8" X 1 5/8" (41.3 x 41.3mm)**

**14 Gauge Channel • wt./100 ft. - 145#**

Stocked in pre-galvanized, plain, powder coated Supr-Green, zinc trivalent chromium, and hot dipped galvanized, in 10 & 20 ft. lengths. Note: Also available in Stainless Steel 304 & 316 Alloys. Other materials, finishes & lengths are available upon request.

See pages 30-31, 51 for welded combinations.



## PROPERTIES OF SECTION

| Catalog No.   | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|---------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|               | Lbs.    | Kg  | Sq. In.         | Sq. CM | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| <b>AS 210</b> | 1.45    | 2.2 | 0.416           | 2.684  | 0.149             | 6.202             | 0.166             | 2.720             | 0.598 | 1.519 | 0.183             | 7.617             | 0.225             | 3.687             | 0.663 | 1.684 |

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

## BEAM & COLUMN LOADS

| Span or Unbraced Height | Static Beam Load (X-X Axis) |                            |                            |                     |                     |                   | Max. Allowable Load at Slot Face | Column Loading Data              |       |       |       |
|-------------------------|-----------------------------|----------------------------|----------------------------|---------------------|---------------------|-------------------|----------------------------------|----------------------------------|-------|-------|-------|
|                         | Max Allowable Uniform Load  | Deflection at Uniform Load | Uniform Load at Deflection |                     |                     |                   |                                  | Max. Column Load Applied at C.G. |       |       |       |
|                         |                             |                            | Span/180 Deflection        | Span/240 Deflection | Span/360 Deflection | Weight of Channel |                                  | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| In                      | Lbs                         | In                         | Lbs                        | Lbs                 | Lbs                 | Lbs               | Lbs                              | Lbs                              | Lbs   | Lbs   | Lbs   |
| 12                      | 2,790                       | 0.01                       | 2,790                      | 2,790               | 2,790               | 1.5               | 3,050                            | 9,230                            | 9,000 | 8,640 | 8,230 |
| 18                      | 1,860                       | 0.03                       | 1,860                      | 1,860               | 1,860               | 2.2               | 2,930                            | 8,690                            | 8,230 | 7,550 | 6,830 |
| 24                      | 1,400                       | 0.06                       | 1,400                      | 1,400               | 1,400               | 2.9               | 2,770                            | 8,010                            | 7,310 | 6,350 | 5,420 |
| 30                      | 1,120                       | 0.09                       | 1,120                      | 1,120               | 1,040               | 3.6               | 2,590                            | 7,250                            | 6,350 | 5,200 | 4,190 |
| 36                      | 930                         | 0.13                       | 930                        | 930                 | 720                 | 4.4               | 2,390                            | 6,470                            | 5,420 | 4,190 | 3,210 |
| 42                      | 800                         | 0.18                       | 800                        | 800                 | 530                 | 5.1               | 2,180                            | 5,700                            | 4,570 | 3,350 | 2,580 |
| 48                      | 700                         | 0.23                       | 700                        | 610                 | 410                 | 5.8               | 1,980                            | 4,990                            | 3,830 | 2,760 | 2,160 |
| 60                      | 560                         | 0.36                       | 520                        | 390                 | 260                 | 7.3               | 1,620                            | 3,740                            | 2,760 | 2,050 | 1,640 |
| 72                      | 470                         | 0.51                       | 360                        | 270                 | 180                 | 8.7               | 1,370                            | 2,860                            | 2,160 | 1,640 | 1,330 |
| 84                      | 400                         | 0.70                       | 270                        | 200                 | 130                 | 10.2              | 1,190                            | 2,320                            | 1,780 | 1,370 | 1,120 |
| 96                      | 350                         | 0.91                       | 200                        | 150                 | 100                 | 11.6              | 1,050                            | 1,950                            | 1,520 | 1,180 | 960   |
| 108                     | 310                         | 1.16                       | 160                        | 120                 | 80                  | 13.1              | 940                              | 1,690                            | 1,330 | 1,030 | **    |
| 120                     | 280                         | 1.43                       | 130                        | 100                 | 70                  | 14.5              | 850                              | 1,500                            | 1,180 | **    | **    |
| 144                     | 230                         | 2.06                       | 90                         | 70                  | 50                  | 17.4              | 710                              | 1,220                            | 960   | **    | **    |
| 168                     | 200                         | 2.80                       | 70                         | 50                  | 30                  | 20.3              | **                               | 1,020                            | **    | **    | **    |
| 180                     | 190                         | 3.21                       | 60                         | 40                  | 30                  | 21.8              | **                               | 940                              | **    | **    | **    |
| 192                     | 170                         | 3.66                       | 50                         | 40                  | 30                  | 23.2              | **                               | **                               | **    | **    | **    |
| 216                     | 160                         | 4.63                       | 40                         | 30                  | NR                  | 26.1              | **                               | **                               | **    | **    | **    |
| 240                     | 140                         | 5.72                       | 30                         | NR                  | NR                  | 29.0              | **                               | **                               | **    | **    | **    |

# Bearing Load may limit load

\*\* Not recommended - KL/r exceeds 200

### Notes

- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

- The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%,      S by 90%,  
H (% holes) by 88%,      KO by 82%.

- Refer to page 52 for reduction factors for unbraced lengths



## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

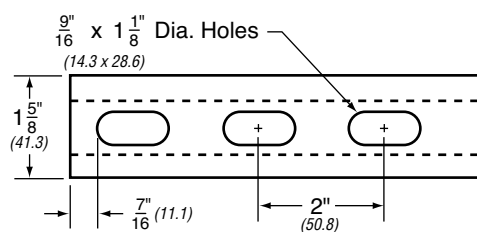
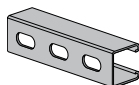
## BEAM & COLUMN LOADS - METRIC

| Span or Unbraced Height | Static Beam Load (X-X Axis) |                            |                            |                     |                     |                   | Max. Allowable Load at Slot Face | Column Loading Data              |       |       |       |
|-------------------------|-----------------------------|----------------------------|----------------------------|---------------------|---------------------|-------------------|----------------------------------|----------------------------------|-------|-------|-------|
|                         | Max Allowable Uniform Load  | Deflection at Uniform Load | Uniform Load at Deflection |                     |                     |                   |                                  | Max. Column Load Applied at C.G. |       |       |       |
|                         |                             |                            | Span/180 Deflection        | Span/240 Deflection | Span/360 Deflection | Weight of Channel |                                  | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                      | Kn                          | mm                         | Kn                         | Kn                  | Kn                  | Kg                | Kn                               | Kn                               | Kn    | Kn    | Kn    |
| 305                     | 12.4                        | 0.3                        | 12.4                       | 12.4                | 12.4                | 0.7               | 13.6                             | 41.1                             | 40.0  | 38.4  | 36.6  |
| 457                     | 8.3                         | 0.8                        | 8.3                        | 8.3                 | 8.3                 | 1.0               | 13.0                             | 38.7                             | 36.6  | 33.6  | 30.4  |
| 610                     | 6.2                         | 1.5                        | 6.2                        | 6.2                 | 6.2                 | 1.3               | 12.3                             | 35.6                             | 32.5  | 28.2  | 24.1  |
| 762                     | 5.0                         | 2.3                        | 5.0                        | 5.0                 | 4.6                 | 1.6               | 11.5                             | 32.2                             | 28.2  | 23.1  | 18.6  |
| 914                     | 4.1                         | 3.3                        | 4.1                        | 4.1                 | 3.2                 | 2.0               | 10.6                             | 28.8                             | 24.1  | 18.6  | 14.3  |
| 1,067                   | 3.6                         | 4.6                        | 3.6                        | 3.6                 | 2.4                 | 2.3               | 9.7                              | 25.4                             | 20.3  | 14.9  | 11.5  |
| 1,219                   | 3.1                         | 5.8                        | 3.1                        | 2.7                 | 1.8                 | 2.6               | 8.8                              | 22.2                             | 17.0  | 12.3  | 9.6   |
| 1,524                   | 2.5                         | 9.1                        | 2.3                        | 1.7                 | 1.2                 | 3.3               | 7.2                              | 16.6                             | 12.3  | 9.1   | 7.3   |
| 1,829                   | 2.1                         | 13.0                       | 1.6                        | 1.2                 | 0.8                 | 3.9               | 6.1                              | 12.7                             | 9.6   | 7.3   | 5.9   |
| 2,134                   | 1.8                         | 17.8                       | 1.2                        | 0.9                 | 0.6                 | 4.6               | 5.3                              | 10.3                             | 7.9   | 6.1   | 5.0   |
| 2,438                   | 1.6                         | 23.1                       | 0.9                        | 0.7                 | 0.4                 | 5.3               | 4.7                              | 8.7                              | 6.8   | 5.2   | 4.3   |
| 2,743                   | 1.4                         | 29.5                       | 0.7                        | 0.5                 | 0.4                 | 5.9               | 4.2                              | 7.5                              | 5.9   | 4.6   | **    |
| 3,048                   | 1.2                         | 36.3                       | 0.6                        | 0.4                 | 0.3                 | 6.6               | 3.8                              | 6.7                              | 5.2   | **    | **    |
| 3,658                   | 1.0                         | 52.3                       | 0.4                        | 0.3                 | 0.2                 | 7.9               | 3.2                              | 5.4                              | 4.3   | **    | **    |
| 4,267                   | 0.9                         | 71.1                       | 0.3                        | 0.2                 | 0.1                 | 9.2               | **                               | 4.5                              | **    | **    | **    |
| 4,572                   | 0.8                         | 81.5                       | 0.3                        | 0.2                 | 0.1                 | 9.9               | **                               | 4.2                              | **    | **    | **    |
| 4,877                   | 0.8                         | 93.0                       | 0.2                        | 0.2                 | 0.1                 | 10.5              | **                               | **                               | **    | **    | **    |
| 5,486                   | 0.7                         | 117.6                      | 0.2                        | 0.1                 | NR                  | 11.8              | **                               | **                               | **    | **    | **    |
| 6,096                   | 0.6                         | 145.3                      | 0.1                        | NR                  | NR                  | 13.2              | **                               | **                               | **    | **    | **    |

**AS 210EH**

**PL, GR, PG, SS, ZTC, HG**

### WITH ELONGATED HOLES

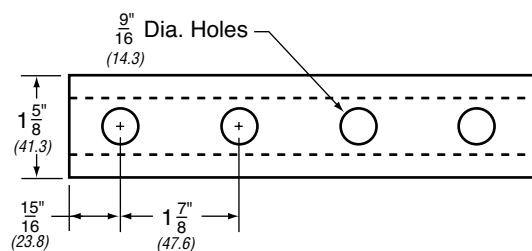
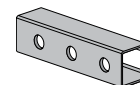


Wt/100 Ft: 140 Lbs

**AS 210H**

**PL, GR, PG**

### WITH HOLES

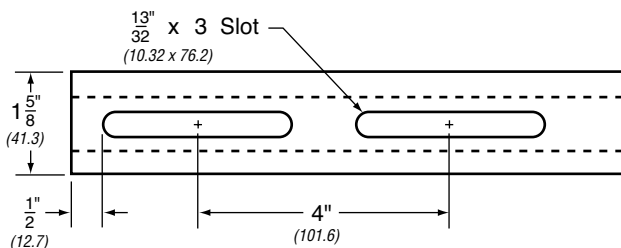
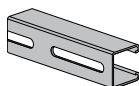


Wt/100 Ft: 140 Lbs

**AS 210S**

**PL, GR, PG**

### WITH LONG SLOTS

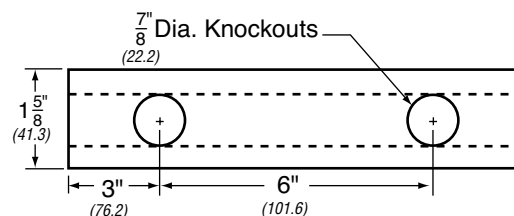
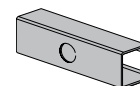


Wt/100 Ft: 130 Lbs

**AS 210KO**

**PL, GR, PG**

### WITH KNOCK OUT



Wt/100 Ft: 145 Lbs

## LEGEND:

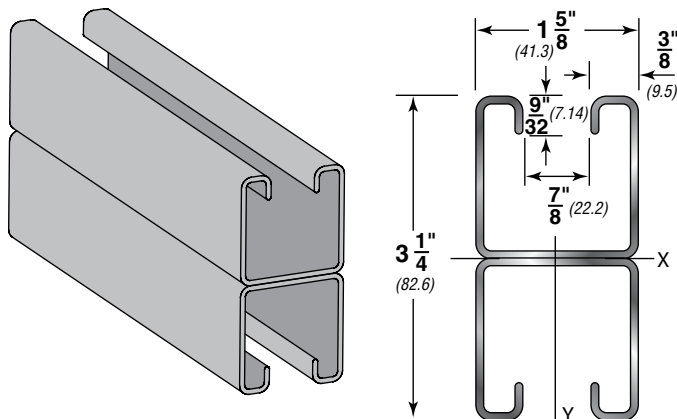
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (SS), Zinc Trivalent Chromium (ZTC) and Hot Dipped Galvanized (HG) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## AS 210 BTB

**3 1/4" X 1 5/8"** (82.6 x 41.3mm)

**14 Gauge Back-to-Back • wt./100 ft. - 290#**

Stocked in pre-galvanized, plain, powder coated Supr-Green, zinc trivalent chromium, and hot dipped galvanized, in 10 & 20 ft. lengths. Note: Also available in Stainless Steel 304 & 316 Alloys. Other materials, finishes & lengths are available upon request.



## PROPERTIES OF SECTION

| Catalog No. | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|-------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|             | Lbs.    | Kg  | Sq. In.         | Sq. cm | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| AS 210 BTB  | 2.9     | 4.3 | 0.832           | 5.368  | 0.741             | 30.843            | 0.456             | 7.473             | 0.944 | 2.398 | 0.366             | 15.234            | 0.45              | 7.374             | 0.663 | 1.684 |

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

## BEAM & COLUMN LOADS

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |        |        |        |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|--------|--------|--------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |        |        |        |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80  | k=1.0  | k=1.2  |
| In                               | Lbs                                 | In                               | Lbs                        | Lbs                    | Lbs                    | Lbs                  | Lbs                                       | Lbs                              | Lbs    | Lbs    | Lbs    |
| 12                               | 2,180 *                             | 0.01                             | 2,180 *                    | 2,180 *                | 2,180 *                | 2.9                  | 5,140                                     | 19,250                           | 19,170 | 19,030 | 18,870 |
| 18                               | 2,180 *                             | 0.02                             | 2,180 *                    | 2,180 *                | 2,180 *                | 4.4                  | 5,100                                     | 19,050                           | 18,870 | 18,570 | 18,210 |
| 24                               | 2,180 *                             | 0.03                             | 2,180 *                    | 2,180 *                | 2,180 *                | 5.8                  | 5,040                                     | 18,780                           | 18,460 | 17,940 | 17,320 |
| 30                               | 2,180 *                             | 0.05                             | 2,180 *                    | 2,180 *                | 2,180 *                | 7.3                  | 4,970                                     | 18,430                           | 17,940 | 17,160 | 16,250 |
| 36                               | 2,180 *                             | 0.07                             | 2,180 *                    | 2,180 *                | 2,180 *                | 8.7                  | 4,880                                     | 18,010                           | 17,320 | 16,250 | 15,030 |
| 42                               | 2,180 *                             | 0.10                             | 2,180 *                    | 2,180 *                | 2,180 *                | 10.2                 | 4,780                                     | 17,530                           | 16,630 | 15,240 | 13,700 |
| 48                               | 1,910                               | 0.13                             | 1,910                      | 1,910                  | 1,910                  | 11.6                 | 4,670                                     | 16,990                           | 15,860 | 14,150 | 12,310 |
| 60                               | 1,530                               | 0.20                             | 1,530                      | 1,530                  | 1,300                  | 14.5                 | 4,420                                     | 15,760                           | 14,150 | 11,840 | 9,530  |
| 72                               | 1,270                               | 0.28                             | 1,270                      | 1,270                  | 900                    | 17.4                 | 4,120                                     | 14,370                           | 12,310 | 9,530  | 6,960  |
| 84                               | 1,090                               | 0.39                             | 1,090                      | 990                    | 660                    | 20.3                 | 3,800                                     | 12,890                           | 10,450 | 7,360  | 5,110  |
| 96                               | 960                                 | 0.50                             | 960                        | 760                    | 510                    | 23.2                 | 3,460                                     | 11,380                           | 8,640  | 5,630  | 3,910  |
| 108                              | 850                                 | 0.64                             | 800                        | 600                    | 400                    | 26.1                 | 3,100                                     | 9,870                            | 6,960  | 4,450  | 3,090  |
| 120                              | 760                                 | 0.79                             | 650                        | 490                    | 320                    | 29.0                 | 2,770                                     | 8,420                            | 5,630  | 3,610  | **     |
| 144                              | 640                                 | 1.13                             | 450                        | 340                    | 220                    | 34.8                 | 2,230                                     | 5,930                            | 3,910  | **     | **     |
| 168                              | 550                                 | 1.54                             | 330                        | 250                    | 170                    | 40.6                 | **                                        | 4,350                            | **     | **     | **     |
| 180                              | 510                                 | 1.77                             | 290                        | 220                    | 140                    | 43.5                 | **                                        | 3,790                            | **     | **     | **     |
| 192                              | 480                                 | 2.01                             | 250                        | 190                    | 130                    | 46.4                 | **                                        | 3,330                            | **     | **     | **     |
| 216                              | 420                                 | 2.55                             | 200                        | 150                    | 100                    | 52.2                 | **                                        | **                               | **     | **     | **     |
| 240                              | 380                                 | 3.15                             | 160                        | 120                    | 80                     | 58.0                 | **                                        | **                               | **     | **     | **     |

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**BEAM & COLUMN LOADS - METRIC**

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                               | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                              | 9.7 *                               | 0.3                              | 9.7 *                      | 9.7 *                  | 9.7 *                  | 1.3                  | 22.9                                      | 85.6                             | 85.3  | 84.6  | 83.9  |
| 457                              | 9.7 *                               | 0.5                              | 9.7 *                      | 9.7 *                  | 9.7 *                  | 2.0                  | 22.7                                      | 84.7                             | 83.9  | 82.6  | 81.0  |
| 610                              | 9.7 *                               | 0.8                              | 9.7 *                      | 9.7 *                  | 9.7 *                  | 2.6                  | 22.4                                      | 83.5                             | 82.1  | 79.8  | 77.0  |
| 762                              | 9.7 *                               | 1.3                              | 9.7 *                      | 9.7 *                  | 9.7 *                  | 3.3                  | 22.1                                      | 82.0                             | 79.8  | 76.3  | 72.3  |
| 914                              | 9.7 *                               | 1.8                              | 9.7 *                      | 9.7 *                  | 9.7 *                  | 3.9                  | 21.7                                      | 80.1                             | 77.0  | 72.3  | 66.9  |
| 1,067                            | 9.7 *                               | 2.5                              | 9.7 *                      | 9.7 *                  | 9.7 *                  | 4.6                  | 21.3                                      | 78.0                             | 74.0  | 67.8  | 60.9  |
| 1,219                            | 8.5                                 | 3.3                              | 8.5                        | 8.5                    | 8.5                    | 5.3                  | 20.8                                      | 75.6                             | 70.5  | 62.9  | 54.8  |
| 1,524                            | 6.8                                 | 5.1                              | 6.8                        | 6.8                    | 5.8                    | 6.6                  | 19.7                                      | 70.1                             | 62.9  | 52.7  | 42.4  |
| 1,829                            | 5.6                                 | 7.1                              | 5.6                        | 5.6                    | 4.0                    | 7.9                  | 18.3                                      | 63.9                             | 54.8  | 42.4  | 31.0  |
| 2,134                            | 4.8                                 | 9.9                              | 4.8                        | 4.4                    | 2.9                    | 9.2                  | 16.9                                      | 57.3                             | 46.5  | 32.7  | 22.7  |
| 2,438                            | 4.3                                 | 12.7                             | 4.3                        | 3.4                    | 2.3                    | 10.5                 | 15.4                                      | 50.6                             | 38.4  | 25.0  | 17.4  |
| 2,743                            | 3.8                                 | 16.3                             | 3.6                        | 2.7                    | 1.8                    | 11.8                 | 13.8                                      | 43.9                             | 31.0  | 19.8  | 13.7  |
| 3,048                            | 3.4                                 | 20.1                             | 2.9                        | 2.2                    | 1.4                    | 13.2                 | 12.3                                      | 37.5                             | 25.0  | 16.1  | **    |
| 3,658                            | 2.8                                 | 28.7                             | 2.0                        | 1.5                    | 1.0                    | 15.8                 | 9.9                                       | 26.4                             | 17.4  | **    | **    |
| 4,267                            | 2.4                                 | 39.1                             | 1.5                        | 1.1                    | 0.8                    | 18.4                 | **                                        | 19.3                             | **    | **    | **    |
| 4,572                            | 2.3                                 | 45.0                             | 1.3                        | 1.0                    | 0.6                    | 19.7                 | **                                        | 16.9                             | **    | **    | **    |
| 4,877                            | 2.1                                 | 51.1                             | 1.1                        | 0.8                    | 0.6                    | 21.0                 | **                                        | 14.8                             | **    | **    | **    |
| 5,486                            | 1.9                                 | 64.8                             | 0.9                        | 0.7                    | 0.4                    | 23.7                 | **                                        | **                               | **    | **    | **    |
| 6,096                            | 1.7                                 | 80.0                             | 0.7                        | 0.5                    | 0.4                    | 26.3                 | **                                        | **                               | **    | **    | **    |

# Bearing Load may limit load

\* Load limited by spot weld shear

\*\* Not recommended - KL/r exceeds 200

**Notes**

1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.

2. Refer to page 52 for reduction factors for unbraced lengths

3. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

4. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (1/16 holes) by 88%, KO by 82%.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

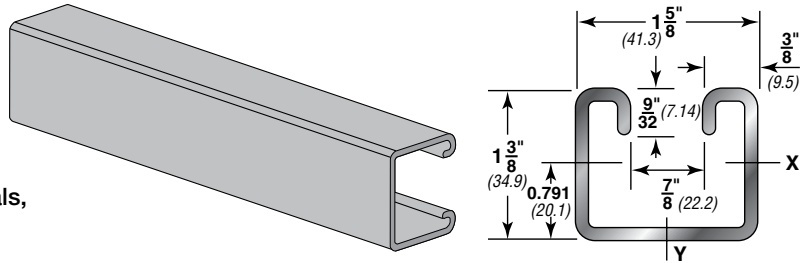
## AS 300

**1<sup>3</sup>/<sub>8</sub>" X 1<sup>5</sup>/<sub>8</sub>" (34.9 x 41.3mm)**

**12 Gauge Channel • wt./100 ft. - 176#**

Stocked in pre-galvanized, plain & powder coated Supr-Green, in both 10 & 20 ft. lengths. Other materials, finishes & lengths are available upon request.

See pages 34-35, 51 for welded combinations.



## PROPERTIES OF SECTION

| Catalog No.   | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|---------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|               | Lbs.    | Kg  | Sq. In.         | Sq. CM | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| <b>AS 300</b> | 1.76    | 2.6 | 0.5             | 3.226  | 0.123             | 5.120             | 0.159             | 2.606             | 0.496 | 1.260 | 0.206             | 8.574             | 0.253             | 4.146             | 0.642 | 1.631 |

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

## BEAM & COLUMN LOADS

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |        |        |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|--------|--------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |        |        |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80  | k=1.0  | k=1.2 |
| In                               | Lbs                                 | In                               | Lbs                        | Lbs                    | Lbs                    | Lbs                  | Lbs                                       | Lbs                              | Lbs    | Lbs    | Lbs   |
| 12                               | 2,660                               | 0.02                             | 2,660                      | 2,660                  | 2,660                  | 1.8                  | 3,450                                     | 11,080                           | 10,810 | 10,390 | 9,940 |
| 18                               | 1,770                               | 0.04                             | 1,770                      | 1,770                  | 1,770                  | 2.6                  | 3,310                                     | 10,450                           | 9,940  | 9,220  | 8,510 |
| 24                               | 1,330                               | 0.07                             | 1,330                      | 1,330                  | 1,330                  | 3.5                  | 3,140                                     | 9,700                            | 8,980  | 8,060  | 7,220 |
| 30                               | 1,060                               | 0.10                             | 1,060                      | 1,060                  | 860                    | 4.4                  | 2,960                                     | 8,930                            | 8,060  | 7,030  | 6,140 |
| 36                               | 890                                 | 0.15                             | 890                        | 890                    | 600                    | 5.3                  | 2,780                                     | 8,170                            | 7,220  | 6,140  | 5,260 |
| 42                               | 760                                 | 0.20                             | 760                        | 660                    | 440                    | 6.2                  | 2,600                                     | 7,470                            | 6,480  | 5,400  | 4,510 |
| 48                               | 670                                 | 0.26                             | 670                        | 500                    | 340                    | 7.0                  | 2,430                                     | 6,840                            | 5,830  | 4,750  | 3,890 |
| 60                               | 530                                 | 0.41                             | 430                        | 320                    | 220                    | 8.8                  | 2,110                                     | 5,760                            | 4,750  | 3,710  | 3,010 |
| 72                               | 440                                 | 0.59                             | 300                        | 220                    | 150                    | 10.6                 | 1,830                                     | 4,870                            | 3,890  | 3,010  | 2,340 |
| 84                               | 380                                 | 0.81                             | 220                        | 160                    | 110                    | 12.3                 | 1,600                                     | 4,130                            | 3,260  | 2,470  | **    |
| 96                               | 330                                 | 1.06                             | 170                        | 130                    | 80                     | 14.1                 | 1,410                                     | 3,550                            | 2,790  | 1,890  | **    |
| 108                              | 300                                 | 1.34                             | 130                        | 100                    | 70                     | 15.8                 | 1,230                                     | 3,100                            | 2,340  | **     | **    |
| 120                              | 270                                 | 1.65                             | 110                        | 80                     | 50                     | 17.6                 | 1,070                                     | 2,740                            | 1,890  | **     | **    |
| 144                              | 220                                 | 2.38                             | 70                         | 60                     | 40                     | 21.1                 | **                                        | 1,990                            | **     | **     | **    |
| 168                              | 190                                 | 3.23                             | 50                         | 40                     | 30                     | 24.6                 | **                                        | **                               | **     | **     | **    |
| 180                              | 180                                 | 3.71                             | 50                         | 40                     | NR                     | 26.4                 | **                                        | **                               | **     | **     | **    |
| 192                              | 170                                 | 4.22                             | 40                         | 30                     | NR                     | 28.2                 | **                                        | **                               | **     | **     | **    |
| 216                              | 150                                 | 5.35                             | NR                         | NR                     | NR                     | 31.7                 | **                                        | **                               | **     | **     | **    |
| 240                              | 130                                 | 6.60                             | NR                         | NR                     | NR                     | 35.2                 | **                                        | **                               | **     | **     | **    |

# Bearing Load may limit load

\*\* Not recommended - KL/r exceeds 200

### Notes

- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (% holes) by 88%, KO by 82%.

4. Refer to page 52 for reduction factors for unbraced lengths

## LEGEND:

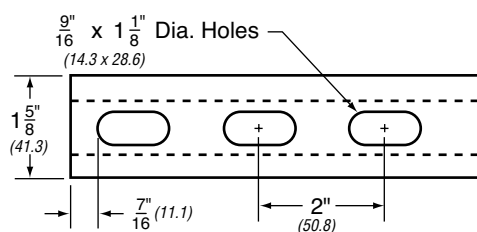
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## BEAM & COLUMN LOADS - METRIC

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                               | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                              | 11.8                                | 0.5                              | 11.8                       | 11.8                   | 11.8                   | 0.8                  | 15.3                                      | 49.3                             | 48.1  | 46.2  | 44.2  |
| 457                              | 7.9                                 | 1.0                              | 7.9                        | 7.9                    | 7.9                    | 1.2                  | 14.7                                      | 46.5                             | 44.2  | 41.0  | 37.9  |
| 610                              | 5.9                                 | 1.8                              | 5.9                        | 5.9                    | 5.9                    | 1.6                  | 14.0                                      | 43.1                             | 39.9  | 35.9  | 32.1  |
| 762                              | 4.7                                 | 2.5                              | 4.7                        | 4.7                    | 3.8                    | 2.0                  | 13.2                                      | 39.7                             | 35.9  | 31.3  | 27.3  |
| 914                              | 4.0                                 | 3.8                              | 4.0                        | 4.0                    | 2.7                    | 2.4                  | 12.4                                      | 36.3                             | 32.1  | 27.3  | 23.4  |
| 1,067                            | 3.4                                 | 5.1                              | 3.4                        | 2.9                    | 2.0                    | 2.8                  | 11.6                                      | 33.2                             | 28.8  | 24.0  | 20.1  |
| 1,219                            | 3.0                                 | 6.6                              | 3.0                        | 2.2                    | 1.5                    | 3.2                  | 10.8                                      | 30.4                             | 25.9  | 21.1  | 17.3  |
| 1,524                            | 2.4                                 | 10.4                             | 1.9                        | 1.4                    | 1.0                    | 4.0                  | 9.4                                       | 25.6                             | 21.1  | 16.5  | 13.4  |
| 1,829                            | 2.0                                 | 15.0                             | 1.3                        | 1.0                    | 0.7                    | 4.8                  | 8.1                                       | 21.7                             | 17.3  | 13.4  | 10.4  |
| 2,134                            | 1.7                                 | 20.6                             | 1.0                        | 0.7                    | 0.5                    | 5.6                  | 7.1                                       | 18.4                             | 14.5  | 11.0  | **    |
| 2,438                            | 1.5                                 | 26.9                             | 0.8                        | 0.6                    | 0.4                    | 6.4                  | 6.3                                       | 15.8                             | 12.4  | 8.4   | **    |
| 2,743                            | 1.3                                 | 34.0                             | 0.6                        | 0.4                    | 0.3                    | 7.2                  | 5.5                                       | 13.8                             | 10.4  | **    | **    |
| 3,048                            | 1.2                                 | 41.9                             | 0.5                        | 0.4                    | 0.2                    | 8.0                  | 4.8                                       | 12.2                             | 8.4   | **    | **    |
| 3,658                            | 1.0                                 | 60.5                             | 0.3                        | 0.3                    | 0.2                    | 9.6                  | **                                        | 8.9                              | **    | **    | **    |
| 4,267                            | 0.8                                 | 82.0                             | 0.2                        | 0.2                    | 0.1                    | 11.2                 | **                                        | **                               | **    | **    | **    |
| 4,572                            | 0.8                                 | 94.2                             | 0.2                        | 0.2                    | NR                     | 12.0                 | **                                        | **                               | **    | **    | **    |
| 4,877                            | 0.8                                 | 107.2                            | 0.2                        | 0.1                    | NR                     | 12.8                 | **                                        | **                               | **    | **    | **    |
| 5,486                            | 0.7                                 | 135.9                            | NR                         | NR                     | NR                     | 14.4                 | **                                        | **                               | **    | **    | **    |
| 6,096                            | 0.6                                 | 167.6                            | NR                         | NR                     | NR                     | 16.0                 | **                                        | **                               | **    | **    | **    |

**AS 300EH** PL, GR, PG

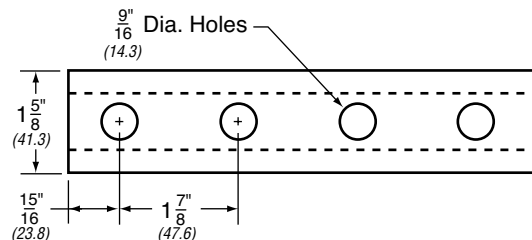
### WITH ELONGATED HOLES



Wt/100 Ft: 171 Lbs

**AS 300H** PL, GR, PG

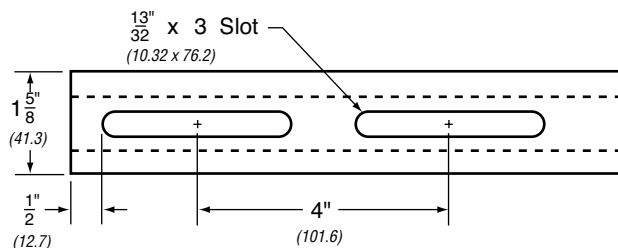
### WITH HOLES



Wt/100 Ft: 171 Lbs

**AS 300S** PL, GR, PG

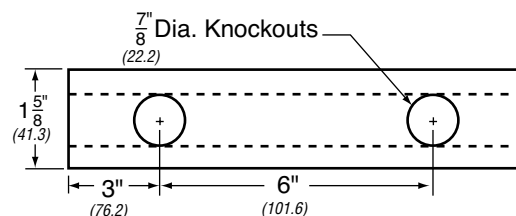
### WITH LONG SLOTS



Wt/100 Ft: 161 Lbs

**AS 300KO** PL, GR, PG

### WITH KNOCK OUT



Wt/100 Ft: 176 Lbs

## LEGEND:

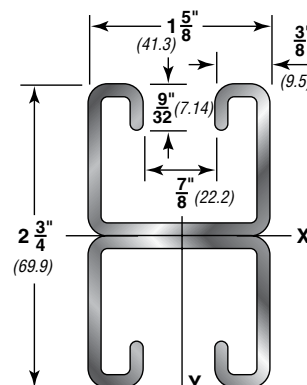
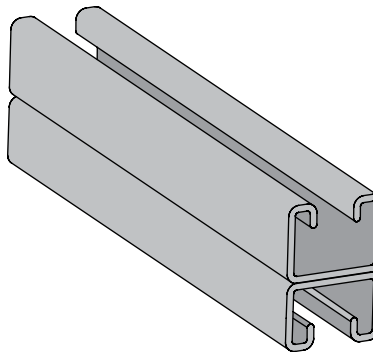
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (SS), Zinc Trivalent Chromium (ZTC) and Hot Dipped Galvanized (HG) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## AS 300 BTB

2<sup>3</sup>/<sub>4</sub>" X 1<sup>5</sup>/<sub>8</sub>" (69.9 x 41.3mm)

12 Gauge Back-to-Back • wt./100 ft. - 352#

Stocked in pre-galvanized, plain & powder coated Supr-Green, in both 10 & 20 ft. lengths. Other materials, finishes & lengths are available upon request.



## PROPERTIES OF SECTION

| Catalog No. | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|-------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|             | Lbs.    | Kg  | Sq. In.         | Sq. cm | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| AS 300 BTB  | 3.52    | 5.2 | 1.001           | 6.458  | 0.607             | 25.265            | 0.441             | 7.227             | 0.779 | 1.979 | 0.413             | 17.190            | 0.508             | 8.325             | 0.642 | 1.631 |

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

## BEAM & COLUMN LOADS

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |        |        |        |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|--------|--------|--------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |        |        |        |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80  | k=1.0  | k=1.2  |
| In                               | Lbs                                 | In                               | Lbs                        | Lbs                    | Lbs                    | Lbs                  | Lbs                                       | Lbs                              | Lbs    | Lbs    | Lbs    |
| 12                               | 2,960 *                             | 0.01                             | 2,960 *                    | 2,960 *                | 2,960 *                | 3.5                  | 5,950                                     | 23,150                           | 23,040 | 22,870 | 22,660 |
| 18                               | 2,960 *                             | 0.02                             | 2,960 *                    | 2,960 *                | 2,960 *                | 5.3                  | 5,890                                     | 22,890                           | 22,660 | 22,280 | 21,820 |
| 24                               | 2,960 *                             | 0.04                             | 2,960 *                    | 2,960 *                | 2,960 *                | 7.0                  | 5,810                                     | 22,540                           | 22,130 | 21,470 | 20,690 |
| 30                               | 2,960 *                             | 0.06                             | 2,960 *                    | 2,960 *                | 2,960 *                | 8.8                  | 5,710                                     | 22,090                           | 21,470 | 20,470 | 19,320 |
| 36                               | 2,470                               | 0.08                             | 2,470                      | 2,470                  | 2,470                  | 10.6                 | 5,590                                     | 21,560                           | 20,690 | 19,320 | 17,770 |
| 42                               | 2,110                               | 0.11                             | 2,110                      | 2,110                  | 2,110                  | 12.3                 | 5,460                                     | 20,940                           | 19,800 | 18,040 | 16,110 |
| 48                               | 1,850                               | 0.15                             | 1,850                      | 1,850                  | 1,660                  | 14.1                 | 5,310                                     | 20,260                           | 18,820 | 16,670 | 14,370 |
| 60                               | 1,480                               | 0.23                             | 1,480                      | 1,480                  | 1,060                  | 17.6                 | 4,970                                     | 18,700                           | 16,670 | 13,790 | 10,940 |
| 72                               | 1,230                               | 0.33                             | 1,230                      | 1,110                  | 740                    | 21.1                 | 4,590                                     | 16,950                           | 14,370 | 10,940 | 7,850  |
| 84                               | 1,060                               | 0.46                             | 1,060                      | 810                    | 540                    | 24.6                 | 4,190                                     | 15,100                           | 12,060 | 8,300  | 5,770  |
| 96                               | 930                                 | 0.60                             | 830                        | 620                    | 410                    | 28.2                 | 3,780                                     | 13,210                           | 9,850  | 6,360  | 4,410  |
| 108                              | 820                                 | 0.75                             | 660                        | 490                    | 330                    | 31.7                 | 3,360                                     | 11,360                           | 7,850  | 5,020  | **     |
| 120                              | 740                                 | 0.93                             | 530                        | 400                    | 270                    | 35.2                 | 2,990                                     | 9,590                            | 6,360  | 4,070  | **     |
| 144                              | 620                                 | 1.34                             | 370                        | 280                    | 180                    | 42.2                 | 2,400                                     | 6,690                            | 4,410  | **     | **     |
| 168                              | 530                                 | 1.82                             | 270                        | 200                    | 140                    | 49.3                 | **                                        | 4,910                            | **     | **     | **     |
| 180                              | 490                                 | 2.09                             | 240                        | 180                    | 120                    | 52.8                 | **                                        | 4,280                            | **     | **     | **     |
| 192                              | 460                                 | 2.38                             | 210                        | 160                    | 100                    | 56.3                 | **                                        | 3,760                            | **     | **     | **     |
| 216                              | 410                                 | 3.01                             | 160                        | 120                    | 80                     | 63.4                 | **                                        | **                               | **     | **     | **     |
| 240                              | 370                                 | 3.72                             | 130                        | 100                    | NR                     | 70.4                 | **                                        | **                               | **     | **     | **     |

LEGEND:

GR: Powder Coated Supr-Green EG: Electro-Galvanized PG: Pre-Galvanized AL: Aluminum HG: Hot Dipped Galvanized PL: Plain SS: Stainless Steel ZTC: Zinc Trivalent Chromium  
Stainless Steel (SS), Zinc Trivalent Chromium (ZTC) and Hot Dipped Galvanized (HG) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

BEAM & COLUMN LOADS - METRIC

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                               | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                              | 13.2 *                              | 0.3                              | 13.2 *                     | 13.2 *                 | 13.2 *                 | 1.6                  | 26.5                                      | 103.0                            | 102.5 | 101.7 | 100.8 |
| 457                              | 13.2 *                              | 0.5                              | 13.2 *                     | 13.2 *                 | 13.2 *                 | 2.4                  | 26.2                                      | 101.8                            | 100.8 | 99.1  | 97.1  |
| 610                              | 13.2 *                              | 1.0                              | 13.2 *                     | 13.2 *                 | 13.2 *                 | 3.2                  | 25.8                                      | 100.3                            | 98.4  | 95.5  | 92.0  |
| 762                              | 13.2 *                              | 1.5                              | 13.2 *                     | 13.2 *                 | 13.2 *                 | 4.0                  | 25.4                                      | 98.3                             | 95.5  | 91.1  | 85.9  |
| 914                              | 11.0                                | 2.0                              | 11.0                       | 11.0                   | 11.0                   | 4.8                  | 24.9                                      | 95.9                             | 92.0  | 85.9  | 79.0  |
| 1,067                            | 9.4                                 | 2.8                              | 9.4                        | 9.4                    | 9.4                    | 5.6                  | 24.3                                      | 93.1                             | 88.1  | 80.2  | 71.7  |
| 1,219                            | 8.2                                 | 3.8                              | 8.2                        | 8.2                    | 7.4                    | 6.4                  | 23.6                                      | 90.1                             | 83.7  | 74.2  | 63.9  |
| 1,524                            | 6.6                                 | 5.8                              | 6.6                        | 6.6                    | 4.7                    | 8.0                  | 22.1                                      | 83.2                             | 74.2  | 61.3  | 48.7  |
| 1,829                            | 5.5                                 | 8.4                              | 5.5                        | 4.9                    | 3.3                    | 9.6                  | 20.4                                      | 75.4                             | 63.9  | 48.7  | 34.9  |
| 2,134                            | 4.7                                 | 11.7                             | 4.7                        | 3.6                    | 2.4                    | 11.2                 | 18.6                                      | 67.2                             | 53.6  | 36.9  | 25.7  |
| 2,438                            | 4.1                                 | 15.2                             | 3.7                        | 2.8                    | 1.8                    | 12.8                 | 16.8                                      | 58.8                             | 43.8  | 28.3  | 19.6  |
| 2,743                            | 3.6                                 | 19.1                             | 2.9                        | 2.2                    | 1.5                    | 14.4                 | 14.9                                      | 50.5                             | 34.9  | 22.3  | **    |
| 3,048                            | 3.3                                 | 23.6                             | 2.4                        | 1.8                    | 1.2                    | 16.0                 | 13.3                                      | 42.7                             | 28.3  | 18.1  | **    |
| 3,658                            | 2.8                                 | 34.0                             | 1.6                        | 1.2                    | 0.8                    | 19.1                 | 10.7                                      | 29.8                             | 19.6  | **    | **    |
| 4,267                            | 2.4                                 | 46.2                             | 1.2                        | 0.9                    | 0.6                    | 22.4                 | **                                        | 21.8                             | **    | **    | **    |
| 4,572                            | 2.2                                 | 53.1                             | 1.1                        | 0.8                    | 0.5                    | 23.9                 | **                                        | 19.0                             | **    | **    | **    |
| 4,877                            | 2.0                                 | 60.5                             | 0.9                        | 0.7                    | 0.4                    | 25.5                 | **                                        | 16.7                             | **    | **    | **    |
| 5,486                            | 1.8                                 | 76.5                             | 0.7                        | 0.5                    | 0.4                    | 28.8                 | **                                        | **                               | **    | **    | **    |
| 6,096                            | 1.6                                 | 94.5                             | 0.6                        | 0.4                    | NR                     | 31.9                 | **                                        | **                               | **    | **    | **    |

# Bearing Load may limit load

\* Load limited by spot weld shear

\*\* Not recommended - KL/r exceeds 200

Notes

1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.

2. Refer to page 52 for reduction factors for unbraced lengths

3. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

4. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (1/16 holes) by 88%, KO by 82%.



## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

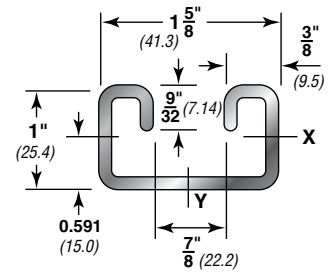
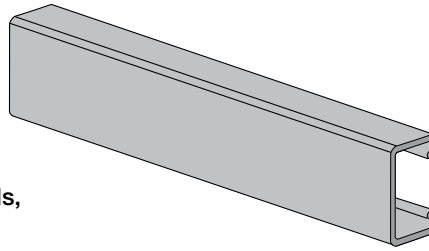
## AS 400

**1" X 1 5/8"** (25.4 x 41.3mm)

**12 Gauge Channel • wt./100 ft. - 149#**

Stocked in pre-galvanized, plain & powder coated Supr-Green, in both 10 & 20 ft. lengths. Other materials, finishes & lengths are available upon request.

See pages 38-39, 51 for welded combinations.



## PROPERTIES OF SECTION

| Catalog No.   | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|---------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|               | Lbs.    | Kg  | Sq. In.         | Sq. CM | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| <b>AS 400</b> | 1.49    | 2.2 | 0.423           | 2.729  | 0.055             | 2.289             | 0.095             | 1.557             | 0.361 | 0.917 | 0.162             | 6.743             | 0.199             | 3.261             | 0.619 | 1.572 |

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

## BEAM & COLUMN LOADS

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| In                               | Lbs                                 | In                               | Lbs                        | Lbs                    | Lbs                    | Lbs                  | Lbs                                       | Lbs                              | Lbs   | Lbs   | Lbs   |
| 12                               | 1,600                               | 0.02                             | 1,600                      | 1,600                  | 1,600                  | 1.5                  | 2,790                                     | 9,290                            | 9,050 | 8,700 | 8,350 |
| 18                               | 1,070                               | 0.05                             | 1,070                      | 1,070                  | 1,070                  | 2.2                  | 2,660                                     | 8,740                            | 8,350 | 7,860 | 7,430 |
| 24                               | 800                                 | 0.09                             | 800                        | 800                    | 600                    | 3.0                  | 2,500                                     | 8,180                            | 7,710 | 7,190 | 6,710 |
| 30                               | 640                                 | 0.14                             | 640                        | 580                    | 380                    | 3.7                  | 2,350                                     | 7,670                            | 7,190 | 6,500 | 5,410 |
| 36                               | 530                                 | 0.20                             | 530                        | 400                    | 270                    | 4.5                  | 2,190                                     | 7,240                            | 6,710 | 5,410 | 4,150 |
| 42                               | 460                                 | 0.27                             | 390                        | 290                    | 200                    | 5.2                  | 2,000                                     | 6,900                            | 5,840 | 4,350 | 3,070 |
| 48                               | 400                                 | 0.36                             | 300                        | 230                    | 150                    | 6.0                  | 1,810                                     | 6,280                            | 4,980 | 3,390 | 2,350 |
| 60                               | 320                                 | 0.56                             | 190                        | 140                    | 100                    | 7.5                  | 1,440                                     | 4,870                            | 3,390 | 2,170 | 1,510 |
| 72                               | 270                                 | 0.80                             | 130                        | 100                    | 70                     | 8.9                  | 1,150                                     | 3,560                            | 2,350 | 1,510 | **    |
| 84                               | 230                                 | 1.09                             | 100                        | 70                     | 50                     | 10.4                 | 940                                       | 2,620                            | 1,730 | **    | **    |
| 96                               | 200                                 | 1.42                             | 80                         | 60                     | 40                     | 11.9                 | **                                        | 2,000                            | **    | **    | **    |
| 108                              | 180                                 | 1.80                             | 60                         | 40                     | 30                     | 13.4                 | **                                        | 1,580                            | **    | **    | **    |
| 120                              | 160                                 | 2.22                             | 50                         | 40                     | 20                     | 14.9                 | **                                        | **                               | **    | **    | **    |
| 144                              | 130                                 | 3.20                             | 30                         | 30                     | 20                     | 17.9                 | **                                        | **                               | **    | **    | **    |
| 168                              | 110                                 | 4.35                             | NR                         | NR                     | NR                     | 20.9                 | **                                        | **                               | **    | **    | **    |
| 180                              | 110                                 | 5.00                             | NR                         | NR                     | NR                     | 22.4                 | **                                        | **                               | **    | **    | **    |
| 192                              | 100                                 | 5.68                             | NR                         | NR                     | NR                     | 23.8                 | **                                        | **                               | **    | **    | **    |
| 216                              | 90                                  | 7.19                             | NR                         | NR                     | NR                     | 26.8                 | **                                        | **                               | **    | **    | **    |
| 240                              | 80                                  | 8.88                             | NR                         | NR                     | NR                     | 29.8                 | **                                        | **                               | **    | **    | **    |

# Bearing Load may limit load

\*\* Not recommended - KL/r exceeds 200

### Notes

- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

- The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (% holes) by 88%, KO by 82%.

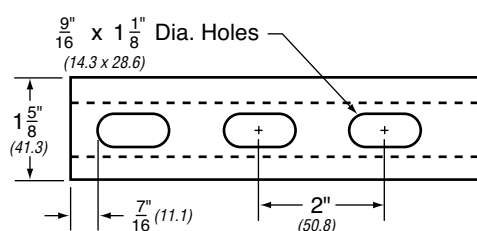
- Refer to page 52 for reduction factors for unbraced lengths

**LEGEND:**

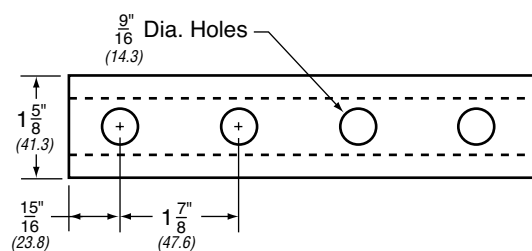
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**BEAM & COLUMN LOADS - METRIC**

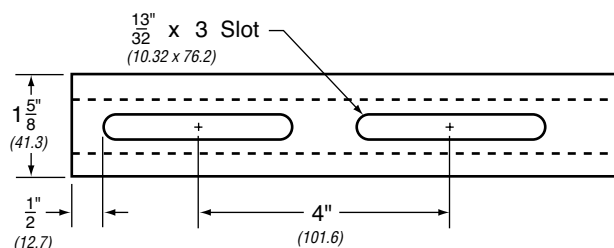
| Span or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|-------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                               | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                               |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                            | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                           | 7.1                                 | 0.5                              | 7.1                        | 7.1                    | 7.1                    | 0.7                  | 12.4                                      | 41.3                             | 40.3  | 38.7  | 37.1  |
| 457                           | 4.8                                 | 1.3                              | 4.8                        | 4.8                    | 4.8                    | 1.0                  | 11.8                                      | 38.9                             | 37.1  | 35.0  | 33.1  |
| 610                           | 3.6                                 | 2.3                              | 3.6                        | 3.6                    | 2.7                    | 1.4                  | 11.1                                      | 36.4                             | 34.3  | 32.0  | 29.8  |
| 762                           | 2.8                                 | 3.6                              | 2.8                        | 2.6                    | 1.7                    | 1.7                  | 10.5                                      | 34.1                             | 32.0  | 28.9  | 24.1  |
| 914                           | 2.4                                 | 5.1                              | 2.4                        | 1.8                    | 1.2                    | 2.0                  | 9.7                                       | 32.2                             | 29.8  | 24.1  | 18.5  |
| 1,067                         | 2.0                                 | 6.9                              | 1.7                        | 1.3                    | 0.9                    | 2.4                  | 8.9                                       | 30.7                             | 26.0  | 19.3  | 13.7  |
| 1,219                         | 1.8                                 | 9.1                              | 1.3                        | 1.0                    | 0.7                    | 2.7                  | 8.1                                       | 27.9                             | 22.2  | 15.1  | 10.5  |
| 1,524                         | 1.4                                 | 14.2                             | 0.8                        | 0.6                    | 0.4                    | 3.4                  | 6.4                                       | 21.7                             | 15.1  | 9.7   | 6.7   |
| 1,829                         | 1.2                                 | 20.3                             | 0.6                        | 0.4                    | 0.3                    | 4.0                  | 5.1                                       | 15.8                             | 10.5  | 6.7   | **    |
| 2,134                         | 1.0                                 | 27.7                             | 0.4                        | 0.3                    | 0.2                    | 4.7                  | 4.2                                       | 11.7                             | 7.7   | **    | **    |
| 2,438                         | 0.9                                 | 36.1                             | 0.4                        | 0.3                    | 0.2                    | 5.4                  | **                                        | 8.9                              | **    | **    | **    |
| 2,743                         | 0.8                                 | 45.7                             | 0.3                        | 0.2                    | 0.1                    | 6.1                  | **                                        | 7.0                              | **    | **    | **    |
| 3,048                         | 0.7                                 | 56.4                             | 0.2                        | 0.2                    | 0.1                    | 6.8                  | **                                        | **                               | **    | **    | **    |
| 3,658                         | 0.6                                 | 81.3                             | 0.1                        | 0.1                    | 0.1                    | 8.1                  | **                                        | **                               | **    | **    | **    |
| 4,267                         | 0.5                                 | 110.5                            | NR                         | NR                     | NR                     | 9.5                  | **                                        | **                               | **    | **    | **    |
| 4,572                         | 0.5                                 | 127.0                            | NR                         | NR                     | NR                     | 10.2                 | **                                        | **                               | **    | **    | **    |
| 4,877                         | 0.4                                 | 144.3                            | NR                         | NR                     | NR                     | 10.8                 | **                                        | **                               | **    | **    | **    |
| 5,486                         | 0.4                                 | 182.6                            | NR                         | NR                     | NR                     | 12.2                 | **                                        | **                               | **    | **    | **    |
| 6,096                         | 0.4                                 | 225.6                            | NR                         | NR                     | NR                     | 13.5                 | **                                        | **                               | **    | **    | **    |

**AS 400EH**
**PL, GR, PG**
**WITH ELONGATED HOLES**


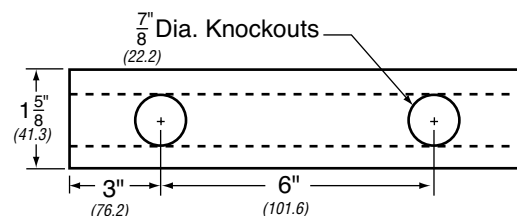
Wt/100 Ft: 144 Lbs

**AS 400H**
**PL, GR, PG**
**WITH HOLES**


Wt/100 Ft: 144 Lbs

**AS 400S**
**PL, GR, PG**
**WITH LONG SLOTS**


Wt/100 Ft: 134 Lbs

**AS 400KO**
**PL, GR, PG**
**WITH KNOCK OUT**


Wt/100 Ft: 149 Lbs

## LEGEND:

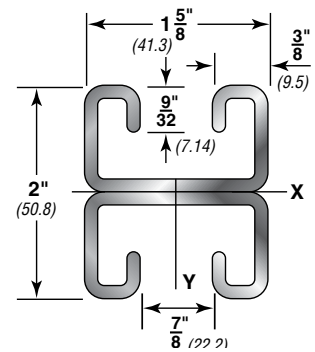
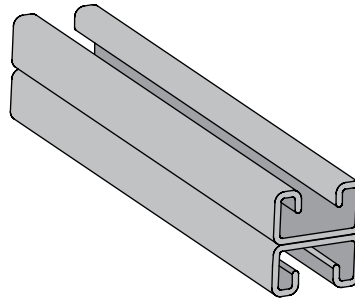
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## AS 400 BTB

**2" X 1<sup>5</sup>/<sub>8</sub>"** (50.8 x 41.3mm)

**12 Gauge Back-to-Back • wt./100 ft. - 298#**

Stocked in pre-galvanized, plain & powder coated Supr-Green, in both 10 & 20 ft. lengths. Other materials, finishes & lengths are available upon request.



## PROPERTIES OF SECTION

| Catalog No.       | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|-------------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|                   | Lbs.    | Kg  | Sq. In.         | Sq. cm | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| <b>AS 400 BTB</b> | 2.98    | 4.4 | 0.846           | 5.458  | 0.261             | 10.864            | 0.261             | 4.277             | 0.555 | 1.410 | 0.323             | 13.444            | 0.397             | 6.506             | 0.618 | 1.570 |

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

## BEAM & COLUMN LOADS

| Span or Unbraced Height | Static Beam Load (X-X Axis) |                            |                            |                     |                     |                   | Max. Allowable Load at Slot Face | Column Loading Data              |        |        |        |
|-------------------------|-----------------------------|----------------------------|----------------------------|---------------------|---------------------|-------------------|----------------------------------|----------------------------------|--------|--------|--------|
|                         | Max Allowable Uniform Load  | Deflection at Uniform Load | Uniform Load at Deflection |                     |                     |                   |                                  | Max. Column Load Applied at C.G. |        |        |        |
|                         |                             |                            | Span/180 Deflection        | Span/240 Deflection | Span/360 Deflection | Weight of Channel |                                  | k=.65                            | k=.80  | k=1.0  | k=1.2  |
| In                      | Lbs                         | In                         | Lbs                        | Lbs                 | Lbs                 | Lbs               | Lbs                              | Lbs                              | Lbs    | Lbs    | Lbs    |
| 12                      | 2,110 *                     | 0.01                       | 2,110 *                    | 2,110 *             | 2,110 *             | 3.0               | 4,840                            | 19,220                           | 18,990 | 18,660 | 18,320 |
| 18                      | 2,110 *                     | 0.03                       | 2,110 *                    | 2,110 *             | 2,110 *             | 4.5               | 4,740                            | 18,700                           | 18,320 | 17,820 | 17,370 |
| 24                      | 2,110 *                     | 0.05                       | 2,110 *                    | 2,110 *             | 2,110 *             | 6.0               | 4,630                            | 18,150                           | 17,670 | 17,110 | 16,660 |
| 30                      | 1,750                       | 0.08                       | 1,750                      | 1,750               | 1,750               | 7.5               | 4,510                            | 17,630                           | 17,110 | 16,550 | 15,320 |
| 36                      | 1,460                       | 0.12                       | 1,460                      | 1,460               | 1,270               | 8.9               | 4,390                            | 17,170                           | 16,660 | 15,320 | 13,700 |
| 42                      | 1,250                       | 0.16                       | 1,250                      | 1,250               | 930                 | 10.4              | 4,230                            | 16,790                           | 15,830 | 13,980 | 12,010 |
| 48                      | 1,090                       | 0.20                       | 1,090                      | 1,070               | 710                 | 11.9              | 4,050                            | 16,320                           | 14,790 | 12,580 | 10,310 |
| 60                      | 880                         | 0.32                       | 880                        | 680                 | 460                 | 14.9              | 3,660                            | 14,660                           | 12,580 | 9,760  | 7,140  |
| 72                      | 730                         | 0.46                       | 630                        | 480                 | 320                 | 17.9              | 3,260                            | 12,860                           | 10,310 | 7,140  | 4,960  |
| 84                      | 630                         | 0.63                       | 470                        | 350                 | 230                 | 20.9              | 2,870                            | 11,010                           | 8,160  | 5,250  | 3,640  |
| 96                      | 550                         | 0.82                       | 360                        | 270                 | 180                 | 23.8              | 2,490                            | 9,210                            | 6,280  | 4,020  | **     |
| 108                     | 490                         | 1.04                       | 280                        | 210                 | 140                 | 26.8              | 2,170                            | 7,510                            | 4,960  | 3,170  | **     |
| 120                     | 440                         | 1.28                       | 230                        | 170                 | 110                 | 29.8              | 1,910                            | 6,090                            | 4,020  | **     | **     |
| 144                     | 360                         | 1.84                       | 160                        | 120                 | 80                  | 35.8              | **                               | 4,230                            | **     | **     | **     |
| 168                     | 310                         | 2.51                       | 120                        | 90                  | 60                  | 41.7              | **                               | 3,100                            | **     | **     | **     |
| 180                     | 290                         | 2.88                       | 100                        | 80                  | 50                  | 44.7              | **                               | **                               | **     | **     | **     |
| 192                     | 270                         | 3.27                       | 90                         | 70                  | NR                  | 47.7              | **                               | **                               | **     | **     | **     |
| 216                     | 240                         | 4.14                       | 70                         | NR                  | NR                  | 53.6              | **                               | **                               | **     | **     | **     |
| 240                     | 220                         | 5.12                       | 60                         | NR                  | NR                  | 59.6              | **                               | **                               | **     | **     | **     |

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**BEAM & COLUMN LOADS - METRIC**

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                               | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                              | 9.4 *                               | 0.3                              | 9.4 *                      | 9.4 *                  | 9.4 *                  | 1.4                  | 21.5                                      | 85.5                             | 84.5  | 83.0  | 81.5  |
| 457                              | 9.4 *                               | 0.8                              | 9.4 *                      | 9.4 *                  | 9.4 *                  | 2.0                  | 21.1                                      | 83.2                             | 81.5  | 79.3  | 77.3  |
| 610                              | 9.4 *                               | 1.3                              | 9.4 *                      | 9.4 *                  | 9.4 *                  | 2.7                  | 20.6                                      | 80.7                             | 78.6  | 76.1  | 74.1  |
| 762                              | 7.8                                 | 2.0                              | 7.8                        | 7.8                    | 7.8                    | 3.4                  | 20.1                                      | 78.4                             | 76.1  | 73.6  | 68.1  |
| 914                              | 6.5                                 | 3.0                              | 6.5                        | 6.5                    | 5.6                    | 4.0                  | 19.5                                      | 76.4                             | 74.1  | 68.1  | 60.9  |
| 1,067                            | 5.6                                 | 4.1                              | 5.6                        | 5.6                    | 4.1                    | 4.7                  | 18.8                                      | 74.7                             | 70.4  | 62.2  | 53.4  |
| 1,219                            | 4.8                                 | 5.1                              | 4.8                        | 4.8                    | 3.2                    | 5.4                  | 18.0                                      | 72.6                             | 65.8  | 56.0  | 45.9  |
| 1,524                            | 3.9                                 | 8.1                              | 3.9                        | 3.0                    | 2.0                    | 6.8                  | 16.3                                      | 65.2                             | 56.0  | 43.4  | 31.8  |
| 1,829                            | 3.2                                 | 11.7                             | 2.8                        | 2.1                    | 1.4                    | 8.1                  | 14.5                                      | 57.2                             | 45.9  | 31.8  | 22.1  |
| 2,134                            | 2.8                                 | 16.0                             | 2.1                        | 1.6                    | 1.0                    | 9.5                  | 12.8                                      | 49.0                             | 36.3  | 23.4  | 16.2  |
| 2,438                            | 2.4                                 | 20.8                             | 1.6                        | 1.2                    | 0.8                    | 10.8                 | 11.1                                      | 41.0                             | 27.9  | 17.9  | **    |
| 2,743                            | 2.2                                 | 26.4                             | 1.2                        | 0.9                    | 0.6                    | 12.2                 | 9.7                                       | 33.4                             | 22.1  | 14.1  | **    |
| 3,048                            | 2.0                                 | 32.5                             | 1.0                        | 0.8                    | 0.5                    | 13.5                 | 8.5                                       | 27.1                             | 17.9  | **    | **    |
| 3,658                            | 1.6                                 | 46.7                             | 0.7                        | 0.5                    | 0.4                    | 16.2                 | **                                        | 18.8                             | **    | **    | **    |
| 4,267                            | 1.4                                 | 63.8                             | 0.5                        | 0.4                    | 0.3                    | 18.9                 | **                                        | 13.8                             | **    | **    | **    |
| 4,572                            | 1.3                                 | 73.2                             | 0.4                        | 0.4                    | 0.2                    | 20.3                 | **                                        | **                               | **    | **    | **    |
| 4,877                            | 1.2                                 | 83.1                             | 0.4                        | 0.3                    | NR                     | 21.6                 | **                                        | **                               | **    | **    | **    |
| 5,486                            | 1.1                                 | 105.2                            | 0.3                        | NR                     | NR                     | 24.3                 | **                                        | **                               | **    | **    | **    |
| 6,096                            | 1.0                                 | 130.0                            | 0.3                        | NR                     | NR                     | 27.0                 | **                                        | **                               | **    | **    | **    |

# Bearing Load may limit load

\* Load limited by spot weld shear

\*\* Not recommended - KL/r exceeds 200

**Notes**

1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.

2. Refer to page 52 for reduction factors for unbraced lengths

3. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

4. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (1/16 holes) by 88%, KO by 82%.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

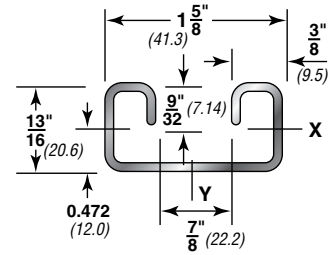
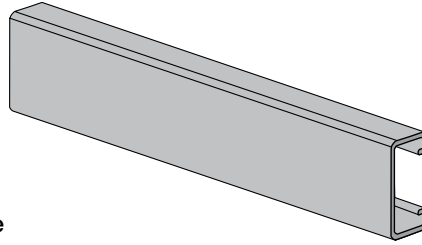
## AS 500

**1 3/16" X 1 5/8" (20.6 x 41.3mm)**

**14 Gauge Channel • wt./100 ft. - 103#**

Stocked in pre-galvanized, plain, powder coated Supr-Green, zinc trivalent chromium, and hot dipped galvanized, in 10 & 20 ft. lengths. Note: Also available in Stainless Steel 304 & 316 Alloys. Other materials, finishes & lengths are available upon request.

See pages 42-43, 51 for welded combinations.



## PROPERTIES OF SECTION

| Catalog No.   | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|---------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|               | Lbs.    | Kg  | Sq. In.         | Sq. cm | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| <b>AS 500</b> | 1.03    | 1.5 | 0.294           | 1.897  | 0.027             | 1.124             | 0.058             | 0.950             | 0.303 | 0.770 | 0.11              | 4.579             | 0.135             | 2.212             | 0.612 | 1.554 |

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

## BEAM & COLUMN LOADS

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| In                               | Lbs                                 | In                               | Lbs                        | Lbs                    | Lbs                    | Lbs                  | Lbs                                       | Lbs                              | Lbs   | Lbs   | Lbs   |
| 12                               | 970                                 | 0.03                             | 970                        | 970                    | 970                    | 1.0                  | 2,010                                     | 6,500                            | 6,340 | 6,090 | 5,820 |
| 18                               | 640                                 | 0.06                             | 640                        | 640                    | 520                    | 1.5                  | 1,890                                     | 6,120                            | 5,820 | 5,410 | 5,010 |
| 24                               | 480                                 | 0.11                             | 480                        | 440                    | 300                    | 2.1                  | 1,740                                     | 5,690                            | 5,270 | 4,700 | 3,980 |
| 30                               | 390                                 | 0.17                             | 380                        | 280                    | 190                    | 2.6                  | 1,590                                     | 5,240                            | 4,700 | 3,800 | 2,930 |
| 36                               | 320                                 | 0.25                             | 260                        | 200                    | 130                    | 3.1                  | 1,420                                     | 4,790                            | 3,980 | 2,930 | 2,050 |
| 42                               | 280                                 | 0.33                             | 190                        | 140                    | 100                    | 3.6                  | 1,250                                     | 4,200                            | 3,270 | 2,170 | 1,510 |
| 48                               | 240                                 | 0.44                             | 150                        | 110                    | 70                     | 4.1                  | 1,090                                     | 3,620                            | 2,600 | 1,660 | 1,150 |
| 60                               | 190                                 | 0.68                             | 90                         | 70                     | 50                     | 5.2                  | 830                                       | 2,520                            | 1,660 | 1,060 | **    |
| 72                               | 160                                 | 0.98                             | 70                         | 50                     | 30                     | 6.2                  | 650                                       | 1,750                            | 1,150 | **    | **    |
| 84                               | 140                                 | 1.34                             | 50                         | 40                     | 20                     | 7.2                  | **                                        | 1,280                            | **    | **    | **    |
| 96                               | 120                                 | 1.75                             | 40                         | 30                     | 20                     | 8.2                  | **                                        | **                               | **    | **    | **    |
| 108                              | 110                                 | 2.21                             | 30                         | 20                     | 10                     | 9.3                  | **                                        | **                               | **    | **    | **    |
| 120                              | 100                                 | 2.73                             | 20                         | 20                     | NR                     | 10.3                 | **                                        | **                               | **    | **    | **    |
| 144                              | 80                                  | 3.93                             | 20                         | NR                     | NR                     | 12.4                 | **                                        | **                               | **    | **    | **    |
| 168                              | 70                                  | 5.34                             | NR                         | NR                     | NR                     | 14.4                 | **                                        | **                               | **    | **    | **    |
| 180                              | 60                                  | 6.13                             | NR                         | NR                     | NR                     | 15.5                 | **                                        | **                               | **    | **    | **    |
| 192                              | 60                                  | 6.98                             | NR                         | NR                     | NR                     | 16.5                 | **                                        | **                               | **    | **    | **    |
| 216                              | 50                                  | 8.83                             | NR                         | NR                     | NR                     | 18.5                 | **                                        | **                               | **    | **    | **    |
| 240                              | 50                                  | 10.91                            | NR                         | NR                     | NR                     | 20.6                 | **                                        | **                               | **    | **    | **    |

# Bearing Load may limit load

\*\* Not recommended - KL/r exceeds 200

### Notes

- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

- The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (% holes) by 88%, KO by 82%.

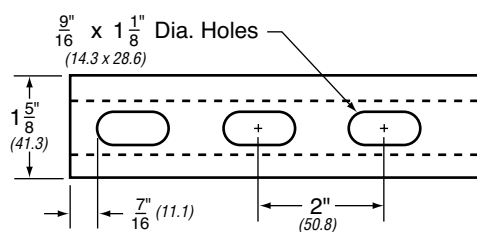
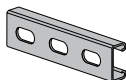
- Refer to page 52 for reduction factors for unbraced lengths

**LEGEND:**

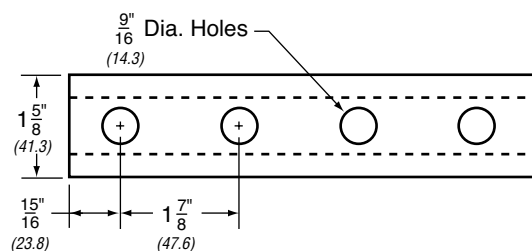
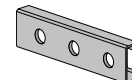
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**BEAM & COLUMN LOADS - METRIC**

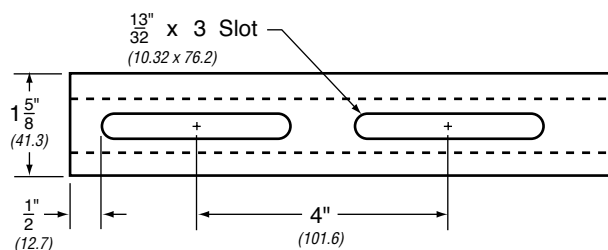
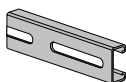
| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                               | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                              | 4.3                                 | 0.8                              | 4.3                        | 4.3                    | 4.3                    | 0.5                  | 8.9                                       | 28.9                             | 28.2  | 27.1  | 25.9  |
| 457                              | 2.8                                 | 1.5                              | 2.8                        | 2.8                    | 2.3                    | 0.7                  | 8.4                                       | 27.2                             | 25.9  | 24.1  | 22.3  |
| 610                              | 2.1                                 | 2.8                              | 2.1                        | 2.0                    | 1.3                    | 1.0                  | 7.7                                       | 25.3                             | 23.4  | 20.9  | 17.7  |
| 762                              | 1.7                                 | 4.3                              | 1.7                        | 1.2                    | 0.8                    | 1.2                  | 7.1                                       | 23.3                             | 20.9  | 16.9  | 13.0  |
| 914                              | 1.4                                 | 6.4                              | 1.2                        | 0.9                    | 0.6                    | 1.4                  | 6.3                                       | 21.3                             | 17.7  | 13.0  | 9.1   |
| 1,067                            | 1.2                                 | 8.4                              | 0.8                        | 0.6                    | 0.4                    | 1.6                  | 5.6                                       | 18.7                             | 14.5  | 9.7   | 6.7   |
| 1,219                            | 1.1                                 | 11.2                             | 0.7                        | 0.5                    | 0.3                    | 1.9                  | 4.8                                       | 16.1                             | 11.6  | 7.4   | 5.1   |
| 1,524                            | 0.8                                 | 17.3                             | 0.4                        | 0.3                    | 0.2                    | 2.4                  | 3.7                                       | 11.2                             | 7.4   | 4.7   | **    |
| 1,829                            | 0.7                                 | 24.9                             | 0.3                        | 0.2                    | 0.1                    | 2.8                  | 2.9                                       | 7.8                              | 5.1   | **    | **    |
| 2,134                            | 0.6                                 | 34.0                             | 0.2                        | 0.2                    | 0.1                    | 3.3                  | **                                        | 5.7                              | **    | **    | **    |
| 2,438                            | 0.5                                 | 44.5                             | 0.2                        | 0.1                    | 0.1                    | 3.7                  | **                                        | **                               | **    | **    | **    |
| 2,743                            | 0.5                                 | 56.1                             | 0.1                        | 0.1                    | 0.0                    | 4.2                  | **                                        | **                               | **    | **    | **    |
| 3,048                            | 0.4                                 | 69.3                             | 0.1                        | 0.1                    | NR                     | 4.7                  | **                                        | **                               | **    | **    | **    |
| 3,658                            | 0.4                                 | 99.8                             | 0.1                        | NR                     | NR                     | 5.6                  | **                                        | **                               | **    | **    | **    |
| 4,267                            | 0.3                                 | 135.6                            | NR                         | NR                     | NR                     | 6.5                  | **                                        | **                               | **    | **    | **    |
| 4,572                            | 0.3                                 | 155.7                            | NR                         | NR                     | NR                     | 7.0                  | **                                        | **                               | **    | **    | **    |
| 4,877                            | 0.3                                 | 177.3                            | NR                         | NR                     | NR                     | 7.5                  | **                                        | **                               | **    | **    | **    |
| 5,486                            | 0.2                                 | 224.3                            | NR                         | NR                     | NR                     | 8.4                  | **                                        | **                               | **    | **    | **    |
| 6,096                            | 0.2                                 | 277.1                            | NR                         | NR                     | NR                     | 9.3                  | **                                        | **                               | **    | **    | **    |

**AS 500EH**
**PL, GR, PG, SS, ZTC, HG**
**WITH ELONGATED HOLES**


Wt/100 Ft: 98 Lbs

**AS 500H**
**PL, GR, PG**
**WITH HOLES**


Wt/100 Ft: 98 Lbs

**AS 500S**
**PL, GR, PG**
**WITH LONG SLOTS**


Wt/100 Ft: 94 Lbs

**LEGEND:**

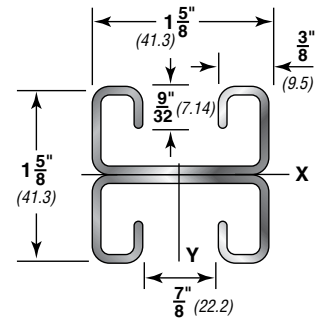
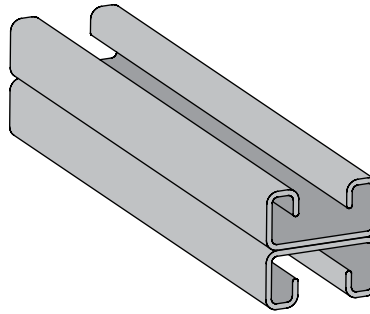
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 500 BTB**

**1 $\frac{5}{8}$ " X 1 $\frac{5}{8}$ " (41.3 x 41.3mm)**

**14 Gauge Back-to-Back • wt./100 ft. - 206#**

Stocked in pre-galvanized, plain, powder coated Supr-Green, zinc trivalent chromium, and hot dipped galvanized, in 10 & 20 ft. lengths. Note: Also available in Stainless Steel 304 & 316 Alloys. Other materials, finishes & lengths are available upon request.

**PROPERTIES OF SECTION**

| Catalog No.       | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|-------------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|                   | Lbs.    | Kg  | Sq. In.         | Sq. cm | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| <b>AS 500 BTB</b> | 2.06    | 3.1 | 0.589           | 3.800  | 0.123             | 5.120             | 0.151             | 2.474             | 0.457 | 1.161 | 0.22              | 9.157             | 0.271             | 4.441             | 0.611 | 1.552 |

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

**BEAM & COLUMN LOADS**

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |        |        |        |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|--------|--------|--------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |        |        |        |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80  | k=1.0  | k=1.2  |
| In                               | Lbs                                 | In                               | Lbs                        | Lbs                    | Lbs                    | Lbs                  | Lbs                                       | Lbs                              | Lbs    | Lbs    | Lbs    |
| 12                               | 1,090 *                             | 0.02                             | 1,090 *                    | 1,090 *                | 1,090 *                | 2.1                  | 3,420                                     | 13,500                           | 13,380 | 13,180 | 12,940 |
| 18                               | 1,090 *                             | 0.04                             | 1,090 *                    | 1,090 *                | 1,090 *                | 3.1                  | 3,340                                     | 13,210                           | 12,940 | 12,510 | 12,010 |
| 24                               | 1,090 *                             | 0.06                             | 1,090 *                    | 1,090 *                | 1,090 *                | 4.1                  | 3,230                                     | 12,810                           | 12,350 | 11,630 | 10,810 |
| 30                               | 1,010                               | 0.10                             | 1,010                      | 1,010                  | 860                    | 5.2                  | 3,100                                     | 12,310                           | 11,630 | 10,590 | 9,450  |
| 36                               | 850                                 | 0.14                             | 850                        | 850                    | 600                    | 6.2                  | 2,950                                     | 11,730                           | 10,810 | 9,450  | 8,010  |
| 42                               | 720                                 | 0.19                             | 720                        | 660                    | 440                    | 7.2                  | 2,790                                     | 11,080                           | 9,920  | 8,250  | 6,590  |
| 48                               | 630                                 | 0.25                             | 630                        | 500                    | 340                    | 8.2                  | 2,620                                     | 10,370                           | 8,970  | 7,060  | 5,260  |
| 60                               | 510                                 | 0.39                             | 430                        | 320                    | 220                    | 10.3                 | 2,280                                     | 8,850                            | 7,060  | 4,850  | 3,370  |
| 72                               | 420                                 | 0.57                             | 300                        | 220                    | 150                    | 12.4                 | 1,940                                     | 7,300                            | 5,260  | 3,370  | 2,340  |
| 84                               | 360                                 | 0.77                             | 220                        | 160                    | 110                    | 14.4                 | 1,630                                     | 5,800                            | 3,860  | 2,470  | **     |
| 96                               | 320                                 | 1.01                             | 170                        | 130                    | 80                     | 16.5                 | 1,390                                     | 4,480                            | 2,960  | **     | **     |
| 108                              | 280                                 | 1.27                             | 130                        | 100                    | 70                     | 18.5                 | 1,190                                     | 3,540                            | 2,340  | **     | **     |
| 120                              | 250                                 | 1.57                             | 110                        | 80                     | 50                     | 20.6                 | **                                        | 2,870                            | **     | **     | **     |
| 144                              | 210                                 | 2.27                             | 70                         | 60                     | 40                     | 24.7                 | **                                        | **                               | **     | **     | **     |
| 168                              | 180                                 | 3.08                             | 50                         | 40                     | 30                     | 28.8                 | **                                        | **                               | **     | **     | **     |
| 180                              | 170                                 | 3.54                             | 50                         | 40                     | NR                     | 30.9                 | **                                        | **                               | **     | **     | **     |
| 192                              | 160                                 | 4.03                             | 40                         | NR                     | NR                     | 33.0                 | **                                        | **                               | **     | **     | **     |
| 216                              | 140                                 | 5.10                             | NR                         | NR                     | NR                     | 37.1                 | **                                        | **                               | **     | **     | **     |
| 240                              | 130                                 | 6.29                             | NR                         | NR                     | NR                     | 41.2                 | **                                        | **                               | **     | **     | **     |



**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**BEAM & COLUMN LOADS - METRIC**

| Span or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|-------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                               | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                               |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                            | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                           | 4.8 *                               | 0.5                              | 4.8 *                      | 4.8 *                  | 4.8 *                  | 1.0                  | 15.2                                      | 60.1                             | 59.5  | 58.6  | 57.6  |
| 457                           | 4.8 *                               | 1.0                              | 4.8 *                      | 4.8 *                  | 4.8 *                  | 1.4                  | 14.9                                      | 58.8                             | 57.6  | 55.6  | 53.4  |
| 610                           | 4.8 *                               | 1.5                              | 4.8 *                      | 4.8 *                  | 4.8 *                  | 1.9                  | 14.4                                      | 57.0                             | 54.9  | 51.7  | 48.1  |
| 762                           | 4.5                                 | 2.5                              | 4.5                        | 4.5                    | 3.8                    | 2.4                  | 13.8                                      | 54.8                             | 51.7  | 47.1  | 42.0  |
| 914                           | 3.8                                 | 3.6                              | 3.8                        | 3.8                    | 2.7                    | 2.8                  | 13.1                                      | 52.2                             | 48.1  | 42.0  | 35.6  |
| 1,067                         | 3.2                                 | 4.8                              | 3.2                        | 2.9                    | 2.0                    | 3.3                  | 12.4                                      | 49.3                             | 44.1  | 36.7  | 29.3  |
| 1,219                         | 2.8                                 | 6.4                              | 2.8                        | 2.2                    | 1.5                    | 3.7                  | 11.7                                      | 46.1                             | 39.9  | 31.4  | 23.4  |
| 1,524                         | 2.3                                 | 9.9                              | 1.9                        | 1.4                    | 1.0                    | 4.7                  | 10.1                                      | 39.4                             | 31.4  | 21.6  | 15.0  |
| 1,829                         | 1.9                                 | 14.5                             | 1.3                        | 1.0                    | 0.7                    | 5.6                  | 8.6                                       | 32.5                             | 23.4  | 15.0  | 10.4  |
| 2,134                         | 1.6                                 | 19.6                             | 1.0                        | 0.7                    | 0.5                    | 6.5                  | 7.3                                       | 25.8                             | 17.2  | 11.0  | **    |
| 2,438                         | 1.4                                 | 25.7                             | 0.8                        | 0.6                    | 0.4                    | 7.5                  | 6.2                                       | 19.9                             | 13.2  | **    | **    |
| 2,743                         | 1.2                                 | 32.3                             | 0.6                        | 0.4                    | 0.3                    | 8.4                  | 5.3                                       | 15.7                             | 10.4  | **    | **    |
| 3,048                         | 1.1                                 | 39.9                             | 0.5                        | 0.4                    | 0.2                    | 9.3                  | **                                        | 12.8                             | **    | **    | **    |
| 3,658                         | 0.9                                 | 57.7                             | 0.3                        | 0.3                    | 0.2                    | 11.2                 | **                                        | **                               | **    | **    | **    |
| 4,267                         | 0.8                                 | 78.2                             | 0.2                        | 0.2                    | 0.1                    | 13.1                 | **                                        | **                               | **    | **    | **    |
| 4,572                         | 0.8                                 | 89.9                             | 0.2                        | 0.2                    | NR                     | 14.0                 | **                                        | **                               | **    | **    | **    |
| 4,877                         | 0.7                                 | 102.4                            | 0.2                        | NR                     | NR                     | 15.0                 | **                                        | **                               | **    | **    | **    |
| 5,486                         | 0.6                                 | 129.5                            | NR                         | NR                     | NR                     | 16.8                 | **                                        | **                               | **    | **    | **    |
| 6,096                         | 0.6                                 | 159.8                            | NR                         | NR                     | NR                     | 18.7                 | **                                        | **                               | **    | **    | **    |

# Bearing Load may limit load

\* Load limited by spot weld shear

\*\* Not recommended - KL/r exceeds 200

**Notes**

1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Refer to page 52 for reduction factors for unbraced lengths

3. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

4. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (1/16 holes) by 88%, KO by 82%.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

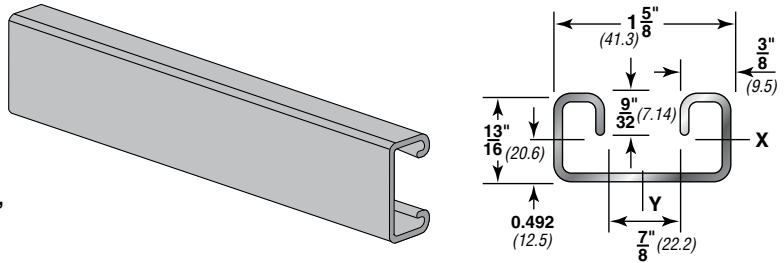
## AS 520

**13<sup>13</sup>/<sub>16</sub>" X 1<sup>5</sup>/<sub>8</sub>" (20.6 x 41.3mm)**

**12 Gauge Channel • wt./100 ft. - 135#**

Stocked in pre-galvanized, plain & powder coated Supr-Green, in both 10 & 20 ft. lengths. Other materials, finishes & lengths are available upon request.

See pages 46-47, 51 for welded combinations.



## PROPERTIES OF SECTION

| Catalog No.   | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|---------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|               | Lbs.    | Kg  | Sq. In.         | Sq. cm | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| <b>AS 520</b> | 1.37    | 2.0 | 0.384           | 2.477  | 0.032             | 1.332             | 0.067             | 1.098             | 0.289 | 0.734 | 0.139             | 5.786             | 0.171             | 2.802             | 0.602 | 1.529 |

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

## BEAM & COLUMN LOADS

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| In                               | Lbs                                 | In                               | Lbs                        | Lbs                    | Lbs                    | Lbs                  | Lbs                                       | Lbs                              | Lbs   | Lbs   | Lbs   |
| 12                               | 1,130                               | 0.03                             | 1,130                      | 1,130                  | 1,130                  | 1.4                  | 2,410                                     | 8,480                            | 8,280 | 7,990 | 7,710 |
| 18                               | 750                                 | 0.06                             | 750                        | 750                    | 620                    | 2.1                  | 2,270                                     | 8,030                            | 7,710 | 7,090 | 6,390 |
| 24                               | 560                                 | 0.11                             | 560                        | 520                    | 350                    | 2.7                  | 2,090                                     | 7,510                            | 6,860 | 5,900 | 4,910 |
| 30                               | 450                                 | 0.17                             | 450                        | 340                    | 220                    | 3.4                  | 1,880                                     | 6,800                            | 5,900 | 4,670 | 3,500 |
| 36                               | 380                                 | 0.24                             | 310                        | 230                    | 160                    | 4.1                  | 1,680                                     | 6,030                            | 4,910 | 3,500 | 2,430 |
| 42                               | 320                                 | 0.33                             | 230                        | 170                    | 110                    | 4.8                  | 1,470                                     | 5,220                            | 3,950 | 2,570 | 1,790 |
| 48                               | 280                                 | 0.43                             | 170                        | 130                    | 90                     | 5.5                  | 1,280                                     | 4,430                            | 3,080 | 1,970 | 1,370 |
| 60                               | 230                                 | 0.67                             | 110                        | 80                     | 60                     | 6.9                  | 970                                       | 2,980                            | 1,970 | **    | **    |
| 72                               | 190                                 | 0.97                             | 80                         | 60                     | 40                     | 8.2                  | 760                                       | 2,070                            | 1,370 | **    | **    |
| 84                               | 160                                 | 1.32                             | 60                         | 40                     | 30                     | 9.6                  | **                                        | 1,520                            | **    | **    | **    |
| 96                               | 140                                 | 1.72                             | 40                         | 30                     | 20                     | 11.0                 | **                                        | **                               | **    | **    | **    |
| 108                              | 130                                 | 2.18                             | 30                         | 30                     | 20                     | 12.4                 | **                                        | **                               | **    | **    | **    |
| 120                              | 110                                 | 2.69                             | 30                         | 20                     | NR                     | 13.7                 | **                                        | **                               | **    | **    | **    |
| 144                              | 90                                  | 3.88                             | 20                         | NR                     | NR                     | 16.5                 | **                                        | **                               | **    | **    | **    |
| 168                              | 80                                  | 5.28                             | NR                         | NR                     | NR                     | 19.2                 | **                                        | **                               | **    | **    | **    |
| 180                              | 80                                  | 6.06                             | NR                         | NR                     | NR                     | 20.6                 | **                                        | **                               | **    | **    | **    |
| 192                              | 70                                  | 6.89                             | NR                         | NR                     | NR                     | 22.0                 | **                                        | **                               | **    | **    | **    |
| 216                              | 60                                  | 8.72                             | NR                         | NR                     | NR                     | 24.7                 | **                                        | **                               | **    | **    | **    |
| 240                              | 60                                  | 10.77                            | NR                         | NR                     | NR                     | 27.5                 | **                                        | **                               | **    | **    | **    |

# Bearing Load may limit load

\*\* Not recommended - KL/r exceeds 200

### Notes

- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

- The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (% holes) by 88%, KO by 82%.

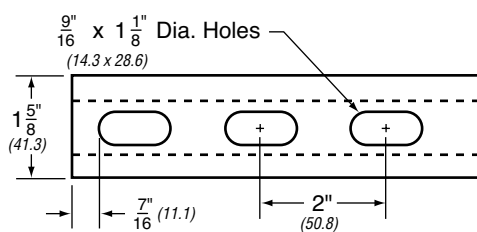
- Refer to page 52 for reduction factors for unbraced lengths

**LEGEND:**

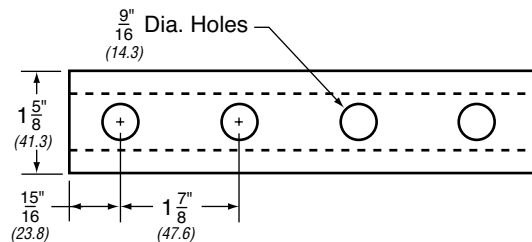
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**BEAM & COLUMN LOADS - METRIC**

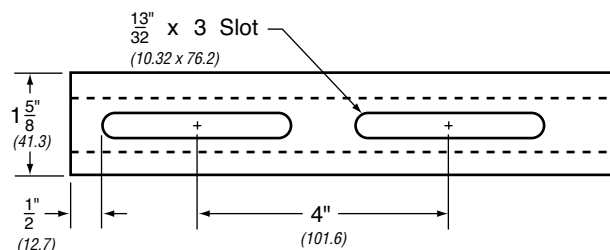
| Span or Unbraced Height | Static Beam Load (X-X Axis) |                            |                            |                     |                     |                   | Max. Allowable Load at Slot Face | Column Loading Data              |       |       |       |
|-------------------------|-----------------------------|----------------------------|----------------------------|---------------------|---------------------|-------------------|----------------------------------|----------------------------------|-------|-------|-------|
|                         | Max Allowable Uniform Load  | Deflection at Uniform Load | Uniform Load at Deflection |                     |                     |                   |                                  | Max. Column Load Applied at C.G. |       |       |       |
|                         |                             |                            | Span/180 Deflection        | Span/240 Deflection | Span/360 Deflection | Weight of Channel |                                  | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                      | Kn                          | mm                         | Kn                         | Kn                  | Kn                  | Kg                | Kn                               | Kn                               | Kn    | Kn    | Kn    |
| 305                     | 5.0                         | 0.8                        | 5.0                        | 5.0                 | 5.0                 | 0.6               | 10.7                             | 37.7                             | 36.8  | 35.5  | 34.3  |
| 457                     | 3.3                         | 1.5                        | 3.3                        | 3.3                 | 2.8                 | 1.0               | 10.1                             | 35.7                             | 34.3  | 31.5  | 28.4  |
| 610                     | 2.5                         | 2.8                        | 2.5                        | 2.3                 | 1.6                 | 1.2               | 9.3                              | 33.4                             | 30.5  | 26.2  | 21.8  |
| 762                     | 2.0                         | 4.3                        | 2.0                        | 1.5                 | 1.0                 | 1.5               | 8.4                              | 30.2                             | 26.2  | 20.8  | 15.6  |
| 914                     | 1.7                         | 6.1                        | 1.4                        | 1.0                 | 0.7                 | 1.9               | 7.5                              | 26.8                             | 21.8  | 15.6  | 10.8  |
| 1,067                   | 1.4                         | 8.4                        | 1.0                        | 0.8                 | 0.5                 | 2.2               | 6.5                              | 23.2                             | 17.6  | 11.4  | 8.0   |
| 1,219                   | 1.2                         | 10.9                       | 0.8                        | 0.6                 | 0.4                 | 2.5               | 5.7                              | 19.7                             | 13.7  | 8.8   | 6.1   |
| 1,524                   | 1.0                         | 17.0                       | 0.5                        | 0.4                 | 0.3                 | 3.1               | 4.3                              | 13.3                             | 8.8   | **    | **    |
| 1,829                   | 0.8                         | 24.6                       | 0.4                        | 0.3                 | 0.2                 | 3.7               | 3.4                              | 9.2                              | 6.1   | **    | **    |
| 2,134                   | 0.7                         | 33.5                       | 0.3                        | 0.2                 | 0.1                 | 4.4               | **                               | 6.8                              | **    | **    | **    |
| 2,438                   | 0.6                         | 43.7                       | 0.2                        | 0.1                 | 0.1                 | 5.0               | **                               | **                               | **    | **    | **    |
| 2,743                   | 0.6                         | 55.4                       | 0.1                        | 0.1                 | 0.1                 | 5.6               | **                               | **                               | **    | **    | **    |
| 3,048                   | 0.5                         | 68.3                       | 0.1                        | 0.1                 | NR                  | 6.2               | **                               | **                               | **    | **    | **    |
| 3,658                   | 0.4                         | 98.6                       | 0.1                        | NR                  | NR                  | 7.5               | **                               | **                               | **    | **    | **    |
| 4,267                   | 0.4                         | 134.1                      | NR                         | NR                  | NR                  | 8.7               | **                               | **                               | **    | **    | **    |
| 4,572                   | 0.4                         | 153.9                      | NR                         | NR                  | NR                  | 9.3               | **                               | **                               | **    | **    | **    |
| 4,877                   | 0.3                         | 175.0                      | NR                         | NR                  | NR                  | 10.0              | **                               | **                               | **    | **    | **    |
| 5,486                   | 0.3                         | 221.5                      | NR                         | NR                  | NR                  | 11.2              | **                               | **                               | **    | **    | **    |
| 6,096                   | 0.3                         | 273.6                      | NR                         | NR                  | NR                  | 12.5              | **                               | **                               | **    | **    | **    |

**AS 520EH**
**PL, GR, PG**
**WITH ELONGATED HOLES**


Wt/100 Ft: 130 Lbs

**AS 520H**
**PL, GR, PG**
**WITH HOLES**


Wt/100 Ft: 130 Lbs

**AS 520S**
**PL, GR, PG**
**WITH LONG SLOTS**


Wt/100 Ft: 120 Lbs

## LEGEND:

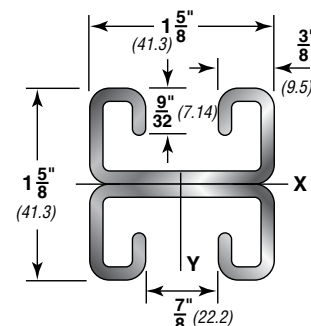
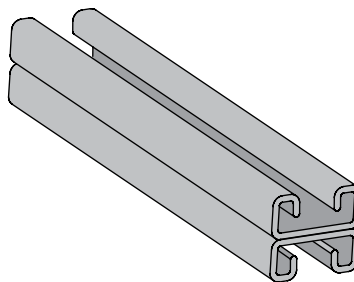
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (SS), Zinc Trivalent Chromium (ZTC) and Hot Dipped Galvanized (HG) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## AS 520 BTB

1<sup>5</sup>/<sub>8</sub>" X 1<sup>5</sup>/<sub>8</sub>" (41.3 x 41.3mm)

12 Gauge Back-to-Back • wt./100 ft. - 270#

Stocked in pre-galvanized, plain & powder coated Supr-Green, in both 10 & 20 ft. lengths. Other materials, finishes & lengths are available upon request.



## PROPERTIES OF SECTION

| Catalog No. | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|-------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|             | Lbs.    | Kg  | Sq. In.         | Sq. cm | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| AS 520 BTB  | 2.7     | 4.0 | 0.769           | 4.961  | 0.152             | 6.327             | 0.187             | 3.064             | 0.445 | 1.130 | 0.278             | 11.571            | 0.342             | 5.604             | 0.601 | 1.527 |

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

## BEAM & COLUMN LOADS

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |        |        |        |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|--------|--------|--------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |        |        |        |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80  | k=1.0  | k=1.2  |
| In                               | Lbs                                 | In                               | Lbs                        | Lbs                    | Lbs                    | Lbs                  | Lbs                                       | Lbs                              | Lbs    | Lbs    | Lbs    |
| 12                               | 1,710 *                             | 0.02                             | 1,710 *                    | 1,710 *                | 1,710 *                | 2.7                  | 4,270                                     | 17,380                           | 17,150 | 16,840 | 16,550 |
| 18                               | 1,710 *                             | 0.04                             | 1,710 *                    | 1,710 *                | 1,710 *                | 4.1                  | 4,170                                     | 16,880                           | 16,550 | 16,170 | 15,560 |
| 24                               | 1,570                               | 0.06                             | 1,570                      | 1,570                  | 1,570                  | 5.4                  | 4,040                                     | 16,420                           | 16,030 | 15,050 | 13,930 |
| 30                               | 1,250                               | 0.10                             | 1,250                      | 1,250                  | 1,060                  | 6.8                  | 3,880                                     | 15,980                           | 15,050 | 13,630 | 12,080 |
| 36                               | 1,040                               | 0.14                             | 1,040                      | 1,040                  | 740                    | 8.1                  | 3,690                                     | 15,180                           | 13,930 | 12,080 | 10,150 |
| 42                               | 900                                 | 0.19                             | 900                        | 810                    | 540                    | 9.5                  | 3,480                                     | 14,290                           | 12,710 | 10,470 | 8,260  |
| 48                               | 780                                 | 0.25                             | 780                        | 620                    | 420                    | 10.8                 | 3,270                                     | 13,330                           | 11,440 | 8,880  | 6,500  |
| 60                               | 630                                 | 0.39                             | 530                        | 400                    | 270                    | 13.5                 | 2,830                                     | 11,280                           | 8,880  | 5,990  | 4,160  |
| 72                               | 520                                 | 0.57                             | 370                        | 280                    | 180                    | 16.2                 | 2,390                                     | 9,190                            | 6,500  | 4,160  | 2,890  |
| 84                               | 450                                 | 0.77                             | 270                        | 200                    | 140                    | 18.9                 | 2,020                                     | 7,220                            | 4,770  | 3,060  | **     |
| 96                               | 390                                 | 1.01                             | 210                        | 160                    | 100                    | 21.6                 | 1,720                                     | 5,540                            | 3,660  | **     | **     |
| 108                              | 350                                 | 1.27                             | 160                        | 120                    | 80                     | 24.3                 | 1,480                                     | 4,380                            | 2,890  | **     | **     |
| 120                              | 310                                 | 1.57                             | 130                        | 100                    | 70                     | 27.0                 | **                                        | 3,540                            | **     | **     | **     |
| 144                              | 260                                 | 2.27                             | 90                         | 70                     | 50                     | 32.4                 | **                                        | **                               | **     | **     | **     |
| 168                              | 220                                 | 3.08                             | 70                         | 50                     | NR                     | 37.8                 | **                                        | **                               | **     | **     | **     |
| 180                              | 210                                 | 3.54                             | 60                         | NR                     | NR                     | 40.5                 | **                                        | **                               | **     | **     | **     |
| 192                              | 200                                 | 4.03                             | 50                         | NR                     | NR                     | 43.2                 | **                                        | **                               | **     | **     | **     |
| 216                              | 170                                 | 5.10                             | NR                         | NR                     | NR                     | 48.6                 | **                                        | **                               | **     | **     | **     |
| 240                              | 160                                 | 6.29                             | NR                         | NR                     | NR                     | 54.0                 | **                                        | **                               | **     | **     | **     |

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## BEAM & COLUMN LOADS - METRIC

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                               | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                              | 7.6                                 | 0.5                              | 7.6                        | 7.6                    | 7.6                    | 1.2                  | 19.0                                      | 77.3                             | 76.3  | 74.9  | 73.6  |
| 457                              | 7.6                                 | 1.0                              | 7.6                        | 7.6                    | 7.6                    | 1.9                  | 18.5                                      | 75.1                             | 73.6  | 71.9  | 69.2  |
| 610                              | 7.0                                 | 1.5                              | 7.0                        | 7.0                    | 7.0                    | 2.4                  | 18.0                                      | 73.0                             | 71.3  | 66.9  | 62.0  |
| 762                              | 5.6                                 | 2.5                              | 5.6                        | 5.6                    | 4.7                    | 3.1                  | 17.3                                      | 71.1                             | 66.9  | 60.6  | 53.7  |
| 914                              | 4.6                                 | 3.6                              | 4.6                        | 4.6                    | 3.3                    | 3.7                  | 16.4                                      | 67.5                             | 62.0  | 53.7  | 45.1  |
| 1,067                            | 4.0                                 | 4.8                              | 4.0                        | 3.6                    | 2.4                    | 4.3                  | 15.5                                      | 63.6                             | 56.5  | 46.6  | 36.7  |
| 1,219                            | 3.5                                 | 6.4                              | 3.5                        | 2.8                    | 1.9                    | 4.9                  | 14.5                                      | 59.3                             | 50.9  | 39.5  | 28.9  |
| 1,524                            | 2.8                                 | 9.9                              | 2.4                        | 1.8                    | 1.2                    | 6.1                  | 12.6                                      | 50.2                             | 39.5  | 26.6  | 18.5  |
| 1,829                            | 2.3                                 | 14.5                             | 1.6                        | 1.2                    | 0.8                    | 7.3                  | 10.6                                      | 40.9                             | 28.9  | 18.5  | 12.9  |
| 2,134                            | 2.0                                 | 19.6                             | 1.2                        | 0.9                    | 0.6                    | 8.6                  | 9.0                                       | 32.1                             | 21.2  | 13.6  | **    |
| 2,438                            | 1.7                                 | 25.7                             | 0.9                        | 0.7                    | 0.4                    | 9.8                  | 7.7                                       | 24.6                             | 16.3  | **    | **    |
| 2,743                            | 1.6                                 | 32.3                             | 0.7                        | 0.5                    | 0.4                    | 11.0                 | 6.6                                       | 19.5                             | 12.9  | **    | **    |
| 3,048                            | 1.4                                 | 39.9                             | 0.6                        | 0.4                    | 0.3                    | 12.2                 | **                                        | 15.7                             | **    | **    | **    |
| 3,658                            | 1.2                                 | 57.7                             | 0.4                        | 0.3                    | 0.2                    | 14.7                 | **                                        | **                               | **    | **    | **    |
| 4,267                            | 1.0                                 | 78.2                             | 0.3                        | 0.2                    | NR                     | 17.1                 | **                                        | **                               | **    | **    | **    |
| 4,572                            | 0.9                                 | 89.9                             | 0.3                        | NR                     | NR                     | 18.4                 | **                                        | **                               | **    | **    | **    |
| 4,877                            | 0.9                                 | 102.4                            | 0.2                        | NR                     | NR                     | 19.6                 | **                                        | **                               | **    | **    | **    |
| 5,486                            | 0.8                                 | 129.5                            | NR                         | NR                     | NR                     | 22.0                 | **                                        | **                               | **    | **    | **    |
| 6,096                            | 0.7                                 | 159.8                            | NR                         | NR                     | NR                     | 24.5                 | **                                        | **                               | **    | **    | **    |

# Bearing Load may limit load

\* Load limited by spot weld shear

\*\* Not recommended - KL/r exceeds 200

### Notes

- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Refer to page 52 for reduction factors for unbraced lengths

3. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

4. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%, S by 90%,  
H (1/16 holes) by 88%, KO by 82%.

## LEGEND:

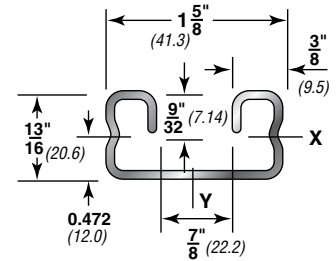
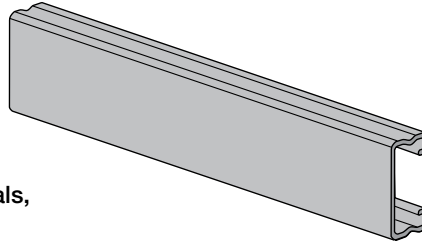
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## AS 560

13/16" X 1 5/8" (20.6 x 41.3mm)

16 Gauge Channel • wt./100 ft. - 86#

Stocked in pre-galvanized, plain & powder coated Supr-Green, in both 10 & 20 ft. lengths. Other materials, finishes & lengths are available upon request.



## PROPERTIES OF SECTION

| Catalog No.   | Wt./Ft. |     | Area of Section |        | X-X Axis          |                   |                   |                   |       |       | Y-Y Axis          |                   |                   |                   |       |       |
|---------------|---------|-----|-----------------|--------|-------------------|-------------------|-------------------|-------------------|-------|-------|-------------------|-------------------|-------------------|-------------------|-------|-------|
|               | Lbs.    | Kg  | Sq. In.         | Sq. CM | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  | I in <sup>4</sup> | I cm <sup>4</sup> | S in <sup>3</sup> | S cm <sup>3</sup> | r in. | r cm  |
| <b>AS 560</b> | 0.86    | 1.3 | 0.236           | 1.523  | 0.022             | 0.916             | 0.047             | 0.770             | 0.305 | 0.775 | 0.089             | 3.704             | 0.109             | 1.786             | 0.614 | 1.560 |

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

## BEAM & COLUMN LOADS

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| In                               | Lbs                                 | In                               | Lbs                        | Lbs                    | Lbs                    | Lbs                  | Lbs                                       | Lbs                              | Lbs   | Lbs   | Lbs   |
| 12                               | 790                                 | 0.03                             | 790                        | 790                    | 790                    | 0.9                  | 1,650                                     | 5,220                            | 5,070 | 4,840 | 4,580 |
| 18                               | 530                                 | 0.06                             | 530                        | 530                    | 430                    | 1.3                  | 1,540                                     | 4,870                            | 4,580 | 4,130 | 3,630 |
| 24                               | 400                                 | 0.11                             | 400                        | 360                    | 240                    | 1.7                  | 1,400                                     | 4,430                            | 3,970 | 3,300 | 2,630 |
| 30                               | 320                                 | 0.17                             | 310                        | 230                    | 150                    | 2.2                  | 1,250                                     | 3,920                            | 3,300 | 2,470 | 1,750 |
| 36                               | 260                                 | 0.25                             | 210                        | 160                    | 110                    | 2.6                  | 1,090                                     | 3,380                            | 2,630 | 1,750 | 1,220 |
| 42                               | 230                                 | 0.34                             | 160                        | 120                    | 80                     | 3.0                  | 940                                       | 2,840                            | 2,010 | 1,290 | 890   |
| 48                               | 200                                 | 0.44                             | 120                        | 90                     | 60                     | 3.4                  | 800                                       | 2,310                            | 1,540 | 990   | 680   |
| 60                               | 160                                 | 0.69                             | 80                         | 60                     | 40                     | 4.3                  | 600                                       | 1,490                            | 990   | 630   | **    |
| 72                               | 130                                 | 0.99                             | 50                         | 40                     | 30                     | 5.2                  | 460                                       | 1,040                            | 680   | **    | **    |
| 84                               | 110                                 | 1.35                             | 40                         | 30                     | 20                     | 6.0                  | **                                        | 760                              | **    | **    | **    |
| 96                               | 100                                 | 1.76                             | 30                         | 20                     | 20                     | 6.9                  | **                                        | **                               | **    | **    | **    |
| 108                              | 90                                  | 2.23                             | 20                         | 20                     | 10                     | 7.7                  | **                                        | **                               | **    | **    | **    |
| 120                              | 80                                  | 2.75                             | 20                         | 10                     | 10                     | 8.6                  | **                                        | **                               | **    | **    | **    |
| 144                              | 70                                  | 3.96                             | NR                         | NR                     | NR                     | 10.3                 | **                                        | **                               | **    | **    | **    |
| 168                              | 60                                  | 5.39                             | NR                         | NR                     | NR                     | 12.0                 | **                                        | **                               | **    | **    | **    |
| 180                              | 50                                  | 6.19                             | NR                         | NR                     | NR                     | 12.9                 | **                                        | **                               | **    | **    | **    |
| 192                              | 50                                  | 7.04                             | NR                         | NR                     | NR                     | 13.8                 | **                                        | **                               | **    | **    | **    |
| 216                              | 40                                  | 8.91                             | NR                         | NR                     | NR                     | 15.5                 | **                                        | **                               | **    | **    | **    |
| 240                              | 40                                  | 11.00                            | NR                         | NR                     | NR                     | 17.2                 | **                                        | **                               | **    | **    | **    |

# Bearing Load may limit load

\*\* Not recommended - KL/r exceeds 200

### Notes

- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

EH by 88%

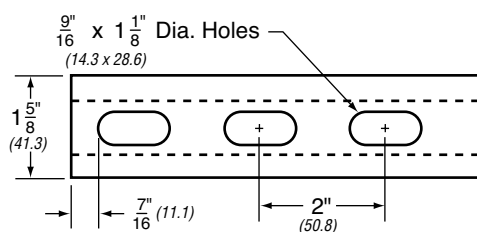
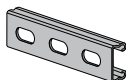
4. Refer to page 52 for reduction factors for unbraced lengths

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**BEAM & COLUMN LOADS - METRIC**

| Span<br>or<br>Unbraced<br>Height | Static Beam Load (X-X Axis)         |                                  |                            |                        |                        |                      | Max.<br>Allowable<br>Load at<br>Slot Face | Column Loading Data              |       |       |       |
|----------------------------------|-------------------------------------|----------------------------------|----------------------------|------------------------|------------------------|----------------------|-------------------------------------------|----------------------------------|-------|-------|-------|
|                                  | Max<br>Allowable<br>Uniform<br>Load | Deflection<br>at Uniform<br>Load | Uniform Load at Deflection |                        |                        |                      |                                           | Max. Column Load Applied at C.G. |       |       |       |
|                                  |                                     |                                  | Span/180<br>Deflection     | Span/240<br>Deflection | Span/360<br>Deflection | Weight of<br>Channel |                                           | k=.65                            | k=.80 | k=1.0 | k=1.2 |
| mm                               | Kn                                  | mm                               | Kn                         | Kn                     | Kn                     | Kg                   | Kn                                        | Kn                               | Kn    | Kn    | Kn    |
| 305                              | 3.5                                 | 0.8                              | 3.5                        | 3.5                    | 3.5                    | 0.4                  | 7.3                                       | 23.2                             | 22.6  | 21.5  | 20.4  |
| 457                              | 2.4                                 | 1.5                              | 2.4                        | 2.4                    | 1.9                    | 0.6                  | 6.9                                       | 21.7                             | 20.4  | 18.4  | 16.1  |
| 610                              | 1.8                                 | 2.8                              | 1.8                        | 1.6                    | 1.1                    | 0.8                  | 6.2                                       | 19.7                             | 17.7  | 14.7  | 11.7  |
| 762                              | 1.4                                 | 4.3                              | 1.4                        | 1.0                    | 0.7                    | 1.0                  | 5.6                                       | 17.4                             | 14.7  | 11.0  | 7.8   |
| 914                              | 1.2                                 | 6.4                              | 0.9                        | 0.7                    | 0.5                    | 1.2                  | 4.8                                       | 15.0                             | 11.7  | 7.8   | 5.4   |
| 1,067                            | 1.0                                 | 8.6                              | 0.7                        | 0.5                    | 0.4                    | 1.4                  | 4.2                                       | 12.6                             | 8.9   | 5.7   | 4.0   |
| 1,219                            | 0.9                                 | 11.2                             | 0.5                        | 0.4                    | 0.3                    | 1.5                  | 3.6                                       | 10.3                             | 6.9   | 4.4   | 3.0   |
| 1,524                            | 0.7                                 | 17.5                             | 0.4                        | 0.3                    | 0.2                    | 2.0                  | 2.7                                       | 6.6                              | 4.4   | 2.8   | **    |
| 1,829                            | 0.6                                 | 25.1                             | 0.2                        | 0.2                    | 0.1                    | 2.4                  | 2.0                                       | 4.6                              | 3.0   | **    | **    |
| 2,134                            | 0.5                                 | 34.3                             | 0.2                        | 0.1                    | 0.1                    | 2.7                  | **                                        | 3.4                              | **    | **    | **    |
| 2,438                            | 0.4                                 | 44.7                             | 0.1                        | 0.1                    | 0.1                    | 3.1                  | **                                        | **                               | **    | **    | **    |
| 2,743                            | 0.4                                 | 56.6                             | 0.1                        | 0.1                    | 0.0                    | 3.5                  | **                                        | **                               | **    | **    | **    |
| 3,048                            | 0.4                                 | 69.9                             | 0.1                        | 0.0                    | 0.0                    | 3.9                  | **                                        | **                               | **    | **    | **    |
| 3,658                            | 0.3                                 | 100.6                            | NR                         | NR                     | NR                     | 4.7                  | **                                        | **                               | **    | **    | **    |
| 4,267                            | 0.3                                 | 136.9                            | NR                         | NR                     | NR                     | 5.4                  | **                                        | **                               | **    | **    | **    |
| 4,572                            | 0.2                                 | 157.2                            | NR                         | NR                     | NR                     | 5.9                  | **                                        | **                               | **    | **    | **    |
| 4,877                            | 0.2                                 | 178.8                            | NR                         | NR                     | NR                     | 6.3                  | **                                        | **                               | **    | **    | **    |
| 5,486                            | 0.2                                 | 226.3                            | NR                         | NR                     | NR                     | 7.0                  | **                                        | **                               | **    | **    | **    |
| 6,096                            | 0.2                                 | 279.4                            | NR                         | NR                     | NR                     | 7.8                  | **                                        | **                               | **    | **    | **    |

**AS 560EH**
**PL, GR, PG**
**WITH ELONGATED HOLES**


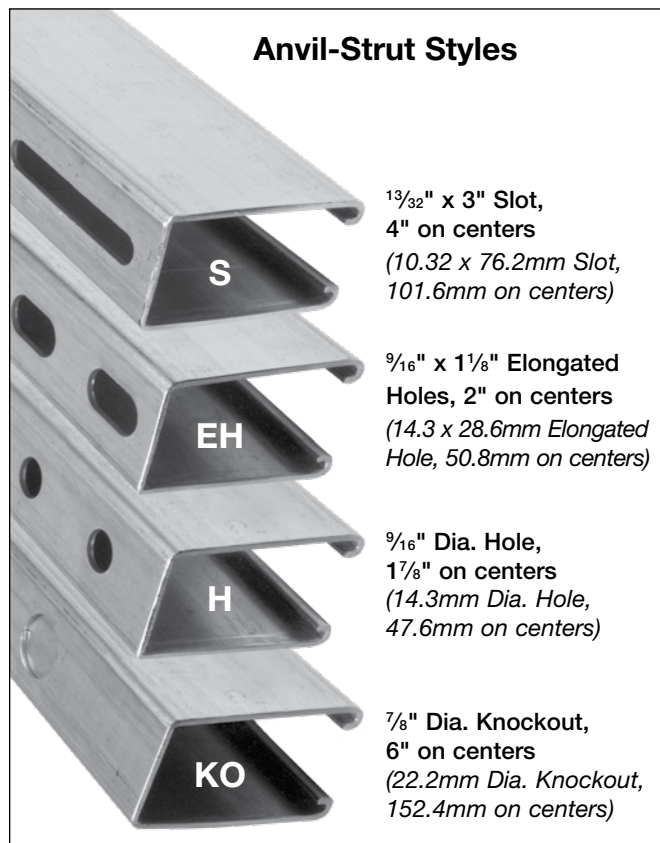
Wt/100 Ft: 80 Lbs



## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## ANVIL-STRUT CHANNEL FABRICATION DATA



### "S" CHANNEL

| Catalog No.    | Gauge | Dimensions                           | Wt./100 Ft. |
|----------------|-------|--------------------------------------|-------------|
| <b>AS 100S</b> | 12    | $3\frac{1}{4}$ " X $1\frac{5}{8}$ "  | 298         |
| <b>AS 150S</b> | 12    | $2\frac{7}{16}$ " X $1\frac{5}{8}$ " | 239         |
| <b>AS 200S</b> | 12    | $1\frac{5}{8}$ " X $1\frac{5}{8}$ "  | 179         |
| <b>AS 210S</b> | 14    | $1\frac{5}{8}$ " X $1\frac{5}{8}$ "  | 130         |
| <b>AS 300S</b> | 12    | $1\frac{3}{8}$ " X $1\frac{5}{8}$ "  | 161         |
| <b>AS 400S</b> | 12    | 1" X $1\frac{5}{8}$ "                | 134         |
| <b>AS 500S</b> | 14    | $1\frac{3}{16}$ " X $1\frac{5}{8}$ " | 94          |
| <b>AS 520S</b> | 12    | $1\frac{3}{16}$ " X $1\frac{5}{8}$ " | 125         |

### "H" CHANNEL ( $\frac{9}{16}$ HOLES)

| Catalog No.    | Gauge | Dimensions                           | Wt./100 Ft. |
|----------------|-------|--------------------------------------|-------------|
| <b>AS 100H</b> | 12    | $3\frac{1}{4}$ " X $1\frac{5}{8}$ "  | 308         |
| <b>AS 150H</b> | 12    | $2\frac{7}{16}$ " X $1\frac{5}{8}$ " | 249         |
| <b>AS 200H</b> | 12    | $1\frac{5}{8}$ " X $1\frac{5}{8}$ "  | 189         |
| <b>AS 210H</b> | 14    | $1\frac{5}{8}$ " X $1\frac{5}{8}$ "  | 140         |
| <b>AS 300H</b> | 12    | $1\frac{3}{8}$ " X $1\frac{5}{8}$ "  | 171         |
| <b>AS 400H</b> | 12    | 1" X $1\frac{5}{8}$ "                | 144         |
| <b>AS 500H</b> | 14    | $1\frac{3}{16}$ " X $1\frac{5}{8}$ " | 98          |
| <b>AS 520H</b> | 12    | $1\frac{3}{16}$ " X $1\frac{5}{8}$ " | 130         |

### "EH" CHANNEL

| Catalog No.     | Gauge | Dimensions                           | Wt./100 Ft. |
|-----------------|-------|--------------------------------------|-------------|
| <b>AS 100EH</b> | 12    | $3\frac{1}{4}$ " X $1\frac{5}{8}$ "  | 308         |
| <b>AS 150EH</b> | 12    | $2\frac{7}{16}$ " X $1\frac{5}{8}$ " | 254         |
| <b>AS 200EH</b> | 12    | $1\frac{5}{8}$ " X $1\frac{5}{8}$ "  | 189         |
| <b>AS 210EH</b> | 14    | $1\frac{5}{8}$ " X $1\frac{5}{8}$ "  | 140         |
| <b>AS 300EH</b> | 12    | $1\frac{3}{8}$ " X $1\frac{5}{8}$ "  | 171         |
| <b>AS 400EH</b> | 12    | 1" X $1\frac{5}{8}$ "                | 144         |
| <b>AS 500EH</b> | 14    | $1\frac{3}{16}$ " X $1\frac{5}{8}$ " | 98          |
| <b>AS 520EH</b> | 12    | $1\frac{3}{16}$ " X $1\frac{5}{8}$ " | 130         |
| <b>AS 560EH</b> | 16    | $1\frac{3}{16}$ " X $1\frac{5}{8}$ " | 98          |

### "KO" CHANNEL

| Catalog No.     | Gauge | Dimensions                           | Wt./100 Ft. |
|-----------------|-------|--------------------------------------|-------------|
| <b>AS 100KO</b> | 12    | $3\frac{1}{4}$ " X $1\frac{5}{8}$ "  | 313         |
| <b>AS 150KO</b> | 12    | $2\frac{7}{16}$ " X $1\frac{5}{8}$ " | 254         |
| <b>AS 200KO</b> | 12    | $1\frac{5}{8}$ " X $1\frac{5}{8}$ "  | 194         |
| <b>AS 210KO</b> | 14    | $1\frac{5}{8}$ " X $1\frac{5}{8}$ "  | 145         |
| <b>AS 300KO</b> | 12    | $1\frac{3}{8}$ " X $1\frac{5}{8}$ "  | 176         |
| <b>AS 400KO</b> | 12    | 1" X $1\frac{5}{8}$ "                | 149         |

**LEGEND:**

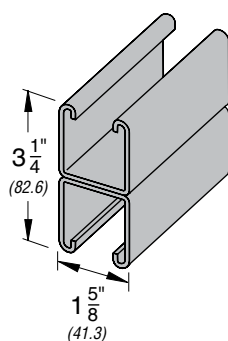
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## WELDED COMBINATIONS

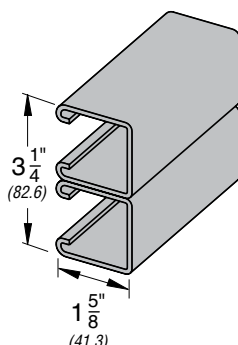
All welded combinations illustrated below are available in any of our Anvil-Strut channels (1 $\frac{5}{8}$ " x 1 $\frac{5}{8}$ " shown), in any of the following material or finishes: Plain, Pre-Galvanized, powder coated Supr-Green or Stainless Steel.

**NOTE: SLOTTED CHANNELS AVAILABLE IN ALL WELDED COMBINATIONS.**

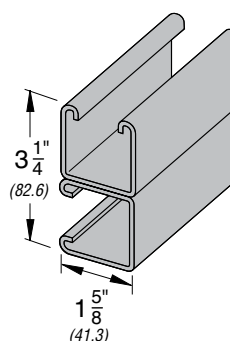
**Suffix BTB**



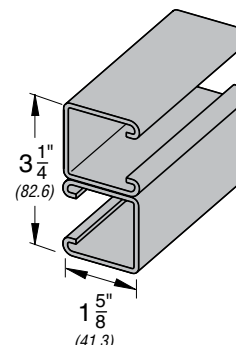
**Suffix STS**



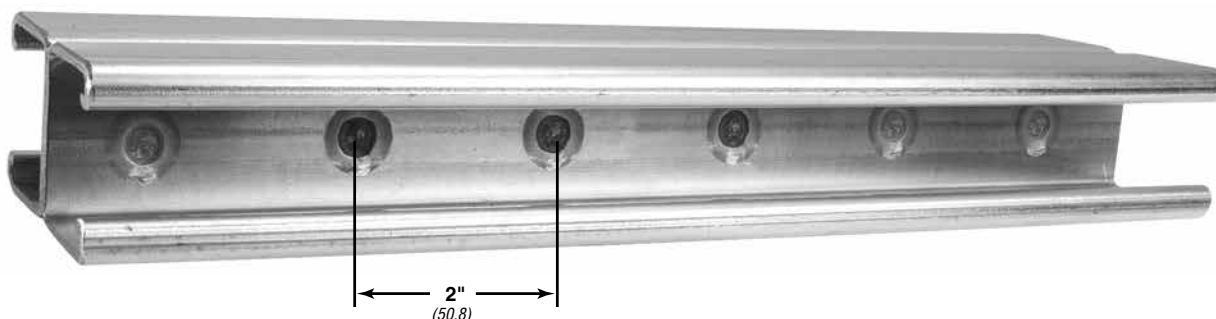
**Suffix BTS**



**Suffix STSR**



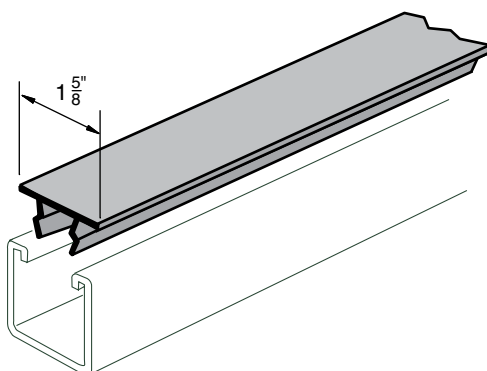
Our welded channels are spot welded 2" (50.8mm) on center, dimensions shown are for welded variations of any channel with or without slotted holes.



**AS 707**

**GR, PG**

**METAL RACEWAY CLOSURE STRIP**

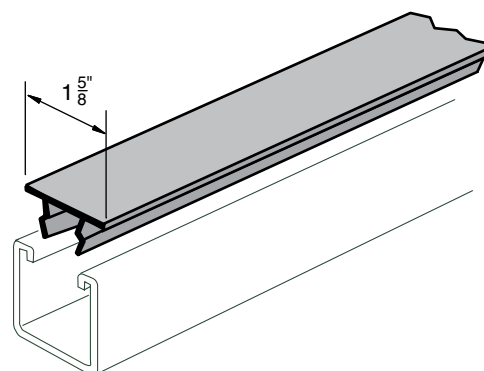


Wt/100 Ft: 47 Lbs

**AS 707P**

**GR, Grey, White**

**METAL PAINTED CLOSURE STRIP**



Wt/100 Ft: 10 Lbs

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

## LATERAL BRACING LOAD REDUCTION CHARTS

| Span |       | Single Channel |        |        |        |        |        |        |        |        |
|------|-------|----------------|--------|--------|--------|--------|--------|--------|--------|--------|
| In   | mm    | AS 100         | AS 150 | AS 200 | AS 210 | AS 300 | AS 400 | AS 500 | AS 520 | AS 560 |
| 12   | 305   | 1.00           | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   |
| 18   | 457   | 1.00           | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   |
| 24   | 610   | 0.98           | 0.99   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   | 1.00   |
| 30   | 762   | 0.92           | 0.94   | 0.97   | 0.94   | 0.98   | 1.00   | 1.00   | 0.99   | 0.98   |
| 36   | 914   | 0.85           | 0.88   | 0.93   | 0.89   | 0.96   | 0.98   | 0.97   | 0.97   | 0.95   |
| 42   | 1,067 | 0.78           | 0.82   | 0.90   | 0.83   | 0.93   | 0.97   | 0.95   | 0.95   | 0.92   |
| 48   | 1,219 | 0.70           | 0.77   | 0.87   | 0.77   | 0.91   | 0.96   | 0.93   | 0.94   | 0.89   |
| 60   | 1,524 | 0.55           | 0.67   | 0.82   | 0.67   | 0.87   | 0.93   | 0.90   | 0.92   | 0.84   |
| 72   | 1,829 | 0.44           | 0.58   | 0.77   | 0.58   | 0.84   | 0.92   | 0.87   | 0.91   | 0.79   |
| 84   | 2,134 | 0.37           | 0.50   | 0.74   | 0.51   | 0.81   | 0.90   | 0.85   | 0.89   | 0.76   |
| 96   | 2,438 | 0.33           | 0.45   | 0.70   | 0.46   | 0.78   | 0.88   | 0.83   | 0.87   | 0.73   |
| 108  | 2,743 | 0.30           | 0.42   | 0.67   | 0.42   | 0.76   | 0.87   | 0.80   | 0.86   | 0.70   |
| 120  | 3,048 | 0.27           | 0.39   | 0.64   | 0.39   | 0.73   | 0.85   | 0.78   | 0.85   | 0.67   |
| 144  | 3,658 | 0.24           | 0.35   | 0.59   | 0.35   | 0.69   | 0.82   | 0.74   | 0.82   | 0.61   |
| 168  | 4,267 | 0.22           | 0.32   | 0.54   | 0.32   | 0.65   | 0.79   | 0.70   | 0.79   | 0.56   |
| 180  | 4,572 | 0.21           | 0.31   | 0.52   | 0.30   | 0.62   | 0.77   | 0.68   | 0.77   | 0.54   |
| 192  | 4,877 | 0.20           | 0.30   | 0.50   | 0.29   | 0.60   | 0.76   | 0.66   | 0.76   | 0.52   |
| 216  | 5,486 | 0.19           | 0.28   | 0.46   | 0.27   | 0.56   | 0.72   | 0.62   | 0.73   | 0.48   |
| 240  | 6,096 | 0.18           | 0.26   | 0.43   | 0.26   | 0.52   | 0.69   | 0.58   | 0.70   | 0.44   |

| Span |       | Back-to-Back Channel |            |            |            |            |            |            |            |
|------|-------|----------------------|------------|------------|------------|------------|------------|------------|------------|
| In   | mm    | AS 100 BTB           | AS 150 BTB | AS 200 BTB | AS 210 BTB | AS 300 BTB | AS 400 BTB | AS 500 BTB | AS 520 BTB |
| 12   | 305   | 1.00                 | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       |
| 18   | 457   | 1.00                 | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       |
| 24   | 610   | 1.00                 | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       |
| 30   | 762   | 1.00                 | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       |
| 36   | 914   | 1.00                 | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       |
| 42   | 1,067 | 1.00                 | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       | 1.00       |
| 48   | 1,219 | 0.97                 | 0.98       | 1.00       | 0.98       | 1.00       | 1.00       | 0.99       | 1.00       |
| 60   | 1,524 | 0.90                 | 0.93       | 0.96       | 0.93       | 0.98       | 0.99       | 0.96       | 1.00       |
| 72   | 1,829 | 0.83                 | 0.87       | 0.92       | 0.88       | 0.95       | 0.97       | 0.92       | 0.97       |
| 84   | 2,134 | 0.76                 | 0.81       | 0.89       | 0.82       | 0.91       | 0.94       | 0.88       | 0.95       |
| 96   | 2,438 | 0.68                 | 0.75       | 0.85       | 0.76       | 0.88       | 0.92       | 0.84       | 0.92       |
| 108  | 2,743 | 0.61                 | 0.70       | 0.81       | 0.71       | 0.85       | 0.89       | 0.81       | 0.90       |
| 120  | 3,048 | 0.53                 | 0.64       | 0.77       | 0.65       | 0.82       | 0.86       | 0.77       | 0.88       |
| 144  | 3,658 | 0.42                 | 0.53       | 0.70       | 0.54       | 0.75       | 0.81       | 0.70       | 0.83       |
| 168  | 4,267 | 0.35                 | 0.44       | 0.62       | 0.45       | 0.69       | 0.76       | 0.62       | 0.78       |
| 180  | 4,572 | 0.32                 | 0.41       | 0.59       | 0.42       | 0.66       | 0.74       | 0.59       | 0.76       |
| 192  | 4,877 | 0.30                 | 0.38       | 0.55       | 0.39       | 0.63       | 0.71       | 0.55       | 0.73       |
| 216  | 5,486 | 0.26                 | 0.34       | 0.49       | 0.35       | 0.57       | 0.66       | 0.49       | 0.69       |
| 240  | 6,096 | 0.23                 | 0.30       | 0.44       | 0.31       | 0.51       | 0.61       | 0.44       | 0.64       |

## A collection of various mechanical fasteners including bolts, nuts, washers, and springs. The items are arranged in a scattered pattern. There is a large hex nut at the top center, a smaller hex nut to its right, a bolt with a washer and a spring below the large nut, a bolt with a washer and a spring to the right of the large nut, a long threaded rod at the bottom left, a bolt with a washer and a spring in the bottom center, and a bolt with a washer and a spring at the bottom right.

## GENERAL

## MATERIAL

## FINISH

## ORDERING

On the Hardware please specify the diameter or size required, and length where applicable.

## LOAD DATA

| Resistance to Slip <sup>(4)</sup> | Pull Out Strength <sup>(3)</sup> |
|-----------------------------------|----------------------------------|
| 12 Gauge - 1,652 lbs.             | 12 Gauge - 1,935 lbs.            |
| 14 Gauge - 1,100 lbs.             | 14 Gauge - 1,140 lbs.            |

## Channel Nuts - Notes

- AS-1.15

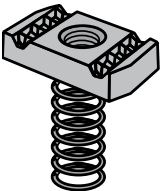
## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

AS LS

EG

CLAMPING NUT WITH LONG SPRING



| Size | Thd. | Thk.  | Wt./100 Pcs. | Use with Channel  |
|------|------|-------|--------------|-------------------|
| 1/4" | 20   | 1/4"  | 7            | AS 100,<br>AS 150 |
| 3/8" | 16   | 3/8"  | 10           |                   |
| 1/2" | 13   | 3/8"  | 10           |                   |
| 5/8" | 11   | 7/16" | 23           |                   |
| 3/4" | 10   | 7/16" | 20           |                   |

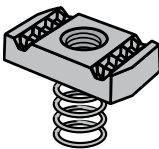
Std Pkg: 50 · Wt./100 pcs: See chart above.

Std Pkg: 50 · Wt/100 pcs: See chart above.

AS RS

EG, ZTC, (for SS see table)

CLAMPING NUT WITH REGULAR SPRING



| Size  | Thd. | Thk.         | Wt./100 Pcs. | Available in SS Finish | Use with Channel             |
|-------|------|--------------|--------------|------------------------|------------------------------|
| 1/4"  | 20   | 1/4"         | 7            | SS                     | AS 200,<br>AS 210,<br>AS 300 |
| 5/16" | 18   | 3/8"         | 7            | —                      |                              |
| 3/8"  | 16   | 3/8"         | 10           | SS                     |                              |
| 1/2"  | 13   | 1/2"         | 13           | SS                     |                              |
| 5/8"  | 11   | 7/16"        | 23           | —                      |                              |
| 3/4"  | 10   | 7/16" - 1/2" | 20           | —                      |                              |
| 7/8"  | 9    | 7/16" - 1/2" | 17           | —                      |                              |

Std Pkg: 100 · Wt/100 pcs: See chart above.

Std Pkg: 100 · Wt/100 pcs: See chart above.

AS SS

EG, ZTC

CLAMPING NUT WITH SHORT SPRING

| Size  | Thd. | Thk. | Wt./100 Pcs. | Use with Channel             |
|-------|------|------|--------------|------------------------------|
| #8    | 32   | —    | 7            | AS 400,<br>AS 500,<br>AS 560 |
| #10   | 24   | —    | 7            |                              |
| #10   | 32   | —    | 7            |                              |
| 1/4"  | 20   | 1/4" | 7            |                              |
| 5/16" | 18   | 3/8" | 7            |                              |
| 3/8"  | 16   | 3/8" | 9            |                              |
| 1/2"  | 13   | 3/8" | 9            |                              |
| 5/8"  | 11   | 3/8" | 10           |                              |

Std Pkg: 100 · Wt./100 pcs: See chart above.

Std Pkg: 100 · Wt/100 pcs: See chart above.

AS NS

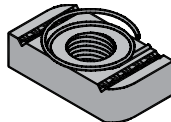
EG, ZTC, (for SS see table)

CLAMPING NUT WITHOUT SPRING

| Size             | Thd. | Thk.                               | Wt./<br>100<br>Pcs. | Available<br>in SS<br>Finish | Use with<br>Channel                                |
|------------------|------|------------------------------------|---------------------|------------------------------|----------------------------------------------------|
| #10              | 24   | $\frac{5}{32}$ " - $\frac{1}{4}$ " | 7                   | —                            | All<br>Anvil-Strut                                 |
| $\frac{1}{4}$ "  | 20   | $\frac{1}{4}$ "                    | 6                   | SS                           |                                                    |
| $\frac{5}{16}$ " | 18   | $\frac{3}{8}$ "                    | 7                   | —                            |                                                    |
| $\frac{3}{8}$ "  | 16   | $\frac{3}{8}$ "                    | 9                   | SS                           |                                                    |
| $\frac{1}{2}$ "  | 13   | $\frac{3}{8}$ "                    | 9                   | —                            |                                                    |
| $\frac{1}{2}$ "  | 13   | $\frac{1}{2}$ "                    | 12                  | SS                           | AS 100,<br>AS 150,<br>AS 200,<br>AS 210,<br>AS 300 |
| $\frac{5}{8}$ "  | 11   | $\frac{7}{16}$ " - $\frac{1}{2}$ " | 20                  | —                            |                                                    |
| $\frac{3}{4}$ "  | 10   | $\frac{7}{16}$ " - $\frac{1}{2}$ " | 18                  | —                            |                                                    |
| $\frac{7}{8}$ "  | 9    | $\frac{7}{16}$ " - $\frac{1}{2}$ " | 16                  | —                            |                                                    |
| $\frac{5}{8}$ "  | 11   | $\frac{3}{8}$ "                    | 14                  | —                            | All<br>Anvil-Strut                                 |
| $\frac{3}{4}$ "  | 10   | $\frac{3}{8}$ "                    | 14                  | —                            |                                                    |

Std Pkg: 100 · Wt/100 pcs: See chart above.

Std Pkg: 100 · Wt/100 pcs: See chart above.

| AS TG                                                                               | EG, ZTC |      |      |              |                    |
|-------------------------------------------------------------------------------------|---------|------|------|--------------|--------------------|
| TOP GRIP NUT WITH SPRING ON TOP                                                     |         |      |      |              |                    |
|  | Size    | Thd. | Thk. | Wt./100 Pcs. | Use with Channel   |
|                                                                                     | ¼"      | 20   | ¼"   | 6            | All<br>Anvil-Strut |
|                                                                                     | ⅝"      | 18   | ⅜"   | 7            |                    |
|                                                                                     | ⅜"      | 16   | ⅜"   | 9            |                    |
|                                                                                     | ½"      | 13   | ⅜"   | 9            |                    |

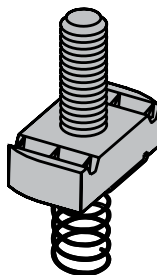
Std Pkg: 50 · Wt./100 pcs: See chart above.

Std Pkg: 50 · Wt/100 pcs: See chart above.

AS 517

EG

STUD NUT WITH RS SPRING



| Size     | Wt./100 Pcs. | Size     | Wt./100 Pcs. |
|----------|--------------|----------|--------------|
| ¼" x 1"  | 8.1          | ⅜" x 1½" | 14.0         |
| ¼" x 1¼" | 8.3          | ⅜" x 2"  | 15.0         |
| ¼" x 1½" | 8.6          | ½" x 1"  | 15.0         |
| ¼" x 2"  | 9.1          | ½" x 1¼" | 16.0         |
| ⅜" x 1"  | 13.0         | ½" x 1½" | 17.0         |
| ⅜" x 1¼" | 14.0         | ½" x 2"  | 19.0         |

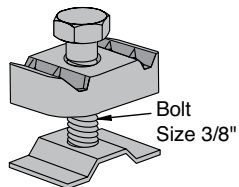
Std Pkg: 100 · Wt/100 pcs: See chart above.

Std Pkg: 100 · Wt/100 pcs: See chart above.

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 3500** EG, ZTC

**SEISMIC ROD STIFFENER**


| Size        | Wt./100 Pcs. |
|-------------|--------------|
| 3/8" - 5/8" | 16           |

Std Pkg: 25 · Wt/100 pcs: See chart above.

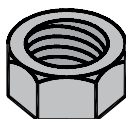
**AS 211** EG

**LOCK WASHER**


| Size | Wt./100 Pcs. |
|------|--------------|
| 1/4" | 0.3          |
| 3/8" | 0.7          |
| 1/2" | 1.5          |

Std Pkg: 100 · Wt/100 pcs: See chart above.

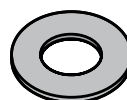
**AS 83** EG

**HEXAGON NUT**


| Size | Std. Pkg. | Wt./100 Pcs. |
|------|-----------|--------------|
| 1/4" | 500       | 0.6          |
| 3/8" | 500       | 1.6          |
| 1/2" | 100       | 4.8          |
| 5/8" | 50        | 7.0          |
| 3/4" | 50        | 12.0         |

Std Pkg & Wt/100 pcs: See chart above.

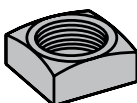
**AS 209** EG

**FLAT WASHER**


| Size | Std. Pkg. | Wt./100 Pcs. |
|------|-----------|--------------|
| 1/4" | 200       | 0.7          |
| 3/8" | 100       | 1.5          |
| 1/2" | 100       | 3.5          |
| 5/8" | 100       | 8.0          |
| 3/4" | 100       | 11.0         |

Std Pkg & Wt/100 pcs: See chart above.

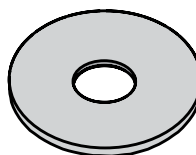
**AS 6108** EG

**SQUARE NUT**


| Size  | Std. Pkg. | Wt./100 Pcs. |
|-------|-----------|--------------|
| 1/4"  | 100       | 0.9          |
| 5/16" | 100       | 1.6          |
| 3/8"  | 100       | 2.6          |
| 1/2"  | 100       | 5.8          |

Std Pkg & Wt/100 pcs: See chart above.

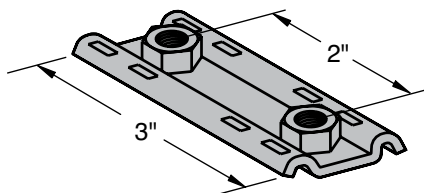
**AS 230** EG

**FENDER WASHER**


| Size | Std. Pkg. | Wt./100 Pcs. |
|------|-----------|--------------|
| 1/4" | 100       | 3.3          |
| 3/8" | 100       | 3.0          |
| 1/2" | 100       | 2.8          |

Std Pkg & Wt/100 pcs: See chart above.

**AS 3281** EG

**DOUBLE CONVEYOR ADJUSTING NUT**


Use for all 1 1/2" wide Anvil-Strut channels. Size 3/8", Threads 16

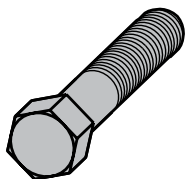
Wt/100 pcs: 175 Lbs

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

AS 6024 EG

### HEX HEAD CAP SCREW



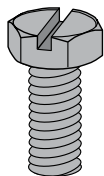
| Diameter | Length | Wt./100 Pcs. |
|----------|--------|--------------|
| 1/4"     | 3/4"   | 1.3          |
| 1/4"     | 1"     | 1.7          |
| 1/4"     | 1 1/4" | 2.0          |
| 1/4"     | 1 1/2" | 2.0          |
| 3/8"     | 3/4"   | 4.0          |
| 3/8"     | 1"     | 4.5          |
| 3/8"     | 1 1/4" | 5.3          |
| 3/8"     | 1 1/2" | 6.1          |
| 3/8"     | 2"     | 7.6          |
| 1/2"     | 3/4"   | 8.0          |
| 1/2"     | 1"     | 9.1          |
| 1/2"     | 1 1/4" | 10.0         |
| 1/2"     | 1 1/2" | 11.6         |
| 1/2"     | 1 3/4" | 13.2         |
| 1/2"     | 2"     | 14.7         |

For use with Channel Nuts to secure fittings to channels.

Std Pkg 100 & Wt/100 pcs: See chart above.

AS 6075 EG

### SLOTTED HEX HEAD MACHINE SCREW

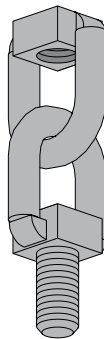


| Size           | Std Pkg | Wt/100 pcs |
|----------------|---------|------------|
| 1/4" X 3/4"    | 100     | 1.7        |
| 5/16" X 1"     | 100     | 2.6        |
| 5/16" X 1 1/4" | 100     | 3.0        |
| 5/16" X 1 1/2" | 100     | 3.4        |
| 3/8" X 1 1/4"  | 100     | 5.3        |

Std Pkg & Wt/100 pcs: See chart above.

AS 203 EG

### LINKED EYELET WITH STUD



| Size | Std Pkg | Wt/100 pcs |
|------|---------|------------|
| 3/8" | 100     | 27.0       |
| 1/2" | 50      | 45.0       |

Std Pkg & Wt/100 pcs: See chart above.

Fig. 146

### CONTINUOUS THREADED ROD



For additional information, please refer to the Anvil Pipe Hanger Catalog.

Fig. 135

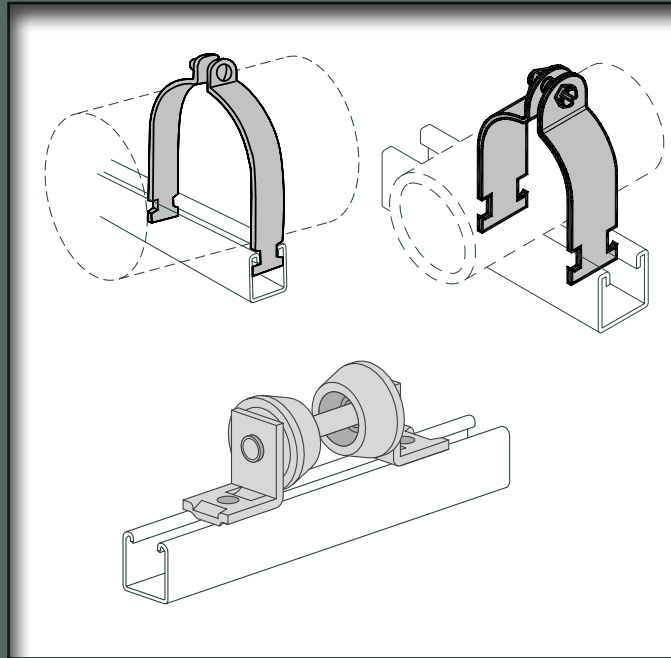
### ROD COUPLING



For additional information, please refer to the Anvil Pipe Hanger Catalog.



# PIPE & CONDUIT SUPPORT



## SPECIFICATIONS

### GENERAL

Anvil-Strut Pipe Clamps are all manufactured to fit into the standard openings of 1 $\frac{5}{8}$ " channel to support runs of piping where desired, to secure the pipe in place.

### MATERIAL

Anvil-Strut pipe clamps are manufactured from the following materials:

|                                   |             |
|-----------------------------------|-------------|
| Hot Rolled Steel Sheet .....      | ASTM A-1011 |
| Cold Rolled Steel Sheet .....     | ASTM A-1008 |
| Stainless Steel-Type 304/316..... | ASTM A-240  |
| Aluminum Clamps 5052H32.....      | ASTM B-209  |

### FINISH

Anvil-Strut pipe clamps are available in the following finishes:

|                               |               |
|-------------------------------|---------------|
| Electro Galvanized.....       | ASTM B-633    |
| Hot Dipped Galvanized .....   | ASTM A-123    |
| Zinc Trivalent Chromium ..... | ASTM B-633-85 |
| Powder Coated Supr-Green..... | ASTM B-117    |
| Copper Plated.....            | ASTM B-734-84 |

### ORDERING

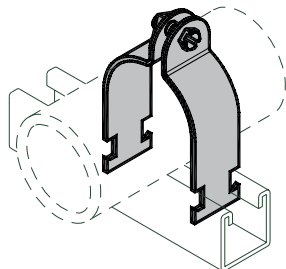
Please specify catalog number, size and finish.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

### AS 1000AS EG

#### EMT CONDUIT CLAMP



| Size   | O.D. Size | Steel Gauge | Wt./100 Pcs. | Std. Pkg. |
|--------|-----------|-------------|--------------|-----------|
| 1/2"   | 0.706     | 16          | 11           | 100       |
| 3/4"   | 0.922     | 16          | 12           | 100       |
| 1"     | 1.163     | 14          | 15           | 100       |
| 1 1/4" | 1.510     | 14          | 18           | 100       |
| 1 1/2" | 1.740     | 12          | 29           | 50        |
| 2"     | 2.197     | 12          | 33           | 50        |

All sizes are offered in pre-assembled only

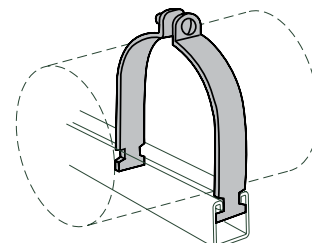
ORDERING: Specify figure number and pipe size.

Std Pkg & Wt./100 pcs: See chart above.

### AS 1300AS EG

#### UNIVERSAL CLAMP

For EMT, IMC, GC, Pipe, or O.D. Tube



| Size   | O.D. Range Min./Max. | Wt./100 Pcs. | Std. Pkg. |
|--------|----------------------|--------------|-----------|
| 1/2"   | 0.706 to 0.840       | 13           | 100       |
| 3/4"   | 0.922 to 1.050       | 14           | 100       |
| 1"     | 1.163 to 1.315       | 18           | 100       |
| 1 1/4" | 1.510 to 1.660       | 21           | 100       |
| 1 1/2" | 1.740 to 1.900       | 23           | 50        |
| 2"     | 2.197 to 2.375       | 25           | 100       |

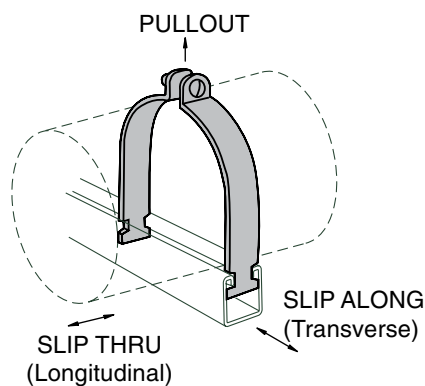
All sizes are offered in pre-assembled only

ORDERING: Specify figure number and pipe size.

Std Pkg & Wt./100 pcs: See chart above.

### AS 1100AS EG, SS, ZTC

#### RIGID CONDUIT CLAMP



| Pipe Size | O.D. Size | Steel Ga. | Wt./100 Pcs. | Std. Pkg. |
|-----------|-----------|-----------|--------------|-----------|
| 1/4"      | 0.540     | 16        | 11           | 100       |
| 3/8"      | 0.675     | 16        | 12           | 100       |
| 1/2"      | 0.840     | 16        | 13           | 100       |
| 3/4"      | 1.050     | 16-14     | 15           | 100       |
| 1"        | 1.315     | 14        | 18           | 100       |
| 1 1/4"    | 1.660     | 14        | 22           | 100       |
| 1 1/2"    | 1.900     | 14-12     | 32           | 50        |
| 2"        | 2.375     | 12        | 37           | 50        |
| 2 1/2"    | 2.875     | 12        | 42           | 50        |
| 3"        | 3.500     | 12        | 49           | 50        |
| 3 1/2"    | 4.000     | 11        | 65           | 25        |
| 4"        | 4.500     | 11        | 69           | 25        |
| 5"        | 5.563     | 11        | 82           | 25        |
| 6"        | 6.625     | 11-10     | 107          | 25        |
| 8"        | 8.625     | 11-10     | 133          | 25        |
| 10"       | 10.750    | 11-10     | 143          | 10        |
| 12"       | 12.750    | 11        | 170          | 10        |

All sizes are offered in pre-assembled only

ORDERING: Specify figure number and pipe size.

Std Pkg & Wt./100 pcs: See chart above.

| Nominal Pipe Size | Design Loads * |                  |                 |
|-------------------|----------------|------------------|-----------------|
|                   | Pullout (lbs)  | Slip Along (lbs) | Slip Thru (lbs) |
| 1/4"              | 650            | 90               | 100             |
| 3/8"              | 650            | 100              | 100             |
| 1/2"              | 650            | 100              | 100             |
| 3/4"              | 650            | 100              | 100             |
| 1"                | 650            | 100              | 100             |
| 1 1/4"            | 950            | 200              | 200             |
| 1 1/2"            | 1050           | 300              | 300             |
| 2"                | 1350           | 300              | 300             |
| 2 1/2"            | 1300           | 250              | 300             |
| 3"                | 1150           | 300              | 300             |
| 3 1/2"            | 1150           | 300              | 300             |
| 4"                | 1550           | 300              | 300             |
| 5"                | 1550           | 300              | 300             |
| 6"                | 1550           | 300              | 250             |
| 8"                | 1450           | 300              | 300             |
| 10"               | 1550           | —                | —               |
| 12"               | 1400           | —                | —               |

\* Safety Factor 3.0

**LEGEND:**

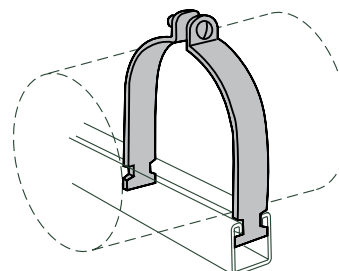
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 1200AS**

**EG, SS, ZTC, Copper Plated (Refer to table for sizes offered)**

**O.D. TUBING CLAMP**

| O.D. Size | Tube Size | Steel Ga. | Wt./ 100 Pcs. | Std. Pkg. |
|-----------|-----------|-----------|---------------|-----------|
| 1/4"      | 1/8"      | 16        | 8             | 100       |
| 3/8" ♦    | 1/4"      | 16        | 8             | 100       |
| 1/2" ♦    | 3/8"      | 16        | 8             | 100       |
| 5/8" ♦    | 1/2"      | 16        | 9             | 100       |
| 3/4"      | 5/8"      | 16        | 11            | 100       |
| 7/8" ♦    | 3/4"      | 16        | 11            | 100       |
| 1"        | 7/8"      | 14        | 13            | 100       |
| 1 1/8" ♦  | 1"        | 14        | 15            | 100       |
| 1 1/4"    | 1 1/8"    | 14        | 16            | 100       |
| 1 3/8" ♦  | 1 1/4"    | 14        | 17            | 100       |
| 1 1/2"    | 1 3/8"    | 14        | 18            | 100       |
| 1 5/8" ♦  | 1 1/2"    | 14        | 19            | 100       |
| 1 3/4"    | 1 5/8"    | 12        | 19            | 50        |
| 1 7/8"    | 1 3/4"    | 12        | 28            | 50        |
| 2"        | 1 7/8"    | 12        | 31            | 50        |
| 2 1/8" ♦  | 2"        | 12        | 31            | 50        |
| 2 1/4"    | 2 1/8"    | 12        | 33            | 50        |
| 2 3/8"    | 2 1/4"    | 12        | 34            | 50        |
| 2 1/2"    | 2 3/8"    | 12        | 35            | 50        |
| 2 5/8" ♦  | 2 1/2"    | 12        | 39            | 50        |
| 2 3/4"    | 2 5/8"    | 12        | 37            | 50        |
| 2 7/8"    | 2 3/4"    | 12        | 39            | 50        |
| 3"        | 2 7/8"    | 12        | 41            | 50        |
| 3 1/8" ♦  | 3"        | 12        | 42            | 50        |
| 3 1/4"    | 3 1/8"    | 12        | 42            | 50        |
| 3 3/8"    | 3 1/4"    | 12        | 43            | 50        |
| 3 1/2"    | 3 3/8"    | 12        | 44            | 50        |
| 3 5/8" ♦  | 3 1/2"    | 11        | 56            | 25        |
| 3 3/4"    | 3 5/8"    | 11        | 57            | 25        |
| 3 7/8"    | 3 3/4"    | 11        | 57            | 25        |
| 4"        | 3 7/8"    | 11        | 61            | 25        |
| 4 1/8" ♦  | 4"        | 11        | 61            | 25        |
| 4 1/4"    | 4 1/8"    | 11        | 64            | 25        |
| 4 3/8"    | 4 1/4"    | 11        | 64            | 25        |
| 4 1/2"    | 4 3/8"    | 11        | 66            | 25        |
| 4 5/8"    | 4 1/2"    | 11        | 66            | 25        |
| 4 3/4"    | 4 5/8"    | 11        | 68            | 25        |
| 4 7/8"    | 4 3/4"    | 11        | 73            | 25        |
| 5"        | 4 7/8"    | 11        | 74            | 25        |



| O.D. Size | Tube Size | Steel Ga. | Wt./ 100 Pcs. | Std. Pkg. |
|-----------|-----------|-----------|---------------|-----------|
| 5 1/8" ♦  | 5"        | 11        | 70            | 25        |
| 5 1/4"    | 5 1/8"    | 11        | 70            | 25        |
| 5 3/8"    | 5 1/4"    | 11        | 77            | 25        |
| 5 1/2"    | 5 3/8"    | 11        | 78            | 25        |
| 5 5/8"    | 5 1/2"    | 11-10     | 83            | 25        |
| 5 3/4"    | 5 5/8"    | 11-10     | 84            | 25        |
| 5 7/8"    | 5 3/4"    | 11-10     | 85            | 25        |
| 6"        | 5 7/8"    | 11-10     | 94            | 25        |
| 6 1/8" ♦  | 6"        | 11-10     | 94            | 25        |
| 6 1/4"    | 6 1/8"    | 11-10     | 96            | 25        |
| 6 3/8"    | 6 1/4"    | 11-10     | 98            | 25        |
| 6 1/2"    | 6 3/8"    | 11-10     | 99            | 25        |
| 6 5/8"    | 6 1/2"    | 11-10     | 100           | 25        |
| 6 3/4"    | 6 5/8"    | 11-10     | 102           | 25        |
| 6 7/8"    | 6 3/4"    | 11-10     | 104           | 25        |
| 7"        | 6 7/8"    | 11-10     | 108           | 25        |
| 7 1/8"    | 7"        | 11-10     | 108           | 25        |
| 7 1/4"    | 7 1/8"    | 11-10     | 112           | 25        |
| 7 3/8"    | 7 1/4"    | 11-10     | 112           | 25        |
| 7 1/2"    | 7 3/8"    | 11-10     | 116           | 25        |
| 7 5/8"    | 7 1/2"    | 11-10     | 115           | 25        |
| 7 3/4"    | 7 5/8"    | 11-10     | 119           | 25        |
| 7 7/8"    | 7 3/4"    | 11-10     | 119           | 25        |
| 8"        | 7 7/8"    | 11-10     | 121           | 25        |
| 8 1/8"    | 8"        | 11        | 125           | 25        |
| 8 1/4"    | 8 1/8"    | 11        | 126           | 25        |
| 8 3/8"    | 8 1/4"    | 11        | 128           | 25        |
| 8 1/2"    | 8 3/8"    | 11        | 129           | 25        |
| 8 5/8"    | 8 1/2"    | 11        | 130           | 25        |

♦ Available Copper Plated

All sizes are offered in pre-assembled only

ORDERING: Specify figure number and O.D. size.

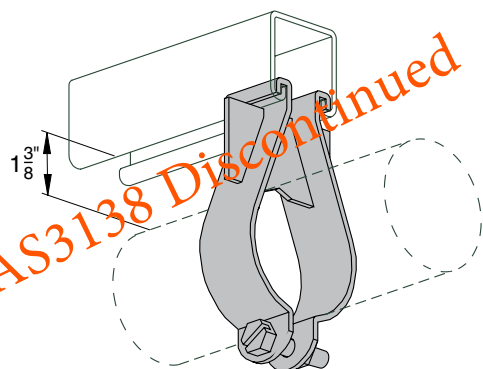
Std Pkg & Wt./100 pcs: See chart above.

### LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 3138** **EG**

### PARALLEL PIPE CLAMP



| Pipe Size | O.D. Size | Wt./100 Pcs. |
|-----------|-----------|--------------|
| 3/8"      | 0.675     | 27           |
| 1/2"      | 0.840     | 29           |
| 3/4"      | 1.050     | 30           |
| 1"        | 1.315     | 31           |
| 1 1/4"    | 1.660     | 38           |
| 1 1/2"    | 1.900     | 40           |

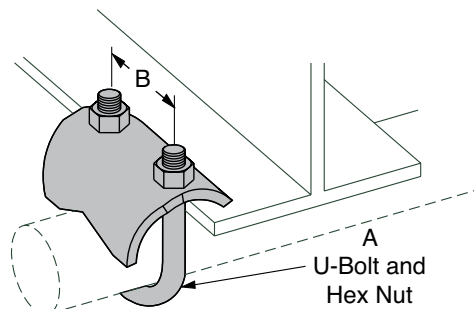
| Pipe Size | O.D. Size | Wt./100 Pcs. |
|-----------|-----------|--------------|
| 2"        | 2.375     | 47           |
| 2 1/2"    | 2.875     | 66           |
| 3"        | 3.500     | 78           |
| 3 1/2"    | 4.000     | 87           |
| 4"        | 4.500     | 90           |

ORDERING: Specify figure number and O.D. size.

Wt/100 pcs: See chart above.

**AS 51** **EG**

### RIGHT ANGLE PIPE OR CONDUIT CLAMP

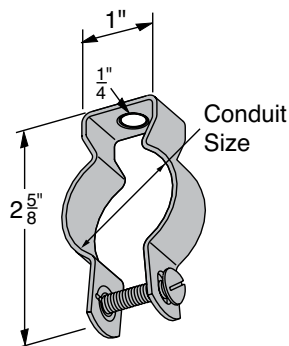


| Size   | A Dia. | B        | Wt/100 Pcs. | Std. Pkg. |
|--------|--------|----------|-------------|-----------|
| 3/8"   | 5/16"  | 15/16"   | 25          | 50        |
| 1/2"   | 5/16"  | 1 3/16"  | 41          | 50        |
| 3/4"   | 5/16"  | 1 7/16"  | 42          | 50        |
| 1"     | 5/16"  | 1 11/16" | 47          | 50        |
| 1 1/4" | 5/16"  | 2"       | 54          | 50        |
| 1 1/2" | 5/16"  | 2 3/8"   | 57          | 50        |
| 2"     | 3/8"   | 2 3/16"  | 85          | 50        |
| 2 1/2" | 3/8"   | 3 3/8"   | 106         | 50        |
| 3"     | 3/8"   | 4 1/8"   | 110         | 25        |
| 3 1/2" | 3/8"   | 4 5/8"   | 128         | 50        |
| 4"     | 3/8"   | 5 1/8"   | 140         | 50        |

Std Pkg & Wt/100 pcs: See chart above.

**AS 270** **EG**

### CONDUIT CLAMP

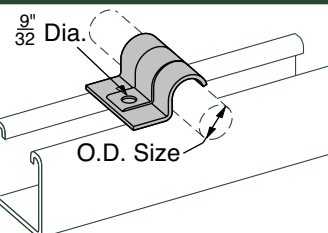


| Diameter        | Std. Pkg. | Wt./100 Pcs. |
|-----------------|-----------|--------------|
| 3/8" - 1/2"     | 50        | 6            |
| 3/4"            | 50        | 8            |
| 1"              | 50        | 9            |
| 1 1/4" - 1 1/2" | 25        | 19           |
| 2"              | 50        | 27           |

Std Pkg & Wt/100 pcs: See chart above.

**AS 1450** **EG**

### ONE-HOLE CLAMP FOR O.D. TUBING



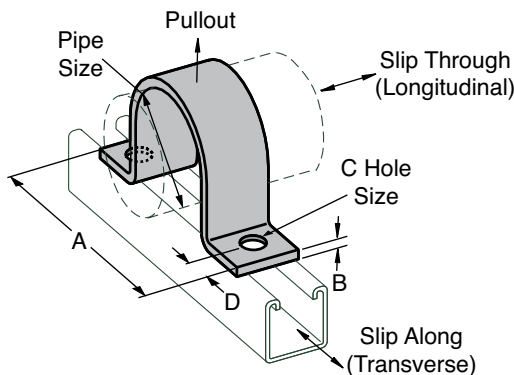
| O.D. Size | Steel Ga. | Wt./100 Pcs. | Std. Pkg. |
|-----------|-----------|--------------|-----------|
| 1/4"      | 16        | 4            | 100       |
| 3/8"      | 16        | 5            | 100       |
| 1/2"      | 16        | 6            | 100       |
| 5/8"      | 14        | 8            | 100       |
| 3/4"      | 14        | 9            | 100       |
| 7/8"      | 14        | 10           | 50        |
| 1"        | 14        | 11           | 50        |

ORDERING: Specify figure number and pipe size.

Std Pkg & Wt/100 pcs: See chart above.

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

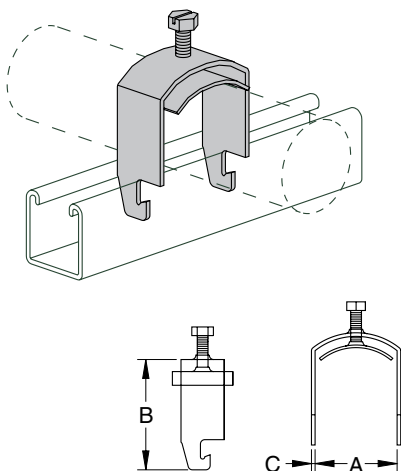
**AS 3126**
**EG**
**HOLD DOWN CLAMP**


| Pipe Size | A        | B    | C      | D      | Std Pkg | Wt./100 Pcs. | Load Rating |
|-----------|----------|------|--------|--------|---------|--------------|-------------|
| 1/2"      | 2 7/8"   | 1/8" | 9/32"  | 7/16"  | 50      | 23           | 500         |
| 3/4"      | 3 1/16"  | 1/8" | 9/32"  | 7/16"  | 50      | 26           | 500         |
| 1"        | 3 11/32" | 1/8" | 9/32"  | 7/16"  | 25      | 31           | 500         |
| 1 1/4"    | 3 11/16" | 1/8" | 9/32"  | 7/16"  | 25      | 35           | 500         |
| 1 1/2"    | 3 29/32" | 1/8" | 9/32"  | 7/16"  | 25      | 39           | 500         |
| 2"        | 5 21/32" | 1/4" | 13/32" | 13/16" | 25      | 94           | 1,000       |
| 2 1/2"    | 6 5/32"  | 1/4" | 13/32" | 13/16" | 25      | 114          | 1,000       |
| 3"        | 6 25/32" | 1/4" | 13/32" | 13/16" | 25      | 133          | 1,000       |
| 3 1/2"    | 7 9/32"  | 1/4" | 13/32" | 13/16" | 10      | 152          | 1,000       |
| 4"        | 7 25/32" | 1/4" | 13/32" | 13/16" | Bulk    | 176          | 1,000       |
| 5"        | 7 27/32" | 1/4" | 13/32" | 13/16" | Bulk    | 198          | 1,000       |
| 6"        | 9 29/32" | 1/4" | 13/32" | 13/16" | Bulk    | 225          | 1,000       |

| Nominal Pipe Size | Design Loads *  |                  |               |
|-------------------|-----------------|------------------|---------------|
|                   | Slip Thru (lbs) | Slip Along (lbs) | Pullout (lbs) |
| 1/2"              | 425             | 479              | 811           |
| 3/4"              | 184             | 405              | 850           |
| 1"                | 168             | 455              | 769           |
| 1 1/4"            | 402             | 401              | 830           |
| 1 1/2"            | 315             | 532              | 876           |
| 2"                | 553             | 1,728            | 2,133         |
| 2 1/2"            | 408             | 1,615            | 2,280         |
| 3"                | 900             | 1,494            | 2,295         |
| 3 1/2"            | 646             | 1,516            | 2,273         |
| 4"                | 834             | 1,463            | 2,324         |
| 5"                | 564             | 1,097            | 2,324         |
| 6"                | 494             | 899              | 2,250         |

\* Safety Factor 3.0

Std Pkg & Wt/100 pcs: See chart above.

**AS 3101 THRU AS 3114**
**EG**
**ONE PIECE CABLE AND CONDUIT CLAMP**


| No.     | Size   | A        | B      | C  | Std Pkg | Wt/100 pcs |
|---------|--------|----------|--------|----|---------|------------|
| AS 3101 | 3/8"   | 7/16"    | 1 5/8" | 14 | 100     | 6          |
| AS 3102 | 1/2"   | 9/16"    | 1 3/4" | 14 | 100     | 7          |
| AS 3103 | 3/4"   | 1 3/16"  | 2"     | 14 | 100     | 12         |
| AS 3104 | 1"     | 1 1/16"  | 2 1/4" | 14 | 100     | 15         |
| AS 3105 | 1 1/4" | 1 5/16"  | 2 1/2" | 14 | 100     | 19         |
| AS 3106 | 1 1/2" | 1 9/16"  | 2 3/4" | 14 | 100     | 20         |
| AS 3107 | 1 3/4" | 1 13/16" | 3"     | 12 | 100     | 25         |
| AS 3108 | 2"     | 2 1/16"  | 3 1/4" | 12 | 100     | 35         |
| AS 3109 | 2 3/8" | 2 7/16"  | 3 5/8" | 12 | 75      | 41         |
| AS 3110 | 2 3/4" | 2 13/16" | 4"     | 12 | 75      | 60         |
| AS 3111 | 3 1/4" | 3 5/16"  | 4 1/2" | 12 | 75      | 64         |
| AS 3112 | 3 3/4" | 3 13/16" | 5"     | 12 | 50      | 91         |
| AS 3113 | 4"     | 4 1/16"  | 5 1/4" | 12 | 40      | 100        |
| AS 3114 | 4 3/8" | 4 7/16"  | 5 5/8" | 12 | 30      | 115        |

Std Pkg & Wt/100 pcs: See chart above.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

AS 004OD THRU AS 106P

EG, 304SS, 316SS, ZTC

## CUSHION CLAMP ASSEMBLY

### Material

Clamp: 1008-1018 Carbon Steel

Cushion: High Strength TPE

Locknut: Nylon Insert

Service Temperature:

-65°F to 275°F.

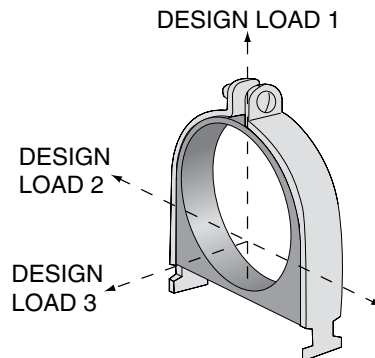
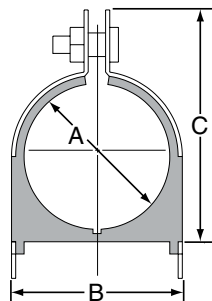
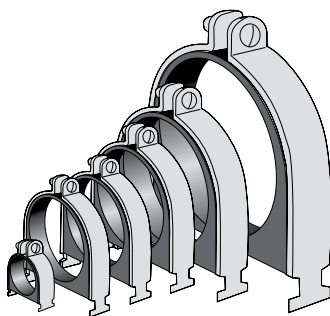
### Approvals

UL 2043 Fire Test for Heat and

Visible Smoke Release

25/50 Flame Spread/Smoke

Development Index



| TUBE SERIES |           |      |      |      |         |            |
|-------------|-----------|------|------|------|---------|------------|
| Part No.    | O.D. Size | A    | B    | C    | Std Pkg | Wt/100 pcs |
| AS 004OD    | 1/4"      | 0.25 | 0.62 | 0.98 | 25      | 10         |
| AS 006ODN   | 3/8"      | 0.37 | 0.82 | 1.13 | 25      | 11         |
| AS 008ODN   | 1/2"      | 0.50 | 0.94 | 1.34 | 25      | 13         |
| AS 010ODN   | 5/8"      | 0.62 | 1.06 | 1.54 | 25      | 14         |
| AS 012ODN   | 3/4"      | 0.75 | 1.20 | 1.68 | 25      | 14         |
| AS 014ODN   | 7/8"      | 0.87 | 1.31 | 1.82 | 25      | 15         |
| AS 016OD    | 1"        | 1.00 | 1.44 | 1.95 | 25      | 17         |
| AS 018ODN   | 1 1/8"    | 1.12 | 1.57 | 2.08 | 20      | 18         |
| AS 020OD    | 1 1/4"    | 1.25 | 1.70 | 2.21 | 20      | 18         |
| AS 022ODN   | 1 3/8"    | 1.37 | 1.82 | 2.34 | 20      | 20         |
| AS 024OD    | 1 1/2"    | 1.50 | 1.95 | 2.47 | 20      | 33         |
| AS 026ODN   | 1 5/8"    | 1.62 | 2.07 | 2.60 | 20      | 35         |
| AS 028OD    | 1 3/4"    | 1.75 | 2.20 | 2.73 | 20      | 37         |
| AS 032OD    | 2"        | 2.00 | 2.45 | 3.04 | 10      | 41         |
| AS 034OD    | 2 1/8"    | 2.12 | 2.57 | 3.23 | 10      | 46         |
| AS 040OD    | 2 1/2"    | 2.50 | 2.94 | 3.79 | 10      | 49         |
| AS 042OD    | 2 5/8"    | 2.62 | 3.07 | 3.92 | 5       | 51         |
| AS 048OD    | 3"        | 3.00 | 3.57 | 4.42 | 5       | 57         |
| AS 050OD    | 3 1/8"    | 3.12 | 3.57 | 4.42 | 5       | 60         |
| AS 058OD    | 3 5/8"    | 3.62 | 4.20 | 5.11 | 5       | 70         |
| AS 066OD    | 4 1/8"    | 4.12 | 4.57 | 5.54 | 5       | 94         |
| AS 082OD    | 5 1/8"    | 5.12 | 5.57 | 6.54 | 5       | 125        |
| AS 098OD    | 6 1/8"    | 6.12 | 6.57 | 7.54 | 5       | 130        |

| TUBE SERIES                   |                     |                     |                     |
|-------------------------------|---------------------|---------------------|---------------------|
| Copper & Steel Tube O.D. Size | Design Load 1 (lbs) | Design Load 2 (lbs) | Design Load 3 (lbs) |
| 1/4"                          | 400                 | 50                  | 50                  |
| 3/8"                          | 400                 | 50                  | 50                  |
| 1/2"                          | 400                 | 50                  | 50                  |
| 5/8"                          | 400                 | 50                  | 50                  |
| 3/4"                          | 600                 | 75                  | 75                  |
| 7/8"                          | 600                 | 75                  | 75                  |
| 1"                            | 600                 | 75                  | 75                  |
| 1 1/8"                        | 600                 | 75                  | 75                  |
| 1 1/4"                        | 600                 | 75                  | 75                  |
| 1 3/8"                        | 600                 | 75                  | 75                  |
| 1 1/2"                        | 600                 | 75                  | 75                  |
| 1 5/8"                        | 600                 | 75                  | 75                  |
| 1 3/4"                        | 800                 | 125                 | 125                 |
| 1 7/8"                        | 800                 | 125                 | 125                 |
| 2"                            | 800                 | 125                 | 125                 |
| 2 1/8"                        | 800                 | 125                 | 125                 |
| 2 1/4"                        | 800                 | 125                 | 125                 |
| 2 3/8"                        | 800                 | 125                 | 125                 |
| 2 1/2"                        | 800                 | 125                 | 125                 |
| 2 5/8"                        | 800                 | 125                 | 125                 |
| 3"                            | 800                 | 125                 | 125                 |
| 3 1/8"                        | 800                 | 125                 | 125                 |
| 3 5/8"                        | 1000                | 200                 | 150                 |
| 4 1/8"                        | 1000                | 200                 | 150                 |
| 6 1/8"                        | 1000                | 200                 | 150                 |

| PIPE SERIES |             |      |      |      |         |            |
|-------------|-------------|------|------|------|---------|------------|
| Part No.    | O.D. Size   | A    | B    | C    | Std Pkg | Wt/100 pcs |
| AS 009P     | 1/4" Pipe   | 0.54 | 0.98 | 1.34 | 25      | 13         |
| AS 011P     | 3/8" Pipe   | 0.67 | 1.13 | 1.54 | 25      | 14         |
| AS 014P     | 1/2" Pipe   | 0.84 | 1.29 | 1.82 | 25      | 15         |
| AS 017P     | 3/4" Pipe   | 1.05 | 1.50 | 2.08 | 20      | 17         |
| AS 021P     | 1" Pipe     | 1.31 | 1.76 | 2.34 | 20      | 19         |
| AS 027P     | 1 1/4" Pipe | 1.66 | 2.17 | 2.73 | 20      | 35         |
| AS 030ODP   | 1 1/2" Pipe | 1.90 | 2.35 | 2.86 | 20      | 39         |
| AS 038ODP   | 2" Pipe     | 2.37 | 2.82 | 3.67 | 10      | 47         |
| AS 046ODP   | 2 1/2" Pipe | 2.87 | 3.32 | 4.17 | 5       | 55         |
| AS 056ODP   | 3" Pipe     | 3.50 | 3.95 | 4.79 | 5       | 55         |
| AS 064ODP   | 3 1/2" Pipe | 4.00 | 4.45 | 5.42 | 5       | 88         |
| AS 072ODP   | 4" Pipe     | 4.50 | 4.95 | 5.92 | 5       | 110        |
| AS 089P     | 5" Pipe     | 5.56 | 6.01 | 6.92 | 5       | 130        |
| AS 106P     | 6" Pipe     | 6.62 | 7.07 | 8.23 | 5       | 140        |

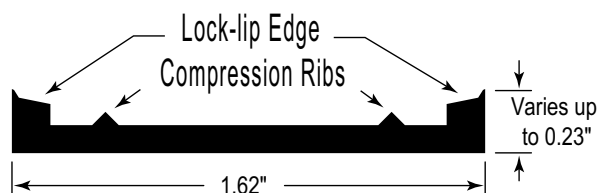
| PIPE SERIES          |                     |                     |                     |
|----------------------|---------------------|---------------------|---------------------|
| Pipe Sizes (Nominal) | Design Load 1 (lbs) | Design Load 2 (lbs) | Design Load 3 (lbs) |
| 1/4"                 | 400                 | 50                  | 50                  |
| 3/8"                 | 600                 | 75                  | 75                  |
| 1/2"                 | 600                 | 75                  | 75                  |
| 3/4"                 | 600                 | 75                  | 75                  |
| 1"                   | 600                 | 75                  | 75                  |
| 1 1/4"               | 800                 | 125                 | 125                 |
| 1 1/2"               | 800                 | 125                 | 125                 |
| 2"                   | 800                 | 125                 | 125                 |
| 2 1/2"               | 800                 | 125                 | 125                 |
| 3"                   | 1000                | 200                 | 150                 |
| 3 1/2"               | 1000                | 200                 | 150                 |
| 4"                   | 1000                | 200                 | 150                 |
| 5"                   | 1000                | 200                 | 150                 |
| 6"                   | 1000                | 200                 | 150                 |

Std Pkg & Wt/100 pcs: See chart above.

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
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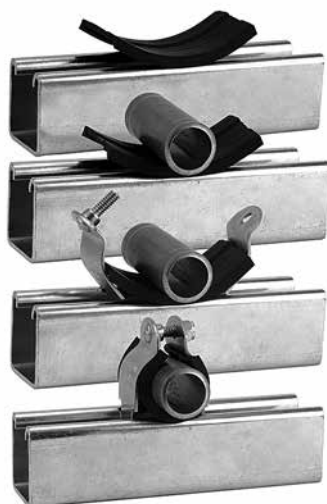
AS 3792

**CUSHION STRIP**


- Manufactured from a thermoplastic elastomer, Cushion Wrap is designed for use from -50°F to 275°F.
- Easy Stocking – Packaged in 20 foot rolls in an E-Z dispenser box for convenience in handling and storage. Cush-A-Strip roll part number is 75100 Cushion Wrap.
- Easy Measuring – Marked in ¼" increments for fast measuring and cutting, while eliminating waste.
- Lock-lip edges ensure that Cushion Wrap will remain in place with a balanced grip.
- Clamps ordered Separately. They are available with a standard bolt and nylon lock nut in steel (electro-dichromate), and stainless steel, in sizes ranging from ¼" tube to 6" pipe. Use C-1100 (EMT, C-1101 (Tube) or C-1102 (Rigid Conduit) pipe clamps.



(1) Cut appropriate length strip using the cutting schedule shown on right.



(2) Place the pipe on the Cushion Wrap.

(3) Insert the clamps in the strut.

(4) Tighten the clamps.

**Cutting Chart**

| Clamp Size O.D. | Tube Size O.D. | Pipe Size (Nom.) | Cutting Schedule |
|-----------------|----------------|------------------|------------------|
| 1/2"            | 1/4"           | —                | 7/8              |
| 5/8"            | 3/8"           | —                | 1 1/8            |
| 3/4"            | 1/2"           | 1/4"             | 1 1/2            |
| 7/8"            | 5/8"           | 3/8"             | 2                |
| 1"              | 3/4"           | —                | 2 1/4            |
| 1 1/8"          | 7/8"           | 1/2"             | 3                |
| 1 1/4"          | 1"             | 3/4"             | 3 1/4            |
| 1 3/8"          | 1 1/8"         | —                | 3 5/8            |
| 1 1/2"          | 1 3/16"        | —                | 3 7/8            |
| 1 1/2"          | 1 1/4"         | 1"               | 4                |
| 1 5/8"          | 1 3/8"         | —                | 4 1/2            |
| 1 3/4"          | 1 1/2"         | —                | 4 7/8            |
| 1 7/8"          | 1 5/8"         | 1 1/4"           | 5 1/4            |
| 2"              | 1 3/4"         | —                | 5 1/2            |
| 2 1/8"          | 1 7/8"         | 1 1/2"           | 6                |
| 2 1/4"          | 2"             | —                | 6 3/8            |
| 2 3/8"          | 2 1/8"         | —                | 6 3/4            |
| 2 1/2"          | 2 1/4"         | —                | 7 1/4            |
| 2 5/8"          | 2 3/8"         | 2"               | 7 1/2            |
| 2 3/4"          | 2 1/2"         | —                | 8                |
| 3"              | 2 3/4"         | —                | 8 3/4            |
| 3 1/8"          | 2 7/8"         | 2 1/2"           | 9 1/4            |
| 3 1/4"          | 3"             | —                | 9 1/2            |
| 3 3/4"          | 3 1/2"         | 3"               | 11               |
| 4 1/4"          | 4"             | 3 1/2"           | 12 1/4           |
| 4 3/4"          | 4 1/2"         | 4"               | 14               |
| 5 3/4"          | —              | 5"               | 15 1/2           |
| 6 7/8"          | —              | 6"               | 18 1/2           |

\* Gold Plated Steel Clamps Supplied with Fixed Stud and Nylon Lock Nut

\* Stainless Steel Clamps Supplied with fixed Stud and Nylon Lock Nut from 1/2" through 1 3/4" Sizes and 1 7/8" through 6 7/8" Sizes are Supplied with a Loose Bolt and Hex Nut



## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

Fig. 67

### PIPE OR CONDUIT HANGER

Size range 1/2" thru 6".



For additional information,  
please refer to the Anvil Pipe Hanger Catalog.

Fig. 69

### SWIVEL RING HANGER

Size range 1/2" thru 4".



For additional information,  
please refer to the Anvil Pipe Hanger Catalog.

Fig. 137

### "U" BOLT WITH NUTS LONG TANGENT

Size range 1/2" thru 4".



For additional information,  
please refer to the Anvil Pipe Hanger Catalog.

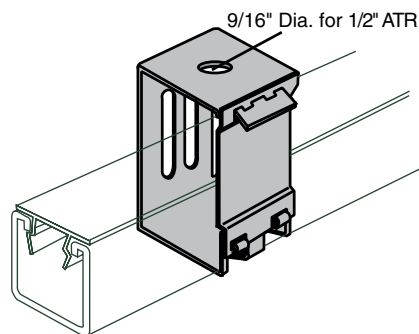
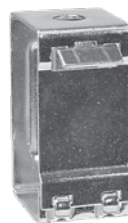
AS 2631 & AS 2631D

### SWING GATE FIXTURE HANGER



Maximum design load is 120 lbs.  
Safety factor of 3.

| Catalog No. | For Use With                              | UL LISTED | Wt./ 100 Pcs. |
|-------------|-------------------------------------------|-----------|---------------|
| AS 2631     | AS 200                                    | UL        | 25            |
| AS 2631     | AS 210, AS 300,<br>AS 400, AS 500         | -         | 25            |
| AS 2631D    | AS 100, AS 150,<br>AS 200 BTB, AS 210 BTB | -         | 45            |



## Snap Type Channel Hanger – Installation

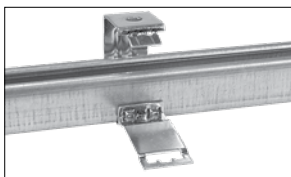
### Step 1:

The hanger is opened by releasing snap.

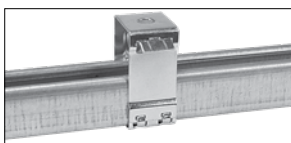


### Step 2:

Channel is placed in the hanger & the snap cover is closed.



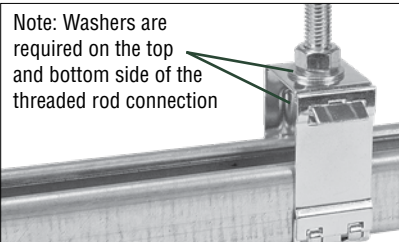
### Step 3:



## Snap Type Channel Hanger – Application Example

Threaded rod, hex nuts and washers are used to connect the hanger. The channel is installed as described above. A channel closure strip is required on the channel to create a wire raceway.

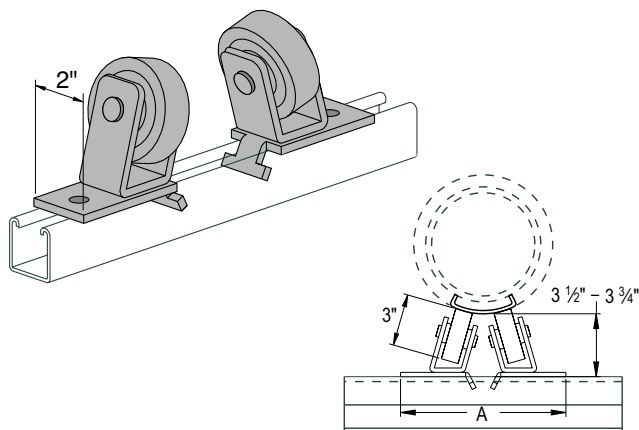
After the channel with closure strip is in place, the space between the closure strip and the top of the hanger allow removal of the strip for addition or removal of wire.



Note: Washers are required on the top and bottom side of the threaded rod connection

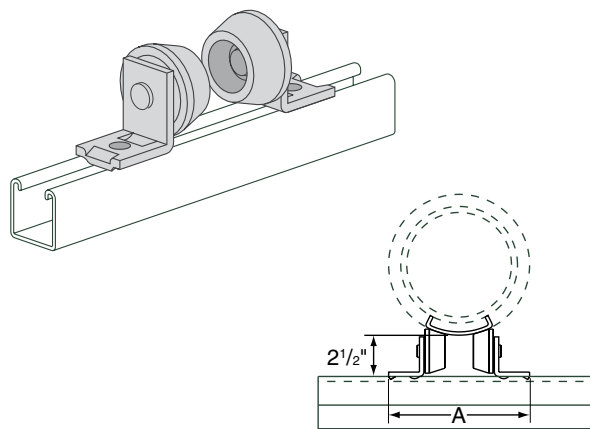
**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 815**
**EG**
**(6" TO 16" PIPE) DOUBLE ROLLER PIPE SUPPORT**


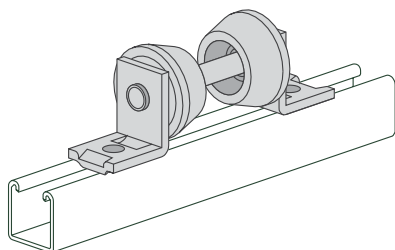
Order Nuts and Bolts Separately.  
For "A" Dimension Recommendations, See Chart On Page 144.

Std Pkg: 5 Pr. · Wt/100 pcs: 680 lbs.

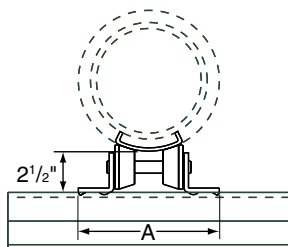
**AS 1901**
**EG**
**(1/2" – 4" PIPE) PIPE ROLLER SUPPORT**


For "A" Dimension Recommendations, see chart on page 144.

Std Pkg: 10 Pr. · Wt/100 pcs: 125 lbs.

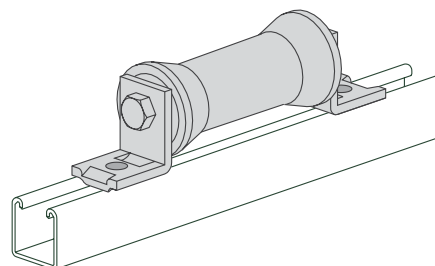
**AS 1902**
**EG**
**(1" – 8" PIPE) PIPE ROLLER SUPPORT**


| Size                                                            | A                              | Wt/100 pcs |
|-----------------------------------------------------------------|--------------------------------|------------|
| 1"-2"                                                           | 6 <sup>3</sup> / <sub>4</sub>  | 299        |
| 2 <sup>1</sup> / <sub>2</sub> "-3 <sup>1</sup> / <sub>2</sub> " | 7 <sup>1</sup> / <sub>2</sub>  | 304        |
| 4"-6"                                                           | 8 <sup>1</sup> / <sub>2</sub>  | 311        |
| 8"                                                              | 9 <sup>9</sup> / <sub>16</sub> | 319        |

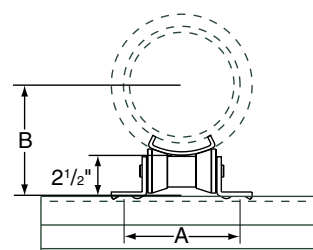


For "A" Dimension Recommendations, see chart on page 144.

Std Pkg: 10 · Wt/100 pcs: See chart above.

**AS 1911**
**EG**
**(2" – 14" PIPE) PIPE ROLLER**


| Size                               | Std Pkg | Wt/100 pcs |
|------------------------------------|---------|------------|
| 2"-3 <sup>1</sup> / <sub>2</sub> " | 25      | 160        |
| 4"-6"                              | 20      | 215        |
| 8"-10"                             | –       | 525        |
| 12"-14"                            | –       | 1025       |



For "A" Dimension Recommendations, see chart on page 144.

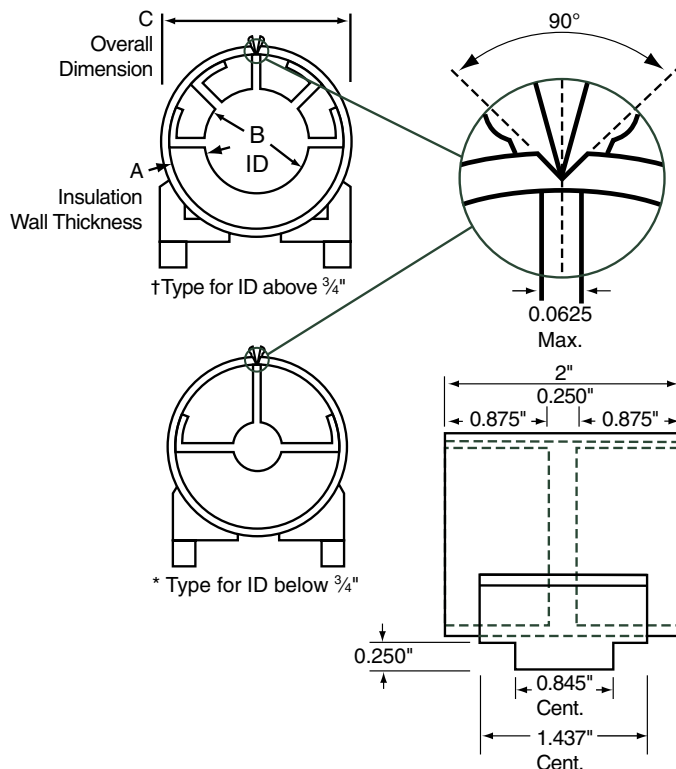
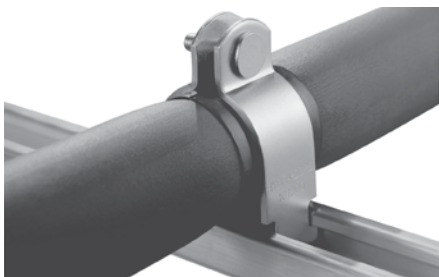
Std Pkg & Wt/100 pcs: See chart above.

## KLO-SHURE® STRUT MOUNTED INSULATION COUPLINGS WITH STRUT CLAMP FOR USE WITH ELASTOMERIC INSULATION

Klo-Shure® Strut Mounted parts include the Klo-Shure® Coupling, clamp halves with welded fastener and locknut.

Material: Clamp: 1008-1018 Carbon Steel; Coupling: High Strength TPO Plastic

Approvals: UL 2043 Fire Test for Heat and Visible Smoke Release • 25/50 Flame Spread/Smoke Development Index



### NOTE:

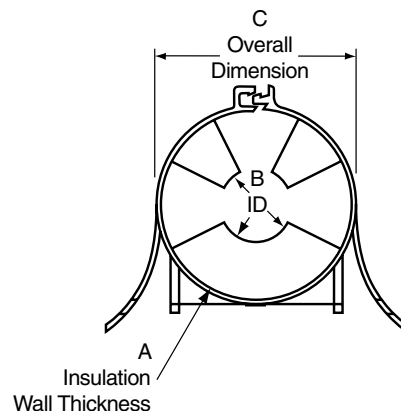
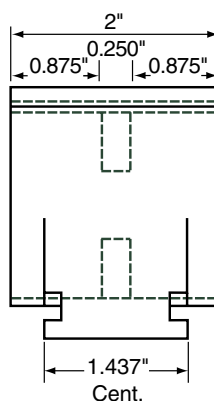
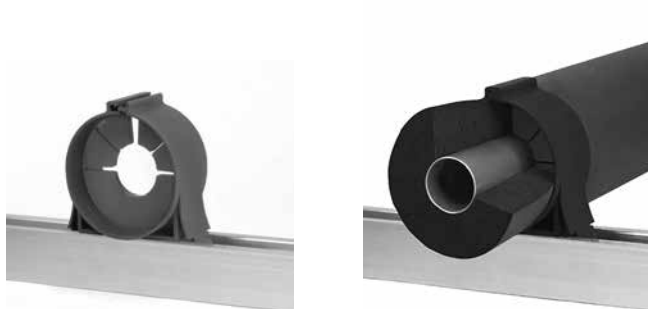
Klo-Shure® ID equals copper tube OD. Chart indicates coupling sizes currently available from Klo-Shure®. Service Temperature –65°F to 275°F.

| A<br>Insulation<br>Wall<br>Thickness                                  | Klo-Shure<br>Part No. | B<br>Klo-Shure ID<br>– Tube OD | C<br>Overall<br>Dimension | Std Pkg |
|-----------------------------------------------------------------------|-----------------------|--------------------------------|---------------------------|---------|
| Klo-Shure<br>Strut Mounted<br>Coupling<br>for 3/8" wall<br>insulation | 723025                | 1/4" ID                        | 1.12                      | 40      |
|                                                                       | 723037                | 3/8" ID                        | 1.25                      | 25      |
|                                                                       | 723050                | 1/2" ID                        | 1.37                      | 20      |
|                                                                       | 723062                | 5/8" ID                        | 1.50                      | 20      |
|                                                                       | 723075                | 3/4" ID                        | 1.62                      | 15      |
|                                                                       | 723087                | 7/8" ID                        | 1.75                      | 15      |
|                                                                       | 723100                | 1" ID                          | 1.87                      | 15      |
|                                                                       | 723112                | 1 1/8" ID                      | 2.00                      | 15      |
|                                                                       | 723137                | 1 3/8" ID                      | 2.25                      | 15      |
|                                                                       | 723162                | 1 5/8" ID                      | 2.50                      | 10      |
| Klo-Shure<br>Strut Mounted<br>Coupling<br>for 1/2" wall<br>insulation | 724037                | 3/8" ID                        | 1.50                      | 25      |
|                                                                       | 724050                | 1/2" ID                        | 1.62                      | 20      |
|                                                                       | 724062                | 5/8" ID                        | 1.75                      | 20      |
|                                                                       | 724075                | 3/4" ID                        | 1.87                      | 15      |
|                                                                       | 724087                | 7/8" ID                        | 2.00                      | 15      |
|                                                                       | 724100                | 1" ID                          | 2.12                      | 15      |
|                                                                       | 724112                | 1 1/8" ID                      | 2.25                      | 15      |
|                                                                       | 724137                | 1 3/8" ID                      | 2.50                      | 15      |
|                                                                       | 724162                | 1 5/8" ID                      | 2.75                      | 10      |
|                                                                       | 724212                | 2 1/8" ID                      | 3.25                      | 10      |
| Klo-Shure<br>Strut Mounted<br>Coupling<br>for 3/4" wall<br>insulation | 724262                | 2 5/8" ID                      | 3.75                      | 10      |
|                                                                       | 724312                | 3 1/8" ID                      | 4.25                      | 10      |
|                                                                       | 724362                | 3 5/8" ID                      | 4.75                      | 10      |
|                                                                       | 724412                | 4 1/8" ID                      | 5.25                      | 10      |
|                                                                       | 726025                | 1/4" ID                        | 1.87                      | 20      |
|                                                                       | 726037                | 3/8" ID                        | 2.00                      | 20      |
|                                                                       | 726050                | 1/2" ID                        | 2.12                      | 15      |
|                                                                       | 726062                | 5/8" ID                        | 2.25                      | 15      |
|                                                                       | 726075                | 3/4" ID                        | 2.37                      | 15      |
|                                                                       | 726087                | 7/8" ID                        | 2.50                      | 10      |
|                                                                       | 726112                | 1 1/8" ID                      | 2.75                      | 10      |
|                                                                       | 726137                | 1 3/8" ID                      | 3.00                      | 10      |
|                                                                       | 726162                | 1 5/8" ID                      | 3.25                      | 10      |
|                                                                       | 726212                | 2 1/8" ID                      | 3.75                      | 10      |
|                                                                       | 726262                | 2 5/8" ID                      | 4.25                      | 10      |
|                                                                       | 726312                | 3 1/8" ID                      | 4.75                      | 10      |
|                                                                       | 726362                | 3 5/8" ID                      | 5.25                      | 10      |
|                                                                       | 726412                | 4 1/8" ID                      | 5.75                      | 10      |

| A<br>Insulation<br>Wall<br>Thickness                                    | Klo-Shure<br>Part No. | B<br>Klo-Shure ID<br>– Tube OD | C<br>Overall<br>Dimension | Std Pkg |
|-------------------------------------------------------------------------|-----------------------|--------------------------------|---------------------------|---------|
| Klo-Shure<br>Strut Mounted<br>Coupling<br>for 1" wall<br>insulation     | 728062                | 5/8" ID                        | 2.75                      | 10      |
|                                                                         | 728087                | 7/8" ID                        | 3.00                      | 10      |
|                                                                         | 728112                | 1 1/8" ID                      | 3.25                      | 10      |
|                                                                         | 728137                | 1 3/8" ID                      | 3.50                      | 10      |
|                                                                         | 728162                | 1 5/8" ID                      | 3.75                      | 10      |
|                                                                         | 728212                | 2 1/8" ID                      | 4.25                      | 10      |
|                                                                         | 728262                | 2 5/8" ID                      | 4.75                      | 10      |
|                                                                         | 728312                | 3 1/8" ID                      | 5.25                      | 10      |
| Klo-Shure<br>Strut Mounted<br>Coupling<br>for 1 1/2" wall<br>insulation | 728362                | 3 5/8" ID                      | 5.75                      | 10      |
|                                                                         | 729037                | 3/8" ID                        | 3.50                      | 10      |
|                                                                         | 729050                | 1/2" ID                        | 3.62                      | 10      |
|                                                                         | 729062                | 5/8" ID                        | 3.75                      | 10      |
|                                                                         | 729087                | 7/8" ID                        | 4.00                      | 10      |
|                                                                         | 729112                | 1 1/8" ID                      | 4.25                      | 10      |
|                                                                         | 729137                | 1 3/8" ID                      | 4.50                      | 10      |
|                                                                         | 729162                | 1 5/8" ID                      | 4.75                      | 10      |
|                                                                         | 729212                | 2 1/8" ID                      | 5.25                      | 10      |
|                                                                         | 729312                | 3 1/8" ID                      | 6.25                      | 10      |

## KLO-SHURE® STRUT MOUNTED ONE-PIECE INSULATION COUPLING FOR USE WITH ELASTOMERIC INSULATION

Klo-Shure® lock top Strut Mounted parts include the Klo-Shure® Coupling. No metal clamps needed.  
Approvals: UL 2043 Fire Test for Heat and Visible Smoke Release • 25/50 Flame Spread/Smoke Development Index



### NOTE:

Klo-Shure® ID equals copper tube OD. Chart indicates coupling sizes currently available from Klo-Shure®. Service Temperature –65°F to 275°F.

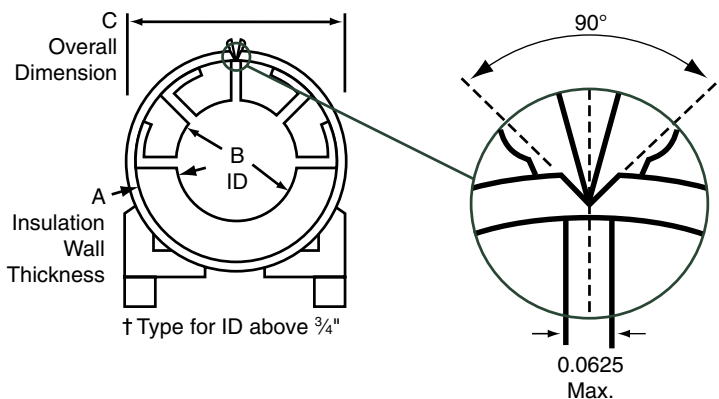
| A<br>Insulation Wall Thickness                                                 | Klo-Shure Part No. | B<br>Klo-Shure ID – Tube OD | C<br>Overall Dimension | Std Pkg |
|--------------------------------------------------------------------------------|--------------------|-----------------------------|------------------------|---------|
| Klo-Shure Strut Mounted Coupling<br>(Non Metallic)<br>for 1/2" wall insulation | 824050             | 1/2" ID                     | 1.62                   | 25      |
|                                                                                | 824062             | 5/8" ID                     | 1.75                   | 25      |
|                                                                                | 824087             | 7/8" ID                     | 2.00                   | 25      |
|                                                                                | 824112             | 1 1/8" ID                   | 2.25                   | 25      |
|                                                                                | 824137             | 1 3/8" ID                   | 2.50                   | 25      |
|                                                                                | 824162             | 1 5/8" ID                   | 2.75                   | 25      |
|                                                                                | 824212             | 2 1/8" ID                   | 3.25                   | 25      |
| Klo-Shure Strut Mounted Coupling<br>(Non Metallic)<br>for 3/4" wall insulation | 826062             | 5/8" ID                     | 2.25                   | 25      |
|                                                                                | 826087             | 7/8" ID                     | 2.50                   | 25      |
|                                                                                | 826112             | 1 1/8" ID                   | 2.75                   | 25      |
|                                                                                | 826137             | 1 3/8" ID                   | 3.00                   | 25      |
|                                                                                | 828087             | 7/8" ID                     | 3.00                   | 25      |
| Klo-Shure Strut Mounted Coupling<br>(Non Metallic)<br>for 1" wall insulation   | 828112             | 1 1/8" ID                   | 3.25                   | 25      |
|                                                                                | 828137             | 1 3/8" ID                   | 3.50                   | 25      |
|                                                                                | 828162             | 1 5/8" ID                   | 3.75                   | 25      |
|                                                                                | 828212             | 2 1/8" ID                   | 4.25                   | 25      |
|                                                                                | 828262             | 2 5/8" ID                   | 4.75                   | 25      |

## KLO-SHURE® STRUT MOUNTED INSULATION COUPLINGS WITH STRUT CLAMP FOR IRON PIPE AND COPPER TUBE SIZES • USE WITH FIBERGLASS INSULATION

Klo-Shure® Strut Mounted parts include the Klo-Shure® Coupling, clamp halves with welded fastener and locknut.

Material: Clamp: 1008-1018 Carbon Steel; Coupling: High Strength TPO Plastic

Approvals: UL 2043 Fire Test for Heat and Visible Smoke Release • 25/50 Flame Spread/Smoke Development Index



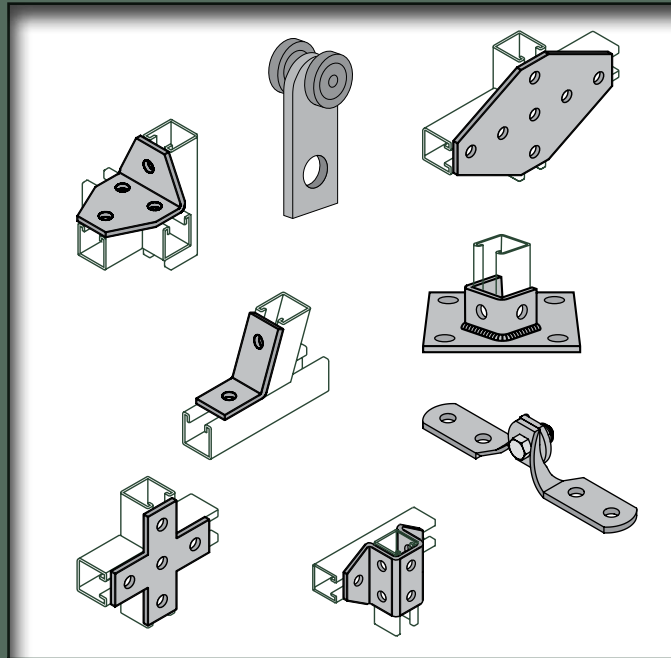
### NOTE:

Klo-Shure® ID equals iron pipe and copper tube OD. Chart indicates coupling sizes currently available from Klo-Shure®. Service Temperature –65°F to 275°F.

| A<br>Insulation<br>Wall<br>Thickness                                    | Klo-Shure<br>Part No. | Nominal<br>Steel Pipe<br>Size | B<br>Klo-Shure ID<br>NPS OD | C<br>Overall<br>Dimension | Std Pkg |
|-------------------------------------------------------------------------|-----------------------|-------------------------------|-----------------------------|---------------------------|---------|
| Klo-Shure<br>Strut Mounted<br>Coupling<br>for 1/2" wall<br>insulation   | 924084                | 1/2"                          | 0.84" ID                    | 2.025                     | 20      |
|                                                                         | 924105                | 3/4"                          | 1.05" ID                    | 2.285                     | 20      |
|                                                                         | 924131                | 1"                            | 1.315" ID                   | 2.500                     | 10      |
|                                                                         | 924166                | 1 1/4"                        | 1.66" ID                    | 2.845                     | 10      |
|                                                                         | 924190                | 1 1/2"                        | 1.90" ID                    | 3.285                     | 10      |
| Klo-Shure<br>Strut Mounted<br>Coupling<br>for 1" wall<br>insulation     | 928084                | 1/2"                          | 0.84" ID                    | 3.008                     | 10      |
|                                                                         | 928105                | 3/4"                          | 1.05" ID                    | 3.008                     | 10      |
|                                                                         | 928131                | 1"                            | 1.315" ID                   | 3.638                     | 10      |
|                                                                         | 928166                | 1 1/4"                        | 1.66" ID                    | 3.638                     | 10      |
|                                                                         | 928190                | 1 1/2"                        | 1.90" ID                    | 4.138                     | 10      |
|                                                                         | 928237                | 2"                            | 2.375" ID                   | 4.648                     | 10      |
| Klo-Shure<br>Strut Mounted<br>Coupling<br>for 1 1/2" wall<br>insulation | 928287                | 2 1/2"                        | 2.875" ID                   | 5.138                     | 10      |
|                                                                         | 929084                | 1/2"                          | 0.84" ID                    | 4.138                     | 10      |
|                                                                         | 929105                | 3/4"                          | 1.05" ID                    | 4.138                     | 10      |
|                                                                         | 929131                | 1"                            | 1.315" ID                   | 4.648                     | 10      |
|                                                                         | 929166                | 1 1/4"                        | 1.66" ID                    | 5.138                     | 10      |
|                                                                         | 929190                | 1 1/2"                        | 1.90" ID                    | 5.138                     | 10      |

| A<br>Insulation<br>Wall<br>Thickness                                    | Klo-Shure<br>Part No. | B<br>Klo-Shure ID<br>Tube OD | C<br>Overall<br>Dimension | Std Pkg |
|-------------------------------------------------------------------------|-----------------------|------------------------------|---------------------------|---------|
| Klo-Shure<br>Strut Mounted<br>Coupling<br>for 1/2" wall<br>insulation   | 924062                | 5/8" ID                      | 1.785                     | 20      |
|                                                                         | 924087                | 7/8" ID                      | 2.025                     | 20      |
|                                                                         | 924112                | 1 1/8" ID                    | 2.285                     | 20      |
|                                                                         | 924137                | 1 3/8" ID                    | 2.500                     | 10      |
|                                                                         | 924162                | 1 5/8" ID                    | 2.845                     | 10      |
|                                                                         | 924212                | 2 1/8" ID                    | 3.285                     | 10      |
| Klo-Shure<br>Strut Mounted<br>Coupling<br>for 1" wall<br>insulation     | 928062                | 5/8" ID                      | 3.008                     | 10      |
|                                                                         | 928087                | 7/8" ID                      | 3.008                     | 10      |
|                                                                         | 928112                | 1 1/8" ID                    | 3.008                     | 10      |
|                                                                         | 928137                | 1 3/8" ID                    | 3.638                     | 10      |
|                                                                         | 928162                | 1 5/8" ID                    | 3.638                     | 10      |
|                                                                         | 928212                | 2 1/8" ID                    | 4.138                     | 10      |
|                                                                         | 928262                | 2 5/8" ID                    | 4.648                     | 10      |
|                                                                         | 928312                | 3 1/8" ID                    | 5.138                     | 10      |
| Klo-Shure<br>Strut Mounted<br>Coupling<br>for 1 1/2" wall<br>insulation | 929087                | 7/8" ID                      | 4.138                     | 10      |
|                                                                         | 929112                | 1 1/8" ID                    | 4.138                     | 10      |
|                                                                         | 929137                | 1 3/8" ID                    | 4.648                     | 10      |
|                                                                         | 929162                | 1 5/8" ID                    | 4.648                     | 10      |
|                                                                         | 929212                | 2 1/8" ID                    | 5.138                     | 10      |

# FITTINGS & ACCESSORIES



## Specifications

### GENERAL

Anvil-Strut General Fittings are designed to fit with all Anvil-Strut 1 $\frac{5}{8}$ " wide channels. Unless otherwise noted, Anvil-Strut fittings are manufactured from  $\frac{1}{4}$ " thick carbon steel, 1 $\frac{5}{8}$ " wide, all holes are  $\frac{9}{16}$ " diameter, spaced 1 $\frac{7}{8}$ " on center and  $\frac{13}{16}$ " from the end.

The more popular fittings are illustrated on the following pages. However, there are hundreds of other fittings available. Please contact Anvil for any other fittings you may need for specific applications.

### ORDERING

Please specify catalog number and finish.

### MATERIAL

Anvil-Strut fittings are manufactured from the following material:

|                                   |             |
|-----------------------------------|-------------|
| Hot Rolled Steel Sheet .....      | ASTM A-1011 |
| Cold Rolled Steel Sheet .....     | ASTM A-1008 |
| Stainless Steel-Type 304/316..... | ASTM A-240  |
| Aluminum Fitting.....             | ASTM B-221  |

### FINISHES

Anvil-Strut fittings are available in the following finishes:  
(See technical section for additional information)

|                                      |               |
|--------------------------------------|---------------|
| Electro Galvanized.....              | ASTM B-633    |
| Hot Dipped Galvanized .....          | ASTM A-123    |
| Zinc Trivalent Chromium .....        | ASTM B-633-85 |
| Powder Coated Supr-Green.....        | ASTM B-117    |
| PVC Coating - Available Upon Request |               |

## LEGEND:

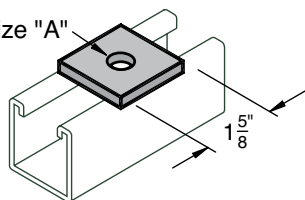
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 619**

**EG, GR, SS, ZTC**

### SQUARE WASHER

Bolt Size "A"



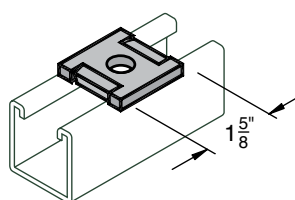
| A    | Wt./100 Pcs. |
|------|--------------|
| 1/4" | 18           |
| 3/8" | 18           |
| 1/2" | 17           |
| 5/8" | 16           |
| 3/4" | 15           |
| 7/8" | 14           |

Std Pkg 100 - Wt/100 pcs: See chart above.

**AS 2504**

**EG, GR, ZTC**

### SQUARE WASHER WITH CHANNEL GUIDE



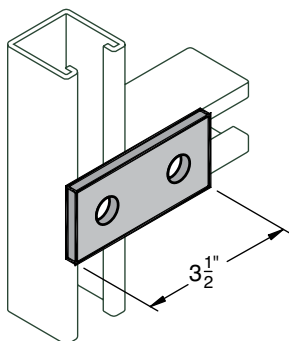
| Rod Size | Hole Size | Wt./100 Pcs. |
|----------|-----------|--------------|
| 1/4"     | 5/16"     | 18           |
| 3/8"     | 7/16"     | 18           |
| 1/2"     | 9/16"     | 17           |

Std Pkg 100 - Wt/100 pcs: See chart above.

**AS 601**

**EG, GR, ZTC**

### 2-HOLE SPLICE PLATE

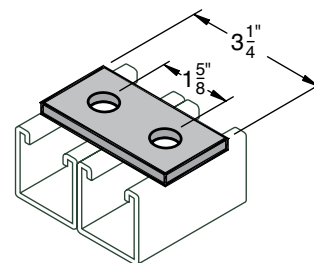


Std Pkg 50 - Wt/100 pcs: 37 Lbs.

**AS 620**

**EG, GR**

### 2-HOLE CONNECTING PLATE

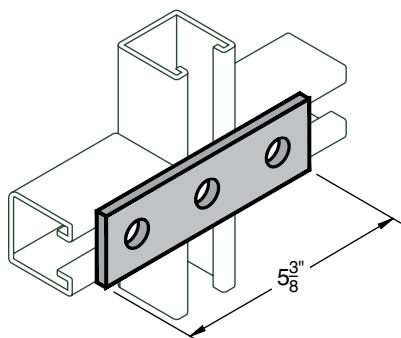


Std Pkg 50 - Wt/100 pcs: 34 Lbs.

**AS 602**

**EG, GR, ZTC**

### 3-HOLE SPLICE PLATE

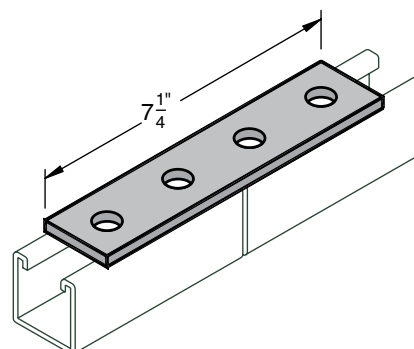


Std Pkg 25 - Wt/100 pcs: 57 Lbs.

**AS 888**

**EG, GR, ZTC**

### 4-HOLE SPLICE PLATE



Std Pkg 25 - Wt/100 pcs: 76 Lbs.

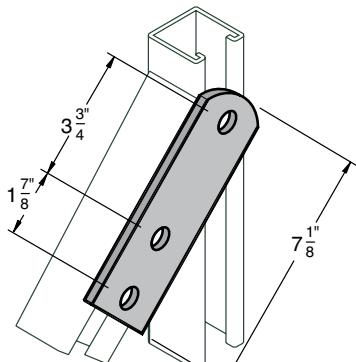
**Page notes unless otherwise specified:** 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 13/16" from end.



**LEGEND:**

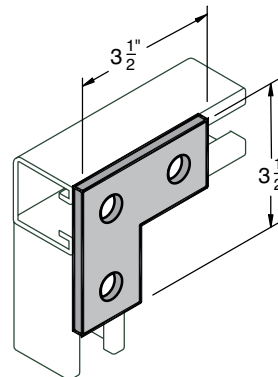
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 617** EG, GR

**3-HOLE SWIVEL PLATE**


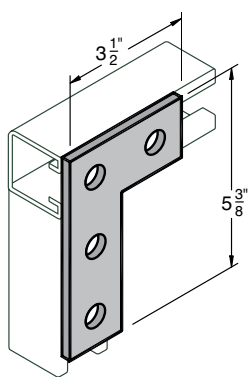
Std Pkg 25 - Wt/100 pcs: 75 Lbs.

**AS 718** EG, GR, ZTC

**FLAT ANGLE PLATE**


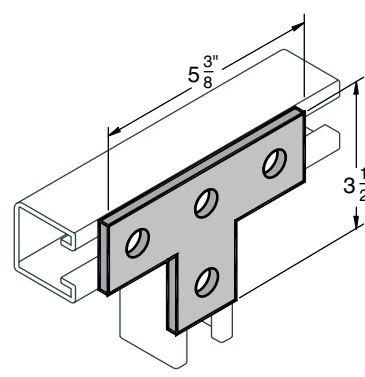
Std Pkg 50 - Wt/100 pcs: 56 Lbs.

**AS 719** EG, GR

**4-HOLE CORNER JOINER PLATE**


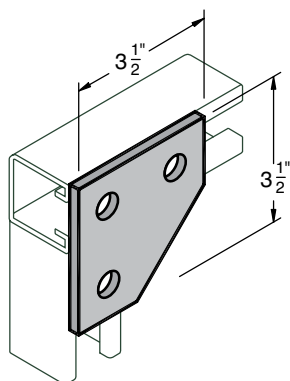
Std Pkg 20 - Wt/100 pcs: 75 Lbs.

**AS 714** EG, GR, ZTC

**TEE PLATE**


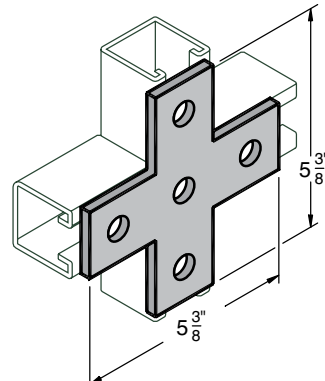
Std Pkg 25 - Wt/100 pcs: 77 Lbs.

**AS 744** EG, GR

**FLAT CORNER CONNECTOR**


Std Pkg 25 - Wt/100 pcs: 69 Lbs.

**AS 712** EG, GR, ZTC

**CROSS PLATE**


Std Pkg 10 - Wt/100 pcs: 100 Lbs.

Page notes unless otherwise specified: 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 1 3/16" from end.

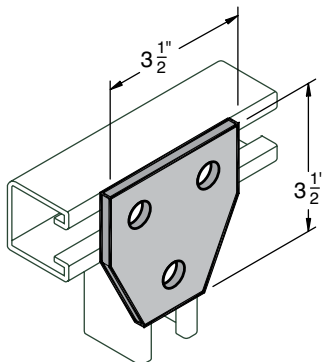
## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 925**

**EG, GR**

### SYMMETRICAL 3-HOLE JOINT CONNECTOR

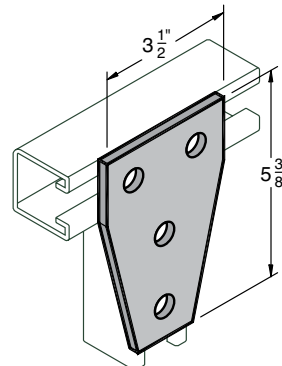


Std Pkg 25 - Wt/100 pcs: 70 Lbs.

**AS 747**

**EG, GR**

### SYMMETRICAL 4-HOLE CONNECTOR

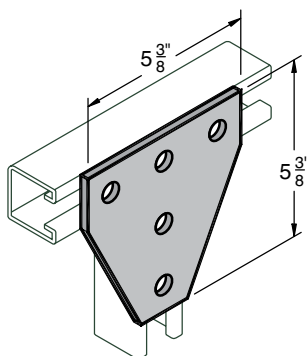


Std Pkg 20 - Wt/100 pcs: 100 Lbs.

**AS 854**

**EG, GR**

### 5-HOLE FLAT CONNECTOR

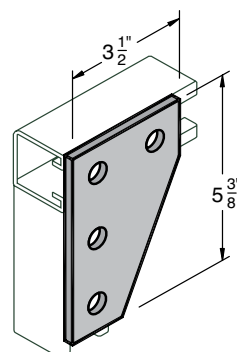


Std Pkg 25 - Wt/100 pcs: 146 Lbs.

**AS 750**

**EG, GR**

### 4-HOLE CORNER CONNECTOR

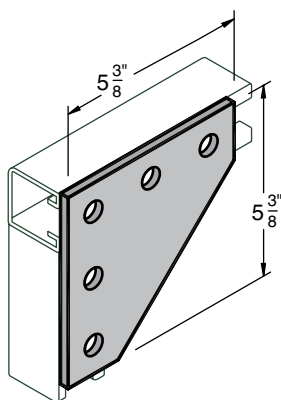


Std Pkg 20 - Wt/100 pcs: 101 Lbs.

**AS 2190**

**EG, GR**

### FLAT CORNER CONNECTOR

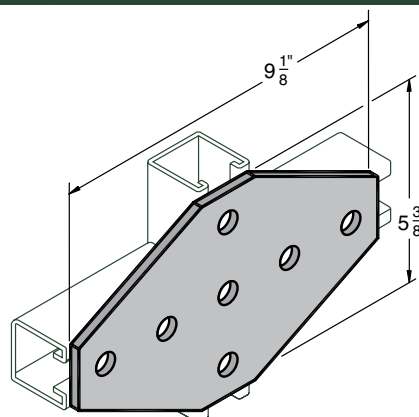


Std Pkg 20 - Wt/100 pcs: 146 Lbs.

**AS 2112**

**EG, GR**

### 7-HOLE CROSS CONNECTOR



Std Pkg 10 - Wt/100 pcs: 236 Lbs.

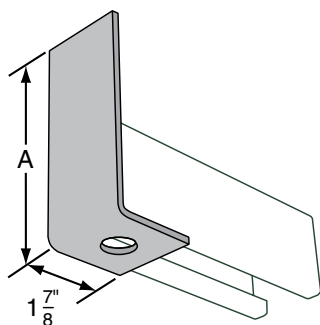
**Page notes unless otherwise specified:** 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 13/16" from end.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 921** EG, GR

### 1-HOLE ANGLE

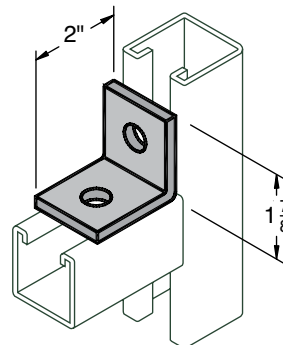


| Catalog No. | A      | Wt./100 Pcs. |
|-------------|--------|--------------|
| AS 921 A    | 3 7/8" | 61           |
| AS 921 B    | 5 7/8" | 84           |
| AS 921 C    | 7 7/8" | 107          |
| AS 921 D    | 9 7/8" | 130          |

Std Pkg 25 - Wt/100 pcs: See chart above.

**AS 603** EG, GR, ZTC

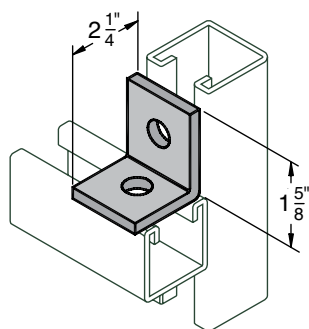
### 2-HOLE END ANGLE



Std Pkg 50 - Wt/100 pcs: 37 Lbs.

**AS 604** EG, GR, ZTC

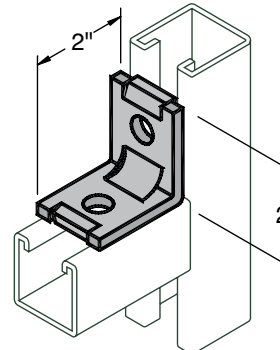
### 2-HOLE CORNER ANGLE



Std Pkg 50 - Wt/100 pcs: 37 Lbs.

**AS 806** EG, GR

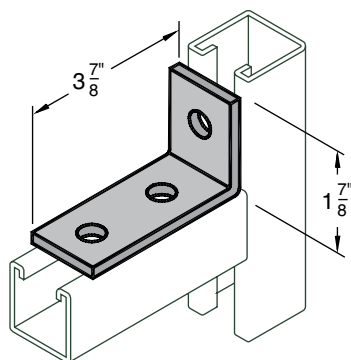
### 2-HOLE ANGLE WITH IMPRESSIONS ON BOTH LEGS



Std Pkg 50 - Wt/100 pcs: 39 Lbs.

**AS 745** EG, GR, ZTC

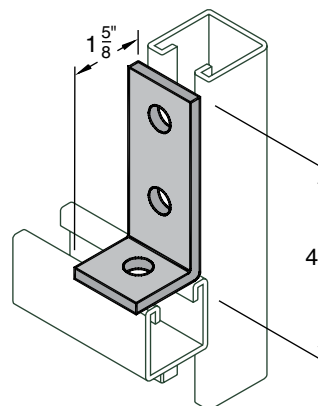
### 3-HOLE CORNER ANGLE



Std Pkg 25 - Wt/100 pcs: 57 Lbs.

**AS 606** EG, GR, ZTC

### 3-HOLE CORNER ANGLE



Std Pkg 50 - Wt/100 pcs: 57 Lbs.

Page notes unless otherwise specified: 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 13/16" from end.

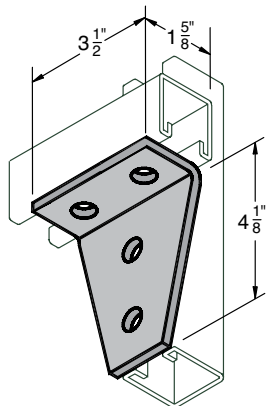
## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 748**

**EG, GR**

### 4-HOLE JOINT CORNER CONNECTOR

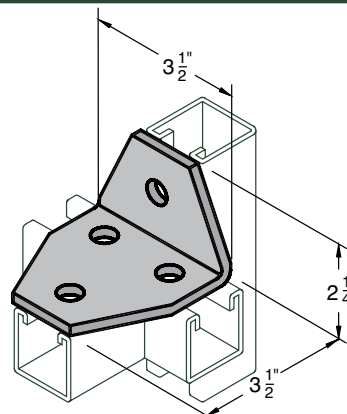


Std Pkg 25 - Wt/100 pcs: 102 Lbs.

**AS 614**

**EG, GR**

### 4-HOLE JOINT CORNER CONNECTOR

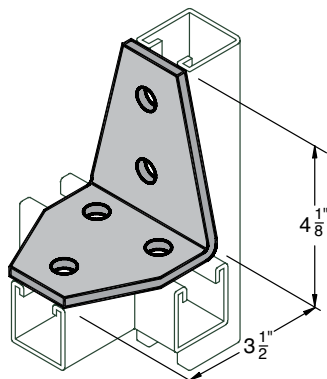


Std Pkg 25 - Wt/100 pcs: 101 Lbs.

**AS 615**

**EG, GR**

### 5-HOLE SHELF JOINT ANGLE

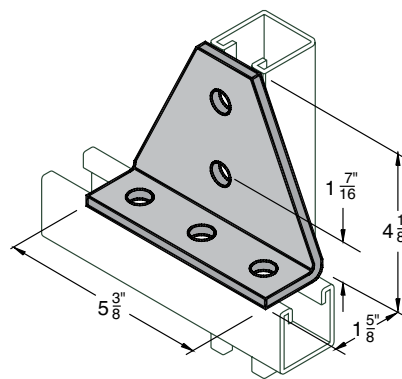


Std Pkg 10 - Wt/100 pcs: 135 Lbs.

**AS 927**

**EG, GR**

### 5-HOLE CORNER CONNECTOR

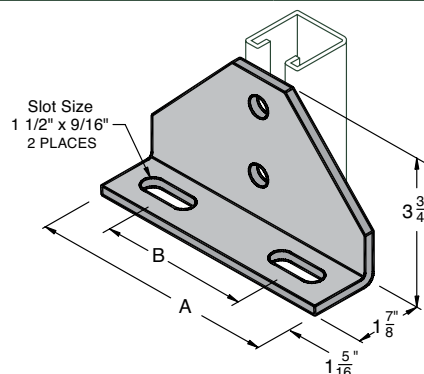


Std Pkg 10 - Wt/100 pcs: 141 Lbs.

**AS 689**

**EG, GR**

### ADJUSTABLE DOUBLE SLOTTED CORNER CONNECTOR



Std Pkg: 10 - Wt/100 pcs: See chart above.

| Catalog No. | A      | B  | Wt./100 Pcs. |
|-------------|--------|----|--------------|
| AS 689 A    | 6 5/8" | 4" | 180          |
| AS 689 B    | 8 5/8" | 6" | 256          |

**Page notes unless otherwise specified:** 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 13/16" from end.

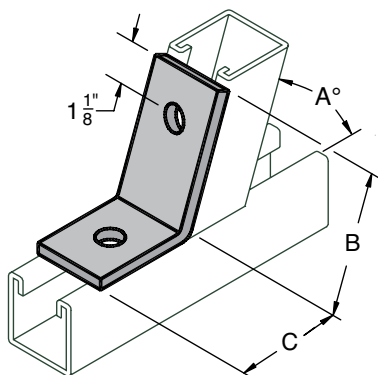
## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 633**

**EG, GR, ZTC**

### 2-HOLE OPEN ANGLE CONNECTOR



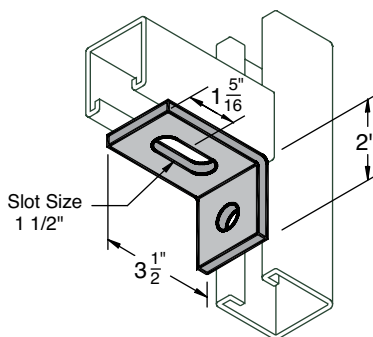
| A    | B   | C   | Wt./100 Pcs. |
|------|-----|-----|--------------|
| 82½° | 3½" | 2⅞" | 63           |
| 75°  | 3½" | 2⅞" | 63           |
| 67½° | 3½" | 2⅞" | 63           |
| 60°  | 3½" | 2⅞" | 63           |
| 52½° | 3½" | 2⅞" | 63           |
| 45°  | 3"  | 2⅞" | 60           |
| 37½° | 3½" | 2⅞" | 63           |
| 30°  | 3⅝" | 2⅞" | 59           |
| 22½° | 3⅝" | 2⅞" | 59           |
| 15°  | 3⅝" | 2⅞" | 59           |
| 7½°  | 3⅝" | 2⅞" | 59           |

Std Pkg 25 - Wt/100 pcs: See chart above.

**AS 2520**

**EG, GR**

### TWO HOLE ADJUSTMENT ANGLE

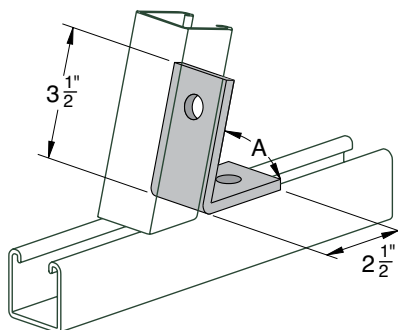


Std Pkg 25 - Wt/100 pcs: 42 Lbs.

**AS 624**

**EG, GR, ZTC**

### 2-HOLE CLOSED ANGLE CONNECTOR



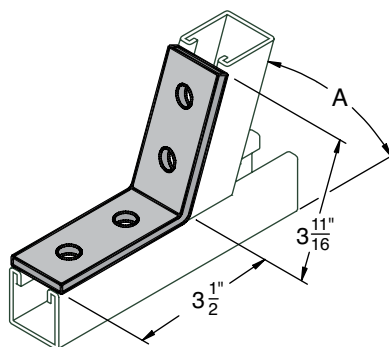
| A    |
|------|
| 37½° |
| 45°  |
| 52½° |
| 60°  |
| 67½° |
| 75°  |
| 82½° |

Std Pkg 25 - Wt/100 pcs: 63 Lbs.

**AS 781**

**EG, GR**

### 4-HOLE OPEN ANGLE CONNECTOR



| A    |
|------|
| 7½°  |
| 15°  |
| 22½° |
| 30°  |
| 37½° |
| 45°  |
| 52½° |
| 60°  |
| 67½° |
| 75°  |
| 82½° |

Std Pkg 25 - Wt/100 pcs: 78 Lbs.

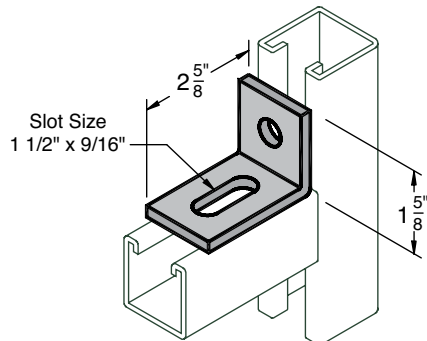
Page notes unless otherwise specified: ¼" thick, 1⅝" wide, holes 9/16" diameter, spaced 1⅞" on center and 1⅜" from end.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 2545** EG, GR

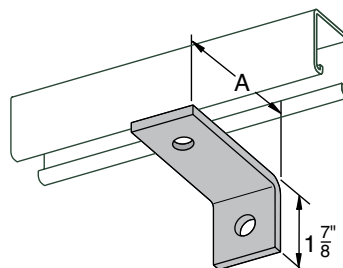
### SLOTTED 90° ANGLE



Std Pkg 50 - Wt./100 pcs: 38 Lbs.

**AS 2144** EG, GR

### CORNER ANGLE

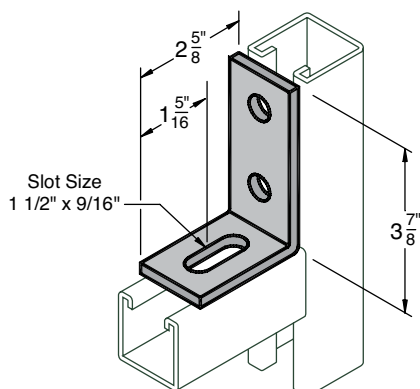


| A      | Wt./100 Pcs. |
|--------|--------------|
| 3"     | 48           |
| 3 1/2" | 53           |
| 4"     | 60           |

Std Pkg 25 - Wt./100 pcs: See chart above.

**AS 3049** EG, GR

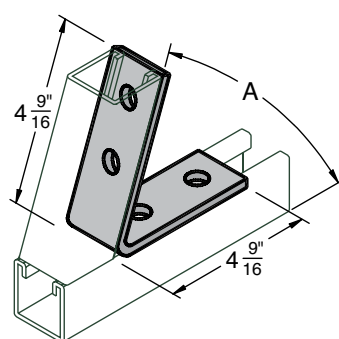
### 2-HOLE SLOTTED 90° CORNER CONNECTOR



Std Pkg 25 - Wt./100 pcs: 66 Lbs.

**AS 793** EG, GR

### 4-HOLE CLOSED ANGLE CONNECTOR



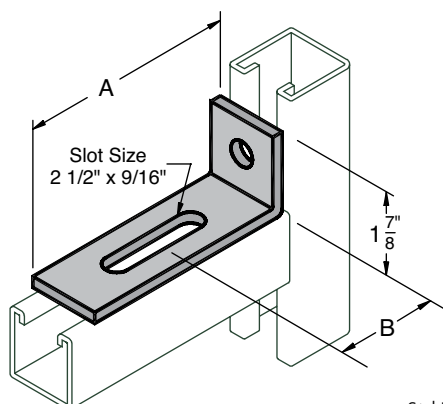
| A       |
|---------|
| 37 1/2° |
| 45°     |
| 52 1/2° |
| 60°     |
| 67 1/2° |
| 75°     |
| 82 1/2° |

Std Pkg 25 - Wt./100 pcs: 100 Lbs.

**AS 763 & AS 764**

EG, GR

### SLOTTED ADJUSTMENT CORNER ANGLE



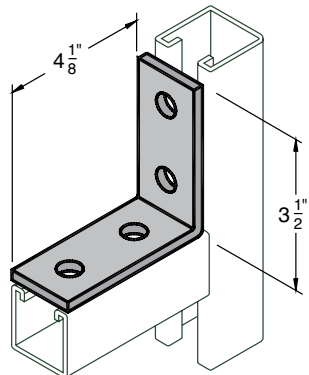
| Catalog No.   | A       | B      | Wt./100 Pcs. |
|---------------|---------|--------|--------------|
| <b>AS 763</b> | 4 7/16" | 2 1/2" | 58           |
| <b>AS 764</b> | 6 7/8"  | 4 1/2" | 85           |

Std Pkg: 25 - Wt./100 pcs: See chart above.

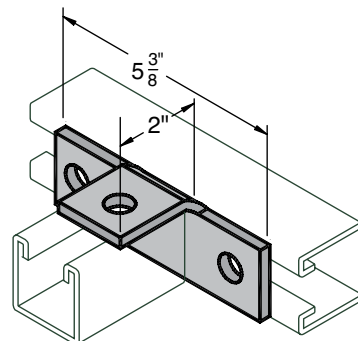
**Page notes unless otherwise specified:** 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 1 3/16" from end.

**LEGEND:**

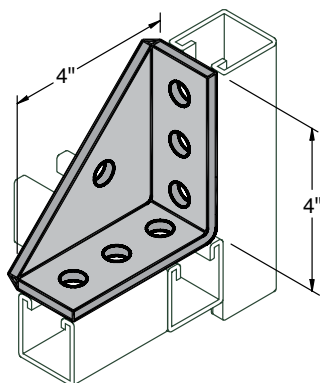
**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 607**
**EG, GR, ZTC**
**4-HOLE CORNER ANGLE**


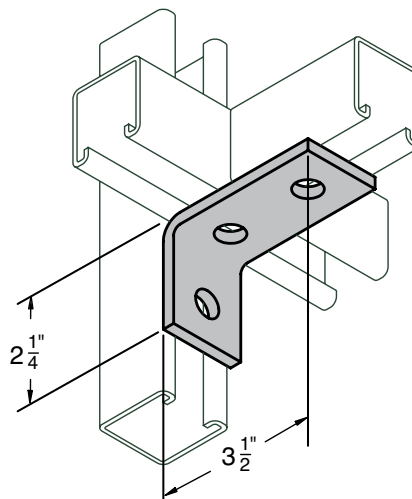
Std Pkg 25 - Wt/100 pcs: 78 Lbs.

**AS 715**
**EG, GR**
**"T" PLATE - 90° ANGLE**


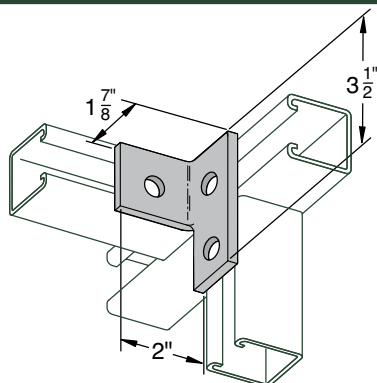
Std Pkg 20 - Wt/100 pcs: 77 Lbs.

**AS 3373**
**EG, GR, ZTC**
**UNIVERSAL ANGLE BRACKET**


Std Pkg 10 - Wt/100 pcs: 132 Lbs.

**AS 605**
**EG, GR, ZTC**
**3-HOLE CORNER ANGLE**


Std Pkg 25 - Wt/100 pcs: 57 Lbs.

**AS 720**
**EG, GR, ZTC**
**RH & LH ANGLE PLATE CONNECTOR**


Std Pkg 25 - Wt/100 pcs: 54 Lbs.

Page notes unless otherwise specified: 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 13/16" from end.

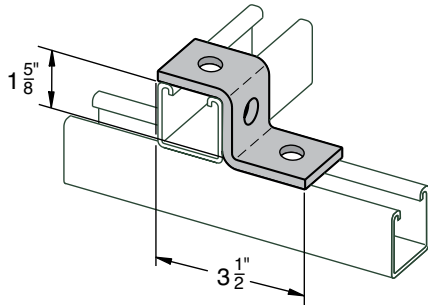


## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 611** EG, GR, ZTC

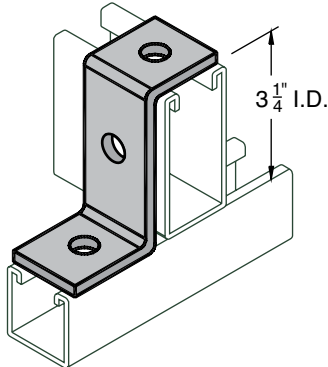
### "Z" SUPPORT



Use with AS 200, AS 210, & AS 500 BTB  
Std Pkg 50 - Wt./100 pcs: 54 Lbs.

**AS 756** EG, GR, ZTC

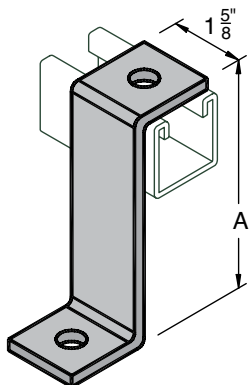
### "Z" SUPPORT



Use with AS 100, AS 200 BTB, & AS 210 BTB  
Std Pkg 25 - Wt./100 pcs: 70 Lbs.

**AS 3060** EG, GR

### OFFSET CONNECTOR

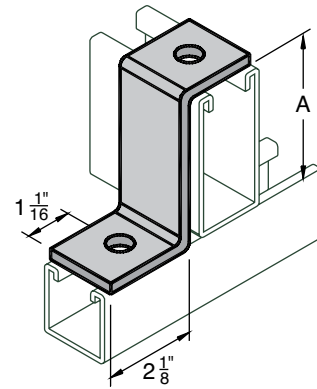


| A  | Wt./100 Pcs. |
|----|--------------|
| 4" | 77           |
| 5" | 95           |
| 6" | 98           |
| 7" | 105          |
| 8" | 120          |

Std Pkg 25 - Wt./100 pcs: See chart above.

**AS 612, AS 2601, AS 711, AS 928** EG, GR, ZTC (AS 928 only)

### "Z" SUPPORT

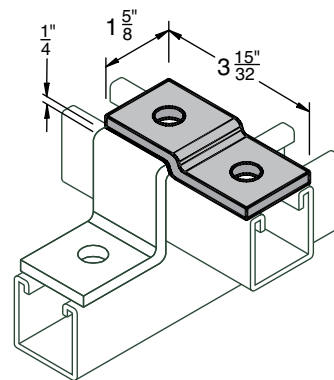


| Catalog No.    | A       | Std. Pkg. | Wt./100 Pcs. | Use With        |
|----------------|---------|-----------|--------------|-----------------|
| <b>AS 612</b>  | 1"      | 50        | 50           | AS 400          |
| <b>AS 2601</b> | 2 7/16" | 25        | 66           | AS 150          |
| <b>AS 711</b>  | 1 3/8"  | 25        | 53           | AS 300          |
| <b>AS 928</b>  | 1 3/16" | 50        | 47           | AS 500 & AS 520 |

Std Pkg & Wt./100 pcs: See chart above.

**AS 609** EG, GR

### 2-HOLE OFFSET "Z" SUPPORT

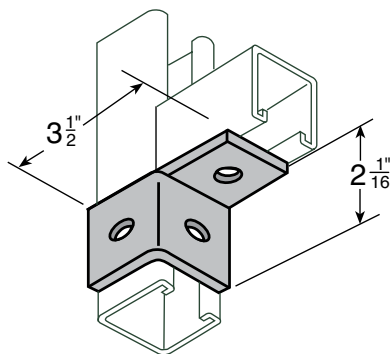


Std Pkg 25 - Wt./100 pcs: 38 Lbs.

**Page notes unless otherwise specified:** 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 1 3/16" from end.

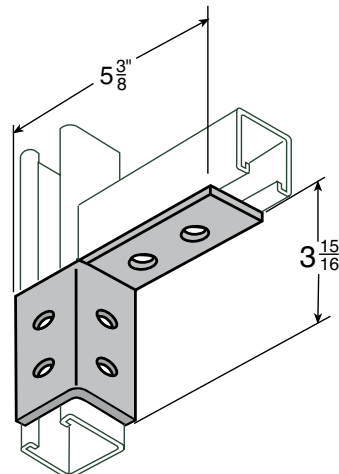
**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 922**
**EG, GR, ZTC**
**RH & LH 2-HOLE SINGLE CORNER ANGLE CONNECTOR**


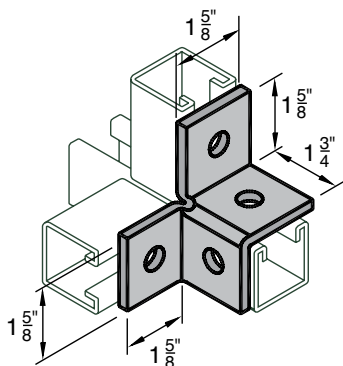
When ordering, Specify RH or LH

Std Pkg 20 - Wt/100 pcs: 60 Lbs.

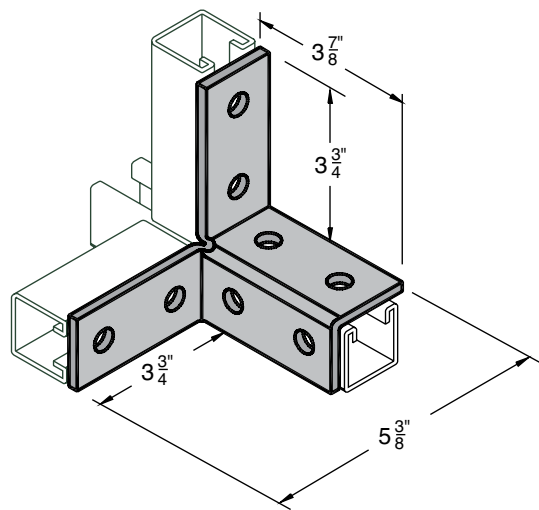
**AS 2128**
**EG, GR**
**RH & LH 6-HOLE CORNER CONNECTOR**


When ordering, Specify RH or LH

Std Pkg 10 - Wt/100 pcs: 119 Lbs.

**AS 665**
**EG, GR, ZTC**
**4-HOLE DOUBLE CORNER CONNECTOR**


Std Pkg 25 - Wt/100 pcs: 76 Lbs.

**AS 667**
**EG, GR, ZTC**
**8-HOLE DOUBLE CORNER CONNECTOR**


Std Pkg 10 - Wt/100 pcs: 155 Lbs.

Page notes unless otherwise specified: 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 1 3/16" from end.

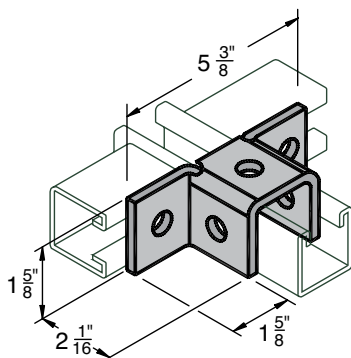
## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 923**

**EG, GR, ZTC**

### 5-HOLE TWO ANGLE CONNECTOR

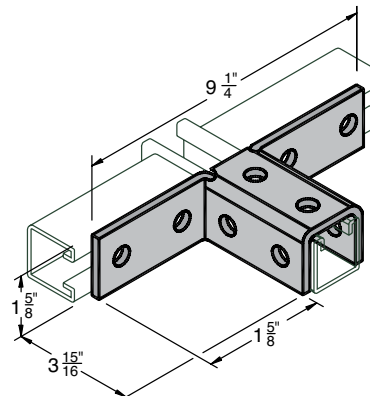


Std Pkg 25 - Wt/100 pcs: 93 Lbs.

**AS 913**

**EG, GR, ZTC**

### 10-HOLE TWO ANGLE CLEVIS CONNECTOR

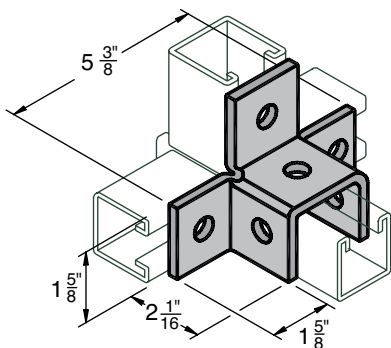


Std Pkg 10 - Wt/100 pcs: 193 Lbs.

**AS 668**

**EG, GR, ZTC**

### 6-HOLE THREE ANGLE CONNECTOR

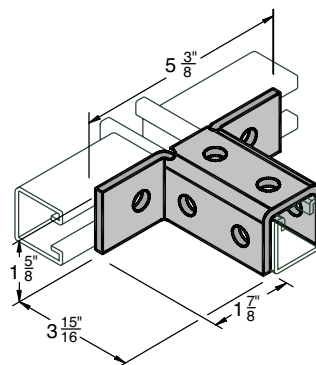


Std Pkg 10 - Wt/100 pcs: 113 Lbs.

**AS 821**

**EG, GR, ZTC**

### 8-HOLE DOUBLE ANGLE CONNECTOR

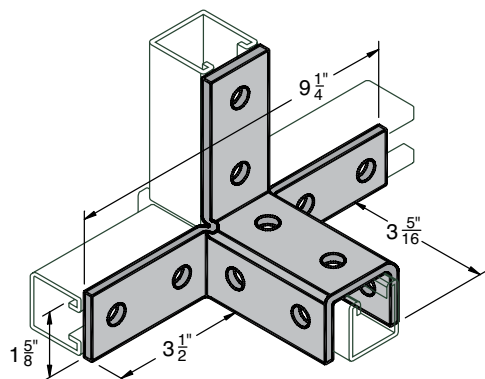


Std Pkg 10 - Wt/100 pcs: 113 Lbs.

**AS 669**

**EG, GR, ZTC**

### 12-HOLE THREE ANGLE CLEVIS CONNECTOR

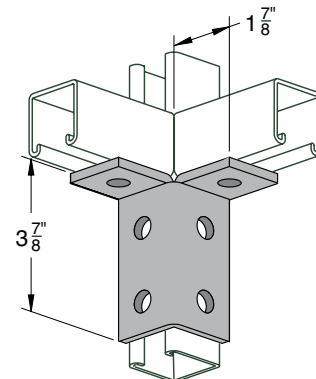


Std Pkg: 10 - Wt/100 pcs: 230 Lbs.

**AS 666**

**EG, GR, ZTC**

### 6-HOLE DOUBLE CORNER CONNECTOR



Std Pkg 25 - Wt/100 pcs: 115 Lbs.

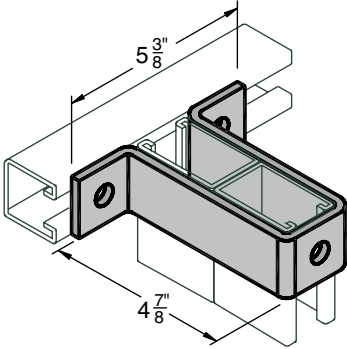
**Page notes unless otherwise specified:** 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 1 3/16" from end.

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 678**    **EG, GR**

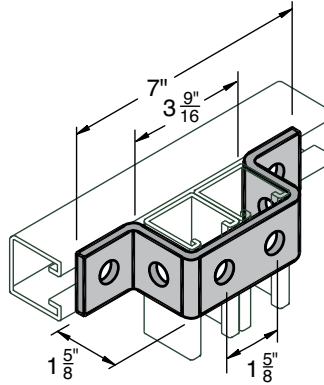
**"U" SUPPORT**



Use with AS 150 BTB  
Std Pkg 10 - Wt./100 pcs: 157 Lbs.

**AS 721**    **EG, GR**

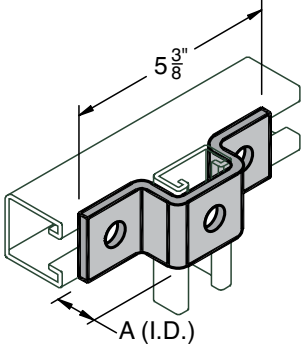
**"U" SUPPORT**



Use with AS 100, AS 200 BTB, AS 210 BTB  
Std Pkg 25 - Wt./100 pcs: 105 Lbs.

**AS 613, AS 679, AS 710, AS 929, AS 978, AS 2119, AS 2648**    **EG, GR, ZTC (AS 613, AS 679, AS 929 Only)**

**"U" SUPPORT**



| Catalog No.    | A       | Wt./100 Pcs. | Use With                         |
|----------------|---------|--------------|----------------------------------|
| <b>AS 929</b>  | 13/16"  | 70           | AS 500 & AS 520                  |
| <b>AS 978</b>  | 1"      | 75           | AS 400                           |
| <b>AS 710</b>  | 1 3/8"  | 84           | AS 300                           |
| <b>AS 613</b>  | 1 5/8"  | 85           | AS 500 BTB, AS 200, & AS 210     |
| <b>AS 2119</b> | 1 5/8"  | 95           | AS 200 & AS 210                  |
| <b>AS 2648</b> | 2 7/16" | 108          | AS 150                           |
| <b>AS 679</b>  | 3 1/4"  | 126          | AS 100, AS 200 BTB, & AS 210 BTB |

Std Pkg 25 - Wt./100 pcs: See chart above.

Page notes unless otherwise specified: 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 13/16" from end.

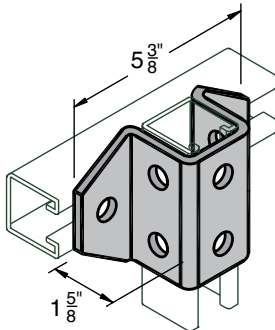
## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

AS 733

EG, GR

### 6-HOLE "U" SUPPORT



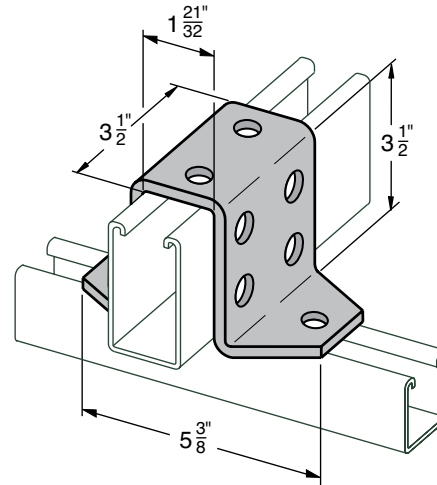
Use with AS 200 & AS 210

Std Pkg 10 - Wt./100 pcs: 167 Lbs.

AS 735

EG, GR

### 8-HOLE "U" SUPPORT



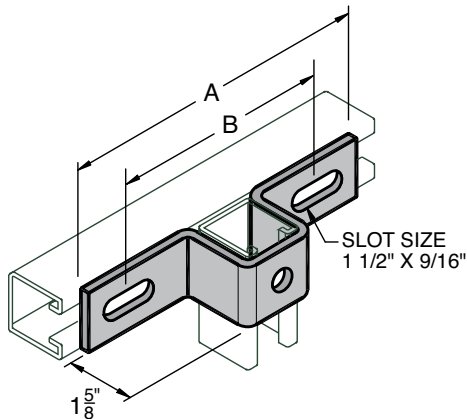
Use with AS 200 BTB

Std Pkg 10 - Wt./100 pcs: 266 Lbs.

AS 687

EG, GR

### SLOTTED "U" SUPPORT



| Catalog No. | A       | B      | Wt./100 Pcs. |
|-------------|---------|--------|--------------|
| AS 687 A    | 7 1/4"  | 4 1/8" | 103          |
| AS 687 B    | 8 1/2"  | 5 3/8" | 115          |
| AS 687 C    | 10 3/8" | 7 1/4" | 135          |

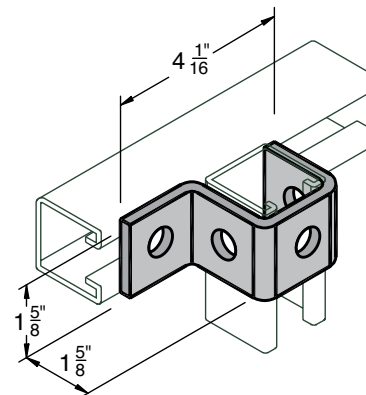
Use with AS 200 & AS 210

Std Pkg 10 - Wt./100 pcs: See chart above.

AS 677

EG, GR

### CUP SUPPORT FOR STANDARD SINGLE STRUT



Use with AS 200 & AS 210

Std Pkg 25 - Wt./100 pcs: 88 Lbs.

Page notes unless otherwise specified: 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 1 3/16" from end.

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

|                                                                              |               |
|------------------------------------------------------------------------------|---------------|
| <b>AS 631</b>                                                                | <b>EG, GR</b> |
| <b>2-HOLE SPLICE CLEVIS</b>                                                  |               |
| <p>Use with AS 200 &amp; AS 210</p> <p>Std Pkg 25 - Wt/100 pcs: 123 Lbs.</p> |               |

|                                                                              |               |
|------------------------------------------------------------------------------|---------------|
| <b>AS 629</b>                                                                | <b>EG, GR</b> |
| <b>3-HOLE SPLICE CLEVIS</b>                                                  |               |
| <p>Use with AS 200 &amp; AS 210</p> <p>Std Pkg 20 - Wt/100 pcs: 195 Lbs.</p> |               |

|                                                                              |                    |
|------------------------------------------------------------------------------|--------------------|
| <b>AS 616</b>                                                                | <b>EG, GR, ZTC</b> |
| <b>4-HOLE SPLICE CLEVIS</b>                                                  |                    |
| <p>Use with AS 200 &amp; AS 210</p> <p>Std Pkg 10 - Wt/100 pcs: 233 Lbs.</p> |                    |

|                                                                             |               |
|-----------------------------------------------------------------------------|---------------|
| <b>AS 644</b>                                                               | <b>EG, GR</b> |
| <b>2-HOLE SPLICE CLEVIS</b>                                                 |               |
| <p>Use with AS 500 &amp; AS 520</p> <p>Std Pkg 20 - Wt/100 pcs: 76 Lbs.</p> |               |

|                                                                              |               |
|------------------------------------------------------------------------------|---------------|
| <b>AS 645</b>                                                                | <b>EG, GR</b> |
| <b>3-HOLE SPLICE CLEVIS</b>                                                  |               |
| <p>Use with AS 500 &amp; AS 520</p> <p>Std Pkg 10 - Wt/100 pcs: 116 Lbs.</p> |               |

|                                                                              |                    |
|------------------------------------------------------------------------------|--------------------|
| <b>AS 646</b>                                                                | <b>EG, GR, ZTC</b> |
| <b>4-HOLE SPLICE CLEVIS</b>                                                  |                    |
| <p>Use with AS 500 &amp; AS 520</p> <p>Std Pkg 10 - Wt/100 pcs: 128 Lbs.</p> |                    |

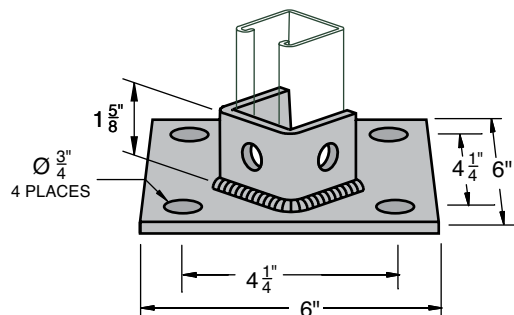
Page notes unless otherwise specified: 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 13/16" from end.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 3013** EG, GR

### SINGLE POST BASE

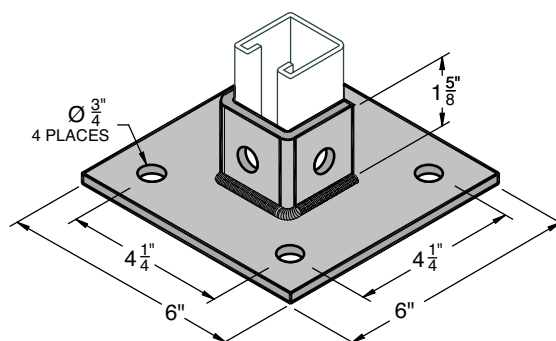


Use with AS 200 & AS 210

Std Pkg 10 - Wt/100 pcs: 307 Lbs.

**AS 3013SQ** EG, GR

### SINGLE POST BASE

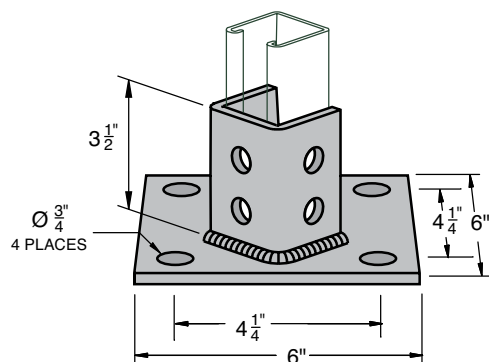


Use with AS 200 & AS 210

Std Pkg 5 - Wt/100 pcs: 314 Lbs.

**AS 3033** EG, GR, ZTC

### SINGLE POST BASE

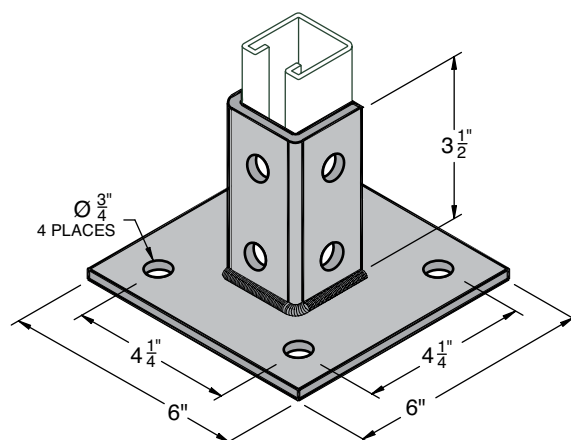


Use with AS 200 & AS 210

Std Pkg 10 - Wt/100 pcs: 373 Lbs.

**AS 3033SQ** EG, GR, ZTC

### SINGLE POST BASE

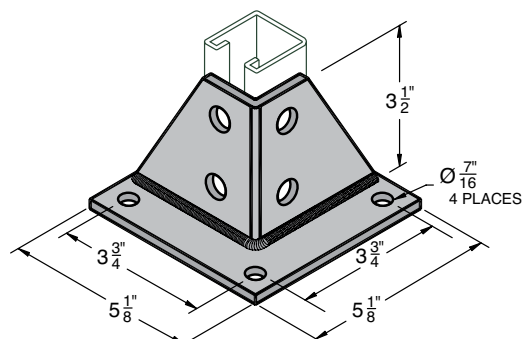


Use with AS 200 & AS 210

Std Pkg 10 - Wt/100 pcs: 392 Lbs.

**AS 3040** EG, GR

### POST BASE



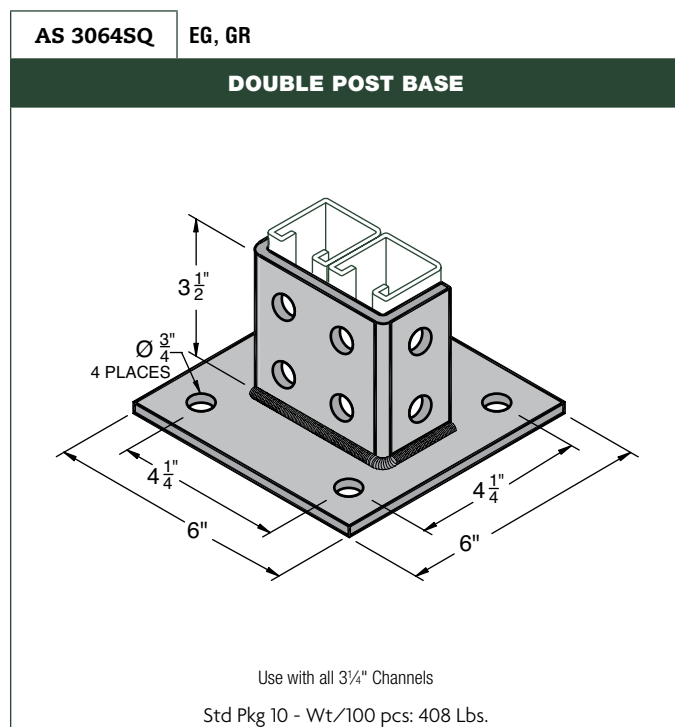
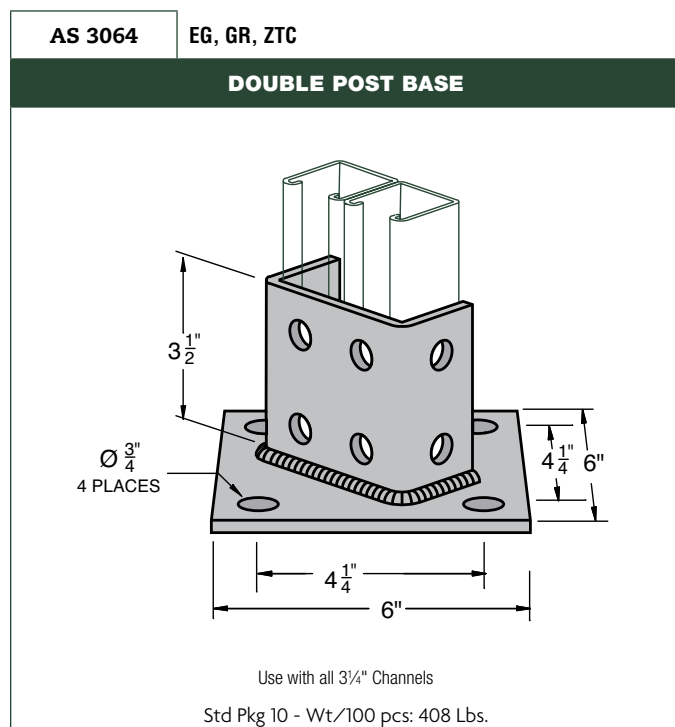
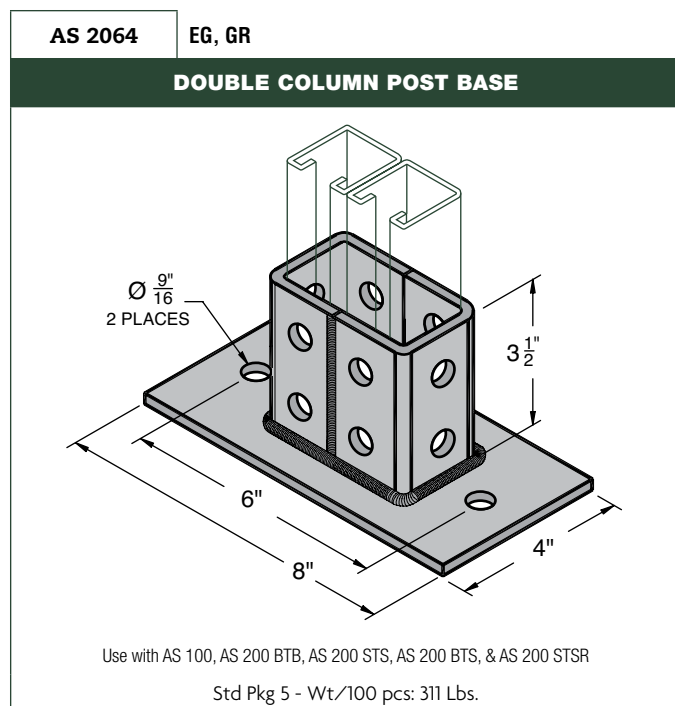
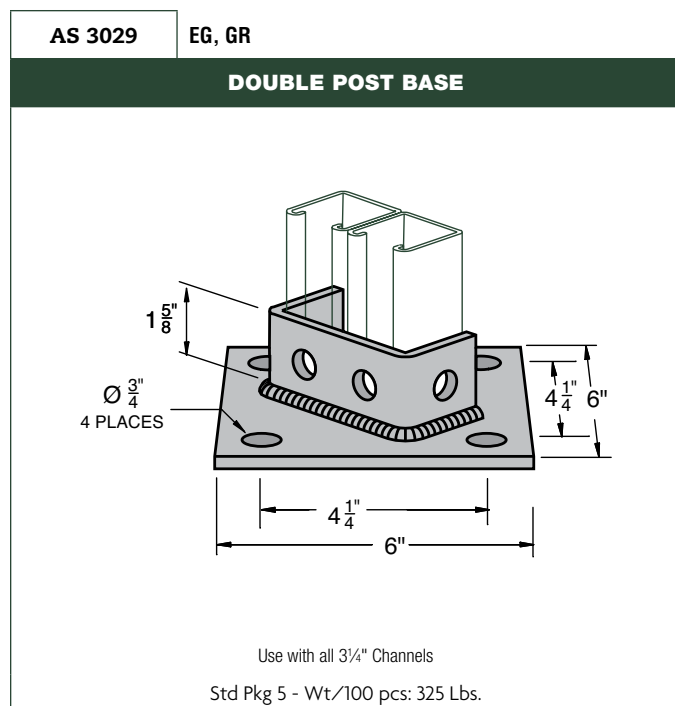
Use with AS 200 & AS 210

Std Pkg 10 - Wt/100 pcs: 297 Lbs.



**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

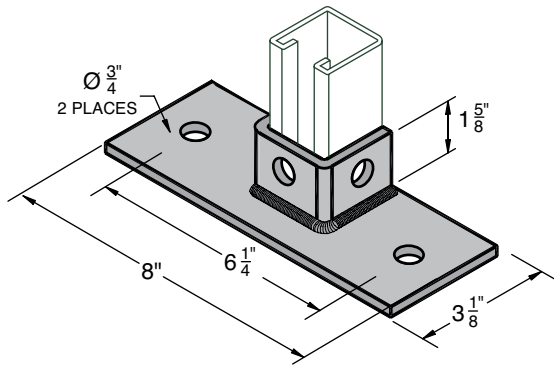


## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 3013FL** EG, GR

### SINGLE POST BASE



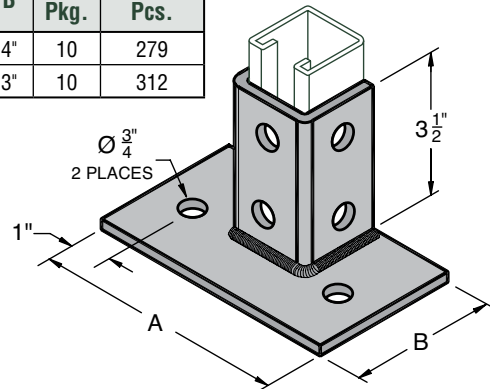
Use with AS 200 & AS 210

Std Pkg 10 - Wt/100 pcs: 230 Lbs.

**AS 3025FL** EG, GR

### SINGLE POST BASE

| A  | B  | Std. Pkg. | Wt./100 Pcs. |
|----|----|-----------|--------------|
| 6" | 4" | 10        | 279          |
| 8" | 3" | 10        | 312          |



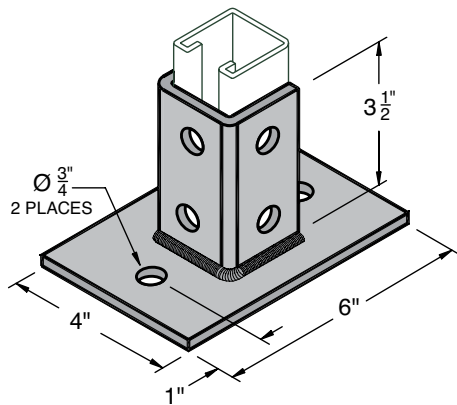
6" or 8" available

Use with AS 200 & AS 210

Std Pkg & Wt/100 pcs: See chart above.

**AS 3025** EG, GR

### SINGLE POST BASE



Use with AS 200 & AS 210

Std Pkg 10 - Wt/100 pcs: 358 Lbs.

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 926** **EG, GR**

**STRUT BRACE**

| A                                | B                                | Std. Pkg. | Wt./100 Pcs. |
|----------------------------------|----------------------------------|-----------|--------------|
| 24"                              | —                                | Bulk      | 280          |
| 16 <sup>5</sup> / <sub>8</sub> " | 13 <sup>5</sup> / <sub>8</sub> " | 10        | 232          |
| 12"                              | 10 <sup>1</sup> / <sub>8</sub> " | 15        | 175          |

Std Pkg & Wt./100 pcs: See chart above.

**AS 993** **EG, GR**

**INSIDE CLEVIS**

| A  | Std. Pkg. | Wt./100 Pcs. |
|----|-----------|--------------|
| 4" | 25        | 89           |
| 5" | 25        | 93           |
| 6" | 25        | 106          |
| 7" | 25        | 118          |
| 8" | 20        | 132          |

Std Pkg & Wt./100 pcs: See chart above.

**AS 2560, AS 2561** **EG**

**CONDUIT CONNECTOR FITTING ASSEMBLY**

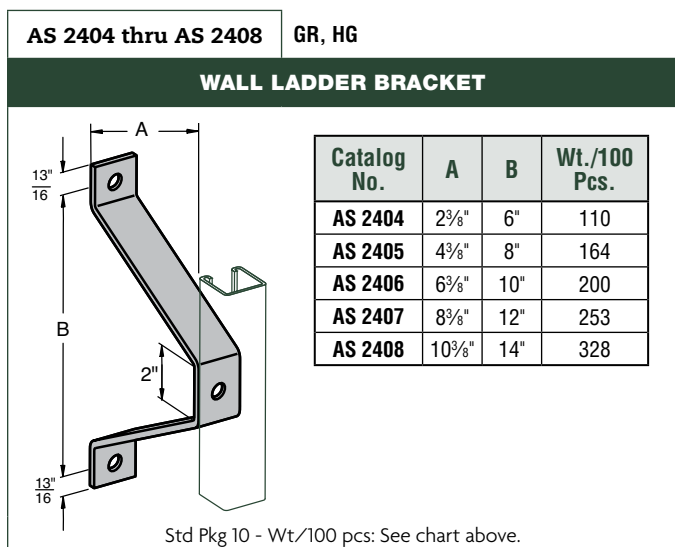
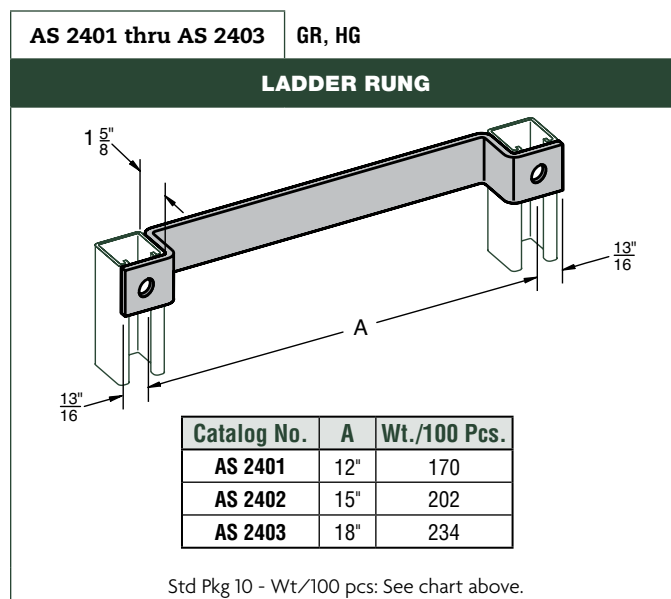
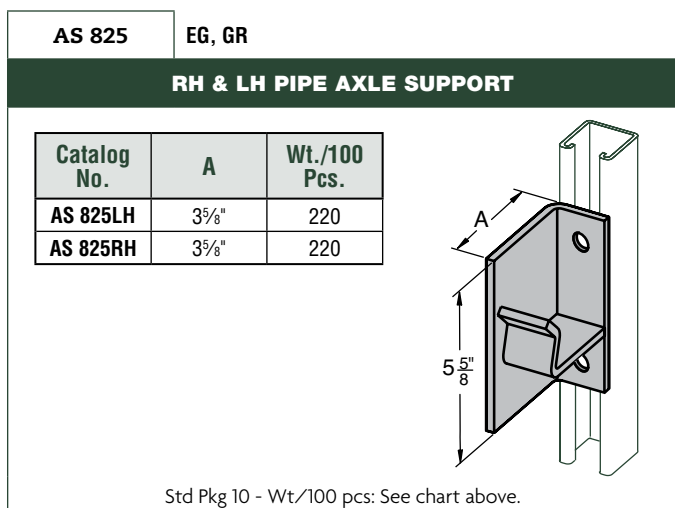
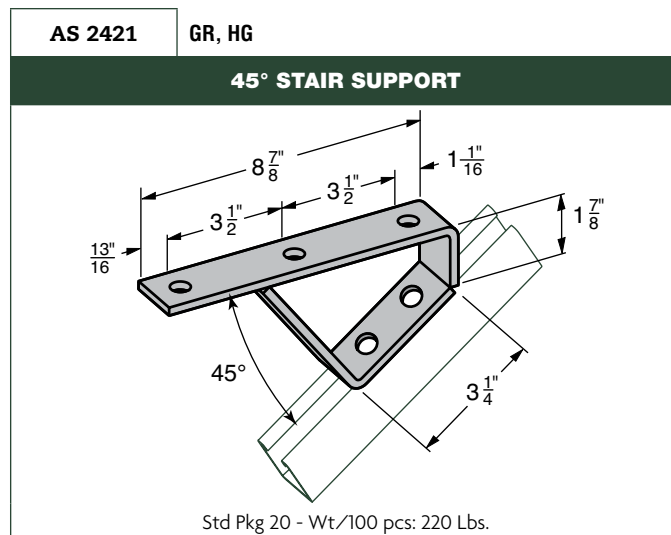
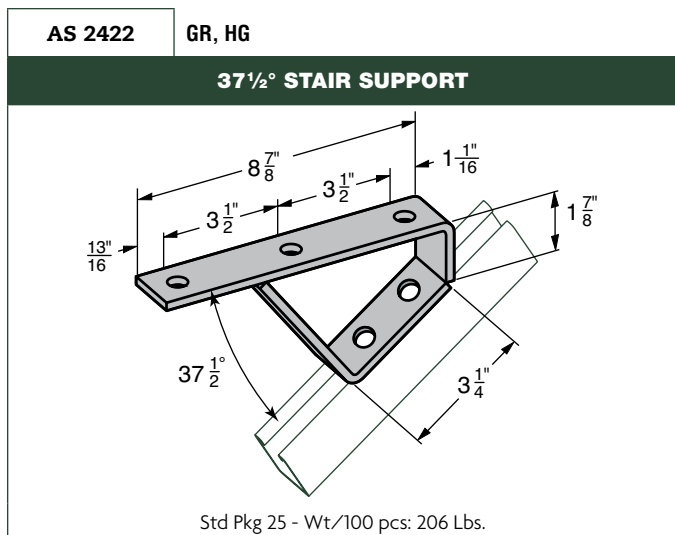
| Catalog No.    | Use With     | Std. Pkg. | Wt./100 Pcs. |
|----------------|--------------|-----------|--------------|
| <b>AS 2560</b> | 1/2" Conduit | 50        | 36           |
| <b>AS 2561</b> | 3/4" Conduit | 25        | 36           |

Std Pkg & Wt./100 pcs: See chart above.

Page notes unless otherwise specified: 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 13/16" from end.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.



Page notes unless otherwise specified: ¼" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 13/16" from end.

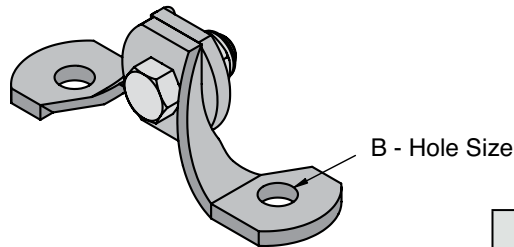
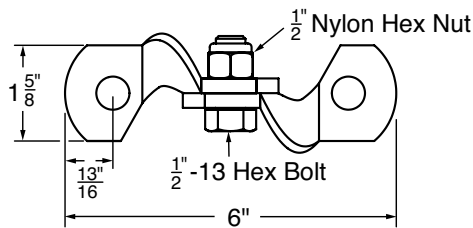
**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 9402**

**EG**

## 2-HOLE HINGE CONNECTOR



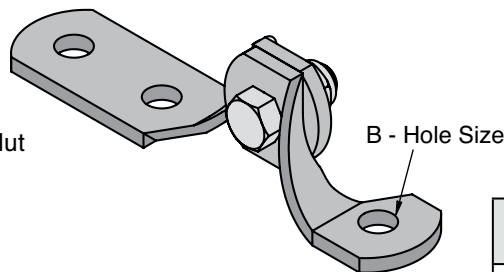
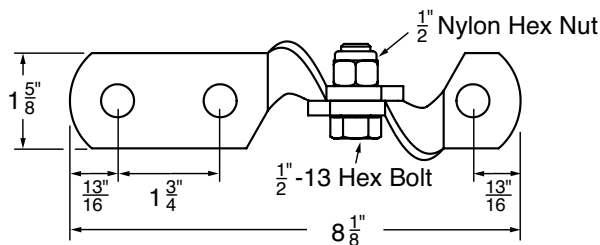
| B    | Wt./<br>100 Pcs. |
|------|------------------|
| 1/2" | 90               |
| 5/8" | 88               |
| 3/4" | 86               |

Std Pkg 15 - Wt/100 pcs: See chart above.

**AS 9403**

**EG**

## 3-HOLE HINGE CONNECTOR



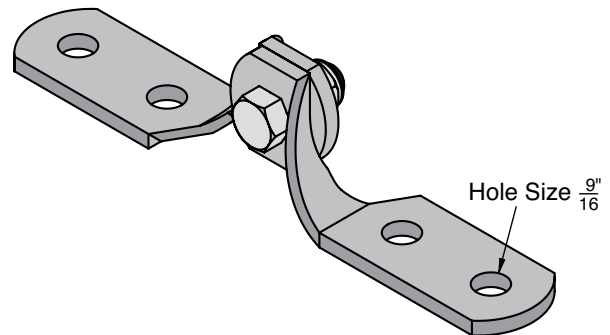
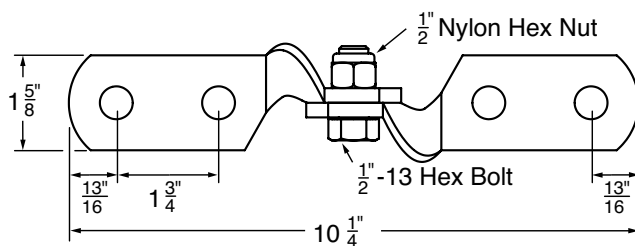
| B    | Wt./<br>100 Pcs. |
|------|------------------|
| 1/2" | 108              |
| 5/8" | 107              |
| 3/4" | 106              |

Std Pkg 15 - Wt/100 pcs: See chart above.

**AS 9404**

**EG**

## 4-HOLE HINGE CONNECTOR



Std Pkg 10 - Wt/100 pcs: 126 Lbs.

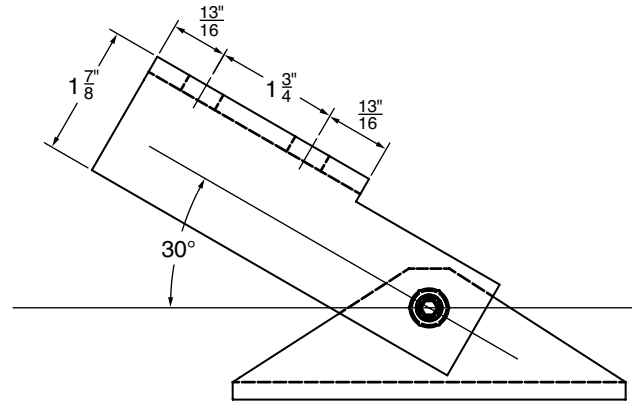
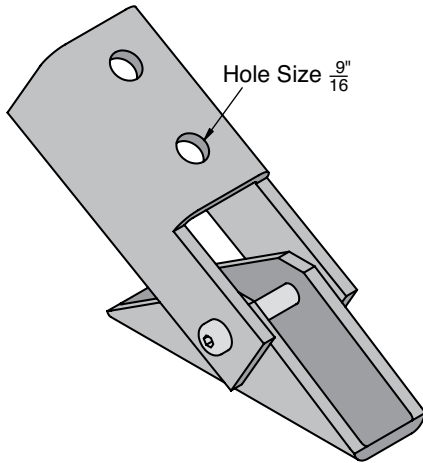
Page notes unless otherwise specified: 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 13/16" from end.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 9400 & AS 9401** EG, GR

### ADJUSTABLE BASES



| Catalog No.    | Description            | Std. Pkg. | Wt./100 Pcs. |
|----------------|------------------------|-----------|--------------|
| <b>AS 9400</b> | Adjustable Base        | 10        | 307          |
| <b>AS 9401</b> | Double Adjustable Base | 5         | 497          |

Std Pkg & Wt./100 pcs: See chart above.

Page notes unless otherwise specified: 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 13/16" from end.

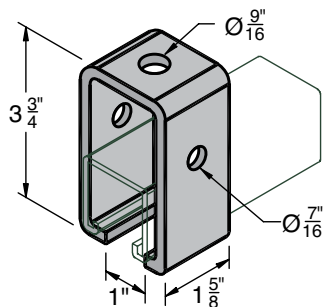
## Trolleys & Accessories

### LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 2528** EG, GR

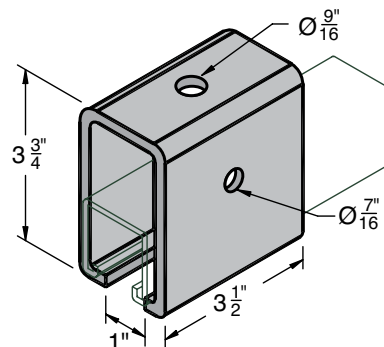
### TROLLEY BEAM STANDARD SUPPORT



Std Pkg 10 - Wt/100 pcs: 107 Lbs.

**AS 2528-1** EG, GR

### TROLLEY BEAM JOINT SUPPORT

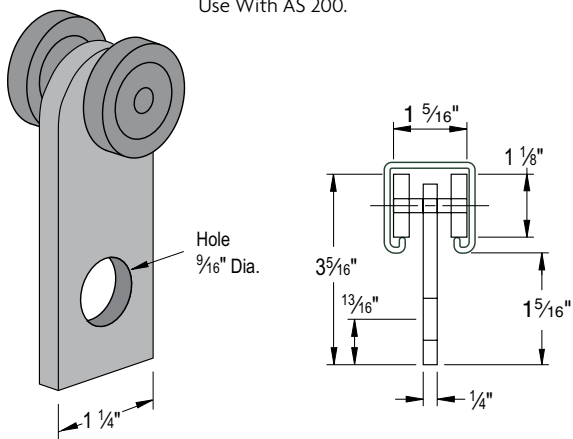


Std Pkg 10 - Wt/100 pcs: 233 Lbs.

**AS 2521** EG

### TWO WHEEL TROLLEY

Use With AS 200.

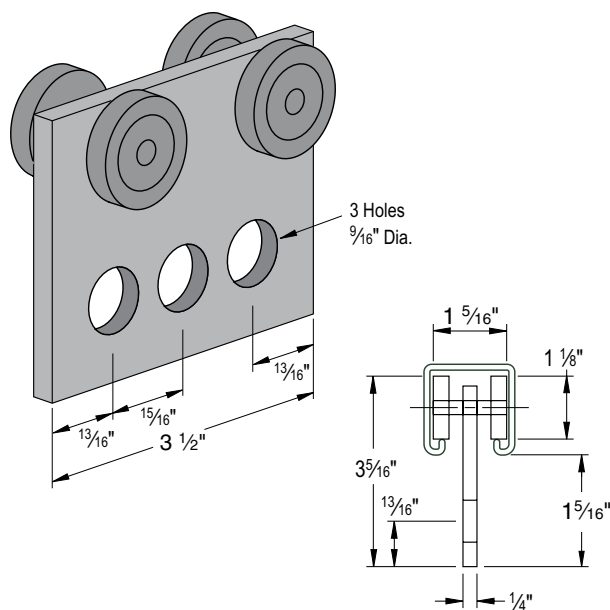


Stainless Steel Ball Bearings  
\* Based on standard dimensions for channel  
Std Pkg: 20 - Wt/100 pcs: 46 lbs.

**AS 2522** EG

### FOUR WHEEL TROLLEY

Use With AS 200.



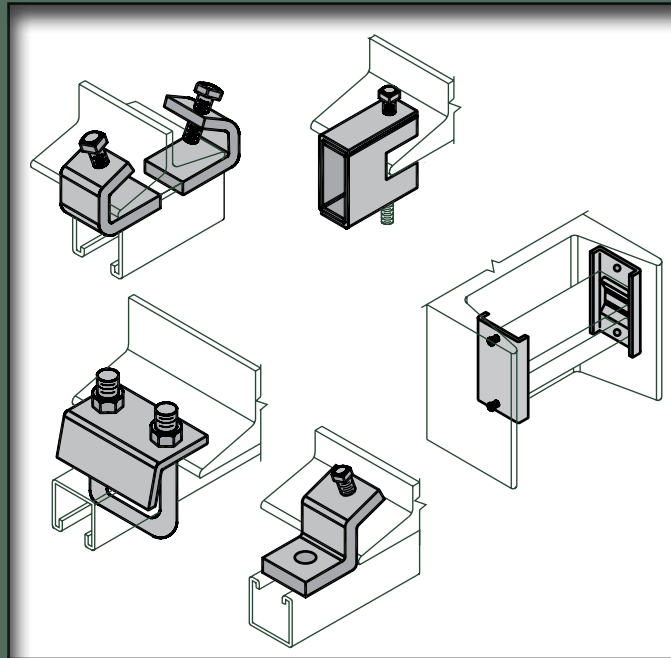
Stainless Steel Ball Bearings  
\* Based on standard dimensions for channel  
Std Pkg: 10 - Wt/100 pcs: 110 lbs.

Page notes unless otherwise specified: 1/4" thick, 1 5/8" wide, holes 9/16" diameter, spaced 1 7/8" on center and 13/16" from end.





# BEAM CLAMPS



## Specifications

### GENERAL

Anvil-Strut Beam Clamps are designed to secure all Anvil-Strut 1 $\frac{5}{8}$ " wide channels, or threaded rod, to beams or supports for the purpose of running piping, conduit or tubing. All Anvil-Strut fittings are manufactured from  $\frac{1}{4}$ " thick carbon steel or cast malleable iron.

The more popular beam clamps are illustrated on the following pages. However, there are hundreds of others available. Please contact Anvil for any other clamps you may need.

### ORDERING

Please specify catalog number and finish.

### MATERIAL

Anvil-Strut fittings are manufactured from the following material:

|                                    |             |
|------------------------------------|-------------|
| Hot Rolled Steel Sheet .....       | ASTM A-1101 |
| Cold Rolled Steel Sheet .....      | ASTM A-1008 |
| Stainless Steel-Type 304/316 ..... | ASTM A-240  |
| Malleable Cast Iron .....          |             |

### FINISH

Anvil-Strut pipe clamps are available in the following finishes:

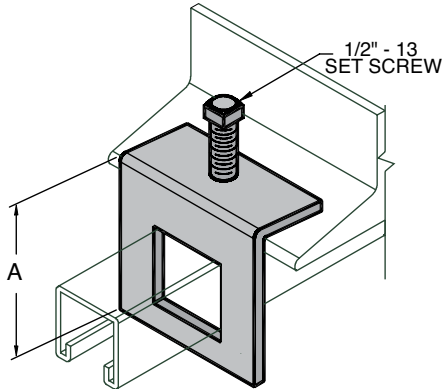
|                                      |               |
|--------------------------------------|---------------|
| Electro-Galvanized .....             | ASTM B-633    |
| Hot Dipped Galvanized .....          | ASTM A-123    |
| Zinc Trivalent Chromium .....        | ASTM B-633-85 |
| Powder Coated Supr-Green.....        | ASTM B-117    |
| PVC Coating - Available Upon Request |               |

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 855** EG, GR

### ANGULAR "I" BEAM CLAMP

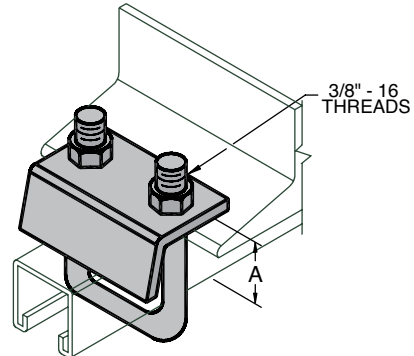


| Catalog No. | Use With      | A        | Load Rating | Wt./100 Pcs. |
|-------------|---------------|----------|-------------|--------------|
| AS 855 1    | AS 200, AS210 | 3½"      | 500         | 107          |
| AS 855 2    | AS 500        | 2'11⁄16" | 500         | 98           |

Std Pkg 25 - Wt/100 pcs: See chart above.

**AS 2651** EG, ZTC

### BEAM CLAMP

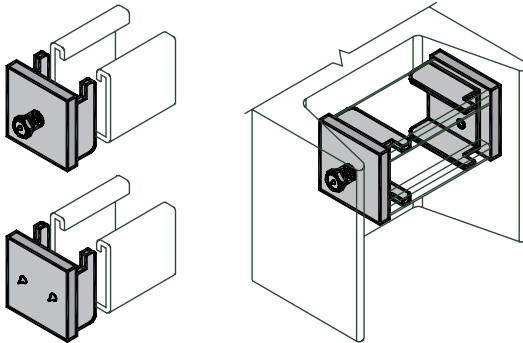


| Catalog No. | A  | Load Rating | Wt./100 Pcs. |
|-------------|----|-------------|--------------|
| AS 2651 T1  | 3" | 1000 Lbs    | 89           |
| AS 2651 T2  | 5" | —           | 92           |

Std Pkg 25 - Wt/100 pcs: See chart above.

**AS 2654** EG, GR

### COLUMN ATTACHMENT



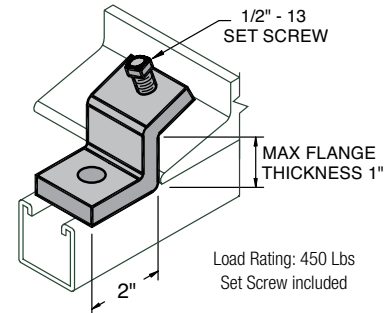
| Catalog No. | Use With | Wt./100 Pcs. |
|-------------|----------|--------------|
| AS 2654     | AS 200   | 53 (pair)    |

Sold only in pairs

Std Pkg 25 - Wt/100 pcs: See chart above.

**AS 685** EG, GR

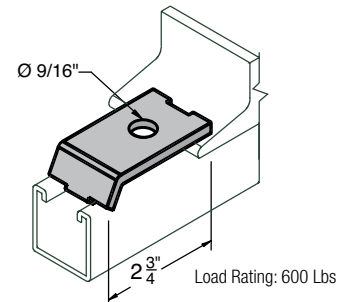
### BEAM CLAMP



Std Pkg 20 - Wt/100 pcs: 66 Lbs.

**AS 686** EG, GR

### BEAM CLAMP



Std Pkg 50 - Wt/100 pcs: 30 Lbs.

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**Fig. 86**

**CLAMP WITH LOCK NUT**

Size Range  $\frac{3}{8}$ " thru  $\frac{3}{4}$ ".



For additional information, please refer to the Anvil Pipe Hanger Catalog.

**Fig. 93**

**TOP BEAM "C" CLAMP**

Size Range  $\frac{3}{8}$ " thru  $\frac{1}{2}$ ".

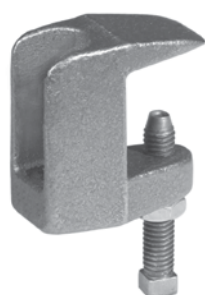


For additional information, please refer to the Anvil Pipe Hanger Catalog.

**Fig. 94**

**TOP BEAM "C" CLAMP**

Size Range  $\frac{5}{8}$ " thru  $\frac{3}{4}$ ".

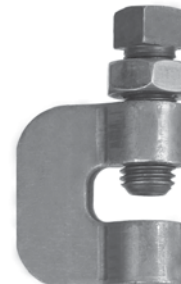


For additional information, please refer to the Anvil Pipe Hanger Catalog.

**Fig. 95**

**CLAMP WITH LOCK NUT**

Size Range  $\frac{3}{8}$ " thru  $\frac{3}{4}$ ".



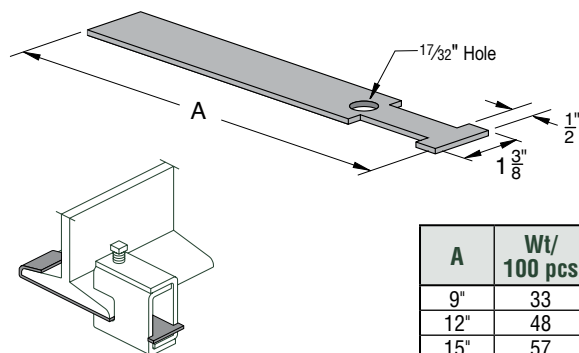
For additional information, please refer to the Anvil Pipe Hanger Catalog.

**AS 871**

**EG**

**SAFETY ANCHOR STRAP**

(For Heavy Duty Beam Clamps.) Use with AS 858, AS 865  
(Cannot Be Used With  $\frac{5}{8}$ " Rod Size Beam Clamps and Larger).



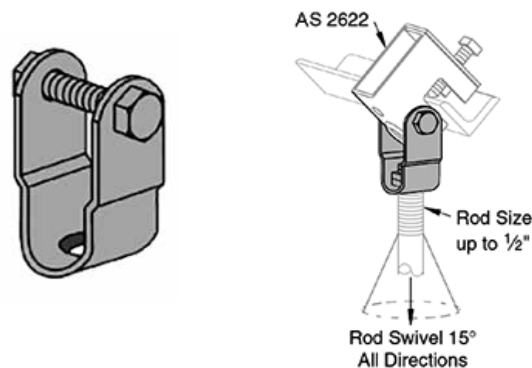
Std Pkg: Bulk · Wt/100 pcs: See chart above.

**AS 2623**

**EG**

**SWIVEL ADAPTER**

Use With AS 2622 Beam Clamp.



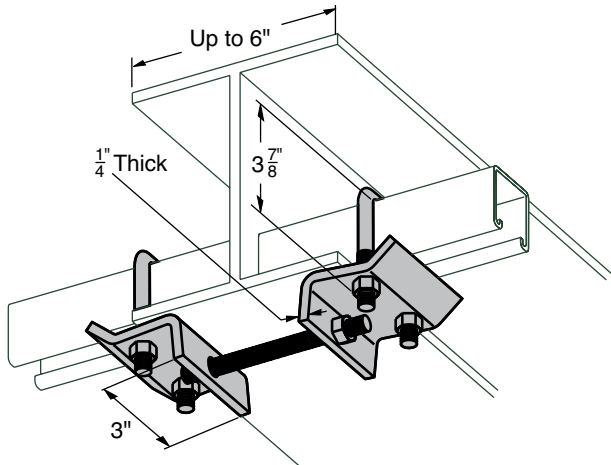
Std Pkg: 50 · Wt/100 pcs: 31 lbs.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 2657** EG

### DOUBLE "U" BOLT BEAM CLAMP



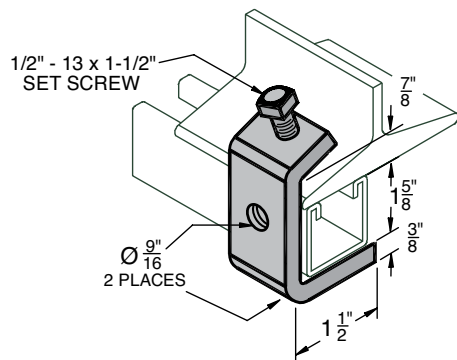
| Catalog No.          | Std. Pkg. | Wt./100 Pcs. |
|----------------------|-----------|--------------|
| <b>AS 2657 T1 6</b>  | 10        | 204          |
| <b>AS 2657 T1 12</b> | 10        | 210          |
| <b>AS 2657 T2 6</b>  | 10        | 226          |
| <b>AS 2657 T2 12</b> | 10        | 232          |

Specify 6" or 12" flange width  
T1 Use with AS 200, AS 210, AS 300, AS 400, AS 500, AS 520  
T2 Use with AS 100, AS 150, AS 200 BTB

Std Pkg & Wt./100 pcs: See chart above.

**AS 684** EG, GR

### BEAM CLAMP

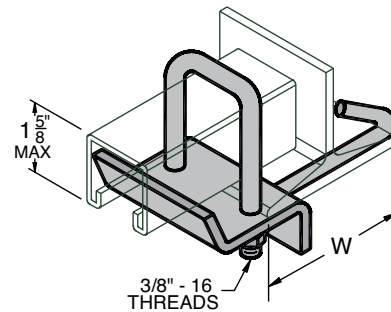


Set Screw included

Std Pkg 25 - Wt./100 pcs: 92 Lbs.

**AS 2656** EG

### "U" BOLT BEAM CLAMP WITH HOOK



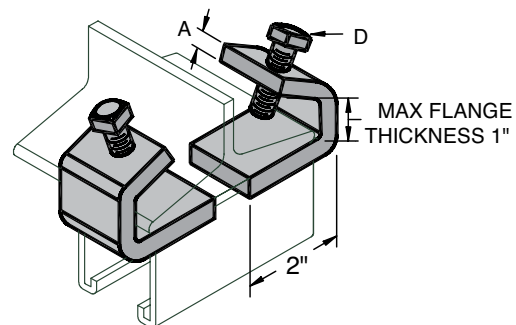
| Catalog No.          | Std. Pkg. | Wt./100 Pcs. |
|----------------------|-----------|--------------|
| <b>AS 2656 T1 6</b>  | 10        | 130          |
| <b>AS 2656 T1 12</b> | 10        | 142          |
| <b>AS 2656 T2 6</b>  | 10        | 141          |
| <b>AS 2656 T2 12</b> | 10        | 153          |

Specify 6" or 12" flange width  
T1 Use with AS 200, AS 210, AS 300, AS 400, AS 500, AS 520  
T2 Use with AS 100, AS 150, AS 200 BTB

Std Pkg & Wt./100 pcs: See chart above.

**AS 907 & AS 998** EG, GR(AS 907 Only)

### "I" BEAM CLAMP



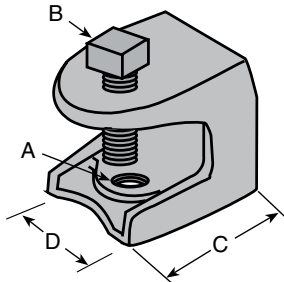
| Catalog No.   | A    | Flange Thickness | D                  | Std. Pkg. | Wt./100 Pcs. |
|---------------|------|------------------|--------------------|-----------|--------------|
| <b>AS 907</b> | 1/4" | Up to 3/4"       | 3/8" - 16 x 1 1/2" | 50        | 41           |
| <b>AS 998</b> | 3/8" | Up to 3/4"       | 1/2" - 13 x 1 1/2" | 25        | 62           |

Set Screw Included

Std Pkg & Wt./100 pcs: See chart above.

**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 85**
**EG**
**ROD OR INSULATOR SUPPORT**


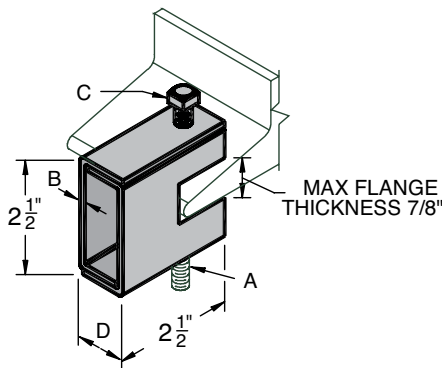
| Rod Size<br>A | Set<br>Screw<br>B | C      | D       | Load<br>Lbs. | Std.<br>Pkg. | Wt./100<br>Pcs. |
|---------------|-------------------|--------|---------|--------------|--------------|-----------------|
| 1/4"-20       | 5/16"-18          | 1 3/8" | 1 3/16" | 150          | 50           | 24              |
| 3/8"-16       | 1/2"-13           | 1 7/8" | 1 3/16" | 350          | 25           | 65              |
| 1/2"-13       | 1/2"-13           | 2 3/8" | 2 1/2"  | 1000         | 25           | 130             |

Material: Malleable Iron

Application: Rod support for beams with a flange thickness of 1/2" max.

Ordering: Specify part number and rod size

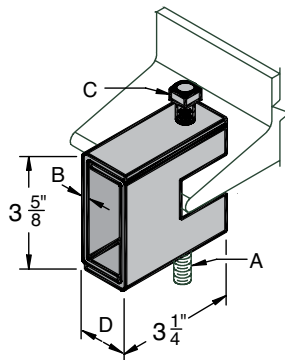
Std Pkg & Wt./100 pcs: See chart above.

**AS 858**
**EG**
**HEAVY DUTY SUSPENSION ROD BEAM CLAMP**


| A        | B     | C             | D        | Wt./100<br>Pcs. | Design<br>Load |
|----------|-------|---------------|----------|-----------------|----------------|
| 1/4"-20  | 1/8"  | 3/8" x 1 1/2" | 7/8"     | 67              | 650            |
| 5/16"-18 | 1/8"  | 3/8" x 1 1/2" | 7/8"     | 67              | 650            |
| 3/8"-16  | 3/16" | 1/2" x 1 1/2" | 1 5/16"  | 100             | 1100           |
| 1/2"-13  | 1/4"  | 1/2" x 1 1/2" | 1 5/16"  | 100             | 1600           |
| 5/8"-11  | 5/16" | 5/8" x 1 1/2" | 1 15/16" | 160             | 2400           |
| 3/4"-10  | 5/16" | 5/8" x 1 1/2" | 1 15/16" | 160             | 2400           |

Set Screw included

Std Pkg 10 - Wt./100 pcs: See chart above.

**AS 865**
**EG**
**WIDE THROAT HEAVY DUTY BEAM CLAMP**


| A       | B     | C         | D        | Wt./100<br>Pcs. | Design<br>Load |
|---------|-------|-----------|----------|-----------------|----------------|
| 1/4"-20 | 1/8"  | 3/8" x 2" | 1 21/32" | 109             | 800            |
| 3/8"-16 | 3/16" | 1/2" x 2" | 1 11/16" | 156             | 1300           |
| 1/2"-13 | 1/4"  | 1/2" x 2" | 1 11/16" | 201             | 1900           |

For beams between 3/4" to 1 5/8" thick flanges.

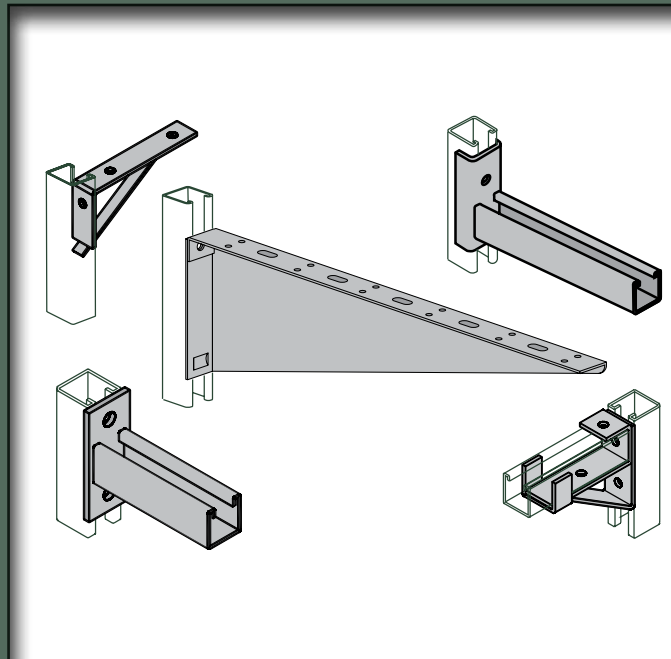
Set Screw included

Std Pkg 10 - Wt./100 pcs: See chart above.





# BRACKETS



## SPECIFICATIONS

### GENERAL

Anvil-Strut Brackets are designed to support pipe or conduit either suspended from threaded rod or supported as a cantilever from the wall. Note: These brackets can also be used in conjunction with electrical fittings.

|                                    |             |
|------------------------------------|-------------|
| Hot Rolled Steel Sheet .....       | ASTM A-1011 |
| Cold Rolled Steel Sheet .....      | ASTM A-1008 |
| Stainless Steel-Type 304/316 ..... | ASTM A-240  |
| Aluminum .....                     | ASTM B-221  |

### MATERIAL

Anvil-Strut Hanging Supports are produced from our standard channels. All hole dimensions are  $\frac{9}{16}$ " diameter, which are located on the trapezes 1" from the end. Holes are located  $\frac{13}{16}$ " from the end,  $1\frac{7}{8}$ " on centers on the brackets.

### FINISH

Anvil-Strut brackets are available in the following finishes:

|                                      |               |
|--------------------------------------|---------------|
| Electro-Galvanized .....             | ASTM B-633    |
| Hot Dipped Galvanized .....          | ASTM A-123    |
| Zinc Trivalent Chromium .....        | ASTM B-633-85 |
| Powder Coated Supr-Green.....        | ASTM B-117    |
| PVC Coating - Available Upon Request |               |

### ORDERING

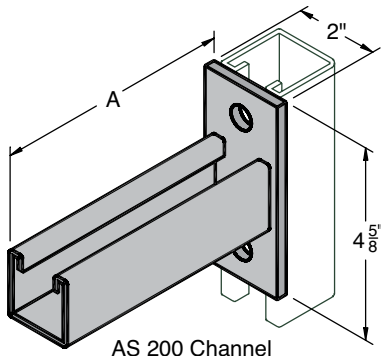
Specify catalog number, length and finish.

## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 651** EG, GR, ZTC

### REVERSIBLE STRUT BRACKET



AS 200 Channel

| A   | Std. Pkg. | Uniform Load Capacity (Lbs) |
|-----|-----------|-----------------------------|
| 6"  | Bulk      | 1,932                       |
| 12" | Bulk      | 1,107                       |
| 18" | 10        | 759                         |
| 24" | Bulk      | 332                         |

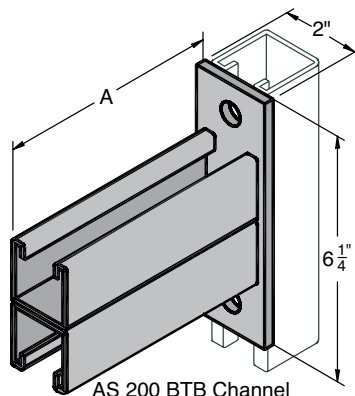
Note: 1. Loads Based On Actual Independent Lab Testing On 12 Gage Channel  
2. Safety Factor = 2.5

Ordering: Specify Part number, length (A) and finish

Std Pkg: See chart above.

**AS 809** EG, GR, ZTC

### DOUBLE CHANNEL BRACKET



AS 200 BTB Channel

| A   | Uniform Load Capacity (Lbs) |
|-----|-----------------------------|
| 12" | 1,621                       |
| 18" | 1,234                       |
| 24" | 905                         |
| 30" | 727                         |
| 36" | 600                         |

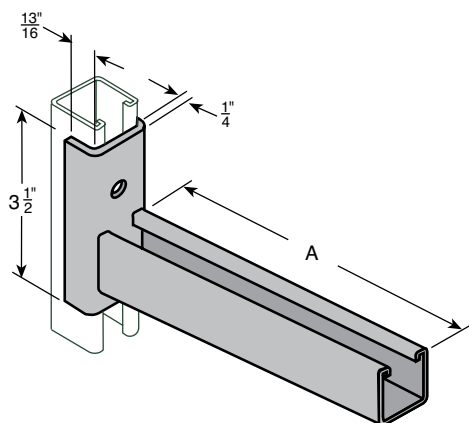
Note: 1. Loads Based On Actual Independent Lab Testing On 12 Gage Channel  
2. Safety Factor = 2.5

Ordering: Specify Part number, length (A) and finish

Std Pkg Bulk

**AS 661 T1** GR

### STRUT BRACKET (SLOT UP)

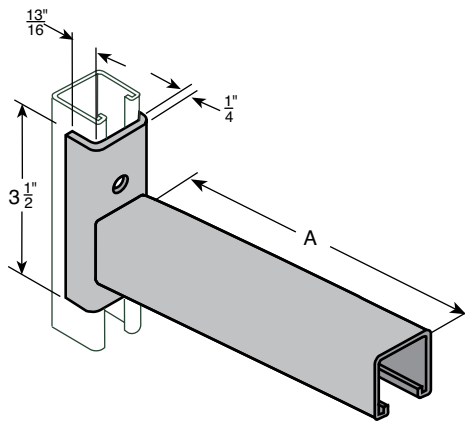


| A   | Wt./100 Pcs. |
|-----|--------------|
| 6"  | 191          |
| 12" | 291          |
| 18" | 436          |
| 24" | 536          |

Std Pkg Bulk - Wt/100 pcs: See chart above.

**AS 661 T2** GR

### STRUT BRACKET (SLOT DOWN)



| A   | Wt./100 Pcs. |
|-----|--------------|
| 6"  | 191          |
| 12" | 291          |
| 18" | 436          |
| 24" | 536          |

Std Pkg Bulk - Wt/100 pcs: See chart above.

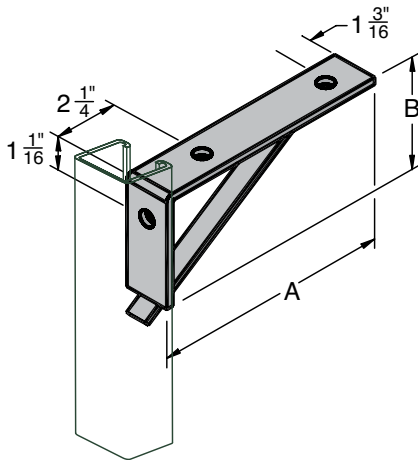
## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

**AS 732**

**GR**

### SHELF BRACKET



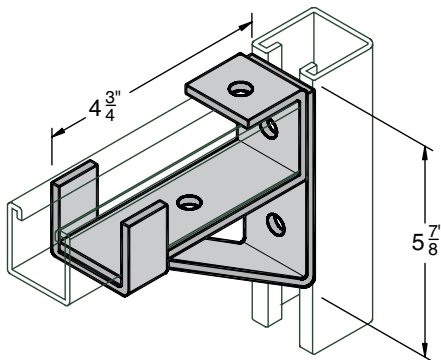
| Size | A    | B  | Uniform Load* | Wt./100 Pcs. |
|------|------|----|---------------|--------------|
| 8"   | 8½"  | 4" | 800           | 168          |
| 10"  | 10½" | 4" | 800           | 202          |
| 12"  | 12½" | 6" | 900           | 258          |
| 14"  | 14½" | 6" | 900           | 292          |
| 16"  | 16½" | 6" | 1,200         | 381          |
| 18"  | 18½" | 6" | 1,200         | 416          |
| 20"  | 20½" | 6" | 1,000         | 461          |

Std Pkg Bulk - Wt/100 pcs: See chart above.

**AS 708**

**EG, GR**

### SINGLE CHANNEL BRACKET SUPPORT



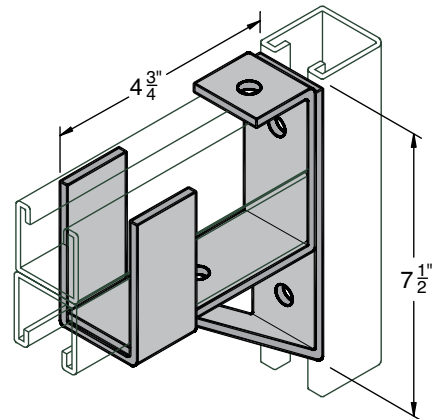
Use with AS 200 and AS 210

Std Pkg 20 - Wt/100 pcs: 230 Lbs.

**AS 3164**

**EG, GR**

### DOUBLE CHANNEL BRACKET SUPPORT



Use with AS 200 BTB and AS 210 BTB

Std Pkg 10 - Wt/100 pcs: 275 Lbs.

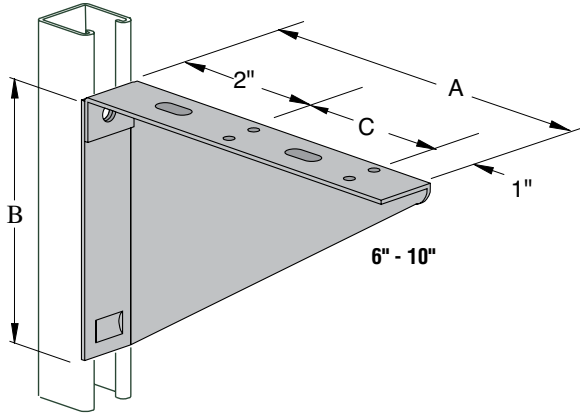
## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium  
Stainless Steel (**SS**), Zinc Trivalent Chromium (**ZTC**) and Hot Dipped Galvanized (**HG**) are specialty finishes. Pricing is located in the Specialty Strut Section of the Anvil-Strut price book.

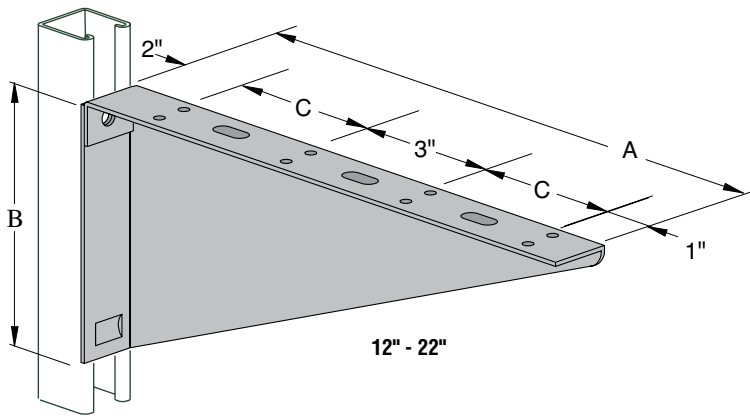
AS 838

EG, GR

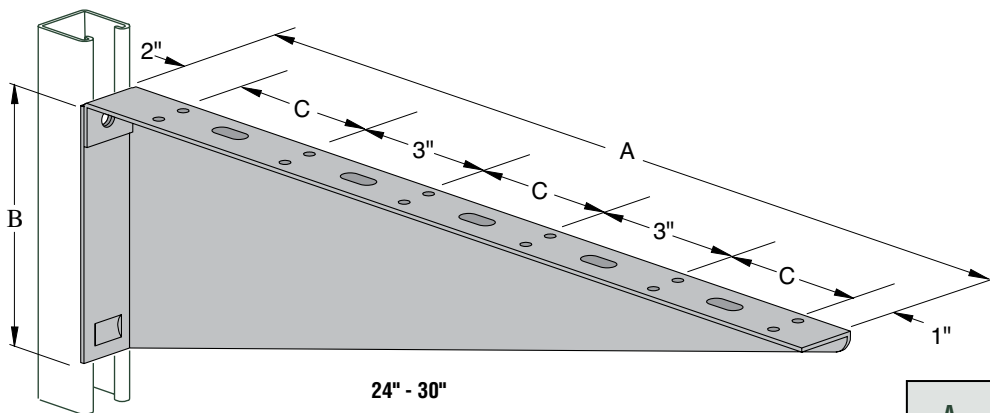
### RH & LH SHELF BRACKET (RIGHT HAND SHOWN)



| A   | B                                 | C  | Std. Pkg. | Wt./100 Pcs. |
|-----|-----------------------------------|----|-----------|--------------|
| 6"  | 2 <sup>15</sup> / <sub>16</sub> " | 3" | 25        | 56           |
| 8"  | 2 <sup>15</sup> / <sub>16</sub> " | 5" | 25        | 82           |
| 10" | 2 <sup>15</sup> / <sub>16</sub> " | 7" | 25        | 112          |



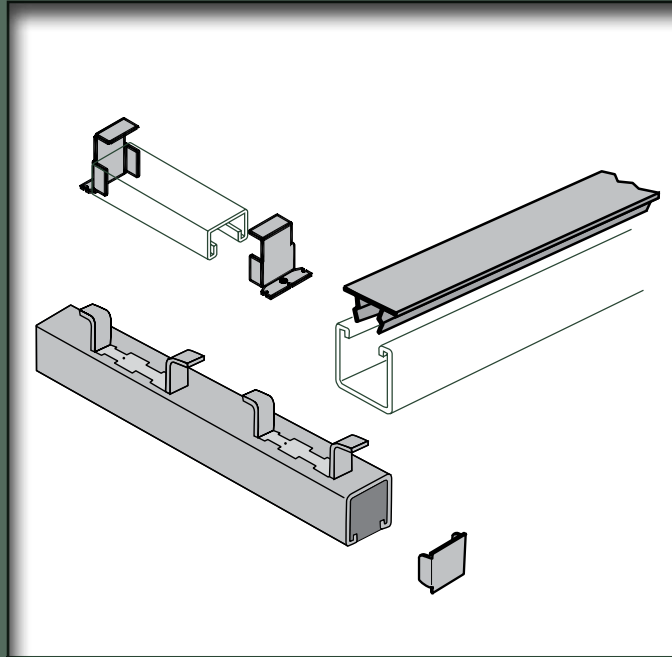
| A   | B                                 | C  | Std. Pkg. | Wt./100 Pcs. |
|-----|-----------------------------------|----|-----------|--------------|
| 12" | 3 <sup>7</sup> / <sub>16</sub> "  | 3" | 25        | 134          |
| 14" | 3 <sup>15</sup> / <sub>16</sub> " | 4" | 25        | 185          |
| 16" | 4 <sup>7</sup> / <sub>16</sub> "  | 5" | 20        | 198          |
| 18" | 4 <sup>15</sup> / <sub>16</sub> " | 6" | 20        | 218          |
| 20" | 5 <sup>7</sup> / <sub>16</sub> "  | 7" | 20        | 258          |
| 22" | 5 <sup>15</sup> / <sub>16</sub> " | 8" | —         | 348          |



| A   | B                                 | C                                | Std. Pkg. | Wt./100 Pcs. |
|-----|-----------------------------------|----------------------------------|-----------|--------------|
| 24" | 6 <sup>7</sup> / <sub>16</sub> "  | 5"                               | —         | 400          |
| 26" | 6 <sup>15</sup> / <sub>16</sub> " | 5 <sup>1</sup> / <sub>16</sub> " | —         | 445          |
| 28" | 7 <sup>7</sup> / <sub>16</sub> "  | 6 <sup>5</sup> / <sub>16</sub> " | —         | 493          |
| 30" | 7 <sup>15</sup> / <sub>16</sub> " | 7"                               | —         | 545          |

Std Pkg & Wt/100 pcs: See chart above.

# CONCRETE INSERTS



## SPECIFICATIONS

### GENERAL

Anvil-Strut Concrete Inserts are designed for the attachment or suspension of framing, piping or equipment to concrete structures where a continuous insert slot is required.

Continuous Concrete Inserts are nailed to the forms through the knockout holes provided in the closure cap. Nails may be cut off after removal of the forms.

### MATERIAL

Anvil-Strut Concrete Inserts and Accessories are produced from prime steel covering the following specifications:

Hot Rolled Carbon Steel . . . . .ASTM A-1011-04-SS  
Cold Rolled Carbon Steel. . . . .ASTM A-1008  
Stainless Steel - Type 304/316. . . .ASTM A-240

### FINISH

Anvil-Strut Concrete Inserts and Accessories are stocked in the following finishes:

Pre-Galvanized . . . . .ASTM A-653-G90  
Hot Dipped Galvanized . . . . .ASTM A-123  
Electro Galvanized . . . . .ASTM B-633

### LENGTH

Anvil-Strut Concrete Inserts are produced and stocked in 10 and 20 foot lengths. Other lengths are available upon request.

### ORDERING

Specify catalog number, length or size where required and finish when necessary.

## LEGEND:

GR: Powder Coated Supr-Green EG: Electro-Galvanized PG: Pre-Galvanized AL: Aluminum HG: Hot Dipped Galvanized PL: Plain SS: Stainless Steel ZTC: Zinc Trivalent Chromium

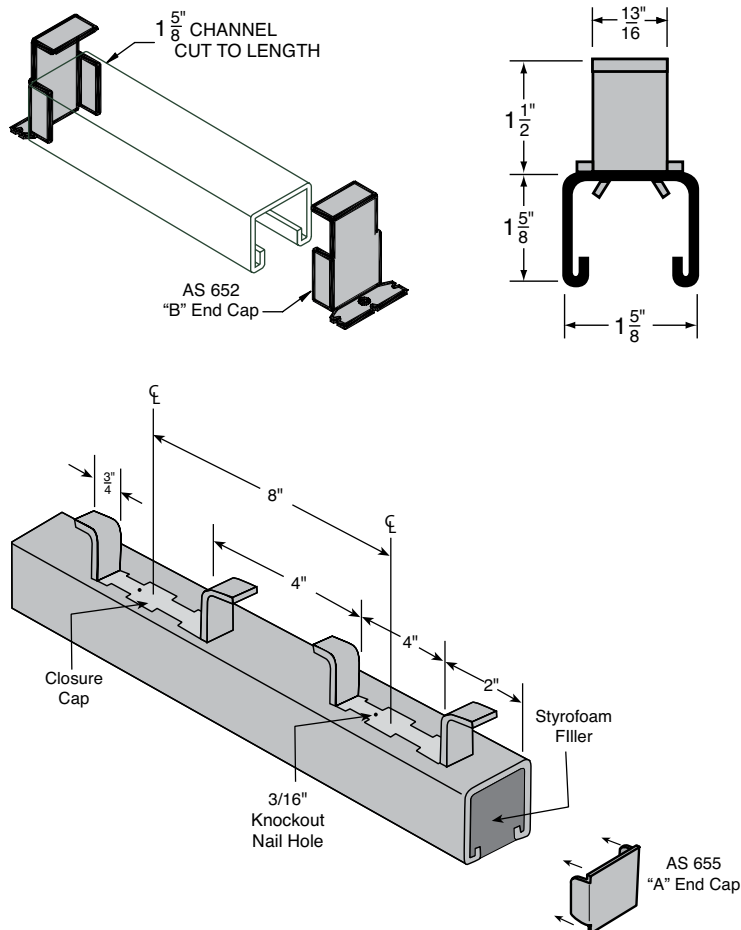
AS 249

PG, PL

### CONTINUOUS CONCRETE INSERT

## FEATURES

- Loading data was calculated in a concrete mixture which was proportioned so that the compression strength of the concrete was 2,500 to 3,000 pounds per square inch and that the load is dependent on the surrounding concrete.
- Tests were performed with a safety factor of 3, and in accordance with the MFMA Specifications.
- Anvil-Strut concrete inserts are supplied with the AS 652 or AS 655 end cap and either a styrofoam filler or plastic strip (AS 6151) installed in the insert channel to prevent any concrete seepage.
- Stocked in either plain and pre-galvanized, see technical data section for ASTM specifications.
- Inserts should be secured to forms at 16" intervals.
- When ordering, please indicate finish and either foam filler, or plastic closure.



With Closure Strip and End Cap Installed (CS/EC) or with Foam and End Cap Installed (F/EC).

| Part No.        | End Cap |
|-----------------|---------|
| AS 249 CS/EC 10 | A       |
| AS 249 CS/EC 20 | A       |
| AS 249 F/EC 10  | A       |
| AS 249 F/EC 20  | A       |

| Length in Inches | Max. Allowable Load | End Caps        |
|------------------|---------------------|-----------------|
| 12               | 2000 Lbs.           | AS 652 Type "B" |
| 18               | 2000 Lbs.           | AS 655 Type "A" |
| 24               | 2000 Lbs.           |                 |
| 30               | 2000 Lbs.           |                 |
| 36               | 2000 Lbs.           |                 |

Without Closure Strip and End Cap.

| Part No.      |
|---------------|
| AS 249 W/O 10 |
| AS 249 W/O 20 |

1 5/8" x 1 5/8" x 12 Gauge Channel  
Stocked in 10' or 20' lengths, Other lengths available

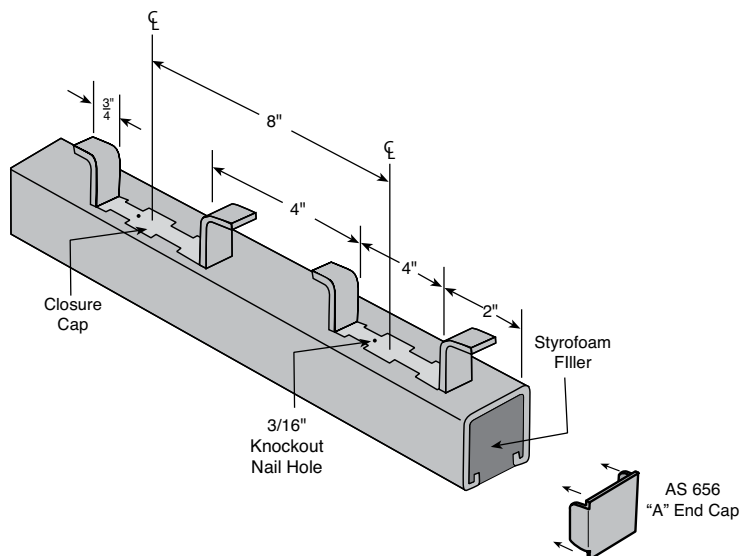
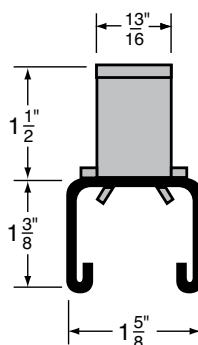
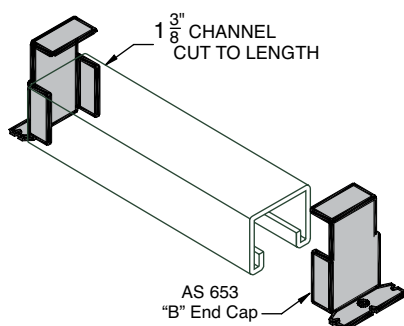
## LEGEND:

GR: Powder Coated Supr-Green EG: Electro-Galvanized PG: Pre-Galvanized AL: Aluminum HG: Hot Dipped Galvanized PL: Plain SS: Stainless Steel ZTC: Zinc Trivalent Chromium

AS 349

PG, PL

## CONTINUOUS CONCRETE INSERT



| Length in Inches | Wt./100 Pieces | Max. Allowable Load |
|------------------|----------------|---------------------|
| 3                | 87             | 500 Lbs.            |
| 4                | 103            | 800 Lbs.            |
| 6                | 134            | 1000 Lbs.           |
| 8                | 206            | 1200 Lbs.           |
| 12               | 188            | 1800 Lbs.           |

## FEATURES

- Loading data was calculated in a concrete mixture which was proportioned so that the compression strength of the concrete was 2,500 to 3,000 pounds per square inch and that the load is dependent on the surrounding concrete.
- Tests were performed with a safety factor of 3, and in accordance with the MFMA Specifications.
- Anvil-Strut concrete inserts are supplied with AS 656 end cap and either a styrofoam filler or plastic strip (AS 6151) installed in the insert channel to prevent any concrete seepage.
- Stocked in either plain and pre-galvanized, see technical data section for ASTM specifications.
- Inserts should be secured to forms at 16" intervals.
- When ordering, please indicate finish and either foam filler, or plastic closure.

With Closure Strip and End Cap Installed (CS/EC) or with Foam and End Cap Installed (F/EC).

| Part No.        | End Cap | Wt./100 Feet |
|-----------------|---------|--------------|
| AS 349 CS/EC 10 | A       | 180          |
| AS 349 CS/EC 20 | A       | 180          |
| AS 349 F/EC 10  | A       | 188          |
| AS 349 F/EC 20  | A       | 188          |

Without Closure Strip and End Cap.

| Part No.      | Wt./100 Feet |
|---------------|--------------|
| AS 349 W/O 10 | 178          |
| AS 349 W/O 20 | 178          |

1 1/8" x 1 1/8" x 12 Gauge Channel  
Stocked in 10' or 20' lengths, Other lengths available  
Wt./100 Feet: See chart above.

## LEGEND:

GR: Powder Coated Supr-Green EG: Electro-Galvanized PG: Pre-Galvanized AL: Aluminum HG: Hot Dipped Galvanized PL: Plain SS: Stainless Steel ZTC: Zinc Trivalent Chromium

AS 449

PG, PL

## CONTINUOUS CONCRETE INSERT

## FEATURES

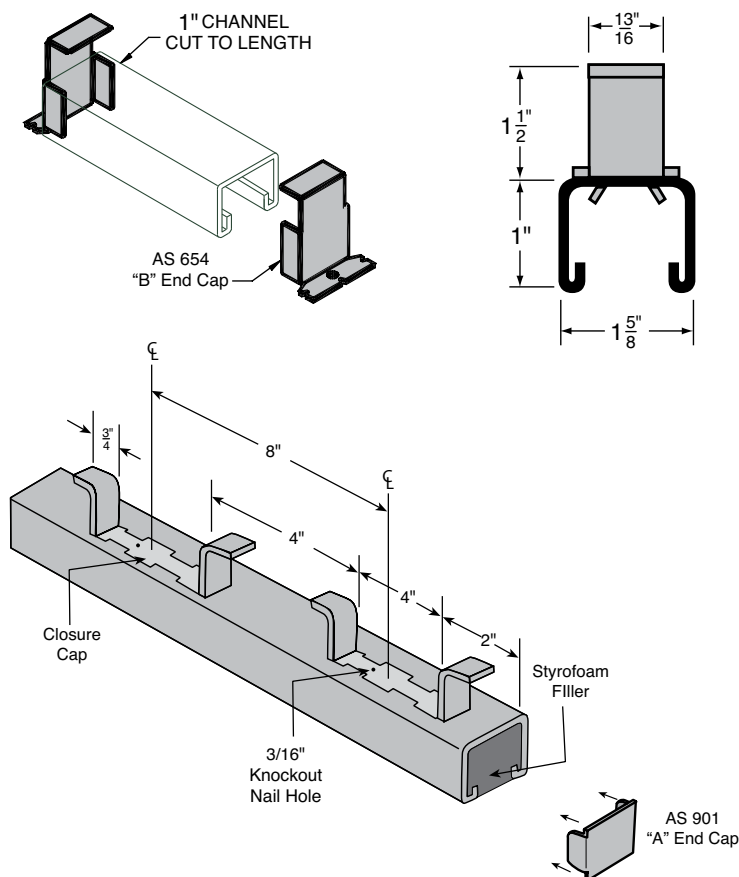
- Loading data was calculated in a concrete mixture which was proportioned so that the compression strength of the concrete was 2,500 to 3,000 pounds per square inch and that the load is dependent on the surrounding concrete.
- Tests were performed with a safety factor of 3, and in accordance with the MFMA Specifications.
- Anvil-Strut concrete inserts are supplied with AS 901 end cap and either a styrofoam filler or plastic strip (AS 6151) installed in the insert channel to prevent any concrete seepage.
- Stocked in either plain and pre-galvanized, see technical data section for ASTM specifications.
- Inserts should be secured to forms at 16" intervals.
- When ordering, please indicate finish and either foam filler, or plastic closure.

**With Closure Strip and End Cap Installed (CS/EC) or with Foam and End Cap Installed (F/EC).**

| Part No.        | End Cap | Wt./100 Feet |
|-----------------|---------|--------------|
| AS 449 CS/EC 10 | A       | 152          |
| AS 449 CS/EC 20 | A       | 152          |
| AS 449 F/EC 10  | A       | 162          |
| AS 449 F/EC 20  | A       | 165          |

**Without Closure Strip and End Cap.**

| Part No.      | Wt./100 Feet |
|---------------|--------------|
| AS 449 W/O 10 | 151          |
| AS 449 W/O 20 | 151          |



| Length in Inches | Wt./100 Pieces | Max. Allowable Load |
|------------------|----------------|---------------------|
| 3                | 41             | 450 Lbs.            |
| 4                | 54             | 600 Lbs.            |
| 6                | 81             | 850 Lbs.            |
| 8                | 108            | 1100 Lbs.           |
| 12               | 162            | 1700 Lbs.           |

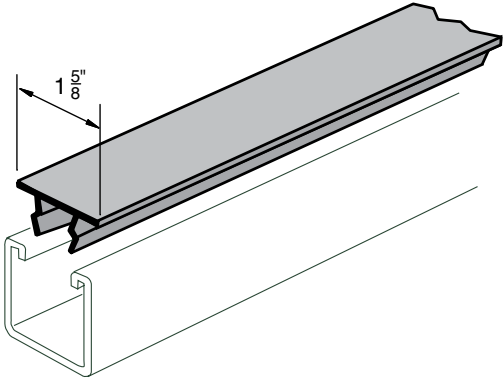
1" x 1 1/8" x 12 Gauge Channel  
Stocked in 10' or 20' lengths, Other lengths available

Wt./100 Feet: See chart above.



**LEGEND:**

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium

|                                                                                                                                                                                                                                                                                     |    |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|
| AS 6151                                                                                                                                                                                                                                                                             | PL |
| <b>PLASTIC CLOSURE STRIP</b>                                                                                                                                                                                                                                                        |    |
|  <p><b>MATERIAL:</b> High impact polystyrene plastic.<br/>Stocked in black, white and green 10' lengths.<br/>Use with all 1 5/8" channel and inserts.</p> <p>Std Pkg 100 - Wt/100 pcs: 31 Lbs.</p> |    |

|                                                                                     |
|-------------------------------------------------------------------------------------|
| <b>Fig. 152</b>                                                                     |
| <b>SCREW CONCRETE INSERT</b>                                                        |
| Specify Rod Size. Size Range 3/8" thru 7/8".                                        |
|  |
| For additional information, please refer to the Anvil Pipe Hanger Catalog.          |

|                                                                                      |
|--------------------------------------------------------------------------------------|
| <b>Fig. 285</b>                                                                      |
| <b>LIGHT WEIGHT CONCRETE INSERT</b>                                                  |
|  |
| For additional information, please refer to the Anvil Pipe Hanger Catalog.           |

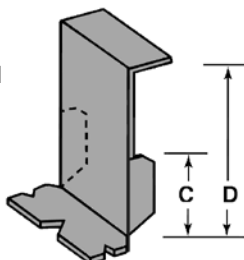
## LEGEND:

**GR:** Powder Coated Supr-Green **EG:** Electro-Galvanized **PG:** Pre-Galvanized **AL:** Aluminum **HG:** Hot Dipped Galvanized **PL:** Plain **SS:** Stainless Steel **ZTC:** Zinc Trivalent Chromium

AS 652, AS 653, AS 654 PG

### TYPE "B" END CAP

The Type "B" End Cap is furnished on all Inserts up to 12" in length and provides nail lugs at each end of the Insert. End Caps may be ordered separately.



| Catalog No. | Use With Anvil-Strut | C    | D      | Wt./100 Pcs. |
|-------------|----------------------|------|--------|--------------|
| AS 652      | AS 200               | 1.42 | 3 1/8" | 22           |
| AS 653      | AS 300               | 1.17 | 2 7/8" | 20           |
| AS 654      | AS 400               | 0.79 | 2 1/2" | 18           |

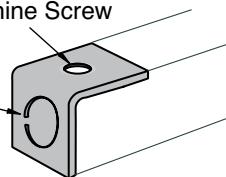
Std Pkg 50 - Wt/100 pcs: See chart above.

AS 2511 EG

### END CAP WITH KNOCK OUT (CONDUIT END CAP)

Hole for 1/4-20 x 5/8" for Flat Head Machine Screw

Knock Out



| Catalog No. | Conduit Size | Use With Anvil-Strut | Wt./100 Pcs. |
|-------------|--------------|----------------------|--------------|
| AS 2511 1   | 1/2"         | AS 150               | 27           |
| AS 2511 2   | 1/2" or 3/4" | AS 200 & AS 210      | 24           |
| AS 2511 3   | 1/2"         | AS 300               | 21           |

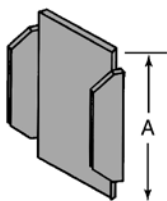
When ordering AS 2511 2, please specify conduit size.

Std Pkg 50 - Wt/100 pcs: See chart above.

AS 655, AS 656, AS 901, AS 902, AS 930, AS 2580 PG

### TYPE "A" END CAP

The Type "A" End Cap is supplied on all Concrete Inserts longer than 12". End Caps may be ordered separately.

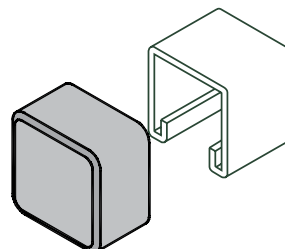


| Catalog No. | Use With Anvil-Strut | A        | Std. Pkg. | Wt./100 Pcs. |
|-------------|----------------------|----------|-----------|--------------|
| AS 902      | AS 100               | 3 7/32"  | 100       | 19           |
| AS 2580     | AS 150               | 2 3/8"   | 100       | 16           |
| AS 655      | AS 200               | 1 5/8"   | 100       | 7            |
| AS 656      | AS 300               | 1 3/8"   | 100       | 6            |
| AS 901      | AS 400               | 1"       | 100       | 4            |
| AS 930      | AS 500               | 1 13/16" | 200       | 4            |

Std Pkg & Wt/100 pcs: See chart above.

AS 6153 Red, White

### PLASTIC RED & WHITE SAFETY END CAP



| Size | Std. Pkg. | Wt./100 Pcs. | Use With Channel |
|------|-----------|--------------|------------------|
| 1    | 100       | 5.0          | AS 100           |
| 2    | 100       | 2.8          | AS 200 & AS 210  |
| 3    | 100       | 2.5          | AS 300           |
| 5    | 100       | 2.0          | AS 500           |

Std Pkg & Wt/100 pcs: See chart above.

# H-BLOCK ROOFTOP SUPPORT SYSTEMS



## SPECIFICATIONS

### MATERIAL

H-Strut channels are produced from prime structural steel covered by the following specifications.

|                                                          |                |
|----------------------------------------------------------|----------------|
| Pre-Galvanized Steel .....                               | ASTM A-653     |
| Plain Steel .....                                        | ASTM A-1011-SS |
| Aluminum (Type 6063T6) .....                             | ASTM B-221     |
| Stainless Steel (Type 304 & 316) .....                   | ASTM A-240     |
| Other materials and specifications available on request. |                |

### TESTING

Rooftop Supports Have Been Tested By An Accredited Independent Laboratory To The Following:

- ASTM D575 Method B – Modified – Compression/Deflection
- ASTM D1171 Modified – Ozone Resistance
- Freeze/Thaw Environmental Simulation

### FINISHES

All H-Strut channels are stocked in pre-galvanized and powder coated Supr-Green. Some sizes are stocked in zinc trivalent chromium, PVC or hot dipped galvanized.

|                                                      |               |
|------------------------------------------------------|---------------|
| Hot Dipped Galvanized .....                          | ASTM A-123    |
| Zinc Trivalent Chromium .....                        | ASTM B-633-85 |
| Powder Coated Supr-Green. ....                       | ASTM B-117    |
| PVC Coating 40 ML Thickness - Available Upon Request |               |



***Note: Consult roofing manufacturer or engineer for roof loading compatibility.***

## H-BLOCK SPECIAL FEATURES

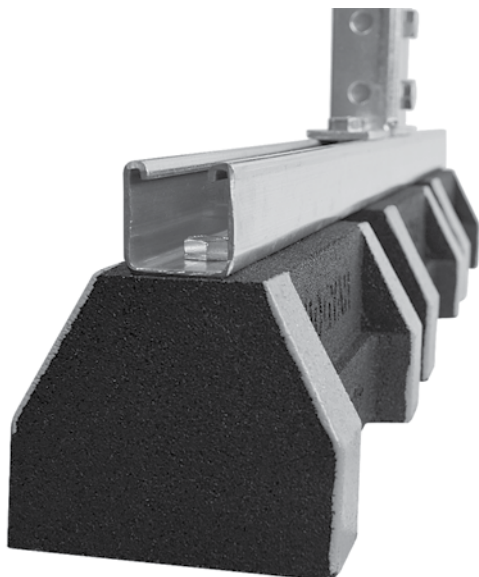
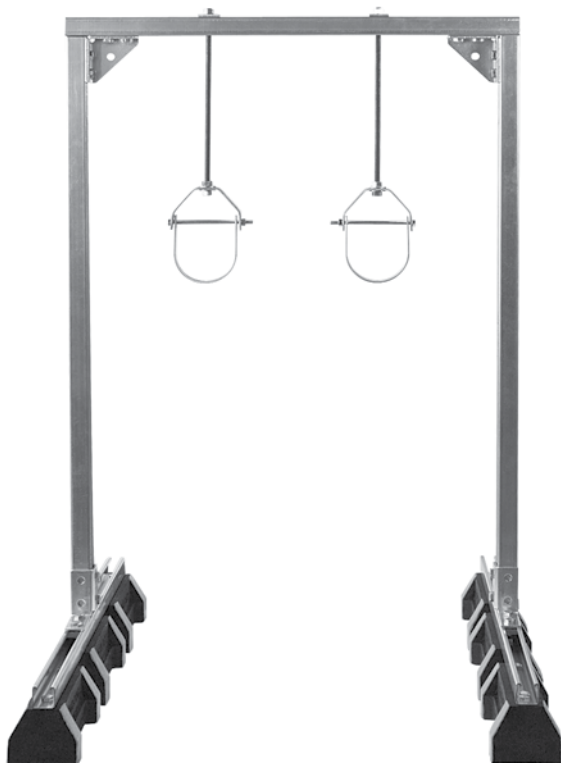
The channel for H-Block support assemblies includes a variety of options. The strut can be made in special lengths, finishes, and alloys including Aluminum, Stainless Steel both 304 & 316, PVC coated, Powder coated, Zinc Trivalent Chromium, Pre-Galvanized and Hot Dipped Galvanized.



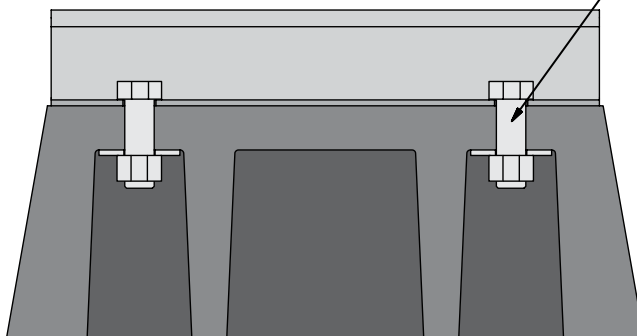
- 100% Recycled Rubber
- LEED Certifiable
- Meets the Buy America Act
- American Reinvestment Recovery Act (A.R.R.A.)
- Independent Laboratory Tested
- Resistance to Freeze and Thaw
- No Deteriorations
- All 4 Corners coated with high visibility safety orange for maximum visibility
- Dampens Vibrations
- Compatible with most rooftop materials

Our product line has systems to support all of the following applications:

- Solar Racking
- Pipe & Conduit supports
- Duct supports
- HVAC supports
- Cable Tray Systems
- Air Conditioning supports
- Roof Walkway supports



All H-Block products made with 1-5/8" and higher channel is equipped with (2) 1/2" x 1-1/2" hex head cap screws, washers and nuts.



**LEGEND:**

**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.



H-Block

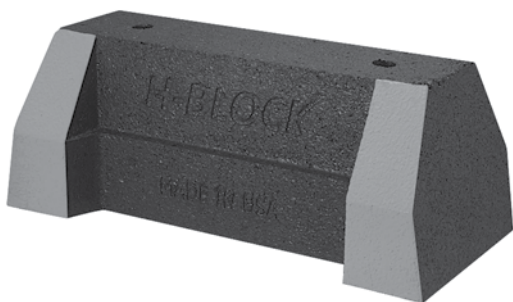
H-Block Mini

Anvil  
Shields

Technical  
Data

Index

Pipe Hanger  
Pictorial

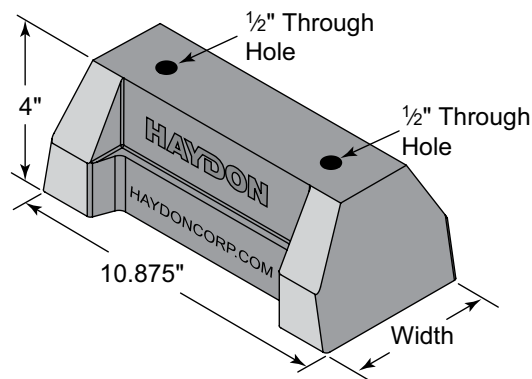
**HBS-Standard-Base Only**
**HBS-BASE RUBBER SUPPORT – BASE ONLY**


**Specifications – H-Block Support**  
Material - 100% recycled rubber, UV resistant

The HBS-Base Series is UV resistant and suitable for installation on most types of roofing material or other flat surfaces. Can be used as a curb (sleeper) replacement. Screw fasteners can be used to attach one or two hole pipe straps or a piece of strut (not included).



Base Area  
Shown = 33.1 Sq. In.  
For use in bearing calculations


**HBS-BASE RUBBER SUPPORT – BASE ONLY**

| Model No.              | Height        | Width         | Base Length        | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|------------------------|---------------|---------------|--------------------|--------------|-------------------------------|
| HBS-Standard-Base Only | 4"<br>(101mm) | 5"<br>(127mm) | 10 7/8"<br>(276mm) | 4.80 lbs.    | 1,500*                        |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity.

\* Safety Factor of 3, load based on actual lab testing.

## LEGEND:

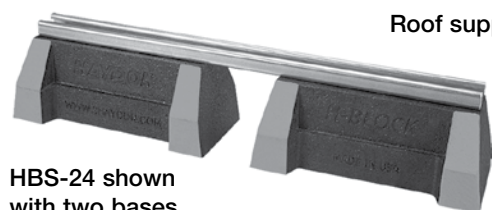
PG: Pre-Galvanized HG: Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.



HBS Series

PG, HG

### HBS-SUPPORT WITH STEEL CHANNEL



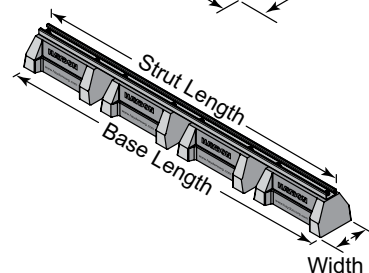
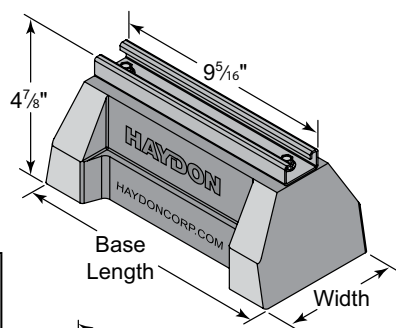
HBS-24 shown with two bases

Like all of the H-Block supports, the HBS Series is perfect for supporting natural gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

The HBS Series provides a longer mounting surface with strut lengths up to 46<sup>3</sup>/<sub>8</sub>" Standard strut mount pipe clamps are used to secure the pipes. (See pages 57 - 68).

The HBS Series is suitable for installation on most types of roofing material or other flat surfaces.

Roof supports come pre-assembled.

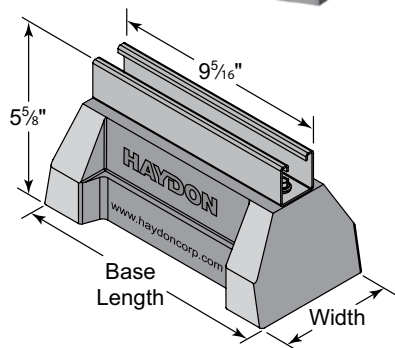


### HBS-SUPPORT WITH 1<sup>3</sup>/<sub>16</sub>" H-164 CHANNEL

| Model No.       | Height                                     | Width         | No. of Bases Required | Strut Length        | Base Length                                 | Weight (Lbs) | Uniform Load Capacity (Lbs)* |
|-----------------|--------------------------------------------|---------------|-----------------------|---------------------|---------------------------------------------|--------------|------------------------------|
| HBS-10-H-164-PG | 4 <sup>7</sup> / <sub>8</sub> "<br>(124mm) | 5"<br>(127mm) | 1                     | 9.312"<br>(237mm)   | 10 <sup>7</sup> / <sub>8</sub> "<br>(276mm) | 5.62         | 1,500*                       |
| HBS-24-H-164-PG |                                            |               | 2                     | 22.375"<br>(568mm)  | 24"<br>(610mm)                              | 11.56        | 3,000*                       |
| HBS-36-H-164-PG |                                            |               | 3                     | 34.375"<br>(873mm)  | 36"<br>(914mm)                              | 17.41        | 4,500*                       |
| HBS-48-H-164-PG |                                            |               | 4                     | 46.375"<br>(1178mm) | 48"<br>(1219mm)                             | 23.25        | 6,000*                       |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

Specifications – HBS Series  
H-Block Support with:  
1<sup>3</sup>/<sub>16</sub>" H-164 Channel, or 1<sup>5</sup>/<sub>8</sub>" H-132 Channel  
Material - 100% recycled rubber, UV resistant



### HBS-SUPPORT WITH 1<sup>5</sup>/<sub>8</sub>" H-132 CHANNEL

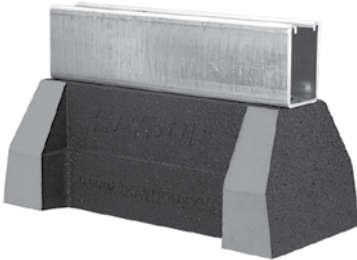
| Model No.       | Height                                     | Width         | No. of Bases Required | Strut Length        | Base Length                                 | Weight (Lbs) | Uniform Load Capacity (Lbs)* |
|-----------------|--------------------------------------------|---------------|-----------------------|---------------------|---------------------------------------------|--------------|------------------------------|
| HBS-10-H-132-PG | 5 <sup>5</sup> / <sub>8</sub> "<br>(143mm) | 5"<br>(127mm) | 1                     | 9.312"<br>(237mm)   | 10 <sup>7</sup> / <sub>8</sub> "<br>(276mm) | 6.26         | 1,500*                       |
| HBS-24-H-132-PG |                                            |               | 2                     | 22.375"<br>(568mm)  | 24"<br>(610mm)                              | 13.10        | 3,000*                       |
| HBS-36-H-132-PG |                                            |               | 3                     | 34.375"<br>(873mm)  | 36"<br>(914mm)                              | 19.77        | 4,500*                       |
| HBS-48-H-132-PG |                                            |               | 4                     | 46.375"<br>(1178mm) | 48"<br>(1219mm)                             | 26.44        | 6,000*                       |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity



**LEGEND:**

**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.

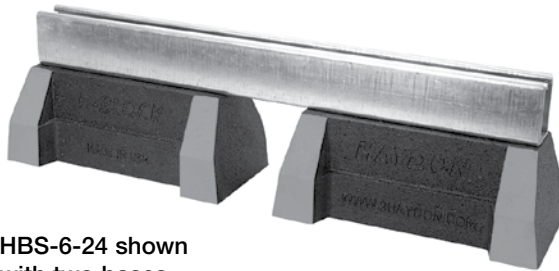

**HBS-6 Series**
**PG, HG**
**HBS-SUPPORT WITH 2<sup>7</sup>/<sub>16</sub>" H-122 STEEL CHANNEL**


Like all of the H-Block supports, the HBS-6 Series is perfect for supporting natural gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

The HBS-6 Series provides a longer mounting surface with strut lengths up to 46<sup>3</sup>/<sub>8</sub>".

The HBS-6 Series is UV resistant and suitable for installation on most types of roofing material or other flat surfaces.

Roof supports come pre-assembled

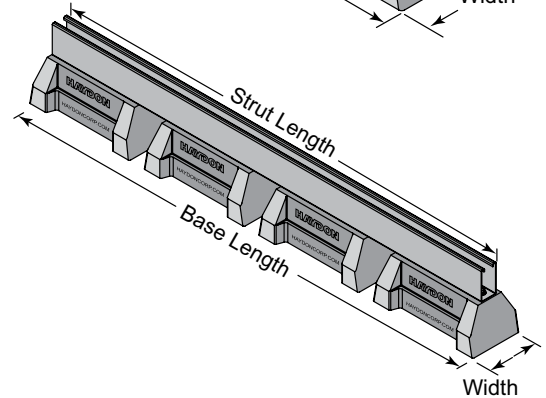
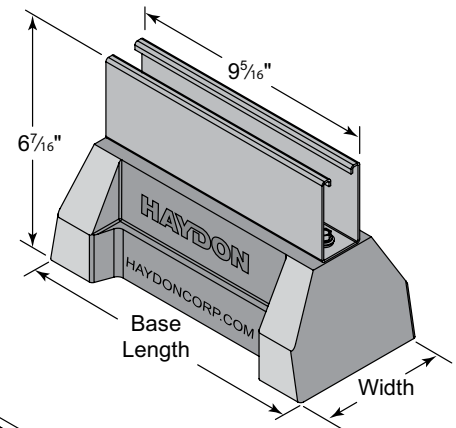


**HBS-6-24 shown with two bases**

**Specifications – HBS-6 Series**

H-Block Support with: 2<sup>7</sup>/<sub>16</sub>" H-122 Channel

Material - 100% recycled rubber, UV resistant


**HBS SUPPORT WITH 2<sup>7</sup>/<sub>16</sub>" H-122 PRE-GALV. STEEL CHANNEL**

| Model No.         | Height                                      | Width         | No. of Bases Required | Strut Length        | Base Length                                 | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|-------------------|---------------------------------------------|---------------|-----------------------|---------------------|---------------------------------------------|--------------|-------------------------------|
| HBS-6-10-H-122-PG | 6 <sup>7</sup> / <sub>16</sub> "<br>(165mm) | 5"<br>(127mm) | 1                     | 9.312"<br>(237mm)   | 10 <sup>7</sup> / <sub>8</sub> "<br>(276mm) | 6.69         | 1,500*                        |
| HBS-6-24-H-122-PG |                                             |               | 2                     | 22.375"<br>(568mm)  | 24"<br>(610mm)                              | 14.13        | 3,000*                        |
| HBS-6-36-H-122-PG |                                             |               | 3                     | 34.375"<br>(873mm)  | 36"<br>(914mm)                              | 21.35        | 4,500*                        |
| HBS-6-48-H-122-PG |                                             |               | 4                     | 46.375"<br>(1178mm) | 48"<br>(1219mm)                             | 28.58        | 6,000*                        |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

## LEGEND:

**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.



### HBS-CB Bridge Series

PG, HG

## HBS-CB-BRIDGE SERIES - BRIDGE LENGTH SUPPORTS WITH 2 HBS BASES AND CHANNEL

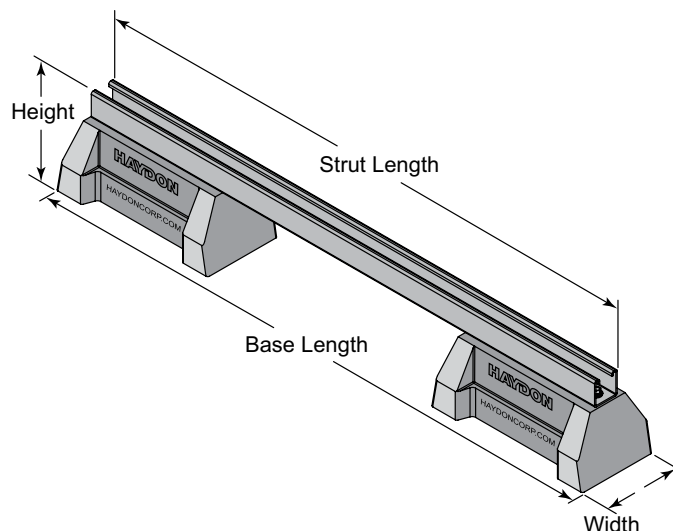


Like all of the H-Block supports, the HBS-CB-Bridge Series is perfect for supporting natural gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

The HBS-CB Series provides a longer mounting surface with strut lengths up to 60".

The HBS-CB-Bridge Series is UV resistant and suitable for installation on most types of roofing material or other flat surfaces.

Roof supports come pre-assembled



### Specifications – HBS-CB Series

Base - Bridge style support with two H-Block Bases & 1½" Galv. H-132

Steel Channel

Material - 100% recycled rubber, UV resistant

## HBS-CB-BRIDGE SERIES - BRIDGE LENGTH SUPPORTS WITH 2 HBS BASES AND CHANNEL

| Model No.            | Height         | Width         | Strut Length    | Base Length      | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|----------------------|----------------|---------------|-----------------|------------------|--------------|-------------------------------|
| HBS-CB10-28-H-132-PG | 5½"<br>(143mm) | 5"<br>(127mm) | 28"<br>(711mm)  | 29¾"<br>(756mm)  | 13.96        | 1,480*                        |
| HBS-CB10-36-H-132-PG |                |               | 36"<br>(914mm)  | 37¾"<br>(959mm)  | 15.18        | 1,150*                        |
| HBS-CB10-42-H-132-PG |                |               | 42"<br>(1067mm) | 43¾"<br>(1111mm) | 16.09        | 985*                          |
| HBS-CB10-50-H-132-PG |                |               | 50"<br>(1270mm) | 51¾"<br>(1314mm) | 17.31        | 825*                          |
| HBS-CB10-60-H-132-PG |                |               | 60"<br>(1524mm) | 61¾"<br>(1568mm) | 18.84        | 685*                          |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity



**LEGEND:**

**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.



H-Block

H-Block Mini

Anvil  
Shields

Technical  
Data

Index

Pipe Hanger  
Pictorial

**HBS-CE Extension Series**
**PG, HG**
**HBS-CE-EXTENSION SERIES SUPPORT WITH THREADED ROD EXTENSION AND CHANNEL**

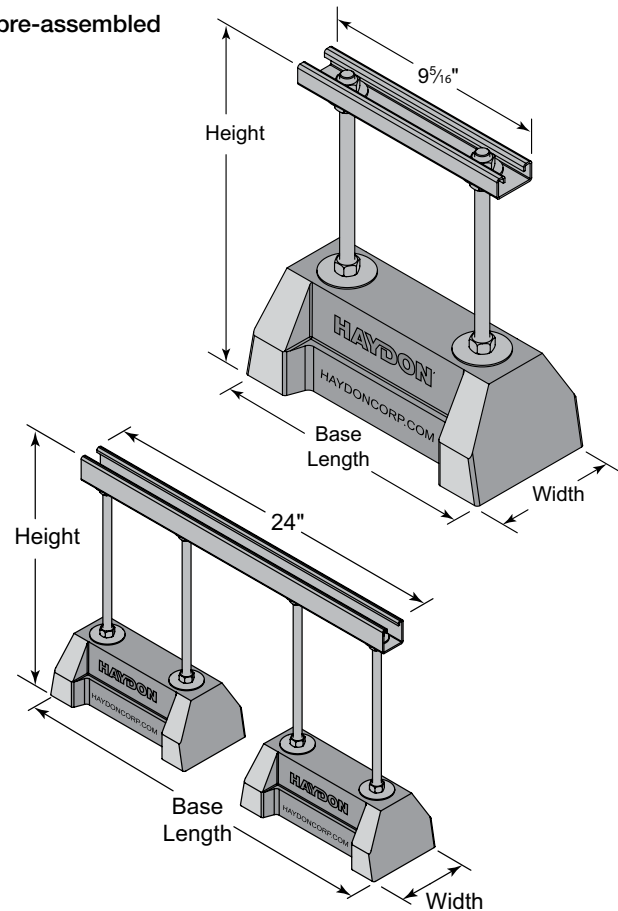

HBS-CE-Extension Series is perfect for supporting natural gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications.

The HBS-CE-Extension is UV resistant and suitable for installation on most types of roofing material or other flat surfaces.

Roof supports come pre-assembled


**Specifications – HBS-CE**

Two H-Block Bases and Threaded Rod Riser with:  
 $\frac{13}{16}$ " H-164 Channel, or  $1\frac{1}{8}$ " H-132 Channel  
 Material - 100% recycled rubber, UV resistant


**HBS-CE-EXTENSION SERIES SUPPORT WITH THREADED ROD EXTENSION AND CHANNEL**

| Model No.            | Height         | Width         | Strut Length       | Strut Size                 | Base Length                  | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|----------------------|----------------|---------------|--------------------|----------------------------|------------------------------|--------------|-------------------------------|
| HBS-CE10-8-H-164-PG  | 8"<br>(203mm)  | 5"<br>(127mm) | 9.312"<br>(237mm)  | $\frac{13}{16}$ "<br>H-164 | $10\frac{7}{8}$ "<br>(276mm) | 6.89         | 1,000*                        |
| HBS-CE10-12-H-164-PG | 12"<br>(305mm) |               |                    |                            |                              | 7.34         | 1,000*                        |
| HBS-CE24-16-H-132-PG | 16"<br>(406mm) |               | 24.000"<br>(610mm) | $1\frac{1}{8}$ "<br>H-132  | 26"<br>(660mm)               | 15.85        | 1,700*                        |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

## LEGEND:

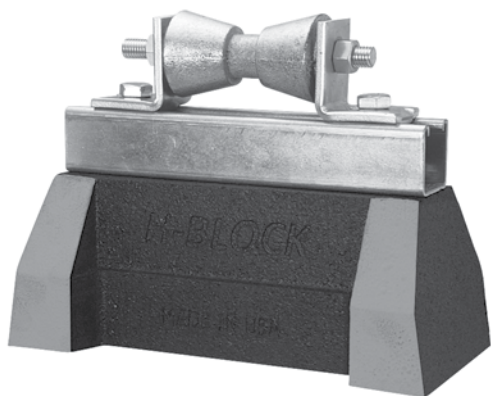
**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.



### HBS-Roller Series

PG, HG

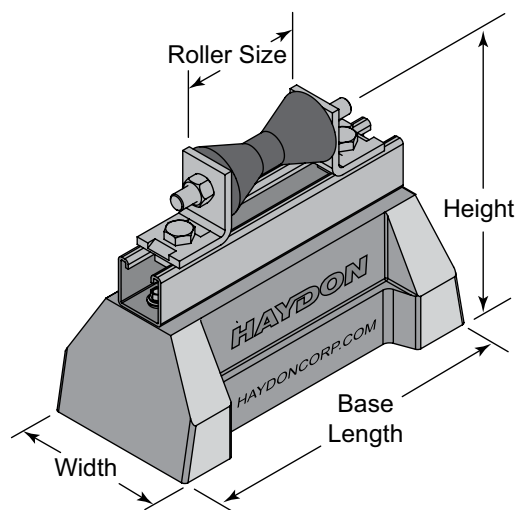
#### HBS BASE WITH 1 5/8" H-132 PRE-GALV. STEEL CHANNEL AND ROLLERS



Specifications – HBS-Roller Series  
H-Block Support with: 1 5/8" H-132 Channel  
Material - 100% recycled rubber, UV resistant  
Pipe O.D. - 1" thru 10"

The HBS-Roller Series is designed for superior support of natural gas and refrigeration pipes. The roller allows for longitudinal movements of the pipe. This support is suitable for most types of roofing material or other flat surfaces.

Roof supports come pre-assembled



#### HBS BASE WITH 1 5/8" H-132 PRE-GALV. STEEL CHANNEL AND ROLLERS

| Model No.                | Pipe Size (O.D.)             | Overall Height      | Height to Roller Center | Strut Length      | Width         | Base Length        | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|--------------------------|------------------------------|---------------------|-------------------------|-------------------|---------------|--------------------|--------------|--------------|-------------------------------|
| HBS-R10-1-2-H-132-PG     | 1" to 2"<br>(25 to 51mm)     | 8"                  | 7"<br>(178mm)           | 9.312"<br>(237mm) | 5"<br>(127mm) | 10 7/8"<br>(276mm) | 1            | 9.13         | 1,500*                        |
| HBS-R10-2-3 1/2-H-132-PG | 2" to 3 1/2"<br>(51 to 89mm) | (203mm)             |                         |                   |               |                    | 1            | 8.94         | 1,500*                        |
| HBS-R10-4-6-H-132-PG     | 4" to 6"<br>(102 to 152mm)   | 8 1/8"<br>(206mm)   |                         |                   |               |                    | 1            | 9.37         | 1,500*                        |
| HBS-R24-8-10-H-132-PG    | 8" to 10"<br>(203 to 1254mm) | 10 1/16"<br>(262mm) | 8 5/8"<br>(219mm)       |                   |               | 24"<br>(610mm)     | 2            | 21.26        | 3,000*                        |

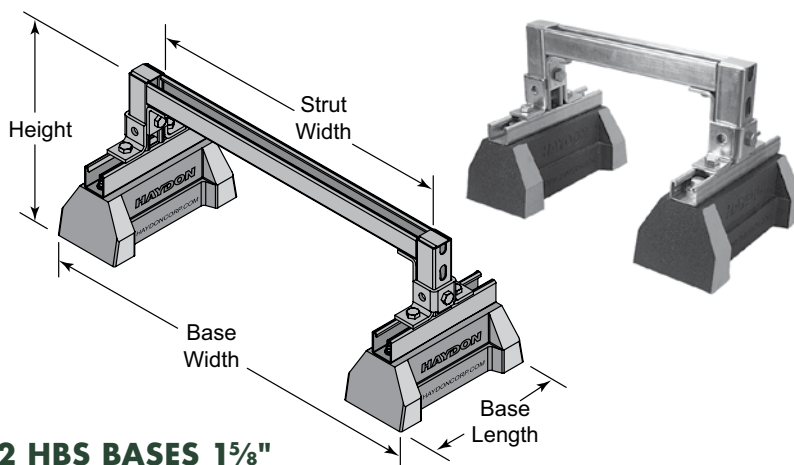
\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

**LEGEND:**

**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.


**HBS-CES Series**
**PG, HG**
**RAISED BRIDGE LENGTH WITH 2 HBS BASES PRE-GALV. STEEL CHANNEL**

The HBS-CES-Medium Series can support natural gas and refrigeration piping systems, cable tray, electrical conduit, multiple lines, HVAC equipment and many other applications. They are designed for rooftop applications requiring a heavier load bearing capacity, and are suitable for most types of roofing material or other flat surfaces.

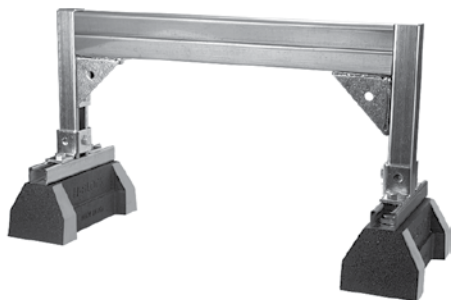

**RAISED BRIDGE LENGTH WITH 2 HBS BASES 1 5/8" H-132 PRE-GALV. STEEL CHANNEL**

| Model No.              | Height  | Base Width | Strut Width | Base Length | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|------------------------|---------|------------|-------------|-------------|--------------|-------------------------------|
| HBS-CES-10-12-H-132-PG | 10"     | 18 5/8"    | 12"         | 10 7/8"     | 19.4         | 3,045*                        |
| HBS-CES-10-24-H-132-PG | (254mm) | 30 5/8"    | 24"         | (276mm)     | 21.9         | 1,520*                        |
|                        |         | (763mm)    | (610mm)     |             |              |                               |

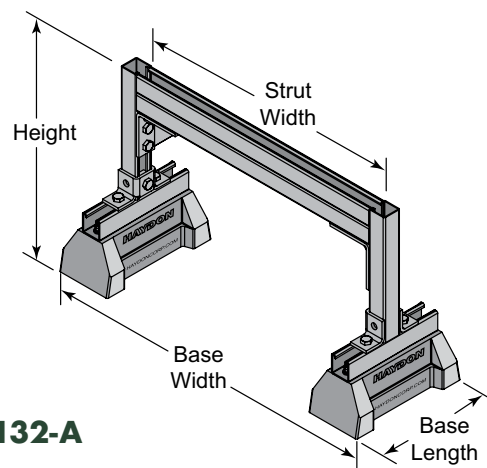
**Specifications – HBS-CES Series**

Two H-Block bases with  
1 5/8" H-132 Strut, or  
3/4" H-132-A back-to-back Strut  
Material - 100% recycled rubber, UV resistant

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity



The HBS-CES-Heavy Series is designed for rooftop applications requiring a heavier load bearing capacity. It is suitable for most types of roofing material or other flat surfaces.


**RAISED BRIDGE LENGTH WITH 2 HBS BASES 3 1/4" H-132-A BACK-TO-BACK PRE-GALV. STEEL CHANNEL**

| Model No.                | Height  | Base Width | Strut Width | Base Length | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|--------------------------|---------|------------|-------------|-------------|--------------|-------------------------------|
| HBS-CES-16-24-H-132-A-PG | 16"     | 30 5/8"    | 24"         | 10 7/8"     | 30.8         | 3,000*                        |
| HBS-CES-16-36-H-132-A-PG | (406mm) | 42 5/8"    | 36"         | (276mm)     | 34.3         | 2,840*                        |
|                          |         | (1067mm)   | (914mm)     |             |              |                               |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

## LEGEND:

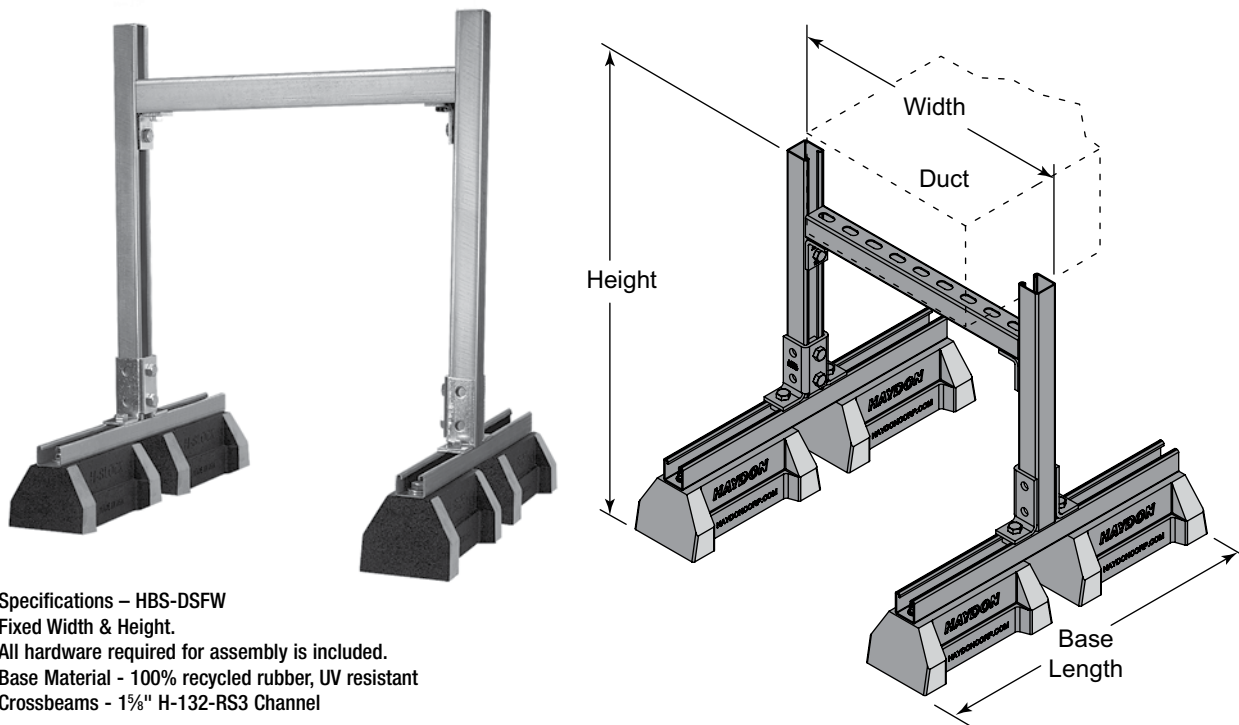
**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.



### HBS-DSFW Fixed Width Duct Support PG, HG

#### HBS-DS DUCT SUPPORT SERIES WITH FIXED WIDTH AND ADJUSTABLE HEIGHT

The HBS-DSFW Series is designed specifically for supporting duct work.



#### Specifications – HBS-DSFW

Fixed Width & Height.

All hardware required for assembly is included.

Base Material - 100% recycled rubber, UV resistant

Crossbeams - 1½" H-132-RS3 Channel

#### HBS-DS DUCT SUPPORT SERIES WITH FIXED WIDTH AND ADJUSTABLE HEIGHT

| Model No.                | Height          | Width        | Base Length    | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|--------------------------|-----------------|--------------|----------------|--------------|--------------|-------------------------------|
| HBS-DS2FW-23-18-H-132-PG | 23"<br>(584mm)  | 18" (457mm)  | 24"<br>(610mm) | 4            | 39.80        | 2,030*                        |
| HBS-DS2FW-23-24-H-132-PG |                 | 24" (610mm)  |                |              | 40.67        | 1,520*                        |
| HBS-DS2FW-23-36-H-132-PG |                 | 36" (914mm)  |                |              | 42.33        | 1,010*                        |
| HBS-DS2FW-23-48-H-132-PG |                 | 48" (1219mm) |                |              | 43.99        | 755*                          |
| HBS-DS2FW-29-18-H-132-PG | 29"<br>(737mm)  | 18" (457mm)  | 24"<br>(610mm) | 4            | 41.58        | 2,030*                        |
| HBS-DS2FW-29-24-H-132-PG |                 | 24" (610mm)  |                |              | 42.41        | 1,520*                        |
| HBS-DS2FW-29-36-H-132-PG |                 | 36" (914mm)  |                |              | 44.08        | 1,010*                        |
| HBS-DS2FW-29-48-H-132-PG |                 | 48" (1219mm) |                |              | 45.74        | 755*                          |
| HBS-DS2FW-41-18-H-132-PG | 41"<br>(1041mm) | 18" (457mm)  | 24"<br>(610mm) | 4            | 45.07        | 2,030*                        |
| HBS-DS2FW-41-24-H-132-PG |                 | 24" (610mm)  |                |              | 45.90        | 1,520*                        |
| HBS-DS2FW-41-36-H-132-PG |                 | 36" (914mm)  |                |              | 47.56        | 1,010*                        |
| HBS-DS2FW-41-48-H-132-PG |                 | 48" (1219mm) |                |              | 49.22        | 755*                          |
| HBS-DS3FW-53-18-H-132-PG | 53"<br>(1346mm) | 18" (457mm)  | 36"<br>(914mm) | 6            | 62.23        | 2,030*                        |
| HBS-DS3FW-53-24-H-132-PG |                 | 24" (610mm)  |                |              | 63.06        | 1,520*                        |
| HBS-DS3FW-53-36-H-132-PG |                 | 36" (914mm)  |                |              | 64.72        | 1,010*                        |
| HBS-DS3FW-53-48-H-132-PG |                 | 48" (1219mm) |                |              | 66.38        | 755*                          |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

**LEGEND:**

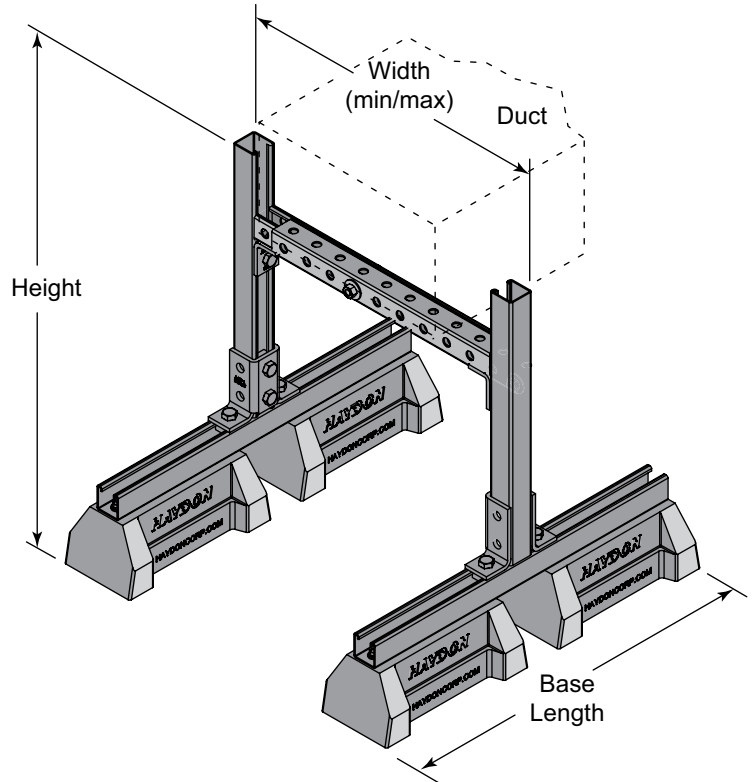
**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.


**HBS-DSAW Adjustable Duct Support**

PG, HG

**HBS-DS-DUCT SUPPORT SERIES WITH ADJUSTABLE WIDTH AND HEIGHT**


The HBS-DSAW Series is designed specifically for supporting duct work. The telescopic cross beam provides easy size adjustments. A wide range of support widths are provided from 19¼" to 103⅝"


**Specifications – HBS-DSAW  
Adjustable Width & Height.**

All hardware required for assembly is included.

Base Material - 100% recycled rubber, UV resistant

Telescopic Crossbeams - 1⅝" H-132-RS3 Channel

**HBS-DS-DUCT SUPPORT SERIES WITH ADJUSTABLE WIDTH AND HEIGHT**

| Model No.                    | Width         |                | Height          | Base Length  | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|------------------------------|---------------|----------------|-----------------|--------------|--------------|--------------|-------------------------------|
|                              | Minimum       | Maximum        |                 |              |              |              |                               |
| HBS-DSAW-29-20-26-H-132-PG   | 19¼" (489mm)  | 26¾" (679mm)   | 28.813" (732mm) | 10⅞" (276mm) | 2            | 29.61        | 1,080*                        |
| HBS-DSAW-29-25-39-H-132-PG   | 24⅞" (632mm)  | 39⅞" (1013mm)  |                 | 24" (610mm)  | 4            | 31.19        | 810*                          |
| HBS-DS2AW-29-38-62-H-132-PG  | 38" (965mm)   | 62⅞" (1575mm)  |                 | 36" (914mm)  | 6            | 46.47        | 510*                          |
| HBS-DS3AW-29-63-103-H-132-PG | 62⅞" (1584mm) | 103⅝" (2617mm) | 36" (914mm)     | 10⅞" (276mm) | 2            | 66.90        | 305*                          |
| HBS-DSAW-36-20-26-H-132-PG   | 19¼" (489mm)  | 26¾" (679mm)   |                 | 10⅞" (276mm) | 2            | 30.61        | 1,080*                        |
| HBS-DSAW-36-25-39-H-132-PG   | 24⅞" (632mm)  | 39⅞" (1013mm)  |                 | 24" (610mm)  | 4            | 32.19        | 810*                          |
| HBS-DS2AW-36-38-62-H-132-PG  | 38" (965mm)   | 62⅞" (1575mm)  |                 | 36" (914mm)  | 6            | 47.47        | 510*                          |
| HBS-DS3AW-36-63-103-H-132-PG | 62⅞" (1584mm) | 103⅝" (2617mm) |                 |              |              | 67.90        | 305*                          |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

## LEGEND:

PG: Pre-Galvanized HG: Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.



### HBS-PH 36" Light Duty Pipe Hanger Support

PG, HG

#### HBS-PH 36" LIGHT DUTY PIPE HANGER SUPPORT SERIES WITH H-132 PG TOP SUPPORT

The HBS-PH Series is designed specifically for supporting piping.



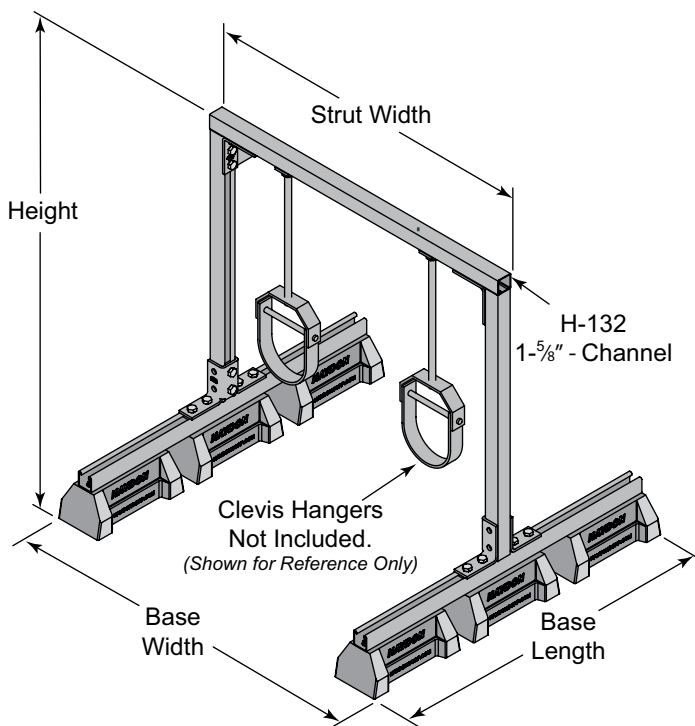
#### Specifications

Fixed Width & Height.

All hardware required for assembly is included.

Base Material - 100% recycled rubber, UV resistant

Crossbeams - 1 5/8" H-132 Channel



### HBS-PH 36" LIGHT DUTY PIPE HANGER SUPPORT SERIES WITH H-132 PG TOP SUPPORT

| Model No.             | Height         | Strut Width  | Base Width       | Base Length    | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|-----------------------|----------------|--------------|------------------|----------------|--------------|--------------|-------------------------------|
| HBS-PH-36-36-H-132-PG | 36"<br>(914mm) | 36" (914mm)  | 39 3/8" (1000mm) | 36"<br>(914mm) | 6            | 62           | 1,145*                        |
| HBS-PH-36-48-H-132-PG |                | 48" (1219mm) | 51 1/8" (1305mm) |                |              | 64           | 855*                          |
| HBS-PH-36-60-H-132-PG |                | 60" (1524mm) | 63 3/8" (1610mm) |                |              | 66           | 680*                          |
| HBS-PH-36-72-H-132-PG |                | 72" (1829mm) | 75 3/8" (1915mm) |                |              | 68           | 565*                          |

\* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For pipe hangers located 1/3 from each end, multiply uniform load by .75. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of 1/2" channel nuts tightened to 50 ft-lbs.



**LEGEND:**

**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.

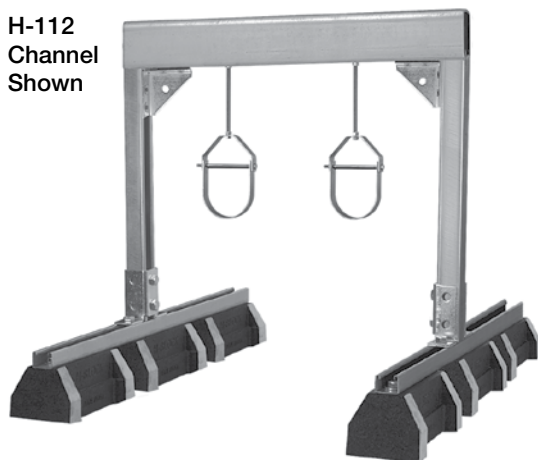

**HBS-PH 36" Medium Duty Pipe Hanger Support**

PG, HG

**HBS-PH 36" MEDIUM DUTY PIPE HANGER SUPPORT SERIES WITH TOP SUPPORT**

The HBS-PH Series is designed specifically for supporting piping.

**H-112  
Channel  
Shown**

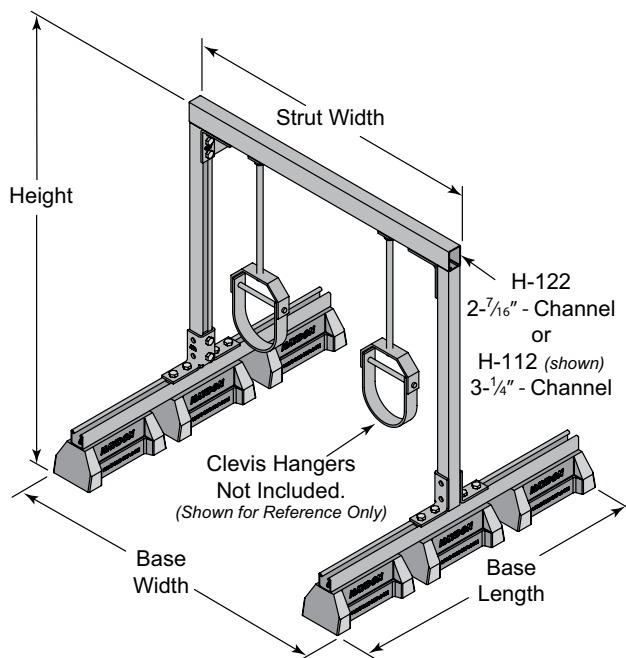

**Specifications**

Fixed Width & Height.

All hardware required for assembly is included.

Base Material - 100% recycled rubber, UV resistant

Crossbeams - 2<sup>7</sup>/<sub>16</sub>" H-122 Channel or 3<sup>1</sup>/<sub>4</sub>" H-112 Channel


**HBS-PH 36" MEDIUM DUTY PIPE HANGER SUPPORT SERIES WITH H-122 PG TOP SUPPORT**

| Model No.             | Height         | Strut Width  | Base Width                                | Base Length    | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|-----------------------|----------------|--------------|-------------------------------------------|----------------|--------------|--------------|-------------------------------|
| HBS-PH-36-36-H-122-PG | 36"<br>(914mm) | 36" (914mm)  | 39 <sup>3</sup> / <sub>8</sub> " (1000mm) | 36"<br>(914mm) | 6            | 63           | 2,190*                        |
| HBS-PH-36-48-H-122-PG |                | 48" (1219mm) | 51 <sup>3</sup> / <sub>8</sub> " (1305mm) |                |              | 66           | 1,635*                        |
| HBS-PH-36-60-H-122-PG |                | 60" (1524mm) | 63 <sup>3</sup> / <sub>8</sub> " (1610mm) |                |              | 68           | 1,305*                        |
| HBS-PH-36-72-H-122-PG |                | 72" (1829mm) | 75 <sup>3</sup> / <sub>8</sub> " (1915mm) |                |              | 71           | 1,080*                        |

\* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For pipe hangers located 1/3 from each end, multiply uniform load by .75. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of 1/2" channel nuts tightened to 50 ft-lbs.

**HBS-PH 36" MEDIUM DUTY PIPE HANGER SUPPORT SERIES WITH H-112 PG TOP SUPPORT**

| Model No.             | Height         | Strut Width  | Base Width                                | Base Length    | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|-----------------------|----------------|--------------|-------------------------------------------|----------------|--------------|--------------|-------------------------------|
| HBS-PH-36-36-H-112-PG | 36"<br>(914mm) | 36" (914mm)  | 39 <sup>3</sup> / <sub>8</sub> " (1000mm) | 36"<br>(914mm) | 6            | 65           | 3,505*                        |
| HBS-PH-36-48-H-112-PG |                | 48" (1219mm) | 51 <sup>3</sup> / <sub>8</sub> " (1305mm) |                |              | 68           | 2,620*                        |
| HBS-PH-36-60-H-112-PG |                | 60" (1524mm) | 63 <sup>3</sup> / <sub>8</sub> " (1610mm) |                |              | 71           | 2,090*                        |
| HBS-PH-36-72-H-112-PG |                | 72" (1829mm) | 75 <sup>3</sup> / <sub>8</sub> " (1915mm) |                |              | 74           | 1,735*                        |

\* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For pipe hangers located 1/3 from each end, multiply uniform load by .75. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of 1/2" channel nuts tightened to 50 ft-lbs.

## LEGEND:

PG: Pre-Galvanized HG: Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.



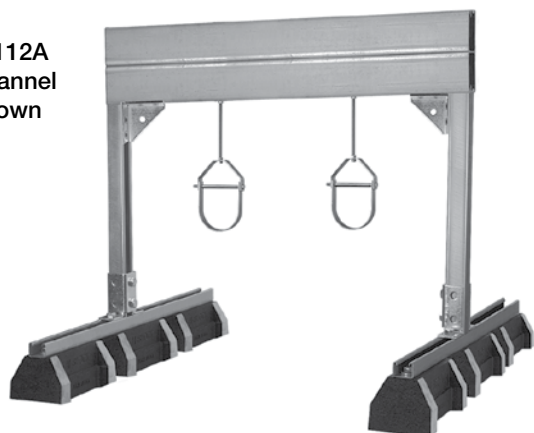
### HBS-PH 36" Heavy Duty Pipe Hanger Support

PG, HG

#### HBS-PH 36" HEAVY DUTY PIPE HANGER SUPPORT SERIES WITH TOP SUPPORT

The HBS-PH Series is designed specifically for supporting piping.

H-112A  
Channel  
Shown



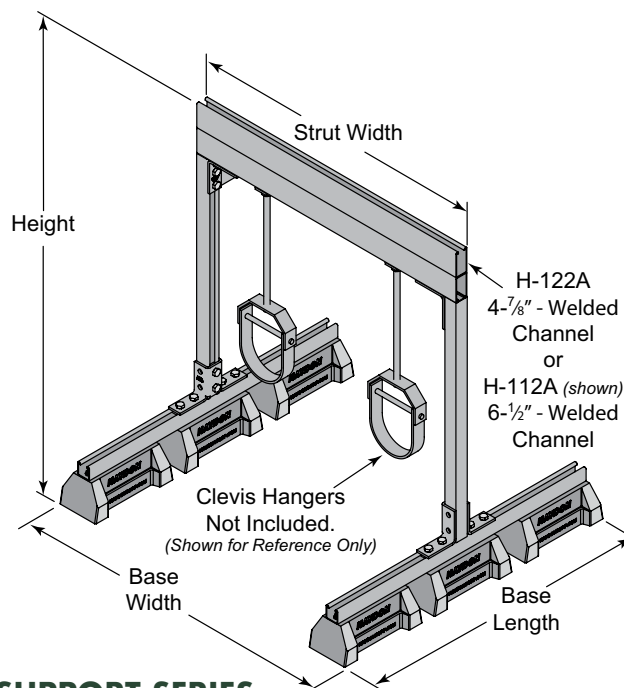
#### Specifications

Fixed Width & Height.

All hardware required for assembly is included.

Base Material - 100% recycled rubber, UV resistant

Crossbeams - 4-7/8" H-122A Channel or 6-1/2" H-112A Channel



#### HBS-PH 36" HEAVY DUTY PIPE HANGER SUPPORT SERIES WITH H-122A PG TOP SUPPORT

| Model No.              | Height         | Strut Width  | Base Width       | Base Length    | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|------------------------|----------------|--------------|------------------|----------------|--------------|--------------|-------------------------------|
| HBS-PH-36-36-H-122A-PG | 36"<br>(914mm) | 36" (914mm)  | 39 3/8" (1000mm) | 36"<br>(914mm) | 6            | 70           | 3,870*                        |
| HBS-PH-36-48-H-122A-PG |                | 48" (1219mm) | 51 3/8" (1305mm) |                |              | 75           | 3,870*                        |
| HBS-PH-36-60-H-122A-PG |                | 60" (1524mm) | 63 3/8" (1610mm) |                |              | 80           | 3,845*                        |
| HBS-PH-36-72-H-122A-PG |                | 72" (1829mm) | 75 3/8" (1915mm) |                |              | 84           | 3,195*                        |

\* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For pipe hangers located 1/3 from each end, multiply uniform load by .75. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of 1/2" channel nuts tightened to 50 ft-lbs.

#### HBS-PH 36" HEAVY DUTY PIPE HANGER SUPPORT SERIES WITH H-112A PG TOP SUPPORT

| Model No.              | Height         | Strut Width  | Base Width       | Base Length    | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|------------------------|----------------|--------------|------------------|----------------|--------------|--------------|-------------------------------|
| HBS-PH-36-36-H-112A-PG | 36"<br>(914mm) | 36" (914mm)  | 39 3/8" (1000mm) | 36"<br>(914mm) | 6            | 73           | 3,870*                        |
| HBS-PH-36-48-H-112A-PG |                | 48" (1219mm) | 51 3/8" (1305mm) |                |              | 79           | 3,870*                        |
| HBS-PH-36-60-H-112A-PG |                | 60" (1524mm) | 63 3/8" (1610mm) |                |              | 85           | 3,870*                        |
| HBS-PH-36-72-H-112A-PG |                | 72" (1829mm) | 75 3/8" (1915mm) |                |              | 91           | 3,870*                        |

\* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For pipe hangers located 1/3 from each end, multiply uniform load by .75. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of 1/2" channel nuts tightened to 50 ft-lbs.



**LEGEND:**

**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.


**HBS-PH 48" Light Duty Pipe Hanger Support**

PG, HG

**HBS-PH 48" LIGHT DUTY PIPE HANGER SUPPORT SERIES WITH H-132 PG TOP SUPPORT**

The HBS-PH Series is designed specifically for supporting piping.

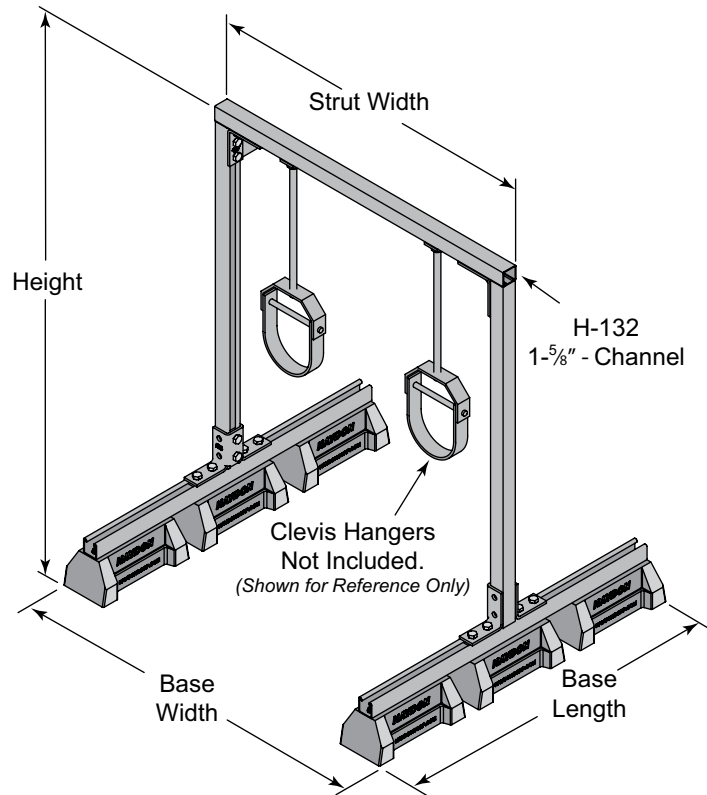

**Specifications**

Fixed Width & Height.

All hardware required for assembly is included.

Base Material - 100% recycled rubber, UV resistant

Crossbeams - 1½" H-132 Channel


**HBS-PH 48" LIGHT DUTY PIPE HANGER SUPPORT SERIES WITH H-132PG TOP SUPPORT**

| Model No.             | Height          | Strut Width  | Base Width    | Base Length    | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|-----------------------|-----------------|--------------|---------------|----------------|--------------|--------------|-------------------------------|
| HBS-PH-48-36-H-132-PG | 48"<br>(1219mm) | 36" (914mm)  | 39¾" (1000mm) | 36"<br>(914mm) | 6            | 66           | 1,145*                        |
| HBS-PH-48-48-H-132-PG |                 | 48" (1219mm) | 51¾" (1305mm) |                |              | 68           | 855*                          |
| HBS-PH-48-60-H-132-PG |                 | 60" (1524mm) | 63¾" (1610mm) |                |              | 70           | 680*                          |
| HBS-PH-48-72-H-132-PG |                 | 72" (1829mm) | 75¾" (1915mm) |                |              | 72           | 565*                          |

\* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance ¼ from each end of the top channel. For pipe hangers located ⅓ from each end, multiply uniform load by .75. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of ½" channel nuts tightened to 50 ft-lbs.

## LEGEND:

PG: Pre-Galvanized HG: Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.

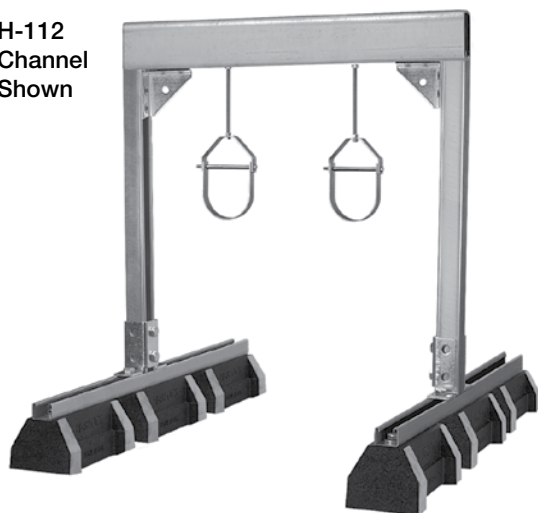


### HBS-PH 48" Medium Duty Pipe Hanger Support PG, HG

#### HBS-PH 48" MEDIUM DUTY PIPE HANGER SUPPORT SERIES WITH TOP SUPPORT

The HBS-PH Series is designed specifically for supporting piping.

H-112  
Channel  
Shown



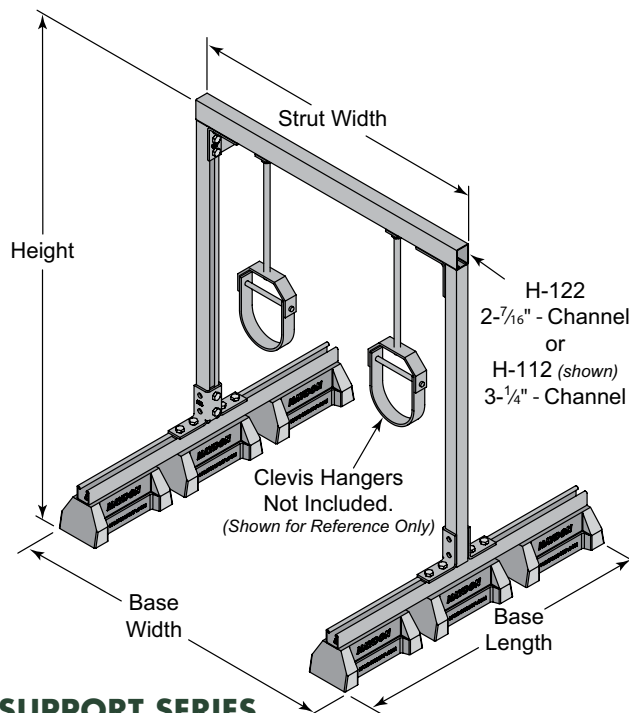
#### Specifications

Fixed Width & Height.

All hardware required for assembly is included.

Base Material - 100% recycled rubber, UV resistant

Crossbeams - 2<sup>7</sup>/<sub>16</sub>" H-122 Channel or 3<sup>1</sup>/<sub>4</sub>" H-112 Channel



#### HBS-PH 48" MEDIUM DUTY PIPE HANGER SUPPORT SERIES WITH H-122 PG TOP SUPPORT

| Model No.             | Height          | Strut Width  | Base Width                                | Base Length    | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|-----------------------|-----------------|--------------|-------------------------------------------|----------------|--------------|--------------|-------------------------------|
| HBS-PH-48-36-H-122-PG | 48"<br>(1219mm) | 36" (914mm)  | 39 <sup>3</sup> / <sub>8</sub> " (1000mm) | 36"<br>(914mm) | 6            | 67           | 2,190*                        |
| HBS-PH-48-48-H-122-PG |                 | 48" (1219mm) | 51 <sup>1</sup> / <sub>8</sub> " (1305mm) |                |              | 70           | 1,635*                        |
| HBS-PH-48-60-H-122-PG |                 | 60" (1524mm) | 63 <sup>3</sup> / <sub>8</sub> " (1610mm) |                |              | 72           | 1,305*                        |
| HBS-PH-48-72-H-122-PG |                 | 72" (1829mm) | 75 <sup>3</sup> / <sub>8</sub> " (1915mm) |                |              | 75           | 1,080*                        |

\* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For pipe hangers located 1/3 from each end, multiply uniform load by .75. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of 1/2" channel nuts tightened to 50 ft-lbs.

#### HBS-PH 48" MEDIUM DUTY PIPE HANGER SUPPORT SERIES WITH H-112 PG TOP SUPPORT

| Model No.             | Height          | Strut Width  | Base Width                                | Base Length    | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|-----------------------|-----------------|--------------|-------------------------------------------|----------------|--------------|--------------|-------------------------------|
| HBS-PH-48-36-H-112-PG | 48"<br>(1219mm) | 36" (914mm)  | 39 <sup>3</sup> / <sub>8</sub> " (1000mm) | 36"<br>(914mm) | 6            | 69           | 3,505*                        |
| HBS-PH-48-48-H-112-PG |                 | 48" (1219mm) | 51 <sup>1</sup> / <sub>8</sub> " (1305mm) |                |              | 72           | 2,620*                        |
| HBS-PH-48-60-H-112-PG |                 | 60" (1524mm) | 63 <sup>3</sup> / <sub>8</sub> " (1610mm) |                |              | 75           | 2,090*                        |
| HBS-PH-48-72-H-112-PG |                 | 72" (1829mm) | 75 <sup>3</sup> / <sub>8</sub> " (1915mm) |                |              | 78           | 1,735*                        |

\* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For pipe hangers located 1/3 from each end, multiply uniform load by .75. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of 1/2" channel nuts tightened to 50 ft-lbs.

**LEGEND:**

**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.

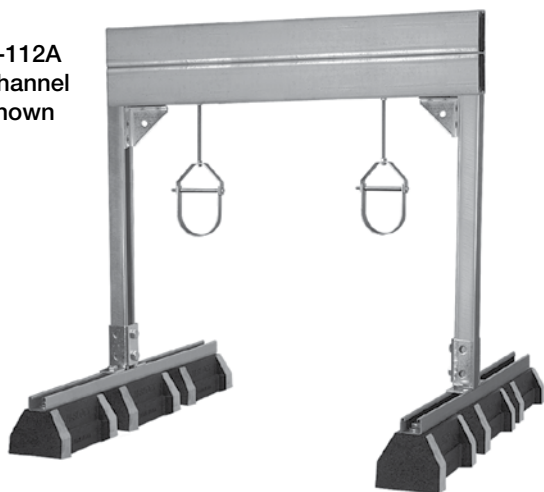

**HBS-PH 48" Heavy Duty Pipe Hanger Support**

PG, HG

**HBS-PH 48" HEAVY DUTY PIPE HANGER SUPPORT SERIES WITH TOP SUPPORT**

The HBS-PH Series is designed specifically for supporting piping.

**H-112A  
Channel  
Shown**

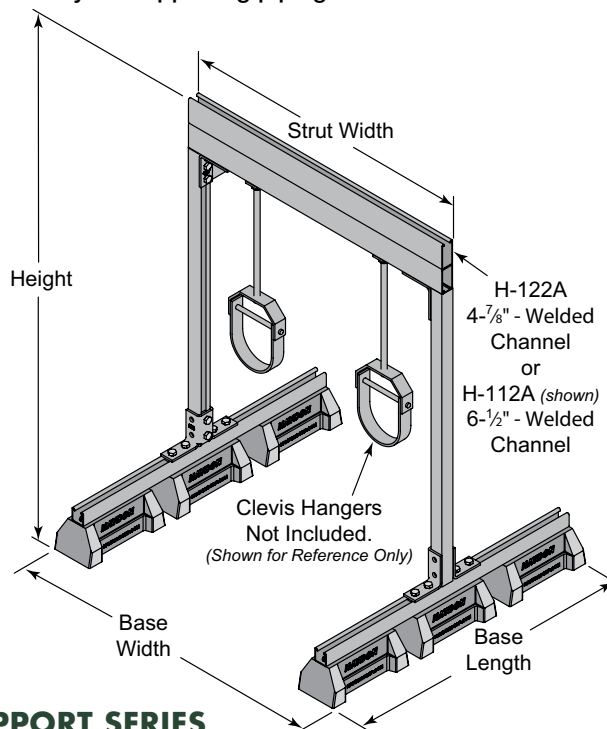

**Specifications**

Fixed Width & Height.

All hardware required for assembly is included.

Base Material - 100% recycled rubber, UV resistant

Crossbeams - 4<sup>7</sup>/<sub>8</sub>" H-122A Channel or 6<sup>1</sup>/<sub>2</sub>" H-112A Channel


**HBS-PH 48" HEAVY DUTY PIPE HANGER SUPPORT SERIES WITH H-122A PG TOP SUPPORT**

| Model No.              | Height          | Strut Width  | Base Width                                | Base Length    | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|------------------------|-----------------|--------------|-------------------------------------------|----------------|--------------|--------------|-------------------------------|
| HBS-PH-48-36-H-122A-PG | 48"<br>(1219mm) | 36" (914mm)  | 39 <sup>3</sup> / <sub>8</sub> " (1000mm) | 36"<br>(914mm) | 6            | 74           | 3,870*                        |
| HBS-PH-48-48-H-122A-PG |                 | 48" (1219mm) | 51 <sup>1</sup> / <sub>8</sub> " (1305mm) |                |              | 79           | 3,870*                        |
| HBS-PH-48-60-H-122A-PG |                 | 60" (1524mm) | 63 <sup>3</sup> / <sub>8</sub> " (1610mm) |                |              | 83           | 3,845*                        |
| HBS-PH-48-72-H-122A-PG |                 | 72" (1829mm) | 75 <sup>3</sup> / <sub>8</sub> " (1915mm) |                |              | 88           | 3,195*                        |

\* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For pipe hangers located 1/3 from each end, multiply uniform load by .75. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of 1/2" channel nuts tightened to 50 ft-lbs.

**HBS-PH 48" HEAVY DUTY PIPE HANGER SUPPORT SERIES WITH H-112A PG TOP SUPPORT**

| Model No.              | Height          | Strut Width  | Base Width                                | Base Length    | No. of Bases | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|------------------------|-----------------|--------------|-------------------------------------------|----------------|--------------|--------------|-------------------------------|
| HBS-PH-48-36-H-112A-PG | 48"<br>(1219mm) | 36" (914mm)  | 39 <sup>3</sup> / <sub>8</sub> " (1000mm) | 36"<br>(914mm) | 6            | 77           | 3,870*                        |
| HBS-PH-48-48-H-112A-PG |                 | 48" (1219mm) | 51 <sup>1</sup> / <sub>8</sub> " (1305mm) |                |              | 82           | 3,870*                        |
| HBS-PH-48-60-H-112A-PG |                 | 60" (1524mm) | 63 <sup>3</sup> / <sub>8</sub> " (1610mm) |                |              | 88           | 3,870*                        |
| HBS-PH-48-72-H-112A-PG |                 | 72" (1829mm) | 75 <sup>3</sup> / <sub>8</sub> " (1915mm) |                |              | 94           | 3,870*                        |

\* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For pipe hangers located 1/3 from each end, multiply uniform load by .75. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of 1/2" channel nuts tightened to 50 ft-lbs.

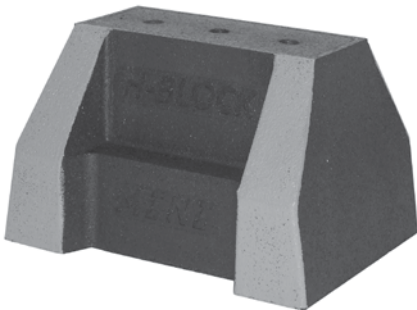
**LEGEND:**

**PG:** Pre-Galvanized    **HG:** Hot Dipped Galvanized    Pricing is located in the Anvil H-Block price book.



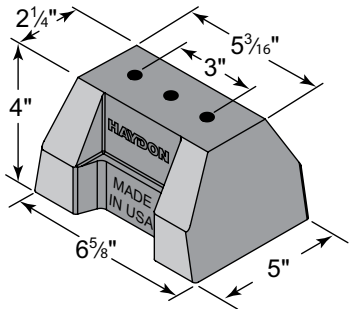
**HBM-Mini Base Only**

**HBM-BASE RUBBER SUPPORT – BASE ONLY**



Specifications – H-Block Mini Support  
Material - 100% recycled rubber, UV resistant

A cost-effective method for mounting and supporting single pipe applications without losing strength and integrity.



**HBM-BASE RUBBER SUPPORT – BASE ONLY**

| Model No.          | Height        | Width         | Base Length       | Weight (Lbs) | Uniform Load Capacity (Lbs) * |
|--------------------|---------------|---------------|-------------------|--------------|-------------------------------|
| HBM-Mini Base Only | 4"<br>(101mm) | 5"<br>(127mm) | 6 5/8"<br>(168mm) | 2.50         | 400 *                         |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

**LEGEND:**

**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.

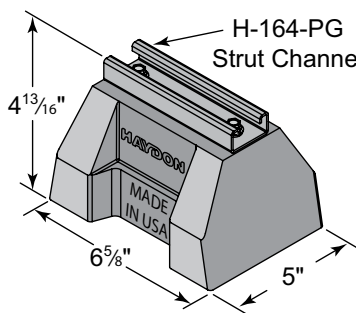
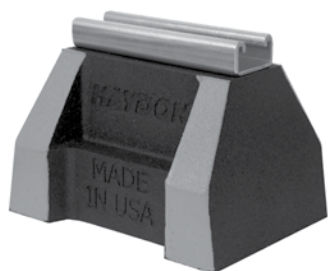

**HBM Series**
**PG**
**HBM-SUPPORT WITH STEEL CHANNEL**
**Specifications – HBM Series**

H-Block Mini Support with:

$\frac{13}{16}$ " H-164 Channel, or  $\frac{15}{8}$ " H-132 Channel

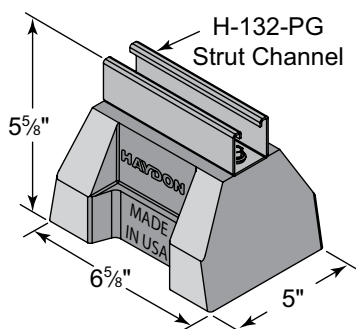
Material - 100% recycled rubber, UV resistant

A cost-effective method for mounting and supporting single pipe applications without losing strength and integrity.


**HBM-SUPPORT WITH  $\frac{13}{16}$ " H-164 PRE-GALV STEEL CHANNEL**

| Model No.      | Height                        | Width         | Base Length                 | Weight (Lbs) | Uniform Load Capacity (Lbs)* |
|----------------|-------------------------------|---------------|-----------------------------|--------------|------------------------------|
| HBM-5-H-164-PG | $4\frac{13}{16}$ "<br>(122mm) | 5"<br>(127mm) | $6\frac{5}{8}$ "<br>(168mm) | 2.90         | 400 *                        |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity


**HBM-SUPPORT WITH  $\frac{15}{8}$ " H-132 PRE-GALV STEEL CHANNEL**

| Model No.      | Height                      | Width         | Base Length                 | Weight (Lbs) | Uniform Load Capacity (Lbs)* |
|----------------|-----------------------------|---------------|-----------------------------|--------------|------------------------------|
| HBM-5-H-132-PG | $5\frac{5}{8}$ "<br>(147mm) | 5"<br>(127mm) | $6\frac{5}{8}$ "<br>(168mm) | 3.40         | 400 *                        |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

## LEGEND:

**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.



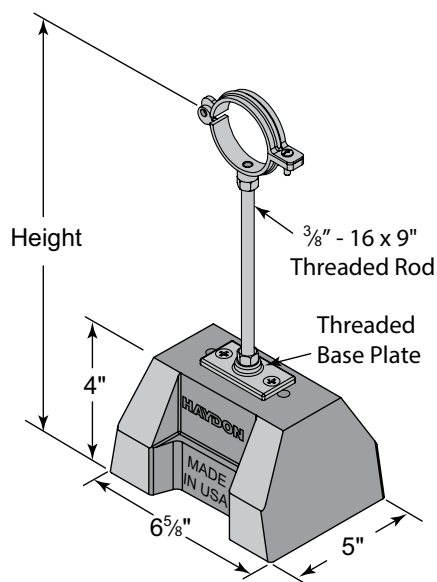
**HBM-HPC Series**

**PG**

### HBM-HINGED PIPE CLAMP SERIES

Specifications – HBM-Hinged Pipe Clamp Series  
H-Block Mini Support with:  
Threaded Rod and Hinged Pipe Clamp  
Material - 100% recycled rubber, UV resistant

A cost-effective method for mounting and supporting single pipe applications without losing strength and integrity.



### HBM-HINGED PIPE CLAMP SERIES

| Model No.           | Height                       | Width         | Base Length       | Weight (Lbs) | Uniform Load Capacity (Lbs)* |
|---------------------|------------------------------|---------------|-------------------|--------------|------------------------------|
| HBM-HPC-1/2 IN-EG   | 10" - 12"<br>(254mm - 305mm) | 5"<br>(127mm) | 6 5/8"<br>(168mm) | 2.70         | 125 *                        |
| HBM-HPC-3/4 IN-EG   |                              |               |                   | 2.80         |                              |
| HBM-HPC-1 IN-EG     |                              |               |                   | 2.90         |                              |
| HBM-HPC-1-1/4 IN-EG |                              |               |                   | 3.0          |                              |
| HBM-HPC-1-1/2 IN-EG |                              |               |                   | 3.10         |                              |
| HBM-HPC-2 IN-EG     |                              |               |                   | 3.30         |                              |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

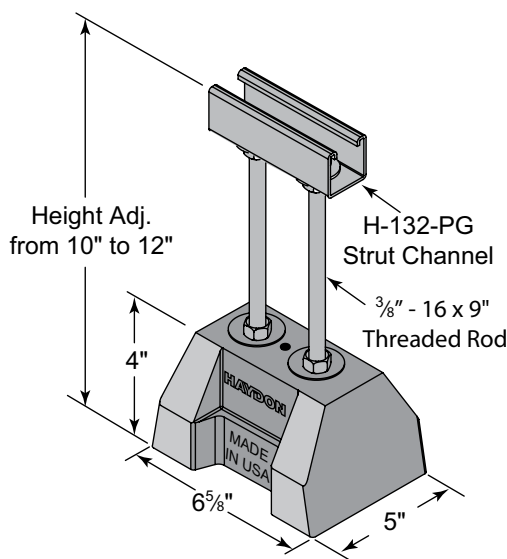
**LEGEND:**

**PG:** Pre-Galvanized **HG:** Hot Dipped Galvanized Pricing is located in the Anvil H-Block price book.


**HBM-CE5 Extension Series PG**
**HBM-CE5-EXTENSION SERIES SUPPORT WITH THREADED ROD EXTENSION AND CHANNEL**

Specifications – HBM-CE5 Extension Series  
H-Block Mini Support and Threaded Rod Riser  
with 1½" H-132 Channel  
Material - 100% recycled rubber, UV resistant

A cost-effective method for mounting and supporting single pipe applications without losing strength and integrity.


**HBM-CE5-EXTENSION SERIES SUPPORT WITH THREADED ROD EXTENSION AND 1½" H-132 PRE-GALV STEEL CHANNEL**

| Model No.              | Height                       | Width         | Base Length    | Weight (Lbs) | Uniform Load Capacity (Lbs)* |
|------------------------|------------------------------|---------------|----------------|--------------|------------------------------|
| HBM-CE5-10-12-H-132-PG | 10" - 12"<br>(254mm - 305mm) | 5"<br>(127mm) | 6⅝"<br>(168mm) | 4.00         | 175 *                        |

\* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity



## H-BLOCK SHIPPING

Assembled components are strapped together on a pallet so that assemblies are not bent or twisted. The smaller components are wrapped and placed inside the component frame. Not only does this process avoid damage, it keeps the components for that assembly together to avoid loss or mix-ups.

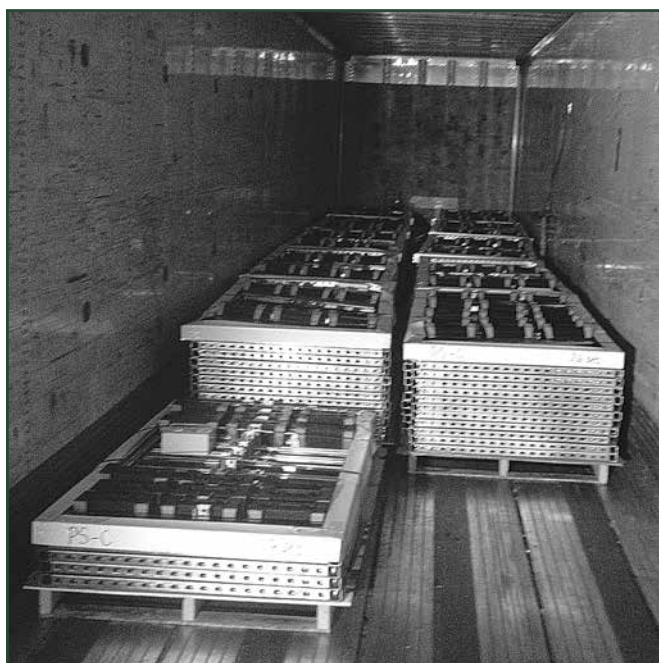


Fig. 20

## STRUT SHIELD

**Size Range:** Up to 8 1/4" O.D. Insulation

**Material:** UV Resistant Polypropylene Copolymer (Size F 20% Glass Filled)

**Temperature:** Operating temperature between -40°F to 178°F (-40°C to 81°C)

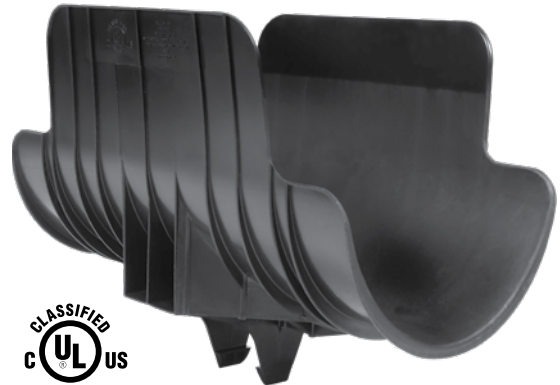
**Color:** Black or White

**Service:** Support of insulated horizontal refrigeration, air conditioning, and plumbing pipe.

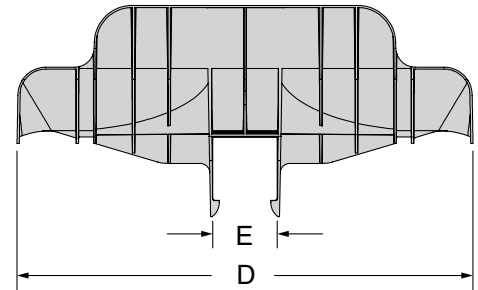
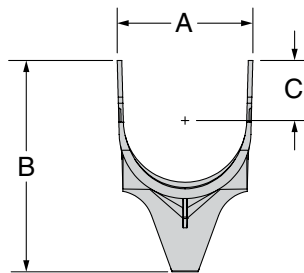
**Approvals:** UL classified for USA (UL-723 (ASTM E84)) and ULC listed for Canada (ULC-S102.2)

**Installation:** Clip directly on Anvil-Strut™ AS200 1 5/8" x 1 5/8" strut channel.

**Ordering:** Specify figure number, size, and color. Anvil Shields allow for the support of insulated horizontal refrigeration, air conditioning, and plumbing pipe and tube.



| Fig. 20: Dimensions (in) |       |         |        |    |       |
|--------------------------|-------|---------|--------|----|-------|
| Size                     | A     | B       | C      | D  | E     |
| A                        | 2 1/4 | 4 9/16  | 1 1/16 | 12 | 1 5/8 |
| B                        | 3 1/4 | 5 9/16  | 1 9/16 |    |       |
| C                        | 4 1/4 | 6 9/16  | 2 1/16 |    |       |
| D                        | 5 1/4 | 7 9/16  | 2 9/16 |    |       |
| E                        | 6 1/4 | 8 9/16  | 3 1/16 |    |       |
| F                        | 8 1/4 | 11 1/16 | 4 1/4  |    |       |



| Fig. 20 SIZING TABLE FOR COPPER TUBE |           |                      |      |    |        |    |
|--------------------------------------|-----------|----------------------|------|----|--------|----|
| CTS Tube                             | Tube O.D. | Insulation Thickness |      |    |        |    |
|                                      |           | 1/2"                 | 3/4" | 1" | 1 1/2" | 2" |
| 1/4"                                 | 0.375     | A                    | A    | B  | C      | D  |
| 3/8"                                 | 0.500     |                      |      |    |        |    |
| 1/2"                                 | 0.625     |                      |      |    |        |    |
| 5/8"                                 | 0.750     |                      |      |    |        |    |
| 3/4"                                 | 0.875     |                      |      |    |        |    |
| 1"                                   | 1.125     | B                    | B    | C  | D      | E  |
| 1 1/4"                               | 1.375     |                      |      |    |        |    |
| 1 1/2"                               | 1.625     |                      |      |    |        |    |
| 2"                                   | 2.125     | C                    | C    | D  | E      | F  |
| 2 1/2"                               | 2.625     |                      |      |    |        |    |
| 3"                                   | 3.125     |                      |      |    |        |    |
| 4"                                   | 4.125     | D                    | E    | E  |        |    |

The sizing chart above represents recommendations based on nominal insulation thicknesses and it does not include manufacturing tolerances for insulation, steel jacketing, or other factors which may influence the outer diameter of the insulation. To determine the best product for your application, please reference the Fig. 20's "A" dimension.

| Fig. 20 SIZING TABLE FOR NPS PIPE |           |                      |      |    |        |    |
|-----------------------------------|-----------|----------------------|------|----|--------|----|
| NPS Pipe                          | Pipe O.D. | Insulation Thickness |      |    |        |    |
|                                   |           | 1/2"                 | 3/4" | 1" | 1 1/2" | 2" |
| 1/4"                              | 0.504     | A                    | A    | B  | C      | D  |
| 3/8"                              | 0.675     |                      |      |    |        |    |
| 1/2"                              | 0.840     |                      |      |    |        |    |
| 3/4"                              | 1.050     |                      |      |    |        |    |
| 1"                                | 1.315     | B                    | B    | C  | D      | E  |
| 1 1/4"                            | 1.660     |                      |      |    |        |    |
| 1 1/2"                            | 1.900     |                      |      |    |        |    |
| 2"                                | 2.375     | C                    | C    | D  | E      | F  |
| 2 1/2"                            | 2.875     |                      |      |    |        |    |
| 3"                                | 3.500     |                      |      |    |        |    |
| 3 1/2"                            | 4.000     | D                    | D    | E  | F      | F  |
| 4"                                | 4.500     |                      |      |    |        |    |
| 5"                                | 5.563     |                      |      |    |        |    |
| 6"                                | 6.625     | F                    | F    |    |        |    |

Fig. 21

## STRUT SHIELD INSULATION COVER

**Size Range:** Up to 8<sup>1</sup>/<sub>4</sub>" O.D. Insulation

**Material:** UV Resistant Polypropylene

**Temperature:** Operating temperature between -40°F to 178°F (-40°C to 81°C)

**Color:** Black or White

**Approvals:** UL classified for USA (UL-723 (ASTM E84)) and ULC listed for Canada (ULC-S102.2)

**Installation:**

- Cut to desired size.
- Place over insulation and line up mounting notches with Fig. 20.
- Secure insulation shield with tie wraps.

**Ordering:** Specify figure number, size, and color.



| FIG. 21: DIMENSIONS (IN) |    |                                |                  |                                 |              |
|--------------------------|----|--------------------------------|------------------|---------------------------------|--------------|
| Size                     | A  | B                              | C                | D                               | Fig. 20 Size |
| A                        | 12 | 1 <sup>3</sup> / <sub>16</sub> | 7/ <sub>16</sub> | 5 <sup>7</sup> / <sub>16</sub>  | A to E       |
| B                        |    |                                |                  | 11 <sup>1</sup> / <sub>16</sub> | F            |

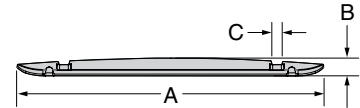
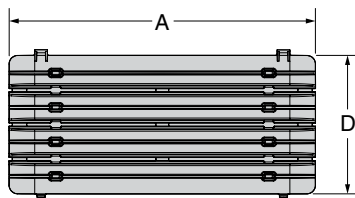


Fig. 31

## UNIVERSAL SHIELD CLEVIS ADAPTER

**Size Range:** From 2" through 12" Clevis (Fig. 260) when used with Fig. 30.

**Material:** UV Resistant Polypropylene 20% Glass Filled

**Temperature:** Operating temperature between -40°F to 178°F (-40°C to 81°C)

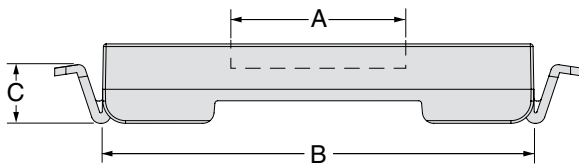
**Color:** Gray

**Service:** Support of insulated horizontal refrigeration, air conditioning, and plumbing pipe when used with Fig. 30.

**Approvals:** UL classified for USA (UL-723 (ASTM E84)) and ULC listed for Canada (ULC-S102.2)

**Installation:** After installation of Fig. 30 with Fig 260 clevis hanger, clip into the bottom of the Fig. 30 in order to secure the Fig. 260.

**Ordering:** Specify figure number and size.



| FIG. 31: DIMENSIONS (IN)      |                               |                 |
|-------------------------------|-------------------------------|-----------------|
| A                             | B                             | C               |
| 1 <sup>7</sup> / <sub>8</sub> | 4 <sup>3</sup> / <sub>4</sub> | 7/ <sub>8</sub> |

Fig. 30

## UNIVERSAL SHIELD

**Size Range:** Up to 12<sup>5</sup>/<sub>8</sub>" O.D. Insulation

**Material:** UV Resistant Polypropylene 20% Glass Filled

**Temperature:** Operating temperature between -40°F to 178°F (-40°C to 81°C)

**Color:** Gray

**Service:** Support of insulated horizontal refrigeration, air conditioning, and plumbing pipe.

**Approvals:** UL classified for USA (UL-723 (ASTM E84)) and ULC listed for Canada (ULC-S102.2)

**Installation:** Install on Fig. 260 clevis hanger or clip into Fig. 32, 33, 34, 36, or 37. When installed with Fig. 260 clevis hanger secure with Fig. 31.

**Ordering:** Specify figure number and size.

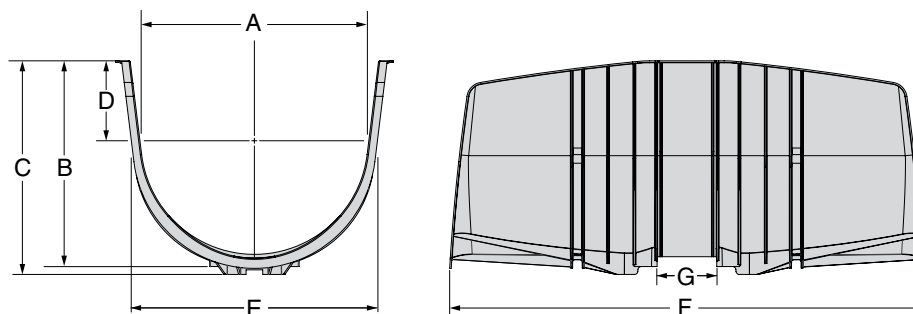
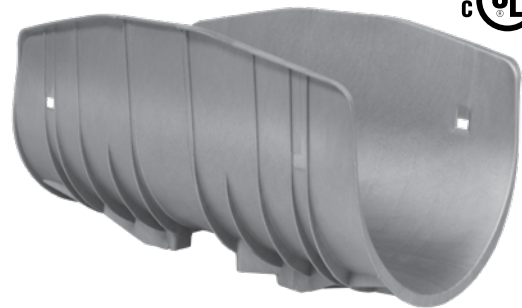


FIG. 30: DIMENSIONS (IN)

| Size | A                              | B                               | C                              | D                               | E                               | F  | G                              | Fig. 260 Size |
|------|--------------------------------|---------------------------------|--------------------------------|---------------------------------|---------------------------------|----|--------------------------------|---------------|
| A    | 2 <sup>5</sup> / <sub>16</sub> | 1 <sup>15</sup> / <sub>16</sub> | 2 <sup>5</sup> / <sub>16</sub> | 3/ <sub>8</sub>                 | 2 <sup>7</sup> / <sub>16</sub>  | 12 | 1 <sup>3</sup> / <sub>16</sub> | 2             |
| B    | 3 <sup>7</sup> / <sub>16</sub> | 3 <sup>3</sup> / <sub>16</sub>  | 3 <sup>9</sup> / <sub>16</sub> | 1 <sup>1</sup> / <sub>16</sub>  | 3 <sup>9</sup> / <sub>16</sub>  | 12 | 1 <sup>1</sup> / <sub>2</sub>  | 3             |
| C    | 4 <sup>1</sup> / <sub>2</sub>  | 3 <sup>7</sup> / <sub>8</sub>   | 4 <sup>3</sup> / <sub>16</sub> | 1 <sup>3</sup> / <sub>16</sub>  | 4 <sup>5</sup> / <sub>8</sub>   | 12 | 1 <sup>3</sup> / <sub>4</sub>  | 4             |
| D    | 5 <sup>9</sup> / <sub>16</sub> | 4 <sup>7</sup> / <sub>8</sub>   | 5 <sup>3</sup> / <sub>16</sub> | 1 <sup>11</sup> / <sub>16</sub> | 5 <sup>3</sup> / <sub>4</sub>   | 12 |                                | 5             |
| E    | 6 <sup>5</sup> / <sub>8</sub>  | 5 <sup>15</sup> / <sub>16</sub> | 6 <sup>1</sup> / <sub>4</sub>  | 2 <sup>3</sup> / <sub>16</sub>  | 6 <sup>3</sup> / <sub>4</sub>   | 12 | 2 <sup>1</sup> / <sub>16</sub> | 6             |
| F    | 8 <sup>5</sup> / <sub>8</sub>  | 7 <sup>13</sup> / <sub>16</sub> | 8 <sup>1</sup> / <sub>8</sub>  | 3 <sup>1</sup> / <sub>16</sub>  | 8 <sup>3</sup> / <sub>4</sub>   | 18 | 2 <sup>1</sup> / <sub>4</sub>  | 8             |
| G    | 10 <sup>5</sup> / <sub>8</sub> |                                 |                                | 1 <sup>3</sup> / <sub>4</sub>   | 10 <sup>9</sup> / <sub>16</sub> | 23 |                                | 10            |
| H    | 12 <sup>5</sup> / <sub>8</sub> | 9 <sup>3</sup> / <sub>16</sub>  | 9 <sup>1</sup> / <sub>2</sub>  | 2 <sup>1</sup> / <sub>8</sub>   | 12 <sup>1</sup> / <sub>2</sub>  | 23 |                                | 12            |

Fig. 30 SIZING TABLE FOR COPPER TUBE

| CTS Tube | Tube O.D. | Insulation Thickness |      |    |        |    |
|----------|-----------|----------------------|------|----|--------|----|
|          |           | 1/2"                 | 3/4" | 1" | 1 1/2" | 2" |
| 1/4"     | 0.375     | A                    | A    | B  | B      | C  |
| 3/8"     | 0.500     |                      |      |    | C      | D  |
| 1/2"     | 0.625     |                      |      |    |        |    |
| 5/8"     | 0.750     |                      |      |    |        |    |
| 3/4"     | 0.875     |                      |      |    |        |    |
| 1"       | 1.125     | B                    | C    | D  | E      | F  |
| 1 1/4"   | 1.375     |                      |      |    |        |    |
| 1 1/2"   | 1.625     |                      |      |    |        |    |
| 2"       | 2.125     | C                    | D    | E  | F      | G  |
| 2 1/2"   | 2.625     |                      |      |    |        |    |
| 3"       | 3.125     |                      |      |    |        |    |
| 4"       | 4.125     | D                    | E    | E  |        |    |

The sizing chart above represents recommendations based on nominal insulation thicknesses and it does not include manufacturing tolerances for insulation, steel jacketing, or other factors which may influence the outer diameter of the insulation. To determine the best product for your application, please reference the Fig. 30's "A" dimension.

Fig. 30 SIZING TABLE FOR NPS PIPE

| NPS Pipe | Pipe O.D. | Insulation Thickness |      |    |        |    |
|----------|-----------|----------------------|------|----|--------|----|
|          |           | 1/2"                 | 3/4" | 1" | 1 1/2" | 2" |
| 1/4"     | 0.504     | A                    | A    | B  | C      | D  |
| 3/8"     | 0.675     |                      |      |    |        |    |
| 1/2"     | 0.840     |                      |      |    |        |    |
| 3/4"     | 1.050     |                      |      |    |        |    |
| 1"       | 1.315     |                      |      |    |        |    |
| 1 1/4"   | 1.660     | B                    | C    | D  | E      | F  |
| 1 1/2"   | 1.900     |                      |      |    |        |    |
| 2"       | 2.375     |                      |      |    |        |    |
| 2 1/2"   | 2.875     | C                    | D    | E  | F      | G  |
| 3"       | 3.500     |                      |      |    |        |    |
| 3 1/2"   | 4.000     |                      |      |    |        |    |
| 4"       | 4.500     | D                    | E    | F  | G      | H  |
| 5"       | 5.563     |                      |      |    |        |    |
| 6"       | 6.625     |                      |      |    |        |    |
| 8"       | 8.625     | H                    | H    | -  | -      | -  |
| 10"      | 10.75     |                      |      |    |        |    |





# TECHNICAL DATA



This section is to provide you with information regarding the manufacturing specifications and procedures on our Anvil-Strut channel and accessories.

This section also provides you with helpful information on beam and column loading, as well as other design information, to help design a strut system for your particular application.

We at Anvil International are committed to customer service and so we offer the services of our Engineering Department to answer any questions you may have.

## **CHANNEL SPECIFICATIONS**

### **Materials**

#### **CARBON STEEL**

Channels are formed from high-quality, structural grade carbon steel which has been manufactured in accordance with ASTM A-1011-04-SS Grade 33 (hot rolled), or ASTM 366 (cold rolled), with mechanical properties of 33 ksi minimum yield and 52 ksi minimum tensile strength. The precision roll-forming process by which the channels are formed "cold works" the steel, thereby increasing its mechanical properties.

#### **STAINLESS STEEL**

Channels are formed from chromium-nickel stainless steel sheet manufactured in accordance with ASTM A-240 specification, offered in both AISI Type 304 and 316 material to provide protection in varying corrosive conditions.

#### **ALUMINUM**

Extruded aluminum channel is produced from 6063-T6 alloy, and fittings are produced from 5052-H32 alloy, both in accordance with ASTM B-221 specifications. Aluminum is suitable for use in various corrosive environments.

---

### **Finishes**

#### **PRE-GALVANIZED**

Hot dip, mill galvanized coating produced through a process of continuously passing the steel through a bath of molten zinc. This process is performed in accordance with ASTM A-653. The thickness of the zinc coating conforms with ASTM G-90 which represents a coating thickness of .90 ounces of zinc per square foot. This coating is applied to the steel master coils prior to slitting and fabrication.

#### **HOT DIP GALVANIZED - POST FABRICATION**

The finished channel is completely immersed in a bath of molten zinc, resulting in the complete coating of all surfaces of the product, including edges and welds. Strut channels that are hot dip galvanized, have a total coating weight of 3.0 ounces of zinc per square foot in accordance with ASTM A-123 specification. This coating provides superior results in applications calling for prolonged outdoor exposure.

#### **SUPR-GREEN POWDER COATING**

Strut channels are coated after fabrication with polyester powder finish. This coating is applied using an electrostatic spray process, beginning with cleaning and phosphating, through a bonderite pretreatment process, and ending with oven curing. The resulting finish provides a high quality appearance and durability. Powder Coating is in accordance with ASTM B-117 (standard practice for operating salt spray (fog) apparatus) to 500 hours with less than 1/8" scribe creep.

#### **ZINC TRIVALENT CHROMIUM**

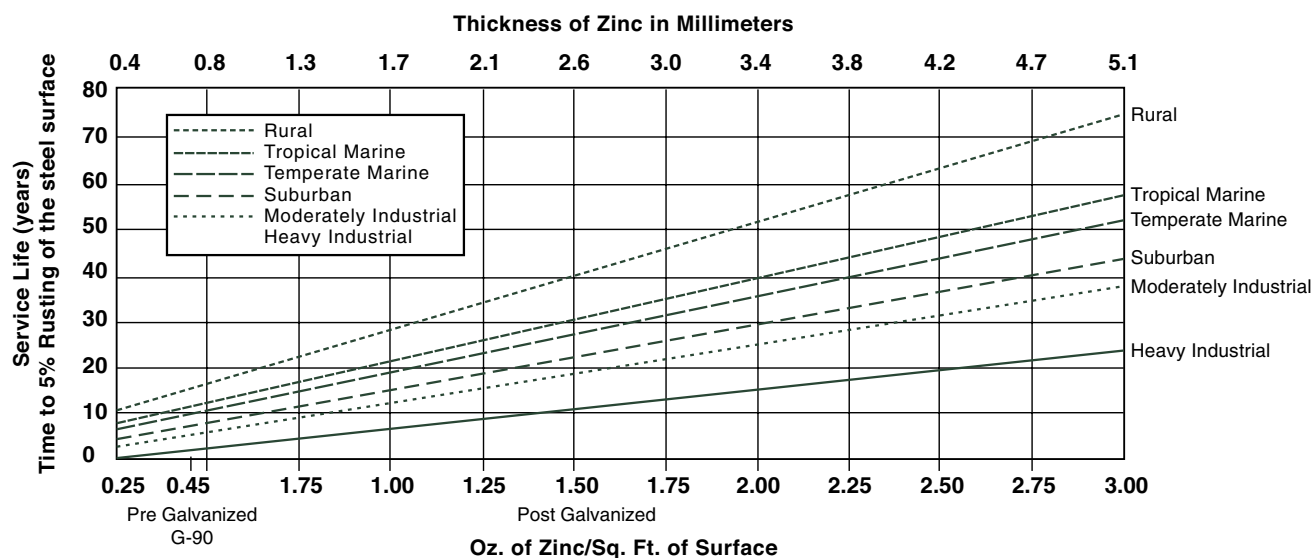
The finished channel undergoes a multi-step process consisting of electrogalvanizing, in accordance with ASTM B-633-85, followed by an application of zinc trivalent chromium, which provides the distinctive gold coloration of the finish. All surfaces are coated because the process is performed after fabrication.

#### **PVC**

A corrosive resistant PVC (polyvinyl chloride) coating is applied over the completed strut channel. The coating process consists of surface pretreatment, followed by preheating of the part, which is then passed through a fluidized bed of vinyl plastic powder. The powder melts onto the heated channel forming a smooth coating which undergoes a final heat curing.



# LIFE OF PROTECTION VS. THICKNESS OF ZINC AND TYPE OF ATMOSPHERE



The chart above represents the expected life of Anvil-Strut when exposed to various atmospheres, ranging from moderate to severe. This chart is helpful for the designer when selecting which galvanized coating is best suited for the given application. It has been compiled from many years of service in the various industries Anvil serves.

Should you have a custom application that requires additional information, our engineering department is ready to review it.

Courtesy of American Galvanizers Association.

Anvil's outstanding quality control procedures assure the end user each piece of Anvil-Strut has been manufactured to the most rigid specifications in the industry, and will provide the level of field service you have come to expect from Anvil's products.

## FUNDAMENTALS OF DESIGN

### BEAMS

Beams are members which are subjected to loads at right angles (perpendicular) to their length. Most commonly, beams are horizontal and are therefore subjected to vertical loads usually related to gravity, i.e.- a shelf, platform or support for pipe or conduit. Loads cause beams to bend, called deflection. The ultimate consideration when designing a beam structure is whether or not it is strong enough. In other words, will it hold the anticipated load and provide a safety factor for unanticipated loads or other variations in conditions. A beam's ability to support a load is determined by its allowable bending moment and resulting amount of deflection. This load carrying ability is dependent on a number of factors: the amount of load, the type of load, the manner in which the beam is supported and the stiffness of the beam (a function of the beam's shape and the material from which it is made).

### LOADING AND DEFLECTION

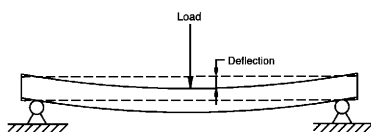
All beams will deflect or "sag" when a load is applied. The magnitude of the deflection is dependent on the following factors:

- The amount of load plus the weight of the beam itself.
- The manner in which the load is distributed.
- The method by which the beam is supported.
- The cross sectional shape of the beam.
- The material from which the beam is made.

The stiffness of the beam derived from its cross sectional shape is defined by its "Moment of Inertia" or "I". The greater the "I" value of a beam, the greater its stiffness and the smaller its deflection. "I" values are given for both major axis (X-X and Y-Y). Increasing the height of the strut channel (Y-Y axis) is a straightforward way to increase its stiffness and lower its deflection.

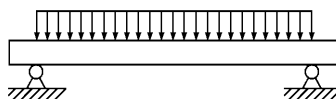
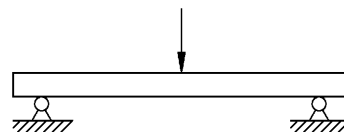
The stiffness of a beam derived from its material composition is defined by its "Modulus of Elasticity" or "E". The greater the "E" value of the beam's material, the stiffer it is, and the smaller the deflection. A material's elasticity does not necessarily relate to its strength but rather its deflection under a given load.

The beam capacities in this catalog include the weight of the beam itself. Therefore, the strut beam weight must be subtracted from the loading capacities given to provide the net beam capacity.



### TYPES OF BEAM LOADING

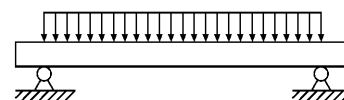
**Point Load** - A point load is concentrated at a single point along the beam's span (in reality, the load is concentrated over a very small length of the beam).



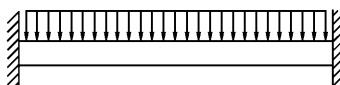
**Uniform Load** - A uniform load is spread evenly over the length of the beam from support to support.

### TYPES OF BEAM SUPPORT CONDITIONS

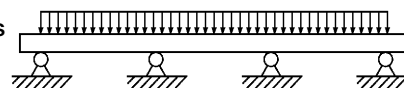
**Simple Beam** - A simple beam is supported at both ends by non-fixed connections which prevent vertical movement at the support point, but allow the beam to rotate or flex into a normal deflected shape. The majority of bolted metal framing connections closely approximate these conditions. The loading data presented in this catalog is based on simple beam analysis unless otherwise noted.



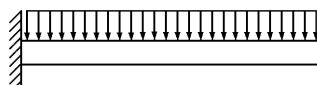
**Fixed Beam** - A fixed beam has rigid connections at each end that restrict the rotation of the beam and resist its deflection. The increased stiffness provided by this resistance to rotation provides a greater load capacity than that of an equivalent simple beam. A fixed-end beam would result when a channel span is welded to rigid upright supports.



**Continuous Beam** - A continuous beam rests on more than two supports. The outside spans of a continuous beam will act like simple beams, while the interior spans will behave in a manner similar to fixed beams.



**Cantilever Beams** - A cantilever beam is supported by a fixed, rigid connection at one end and is totally unsupported at the opposite end. Shelf brackets and many of the strut brackets shown in this catalog are examples of cantilever beams.



# DESIGN OF STRUT SYSTEMS

## SAFETY FACTOR, STRESS AND BENDING MOMENT

The most important design consideration is the determination of adequate load bearing capacity. The beam must support its own weight, plus the weight of anticipated loads, and in addition, have enough capacity to safely handle unanticipated loads and variations in other relevant conditions. This "safety factor" is usually established by various design codes and standards. One method of measuring a beams capacity is the allowable stress method whereby the beams maximum allowable stress is determined in pounds per square inch (psi).

The maximum allowable uniform loads (and corresponding deflections) presented in this catalog for strut channel beam loads are based on a simple beam configuration utilizing an allowable stress of 25,000 psi. This maximum allowable stress provides a theoretical safety factor of 1.68 which is derived from carbon steel's minimum yield strength of 33,000 psi, which is increased to 42,000 psi as a result of the steel being cold worked in the rolling process. In addition, the data given in this catalog under maximum allowable uniform loads is consistent with the current AISI "Specification For the Design of Cold-Formed Steel Structural Members. The bending moment divided by a beam's sectional modulus "S" equals stress.

As mentioned above, all beams will deflect or sag under load. It is worth noting that noticeable sagging is not an indication of an incorrectly designed beam installation. There may be situations however where it is desirable to address the visual appearance of an installation by minimizing deflection. In most applications a deflection equating to L/240 of the span's length will provide an acceptable appearance. The tables presented in this catalog show loading at L/240 deflections, as well as loading at 1/360 deflections that can be used in situations which have highly demanding visual requirements.

## BOLT TORQUE

Recommended bolt torque values are given below. These torque values are suggested as a guideline to assist in arriving at the proper bolt tension. It should be kept in mind that the relationship between wrench torque and bolt tension is not always consistent. Factors effecting this relationship include metal finish and the presence or lack of a lubricant. Lubricated threads will increase the bolt tension for a given amount torque applied, and could potentially result in over torquing. The values shown here assume a properly calibrated torque wrench and clean, non-lubricated bolt, nut, washer and fitting.

| BOLT SIZE | 1/4 - 20 | 5/16 - 18 | 3/8 - 16 | 1/2 - 13 |
|-----------|----------|-----------|----------|----------|
| FOOT-LBS  | 6        | 11        | 19       | 50       |

## COLUMNS

Columns are structural members that support compression loads (loads that are parallel to the length of the column). While most often vertical, any structural member that is loaded in compression, such as a diagonal brace, is considered a column.

Allowable column loading is dependent on a number of factors:

- Column length - Column length is the distance between brace points.
- Concentric vs eccentric loading - Concentric loading is a load applied upon the cross-sectional center of gravity, such as a load which rests on the top of a column. An eccentric load is any load which is not concentric. A fitting bolted to a strut channel slot will impart an eccentric load to the channel. The data presented in this catalog assumes concentric loading.
- Support conditions - The column end support condition is mathematically represented by its "K-factor". A pinned connection is one that prevents lateral movement, but allows rotation. A fixed connection provides restraint against both lateral movement and rotation. A free top connection is one that is restrained against rotation but is free to move laterally. The data presented in this catalog assumes a pinned top/pinned bottom condition ("K" equals 1.0).
- Cross-sectional shape - The column's cross-sectional shape is represented by its "Radius of Gyration" or "r" value. The axis with the smaller "r" value should be used for design evaluation.

In accordance with AISI "Specification for the Design of Cold Formed Steel Structural Members", column load data shown in this catalog is based on 33,000 psi yield strength. The data takes into account the effect of torsional and/or torsional-flexural buckling. Where possible, columns should be braced to minimize these effects.

H-Block

H-Block Mini

Anvil Shields

Technical Data

Index

Pipe Hanger Pictorial

## ELECTRICAL METALLIC TUBING DATA

| Nom. Size EMT Conduit | OD Conduit | Conduit Wt. lbs./ft. | Approx. Max. Wt. (lbs./ft.)<br>Conduit and Conductor Not Lead Covered |
|-----------------------|------------|----------------------|-----------------------------------------------------------------------|
| 1/2                   | 0.706      | 0.29                 | 0.54                                                                  |
| 3/4                   | 0.922      | 0.45                 | 1.16                                                                  |
| 1                     | 1.163      | 0.65                 | 1.83                                                                  |
| 1 1/4                 | 1.510      | 0.96                 | 2.96                                                                  |
| 1 1/2                 | 1.740      | 1.11                 | 3.68                                                                  |
| 2                     | 2.197      | 1.41                 | 4.45                                                                  |
| 2 1/2                 | 2.875      | 2.15                 | 6.41                                                                  |
| 3                     | 3.500      | 2.60                 | 9.30                                                                  |
| 3 1/2                 | 4.000      | 3.25                 | 12.15                                                                 |
| 4                     | 4.500      | 3.90                 | 15.40                                                                 |

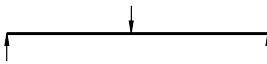
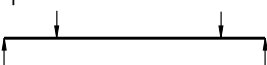
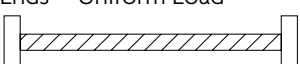
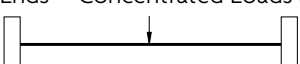
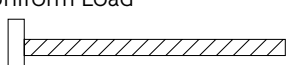
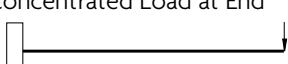
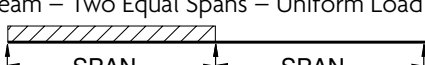
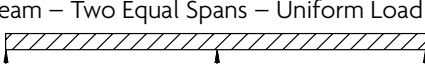
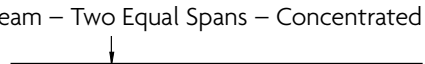
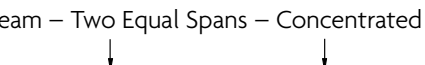
## APPLICATION ENGINEERING DATA - CONDUIT SPACINGS

Spacings in inches between centers of conduits. The light face figures are the minimum dimensions to provide clearance between locknuts. The more liberal spacings printed in bold face type should be used whenever possible.

| Size   |              |              |              |              |              |              |              |              |              |              |              |              |              |
|--------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| Size   | 1/2"         | 3/4"         | 1"           | 1 1/4"       | 1 1/2"       | 2            | 2 1/2"       | 3            | 3 1/2"       | 4"           | 4 1/2"       | 5"           | 6"           |
| 3/4"   | 1 5/16       | 1 7/16       | —            | —            | —            | —            | —            | —            | —            | —            | —            | —            | —            |
|        | <b>1 1/2</b> | <b>1 5/8</b> | —            | —            | —            | —            | —            | —            | —            | —            | —            | —            | —            |
| 1"     | 1 1/2        | 1 5/8        | 1 3/4        | —            | —            | —            | —            | —            | —            | —            | —            | —            | —            |
|        | <b>1 3/4</b> | <b>1 7/8</b> | <b>2</b>     | —            | —            | —            | —            | —            | —            | —            | —            | —            | —            |
| 1 1/4" | 1 3/4        | 1 7/8        | 2            | 2 1/4        | —            | —            | —            | —            | —            | —            | —            | —            | —            |
|        | <b>2</b>     | <b>1 1/8</b> | <b>2 1/4</b> | <b>2 1/2</b> | —            | —            | —            | —            | —            | —            | —            | —            | —            |
| 1 1/2" | 1 5/16       | 2 1/16       | 2 3/16       | 2 7/16       | 2 9/16       | —            | —            | —            | —            | —            | —            | —            | —            |
|        | <b>2 1/8</b> | <b>2 1/4</b> | <b>2 3/8</b> | <b>2 5/8</b> | <b>2 3/4</b> | —            | —            | —            | —            | —            | —            | —            | —            |
| 2"     | 2 3/16       | 2 5/16       | 2 1/2        | 2 3/4        | 2 7/8        | 3 1/8        | —            | —            | —            | —            | —            | —            | —            |
|        | <b>2 3/8</b> | <b>2 1/2</b> | <b>2 3/4</b> | <b>3</b>     | <b>3 1/8</b> | <b>3 3/8</b> | —            | —            | —            | —            | —            | —            | —            |
| 2 1/2" | 2 7/16       | 2 9/16       | 2 3/4        | 3            | 3 1/8        | 3 3/8        | 3 5/8        | —            | —            | —            | —            | —            | —            |
|        | <b>2 5/8</b> | <b>2 3/4</b> | <b>3</b>     | <b>3 1/4</b> | <b>3 3/8</b> | <b>3 5/8</b> | <b>4</b>     | —            | —            | —            | —            | —            | —            |
| 3"     | 2 13/16      | 2 15/16      | 3 1/16       | 3 5/16       | 3 7/16       | 3 3/4        | 4            | 4 5/16       | —            | —            | —            | —            | —            |
|        | <b>3</b>     | <b>3 1/8</b> | <b>3 3/8</b> | <b>3 5/8</b> | <b>3 3/4</b> | <b>4</b>     | <b>4 3/8</b> | <b>4 3/4</b> | —            | —            | —            | —            | —            |
| 3 1/2" | 3 1/8        | 3 1/4        | 3 3/8        | 3 5/8        | 3 3/4        | 4 1/16       | 4 5/16       | 4 5/8        | 4 15/16      | —            | —            | —            | —            |
|        | <b>3 3/8</b> | <b>3 1/2</b> | <b>3 5/8</b> | <b>3 7/8</b> | <b>4</b>     | <b>4 3/8</b> | <b>4 5/8</b> | <b>5</b>     | <b>5 3/8</b> | —            | —            | —            | —            |
| 4"     | 3 7/16       | 3 9/16       | 3 11/16      | 3 15/16      | 4 1/16       | 4 3/8        | 4 5/8        | 4 15/16      | 5 1/4        | 5 9/16       | —            | —            | —            |
|        | <b>3 3/4</b> | <b>3 7/8</b> | <b>4</b>     | <b>4 1/4</b> | <b>4 3/8</b> | <b>4 3/4</b> | <b>5</b>     | <b>5 3/8</b> | <b>5 5/8</b> | <b>6</b>     | —            | —            | —            |
| 4 1/2" | 3 3/4        | 3 7/8        | 4            | 4 1/4        | 4 3/8        | 4 5/8        | 4 7/8        | 5 1/4        | 5 9/16       | 5 7/8        | 6 1/8        | —            | —            |
|        | <b>4</b>     | <b>4 1/8</b> | <b>4 1/4</b> | <b>4 1/2</b> | <b>4 3/4</b> | <b>5</b>     | <b>5 1/4</b> | <b>5 5/8</b> | <b>6</b>     | <b>6 1/4</b> | <b>6 1/2</b> | —            | —            |
| 5"     | 4 1/8        | 4 1/4        | 4 3/8        | 4 5/8        | 4 3/4        | 5            | 5 1/4        | 5 9/16       | 5 7/8        | 6 3/16       | 6 1/2        | 6 13/16      | —            |
|        | <b>4 3/8</b> | <b>4 1/2</b> | <b>4 5/8</b> | <b>4 7/8</b> | <b>5</b>     | <b>5 3/8</b> | <b>5 5/8</b> | <b>6</b>     | <b>6 1/4</b> | <b>6 5/8</b> | <b>7</b>     | <b>7 1/4</b> | —            |
| 6"     | 4 3/4        | 4 7/8        | 5            | 5 1/4        | 5 3/8        | 5 5/8        | 5 7/8        | 6 3/16       | 6 1/2        | 6 13/16      | 7 1/8        | 7 7/16       | 8 1/8        |
|        | <b>5</b>     | <b>5 1/8</b> | <b>5 1/4</b> | <b>5 1/2</b> | <b>5 5/8</b> | <b>6</b>     | <b>6 1/4</b> | <b>6 5/8</b> | <b>7</b>     | <b>7 1/4</b> | <b>7 5/8</b> | <b>8</b>     | <b>8 5/8</b> |

## ANVIL-STRUT BEAM LOADING FORMULAS

For determining beam load other than simple beam load (supported at both ends), use the appropriate factor from the chart below and multiply by data provided on the appropriate channel page.

| Load and Support Condition                                                                                                                                           | Load Factor | Deflection Factor |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------|-------------------|
| Simple Beam – Uniform Load<br>                                                      | 1.00        | 1.00              |
| Simple Beam – Concentrated Load at Center<br>                                       | .50         | .80               |
| Simple Beam – Two Equal Concentrated Loads at 1/4 Points<br>                        | 1.00        | 1.10              |
| Beam Fixed at Both Ends – Uniform Load<br>                                          | 1.50        | .30               |
| Beam Fixed at Both Ends – Concentrated Loads at Center<br>                          | 1.00        | .40               |
| Cantilever Beam – Uniform Load<br>                                                 | .25         | 2.40              |
| Cantilever Beam – Concentrated Load at End<br>                                    | .12         | 3.20              |
| Continuous Beam – Two Equal Spans – Uniform Load on One Span<br>                  | 1.30        | .92               |
| Continuous Beam – Two Equal Spans – Uniform Load on Both Spans<br>                | 1.00        | .42               |
| Continuous Beam – Two Equal Spans – Concentrated Load at Center of One Span<br>   | .62         | .71               |
| Continuous Beam – Two Equal Spans – Concentrated Load at Center of Both Spans<br> | .67         | .48               |

### Examples:

#### Problem:

Calculate the load and corresponding deflection of the AS 200 beam continuous over one support and loaded uniformly on one span.



#### Solution:

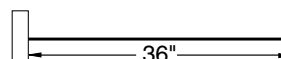
From the load table for AS 200, for a 60" span, the maximum allowable load is 650 lbs. and the corresponding deflection is .344". Multiplying by the appropriate factors shown in the chart above:

Load = 650 lbs. x 1.3 = 845 lbs.

Deflection = .344" x .92 = .316"

#### Problem:

Calculate the load and corresponding deflection of a cantilever AS 150 beam with a concentrated load on the end.



#### Solution:

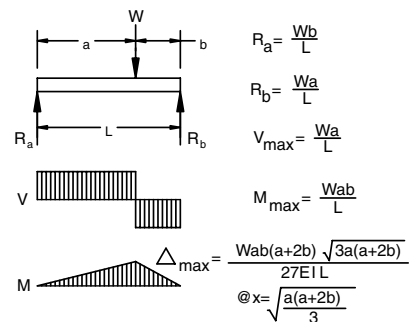
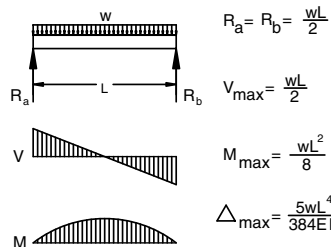
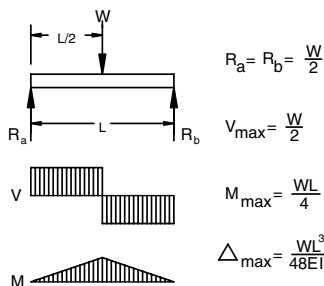
From beam load chart for AS 150, for a 36" span, the maximum allowable load is 2101 lbs. and the corresponding deflection is .085". Multiplying by the appropriate factors shown in the chart above:

Load = 2102 lbs. x .12 = 252 lbs.

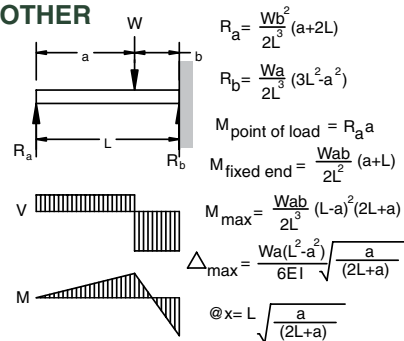
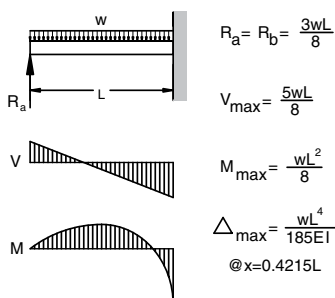
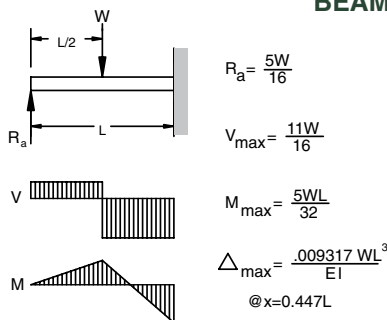
Deflection = .085" x 3.20 = .272"

## COMMON BEAM LOADING FORMULAS

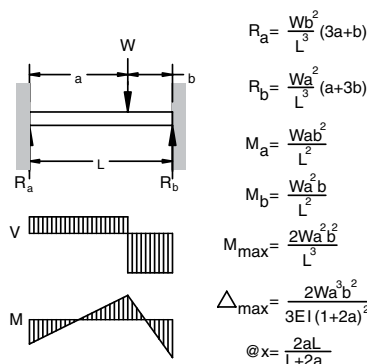
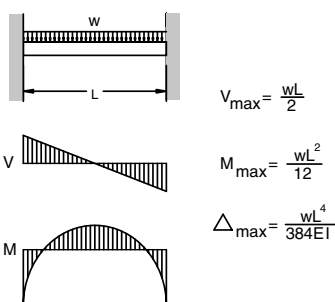
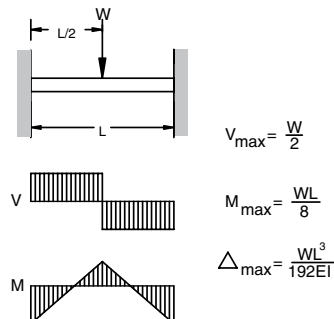
### SIMPLE BEAMS



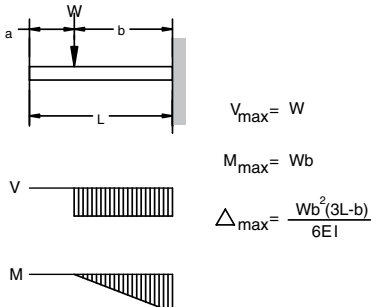
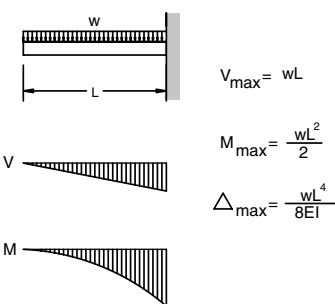
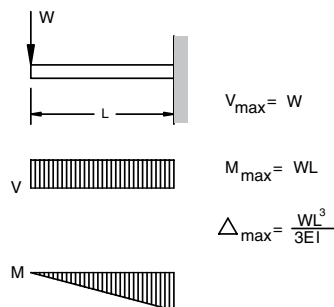
### BEAM FIXED AT ONE END, SUPPORTED AT OTHER



### BEAM FIXED AT BOTH ENDS



### CANTILEVER BEAMS



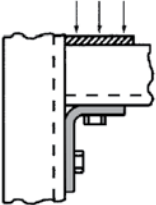
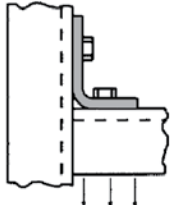
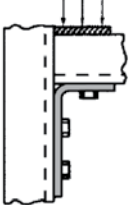
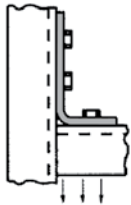
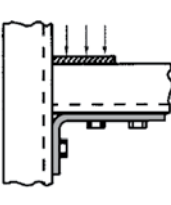
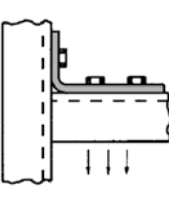
**R**- Reaction  
**M**-Moment  
**W**-Concentrated Load

**w**-Uniform Load (Weight/Unit Length)  
**V**-Shear  
**L**-Length

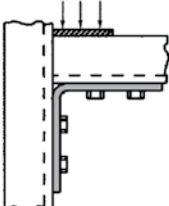
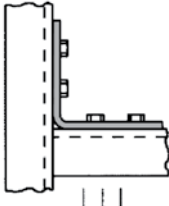
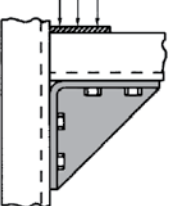
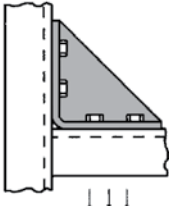
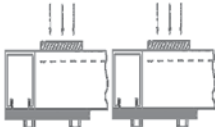
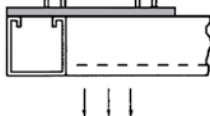
**Δ**-Deflection  
**E**-Modulus of Elasticity  
**I**-Moment of Inertia

# DESIGN LOAD DATA

(For typical channel-fitting connections when USED IN PAIRS, i.e., fittings at each end of beam.)

| 90° Fitting                                                                       | 90° Fitting                                                                       | 90° Fitting                                                                       | 90° Fitting                                                                        | 90° Fitting                                                                         | 90° Fitting                                                                         |
|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| <b>Channel Thickness</b><br>12 ga. 14 ga. 16 ga.<br>(2.6) (1.9) (1.5)             | <b>Channel Thickness</b><br>12 ga. 14 ga. 16 ga.<br>(2.6) (1.9) (1.5)             | <b>Channel Thickness</b><br>12 ga. 14 ga. 16 ga.<br>(2.6) (1.9) (1.5)             | <b>Channel Thickness</b><br>12 ga. 14 ga. 16 ga.<br>(2.6) (1.9) (1.5)              | <b>Channel Thickness</b><br>12 ga. 14 ga. 16 ga.<br>(2.6) (1.9) (1.5)               | <b>Channel Thickness</b><br>12 ga. 14 ga. 16 ga.<br>(2.6) (1.9) (1.5)               |
| Lbs. 1500 1000 750<br>kN (6.67) (4.45) (3.34)                                     | Lbs. 1000 650 500<br>kN (4.45) (2.89) (2.22)                                      | Lbs. 2000 1500 900<br>kN (8.90) (6.67) (4.00)                                     | Lbs. 1500 1150 650<br>kN (6.67) (5.12) (2.89)                                      | Lbs. 1500 1000 1000<br>kN (6.67) (4.45) (4.45)                                      | Lbs. 1000 650 500<br>kN (4.45) (2.89) (2.22)                                        |

Design load data includes a safety factor of 2.5 (safety factor = ratio of ultimate load to design load).

| 90° Fitting                                                                        | 90° Fitting                                                                        | 90° Fitting                                                                        | 90° Fitting                                                                         | Flat Fitting                                                                         | Flat Fitting                                                                         |
|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------|
|  |  |  |  |  |  |
| <b>Channel Thickness</b><br>12 ga. 14 ga. 16 ga.<br>(2.6) (1.9) (1.5)              | <b>Channel Thickness</b><br>12 ga. 14 ga. 16 ga.<br>(2.6) (1.9) (1.5)              | <b>Channel Thickness</b><br>12 ga. 14 ga. 16 ga.<br>(2.6) (1.9) (1.5)              | <b>Channel Thickness</b><br>12 ga. 14 ga. 16 ga.<br>(2.6) (1.9) (1.5)               | <b>Channel Thickness</b><br>12 ga. 14 ga. 16 ga.<br>(2.6) (1.9) (1.5)                | <b>Channel Thickness</b><br>12 ga. 14 ga. 16 ga.<br>(2.6) (1.9) (1.5)                |
| Lbs. 2500 2000 1500<br>kN (11.12) (8.90) (6.67)                                    | Lbs. 2000 1650 1250<br>kN (8.90) (7.34) (5.56)                                     | Lbs. 3000 2000 1500<br>kN (13.34) (8.90) (6.67)                                    | Lbs. 2500 1650 1250<br>kN (11.12) (7.34) (5.56)                                     | Lbs. 1000 800 600<br>kN (4.45) (3.56) (2.67)                                         | Lbs. 1000 800 600<br>kN (4.45) (3.56) (2.67)                                         |

H-Block

H-Block Mini

Anvil  
Shields

Technical  
Data

Index

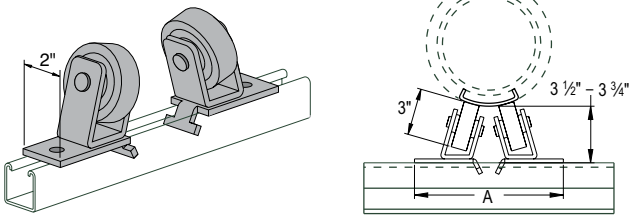
Pipe Hanger  
Pictorial



## AS 815

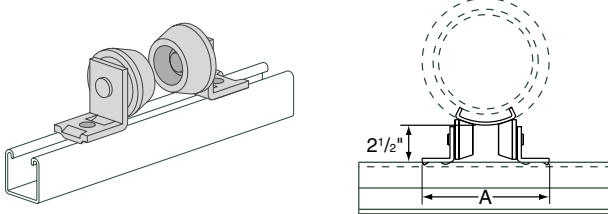
### (6" - 16" PIPE) DOUBLE ROLLER PIPE SUPPORT

Order Nuts and Bolts Separately.



## AS 1901

### (1/2" - 4" PIPE) PIPE ROLLER SUPPORT



## AS 1902

### (1" - 8" PIPE) PIPE ROLLER SUPPORT

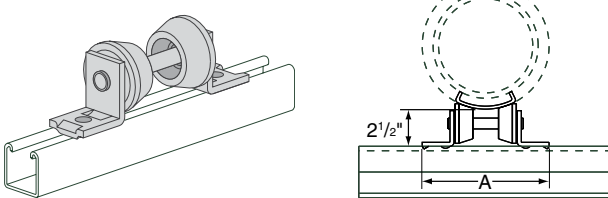


Chart for Dimension A

| Pipe Size | No Insulation | 1"      | 1 1/2"  | 2"      | 2 1/2"  | 3"      | 4"      |
|-----------|---------------|---------|---------|---------|---------|---------|---------|
| 6"        | 9 1/2"        | 10 1/4" | 10 1/2" | 10 3/4" | 11"     | 11 3/8" | 11 7/8" |
| 8"        | 10 1/8"       |         | 11"     | 11 3/8" | 11 3/4" | 12"     | 12 1/2" |
| 10"       | 10 3/4"       |         | 11 5/8" | 12"     | 12 1/4" | 12 1/2" | 13"     |
| 12"       | 11 1/4"       |         | 12 1/8" | 12 1/2" | 12 3/4" | 13"     | 13 1/2" |
| 14"       | 11 5/8"       |         | 12 1/2" | 12 7/8" | 13"     | 13 3/8" | 14"     |
| 16"       | 12 1/8"       |         | 13"     | 13 3/8" | 13 7/8" | 14"     | 14 1/2" |

Chart for Dimension A

| Pipe Size | No Insulation | 1"     | 1 1/2" | 2"     | 2 1/2" | 3"     | 4" |
|-----------|---------------|--------|--------|--------|--------|--------|----|
| 1/2"      | 6 1/2"        | 6 1/2" |        |        |        |        |    |
| 3/4"      | 6 1/2"        | 6 1/2" | 6 5/8" | 6 7/8" |        |        |    |
| 1"        | 6 1/2"        | 6 1/2" | 6 5/8" | 6 7/8" |        |        |    |
| 1 1/4"    | 6 1/2"        | 6 1/2" | 6 7/8" | 7 1/8" | 7 3/8" |        |    |
| 1 1/2"    | 6 1/2"        | 6 1/2" | 6 7/8" | 7 1/8" | 7 3/8" |        |    |
| 2"        | 6 1/2"        | 6 5/8" | 7 1/8" | 7 3/8" | 7 1/2" | 8"     |    |
| 2 1/2"    | 6 1/2"        | 6 5/8" | 7 1/8" | 7 3/8" | 7 1/2" | 8"     |    |
| 3"        | 6 1/2"        | 7"     | 7 1/2" | 7 3/4" | 7 7/8" | 8 1/8" |    |
| 3 1/2"    | 6 1/2"        | 7"     | 7 1/2" | 7 3/4" | 7 7/8" | 8 1/8" |    |
| 4"        | 6 5/8"        | 7 1/4" | 7 5/8" | 7 7/8" | 8"     | 8 5/8" | 9  |

Chart for Dimension A

| AS 1902 Size    | Dimension A |
|-----------------|-------------|
| 1" - 2"         | 6 3/4"      |
| 2 1/2" - 3 1/2" | 7 1/2"      |
| 4" - 6"         | 8 1/2"      |
| 8"              | 9 9/16"     |

AS 1902 Size Selection

| Pipe Size | No Insulation         | 1"                    | 1 1/2"                | 2"                    | 2 1/2"                | 3"            | 4"         |
|-----------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|---------------|------------|
| 1/2"      | AS 1902-1"-2"         | AS 1902-1"-2"         | AS 1902-1"-2"         | AS 1902-2 1/2"-3 1/2" |                       |               |            |
| 3/4"      | AS 1902-1"-2"         | AS 1902-1"-2"         | AS 1902-1"-2"         | AS 1902-2 1/2"-3 1/2" |                       |               |            |
| 1"        | AS 1902-1"-2"         | AS 1902-1"-2"         | AS 1902-1"-2"         | AS 1902-2 1/2"-3 1/2" |                       |               |            |
| 1 1/4"    | AS 1902-1"-2"         | AS 1902-1"-2"         | AS 1902-1"-2"         | AS 1902-2 1/2"-3 1/2" |                       |               |            |
| 1 1/2"    | AS 1902-1"-2"         | AS 1902-1"-2"         | AS 1902-2 1/2"-3 1/2" | AS 1902-2 1/2"-3 1/2" | AS 1902-2 1/2"-3 1/2" |               |            |
| 2"        | AS 1902-1"-2"         | AS 1902-1"-2"         | AS 1902-2 1/2"-3 1/2" | AS 1902-2 1/2"-3 1/2" | AS 1902-2 1/2"-3 1/2" |               |            |
| 2 1/2"    | AS 1902-1"-2"         | AS 1902-1"-2"         | AS 1902-2 1/2"-3 1/2" | AS 1902-2 1/2"-3 1/2" | AS 1902-2 1/2"-3 1/2" |               |            |
| 3"        | AS 1902-1"-2"         | AS 1902-2 1/2"-3 1/2" | AS 1902-2 1/2"-3 1/2" | AS 1902-4"-6"         | AS 1902-4"-6"         | AS 1902-4"-6" |            |
| 3 1/2"    | AS 1902-1"-2"         | AS 1902-2 1/2"-3 1/2" | AS 1902-2 1/2"-3 1/2" | AS 1902-4"-6"         | AS 1902-4"-6"         | AS 1902-4"-6" |            |
| 4"        | AS 1902-1"-2"         | AS 1902-2 1/2"-3 1/2" | AS 1902-2 1/2"-3 1/2" | AS 1902-4"-6"         | AS 1902-4"-6"         | AS 1902-4"-6" |            |
| 5"        | AS 1902-2 1/2"-3 1/2" | AS 1902-4"-6"         | AS 1902-4"-6"         | AS 1902-4"-6"         | AS 1902-4"-6"         | AS 1902-8"    | AS 1902-8" |
| 6"        | AS 1902-2 1/2"-3 1/2" | AS 1902-4"-6"         | AS 1902-4"-6"         | AS 1902-4"-6"         | AS 1902-4"-6"         | AS 1902-8"    | AS 1902-8" |
| 8"        | AS 1902-2 1/2"-3 1/2" | AS 1902-4"-6"         | AS 1902-8"            | AS 1902-8"            | AS 1902-8"            | AS 1902-8"    | AS 1902-8" |

## AS 1911

### PIPE ROLLER

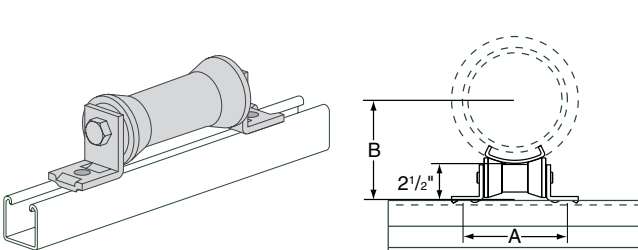


Chart for Dimension A

| Size        | Fit Pipe Size | A       | B       |
|-------------|---------------|---------|---------|
| 2" - 3 1/2" | 2"            | 5"      | 3"      |
|             | 2 1/2"        | 5"      | 3 1/4"  |
|             | 3"            | 5"      | 3 5/8"  |
|             | 3 1/2"        | 5"      | 3 7/8"  |
| 4" - 6"     | 4"            | 5 7/8"  | 4 5/16" |
|             | 5"            | 5 7/8"  | 4 7/8"  |
|             | 6"            | 5 7/8"  | 5 7/16" |
| 8" - 10"    | 8"            | 8 5/16" | 7 1/8"  |
|             | 10"           | 8 5/16" | 8 1/4"  |
| 12" - 14"   | 12"           | 10 7/8" | 9 7/8"  |
|             | 14"           | 10 7/8" | 10 1/2" |

NOTE: Anvil Strut Rollers Consist of Cast Iron Roller & Steel Bracket.

# MINIMUM SIZE ANVIL-STRUT CHANNEL

(To Comply with NFPA 13 Table 2-6.1 5(a) 1996 Edition)

|                                                                                   | Channel Size                                                                                 | Section Mod.<br>(in. <sup>3</sup> ) |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-------------------------------------|
|  | <b>AS-200</b><br>1 <sup>5</sup> / <sub>8</sub> " x 1 <sup>5</sup> / <sub>8</sub> " x 12 ga.  | <b>.202</b>                         |
|  | <b>AS-150</b><br>1 <sup>5</sup> / <sub>8</sub> " x 2 <sup>7</sup> / <sub>16</sub> " x 12 ga. | <b>.391</b>                         |
|  | <b>AS-100</b><br>1 <sup>5</sup> / <sub>8</sub> " x 3 <sup>1</sup> / <sub>4</sub> " x 12 ga.  | <b>.698</b>                         |

|                                                                                    | Channel Size                                                                                    | Section Mod.<br>(in. <sup>3</sup> ) |
|------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------|
|  | <b>AS-150 BTB</b><br>1 <sup>5</sup> / <sub>8</sub> " x 4 <sup>7</sup> / <sub>8</sub> " x 12 ga. | <b>1.153</b>                        |
|  | <b>AS-100 BTB</b><br>1 <sup>5</sup> / <sub>8</sub> " x 6 <sup>1</sup> / <sub>2</sub> " x 12 ga. | <b>1.716</b>                        |

## Section Modulus Required for Trapeze Members (in.<sup>3</sup>)

| Span of Trapeze | Pipe Size |                                 |                                 |     |                                 |     |                                 |     |      |      |      |      |
|-----------------|-----------|---------------------------------|---------------------------------|-----|---------------------------------|-----|---------------------------------|-----|------|------|------|------|
|                 | 1"        | 1 <sup>1</sup> / <sub>4</sub> " | 1 <sup>1</sup> / <sub>2</sub> " | 2"  | 2 <sup>1</sup> / <sub>2</sub> " | 3   | 3 <sup>1</sup> / <sub>2</sub> " | 4"  | 5"   | 6"   | 8"   | 10"  |
| 1 ft. 6 in.     | .08       | .09                             | .09                             | .09 | .10                             | .11 | .12                             | .13 | .15  | .18  | .24  | .32  |
|                 | .08       | .09                             | .09                             | .10 | .11                             | .12 | .13                             | .15 | .18  | .22  | .30  | .41  |
| 2 ft. 0 in.     | .11       | .12                             | .12                             | .13 | .13                             | .15 | .16                             | .17 | .20  | .24  | .32  | .43  |
|                 | .11       | .12                             | .12                             | .13 | .15                             | .16 | .18                             | .20 | .24  | .29  | .40  | .55  |
| 2 ft. 6 in.     | .14       | .14                             | .15                             | .16 | .17                             | .18 | .20                             | .21 | .25  | .30  | .40  | .54  |
|                 | .14       | .15                             | .15                             | .16 | .18                             | .21 | .22                             | .25 | .30  | .36  | .50  | .68  |
| 3 ft. 0 in.     | .17       | .17                             | .18                             | .19 | .20                             | .22 | .24                             | .26 | .31  | .36  | .48  | .65  |
|                 | .17       | .18                             | .18                             | .20 | .22                             | .25 | .27                             | .30 | .36  | .43  | .60  | .82  |
| 4 ft. 0 in.     | .22       | .23                             | .24                             | .25 | .27                             | .29 | .32                             | .34 | .41  | .48  | .64  | .87  |
|                 | .22       | .24                             | .24                             | .26 | .29                             | .33 | .36                             | .40 | .48  | .58  | .80  | 1.09 |
| 5 ft. 0 in.     | .28       | .29                             | .30                             | .31 | .34                             | .37 | .40                             | .43 | .51  | .59  | .80  | 1.08 |
|                 | .28       | .29                             | .30                             | .33 | .37                             | .41 | .45                             | .49 | .60  | .72  | 1.00 | 1.37 |
| 6 ft. 0 in.     | .33       | .35                             | .36                             | .38 | .41                             | .44 | .48                             | .51 | .61  | .71  | .97  | 1.30 |
|                 | .34       | .35                             | .36                             | .39 | .44                             | .49 | .54                             | .59 | .72  | .87  | 1.20 | 1.64 |
| 7 ft. 0 in.     | .39       | .40                             | .41                             | .44 | .47                             | .52 | .55                             | .60 | .71  | .83  | 1.13 | 1.52 |
|                 | .39       | .41                             | .43                             | .46 | .51                             | .58 | .63                             | .69 | .84  | 1.01 | 1.41 | 1.92 |
| 8 ft. 0 in.     | .44       | .46                             | .47                             | .50 | .54                             | .59 | .63                             | .68 | .81  | .95  | 1.29 | 1.73 |
|                 | .45       | .47                             | .49                             | .52 | .59                             | .66 | .72                             | .79 | .96  | 1.16 | 1.61 |      |
| 9 ft. 0 in.     | .50       | .52                             | .53                             | .56 | .61                             | .66 | .71                             | .77 | .92  | 1.07 | 1.45 |      |
|                 | .50       | .53                             | .55                             | .59 | .66                             | .74 | .81                             | .89 | 1.08 | 1.30 |      |      |
| 10 ft. 0 in.    | .56       | .58                             | .59                             | .63 | .69                             | .74 | .79                             | .85 | 1.02 | 1.19 | 1.61 |      |
|                 | .56       | .59                             | .61                             | .65 | .74                             | .82 | .90                             | .99 | 1.20 | 1.44 |      |      |

Top values are for Schedule 10 pipe; bottom values are for Schedule 40 pipe.

## PIPE CHARTS

| 1" Pipe Size - 1.313" O.D. |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Schedule No.               | 40    | 80    | 160   |       |
| Wall Designation           | Std.  | XS    |       | XXS   |
| Thickness - In.            | 0.133 | 0.179 | 0.250 | 0.358 |
| Pipe - Lbs/Ft.             | 1.68  | 2.17  | 2.84  | 3.66  |
| Water - Lbs/Ft.            | 0.37  | 0.31  | 0.23  | 0.12  |

| 1-1/4" Pipe Size - 1.660" O.D. |       |       |      |       |
|--------------------------------|-------|-------|------|-------|
| Schedule No.                   | 40    | 80    | 160  |       |
| Wall Designation               | Std.  | XS    |      | XXS   |
| Thickness - In.                | 0.140 | 0.191 | 0.25 | 0.382 |
| Pipe - Lbs/Ft.                 | 2.27  | 3.00  | 3.76 | 5.22  |
| Water - Lbs/Ft.                | 0.65  | 0.56  | 0.46 | 0.27  |

| 1-1/2" Pipe Size - 1.900" O.D. |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|
| Schedule No.                   | 40    | 80    | 160   |       |
| Wall Designation               | Std.  | XS    |       | XXS   |
| Thickness - In.                | 0.145 | 0.200 | 0.281 | 0.400 |
| Pipe - Lbs/Ft.                 | 2.72  | 3.63  | 4.87  | 6.41  |
| Water - Lbs/Ft.                | 0.88  | 0.77  | 0.61  | 0.41  |

| 2" Pipe Size - 2.375" O.D. |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Schedule No.               | 40    | 80    | 160   |       |
| Wall Designation           | Std.  | XS    |       | XXS   |
| Thickness - In.            | 0.154 | 0.218 | 0.343 | 0.436 |
| Pipe - Lbs/Ft.             | 3.65  | 5.02  | 7.45  | 9.03  |
| Water - Lbs/Ft.            | 1.46  | 1.28  | 0.97  | 0.77  |

| 2-1/2" Pipe Size - 2.875" O.D. |       |       |       |       |
|--------------------------------|-------|-------|-------|-------|
| Schedule No.                   | 40    | 80    | 160   |       |
| Wall Designation               | Std.  | XS    |       | XXS   |
| Thickness - In.                | 0.203 | 0.276 | 0.375 | 0.552 |
| Pipe - Lbs/Ft.                 | 5.79  | 7.66  | 10.0  | 13.7  |
| Water - Lbs/Ft.                | 2.08  | 1.84  | 1.54  | 1.07  |

| 3" Pipe Size - 3.500" O.D. |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Schedule No.               | 40    | 80    | 160   |       |
| Wall Designation           | Std.  | XS    |       | XXS   |
| Thickness - In.            | 0.216 | 0.300 | 0.438 | 0.600 |
| Pipe - Lbs/Ft.             | 7.58  | 10.3  | 14.3  | 18.6  |
| Water - Lbs/Ft.            | 3.2   | 2.86  | 2.34  | 1.80  |

| 3-1/2" Pipe Size - 4.000" O.D. |       |       |       |
|--------------------------------|-------|-------|-------|
| Schedule No.                   | 40    | 80    |       |
| Wall Designation               | Std.  | XS    | XXS   |
| Thickness - In.                | 0.266 | 0.318 | 0.636 |
| Pipe - Lbs/Ft.                 | 9.11  | 12.51 | 22.85 |
| Water - Lbs/Ft.                | 4.28  | 3.85  | 2.53  |

| 4" Pipe Size - 4.500" O.D. |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Schedule No.               | 40    | 80    | 120   | 160   |
| Wall Designation           | Std.  | XS    |       | XXS   |
| Thickness - In.            | 0.237 | 0.337 | 0.437 | 0.531 |
| Pipe - Lbs/Ft.             | 10.8  | 15.0  | 19.0  | 22.5  |
| Water - Lbs/Ft.            | 5.51  | 4.98  | 4.47  | 4.02  |

| 5" Pipe Size - 5.563" O.D. |       |       |       |       |
|----------------------------|-------|-------|-------|-------|
| Schedule No.               | 40    | 80    | 120   | 160   |
| Wall Designation           | Std.  | XS    |       | XXS   |
| Thickness - In.            | 0.258 | 0.375 | 0.500 | 0.625 |
| Pipe - Lbs/Ft.             | 14.6  | 20.8  | 27.4  | 32.9  |
| Water - Lbs/Ft.            | 8.66  | 7.89  | 7.06  | 7.33  |

| 6" Pipe Size - 6.625" O.D. |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|
| Schedule No.               | 40    | 80    | 120   | 160   |       |
| Wall Designation           | Std.  | XS    |       |       | XXS   |
| Thickness - In.            | 0.280 | 0.432 | 0.562 | 0.718 | 0.864 |
| Pipe - Lbs/Ft.             | 19.0  | 28.6  | 36.4  | 45.3  | 53.2  |
| Water - Lbs/Ft.            | 12.5  | 11.3  | 10.3  | 9.16  | 8.14  |

| 8" Pipe Size - 8.625" O.D. |       |       |       |       |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Schedule No.               | 30    | 40    | 60    | 80    | 100   | 120   | 140   |       | 160   |
| Wall Designation           |       | Std.  |       | XS    |       |       |       | XXS   |       |
| Thickness - In.            | 0.277 | 0.322 | 0.406 | 0.500 | 0.593 | 0.718 | 0.812 | 0.875 | 0.906 |
| Pipe - Lbs/Ft.             | 24.70 | 28.55 | 35.64 | 43.4  | 50.9  | 60.6  | 67.8  | 72.4  | 74.7  |
| Water - Lbs/Ft.            | 22.18 | 21.69 | 20.79 | 19.8  | 18.8  | 17.6  | 16.7  | 16.1  | 15.8  |

| 10" Pipe Size - 10.750" O.D. |       |       |       |       |       |       |       |       |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|
| Schedule No.                 | 30    | 40    | 60    | 80    | 100   | 120   | 140   | 160   |
| Wall Designation             |       | Std.  | XS    |       |       |       |       |       |
| Thickness - In.              | 0.307 | 0.365 | 0.500 | 0.593 | 0.718 | 0.843 | 1.000 | 1.125 |
| Pipe - Lbs/Ft.               | 34.24 | 40.5  | 54.7  | 64.3  | 76.9  | 89.2  | 104.1 | 115.7 |
| Water - Lbs/Ft.              | 34.98 | 34.1  | 32.3  | 31.1  | 29.5  | 28.0  | 26.1  | 24.6  |

| 12" Pipe Size - 12.750" O.D. |       |       |       |       |       |       |       |       |       |
|------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Schedule No.                 | 30    |       | 40    |       | 80    | 100   | 120   | 140   | 160   |
| Wall Designation             |       | Std.  |       | XS    |       |       |       |       |       |
| Thickness - In.              | 0.330 | 0.375 | 0.406 | 0.500 | 0.687 | 0.843 | 1.000 | 1.125 | 1.312 |
| Pipe - Lbs/Ft.               | 43.8  | 49.6  | 53.5  | 65.4  | 88.5  | 107.2 | 125.5 | 139.7 | 160.3 |
| Water - Lbs/Ft.              | 49.7  | 49.0  | 48.5  | 47.0  | 44.0  | 41.6  | 39.3  | 37.5  | 34.9  |

| 14" Pipe Size - 14.0" O.D. |       |       |       |       |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Schedule No.               | 20    | 30    | 40    |       | 80    | 100   | 120   | 140   | 160   |
| Wall Designation           |       | Std.  |       | XS    |       |       |       |       |       |
| Thickness - In.            | 0.312 | 0.375 | 0.437 | 0.500 | 0.750 | 0.937 | 1.093 | 1.250 | 1.406 |
| Pipe - Lbs/Ft.             | 45.7  | 54.6  | 63.4  | 72.1  | 106.1 | 130.7 | 150.7 | 170.2 | 189.1 |
| Water - Lbs/Ft.            | 60.92 | 59.7  | 58.7  | 57.5  | 53.2  | 50.0  | 47.5  | 45.0  | 42.6  |

| 16" Pipe Size - 16.0" O.D. |       |       |       |       |       |       |       |       |  |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|--|
| Schedule No.               | 20    | 30    | 40    | 80    | 100   | 120   | 140   | 160   |  |
| Wall Designation           |       | Std.  | XS    |       |       |       |       |       |  |
| Thickness - In.            | 0.312 | 0.375 | 0.500 | 0.843 | 1.031 | 1.218 | 1.437 | 1.593 |  |
| Pipe - Lbs/Ft.             | 52.4  | 62.6  | 82.8  | 136.5 | 164.8 | 192.3 | 223.6 | 245.1 |  |
| Water - Lbs/Ft.            | 80.5  | 79.1  | 76.5  | 69.7  | 66.1  | 62.6  | 58.6  | 55.9  |  |

| 18" Pipe Size - 18.0" O.D. |       |       |       |       |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Schedule No.               | 20    |       | 30    |       | 40    | 60    | 80    | 120   | 160   |
| Wall Designation           |       | Std.  |       | XS    |       |       |       |       |       |
| Thickness - In.            | 0.312 | 0.375 | 0.437 | 0.500 | 0.563 | 0.750 | 0.937 | 1.375 | 1.781 |
| Pipe - Lbs/Ft.             | 59.0  | 70.6  | 82.1  | 93.5  | 104.8 | 138.2 | 170.8 | 244.1 | 308.5 |
| Water - Lbs/Ft.            | 102.8 | 101.2 | 99.9  | 98.4  | 97.0  | 92.7  | 88.5  | 79.2  | 71.0  |

| 20" Pipe Size - 20.0" O.D. |       |       |       |       |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Schedule No.               | 20    | 30    | 40    | 60    | 80    | 100   | 120   | 140   | 160   |
| Wall Designation           | Std.  | XS    |       |       |       |       |       |       |       |
| Thickness - In.            | 0.375 | 0.500 | 0.593 | 0.812 | 1.031 | 1.281 | 1.500 | 1.750 | 1.968 |
| Pipe - Lbs/Ft.             | 78.6  | 104.1 | 122.9 | 166.4 | 208.9 | 256.1 | 296.4 | 341.1 | 379.0 |
| Water - Lbs/Ft.            | 126.0 | 122.8 | 120.4 | 115.0 | 109.4 | 103.4 | 98.3  | 92.6  | 87.9  |

| 24" Pipe Size - 24.0" O.D. |       |       |       |       |       |       |       |       |       |
|----------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Schedule No.               | 20    |       | 40    | 60    | 80    | 100   | 120   | 140   | 160   |
| Wall Designation           | Std.  | XS    |       |       |       |       |       |       |       |
| Thickness - In.            | 0.375 | 0.500 | 0.687 | 0.968 | 1.218 | 1.531 | 1.812 | 2.062 | 2.343 |
| Pipe - Lbs/Ft.             | 94.6  | 125.5 | 171.2 | 238.1 | 296.4 | 367.4 | 429   | 484   | 541   |
| Water - Lbs/Ft.            | 183.8 | 180.1 | 174.3 | 165.8 | 158.3 | 149.3 | 141   | 134   | 127   |

## THREADED ROD LOAD RATINGS

| Threaded Rod Load Rating  |                       |                                         |        |
|---------------------------|-----------------------|-----------------------------------------|--------|
| Nominal Rod Diameter, In. | Root Area Thread, In. | Maximum Safe Load, Lbs Rod Temperatures |        |
|                           |                       | 650°F                                   | 750°F  |
| 3/8"                      | 0.068                 | 610                                     | 540    |
| 1/2"                      | 0.128                 | 1,130                                   | 1,010  |
| 5/8"                      | 0.202                 | 1,810                                   | 1,610  |
| 3/4"                      | 0.302                 | 2,710                                   | 2,420  |
| 7/8"                      | 0.419                 | 3,770                                   | 3,360  |
| 1"                        | 0.552                 | 4,960                                   | 4,420  |
| 1-1/8"                    | 0.693                 | 6,230                                   | 5,560  |
| 1-1/4"                    | 0.889                 | 8,000                                   | 7,140  |
| 1-1/2"                    | 1.293                 | 11,630                                  | 10,370 |
| 1-3/4"                    | 1.744                 | 15,700                                  | 14,000 |
| 2"                        | 2.300                 | 20,700                                  | 18,460 |

| Rod Size as Determined by Pipe Size |          |
|-------------------------------------|----------|
| Pipe Size                           | Rod Size |
| 3/4" to 2" Inclusive                | 3/8"     |
| 2-1/2" to 3-1/2"                    | 1/2"     |
| 4" and 5"                           | 5/8"     |
| 6"                                  | 3/4"     |
| 8" to 12" Inclusive                 | 7/8"     |

## WATER FILLED PIPE WEIGHTS

| WATER FILLED PIPE WEIGHTS<br>FOR PIPE HANGERS LOCATED ON 6 FT CENTERS<br>AT 1/4 SPAN FROM EACH END |       |        |       |       |       |       |       |        |        |
|----------------------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|-------|-------|--------|--------|
| SIZE                                                                                               | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 6"    | 8"    | 10"    | 12"    |
| SCH 40 PIPE WEIGHT PER FT (LBS)                                                                    | 3.65  | 5.79   | 7.57  | 10.78 | 14.60 | 18.95 | 28.52 | 40.44  | 53.47  |
| WATER WEIGHT PER FT (LBS)                                                                          | 1.45  | 2.07   | 3.20  | 5.51  | 8.67  | 12.52 | 21.67 | 34.16  | 48.49  |
| TOTAL WEIGHT PER FT (LBS)                                                                          | 5.10  | 7.86   | 10.77 | 16.29 | 23.27 | 31.47 | 50.20 | 74.60  | 101.96 |
| PIPE HANGER CENTERS (FT)                                                                           | 6     | 6      | 6     | 6     | 6     | 6     | 6     | 6      | 6      |
| TOTAL WEIGHT PER 6 FT CENTER<br>- ONE PIPE (LBS)                                                   | 31    | 47     | 65    | 98    | 140   | 189   | 301   | 448    | 612    |
| TOTAL WEIGHT PER 6 FT CENTER<br>- TWO PIPES (LBS)                                                  | 61    | 94     | 129   | 196   | 279   | 378   | 602   | 895    | 1,223  |
| RECOMMENDED 3 FT SPAN<br>PIPE HANGER TOP BEAM                                                      | H-132 | H-132  | H-132 | H-132 | H-132 | H-132 | H-122 | H-112  | H-112  |
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| WATER FILLED PIPE WEIGHTS<br>FOR PIPE HANGERS LOCATED ON 8 FT CENTERS<br>AT 1/4 SPAN FROM EACH END |       |        |       |       |       |       |        |        |        |
|----------------------------------------------------------------------------------------------------|-------|--------|-------|-------|-------|-------|--------|--------|--------|
| SIZE                                                                                               | 2"    | 2-1/2" | 3"    | 4"    | 5"    | 6"    | 8"     | 10"    | 12"    |
| SCH 40 PIPE WEIGHT PER FT (LBS)                                                                    | 3.65  | 5.79   | 7.57  | 10.78 | 14.60 | 18.95 | 28.52  | 40.44  | 53.47  |
| WATER WEIGHT PER FT (LBS)                                                                          | 1.45  | 2.07   | 3.20  | 5.51  | 8.67  | 12.52 | 21.67  | 34.16  | 48.49  |
| TOTAL WEIGHT PER FT (LBS)                                                                          | 5.10  | 7.86   | 10.77 | 16.29 | 23.27 | 31.47 | 50.20  | 74.60  | 101.96 |
| PIPE HANGER CENTERS (FT)                                                                           | 8     | 8      | 8     | 8     | 8     | 8     | 8      | 8      | 8      |
| TOTAL WEIGHT PER 8 FT CENTER<br>- ONE PIPE (LBS)                                                   | 41    | 63     | 86    | 130   | 186   | 252   | 402    | 597    | 816    |
| TOTAL WEIGHT PER 8 FT CENTER<br>- TWO PIPES (LBS)                                                  | 82    | 126    | 172   | 261   | 372   | 504   | 803    | 1,194  | 1,631  |
| RECOMMENDED 3 FT SPAN<br>PIPE HANGER TOP BEAM                                                      | H-132 | H-132  | H-132 | H-132 | H-132 | H-122 | H-112  | H-112  | H-122A |
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| RECOMMENDED 6 FT SPAN<br>PIPE HANGER TOP BEAM                                                      | H-132 | H-132  | H-132 | H-122 | H-122 | H-112 | H-122A | H-112A | H-112A |

## MAXIMUM SPACING BETWEEN SUPPORTS

| Nominal Tube Size, In. | 1/2" | 3/4" | 1" | 1 1/2" | 2" | 2 1/2" | 3" | 3 1/2" | 4" |
|------------------------|------|------|----|--------|----|--------|----|--------|----|
| Maximum Span, Ft.      | 5    | 6    | 6  | 8      | 9  | 10     | 10 | 11     | 12 |

| Nominal Pipe Size, In. |             | 1/2" | 3/4" | 1" | 1 1/2" | 2" | 2 1/2" | 3" | 3 1/2" | 4" | 5" | 6" | 8" | 10" | 12" | 14" | 16" | 18" | 20" | 24" |
|------------------------|-------------|------|------|----|--------|----|--------|----|--------|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|
| Maximum Span, Ft.      | Water       | 5    | 6    | 7  | 9      | 10 | 11     | 12 | 13     | 14 | 16 | 17 | 19 | 22  | 23  | 25  | 27  | 28  | 30  | 32  |
|                        | Air & Steam | -    | -    | 9  | 11     | 13 | 14     | 15 | 16     | 17 | 19 | 21 | 24 | 28  | 30  | 32  | 35  | 37  | 39  | 42  |

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### SPECIALTY STRUT

(Stainless Steel (SS) • Zinc Trivalent Chromium (ZTC) • Hot Dipped Galvanized (HG))

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(Stainless Steel (SS) • Zinc Trivalent Chromium (ZTC) • Hot Dipped Galvanized (HG))

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#### H-BLOCK ROOFTOP SUPPORT SYSTEMS

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## Copper Tubing Hangers



**Fig. CT-65**  
Light Duty Adjustable Clevis  
Size Range: 1/2" - 4"



**Fig. CT-69**  
Adjustable Swivel Ring  
Size Range: 1/2" - 4"



**Fig. 67F**  
Copper Tube  
Felt Lined Hanger  
Size Range: 1/2" - 6"



**Fig. 69F**  
Copper Tube  
Adj. Swivel Ring  
Size Range: 1/2" - 6"



**Fig. CT-121**  
Copper Tubing Riser Clamp  
Size Range: 1/2" - 4"



**Fig. CT-128R**  
Rod Threaded Ceiling Flange  
Sizes: 3/8" - 1/2"



**Fig. CT-138R**  
Extensions Split Tubing Clamp  
Size Range: 1/2" - 2"



**Fig. CT-255**  
Copper Tubing  
Alignment Guide  
Size Range: 1" - 4"

## Steel Pipe Clamps



**Fig. 261**  
Extension Pipe or  
Riser Clamp  
Size Range: 3/4" - 24"



**Fig. 40**  
Riser Clamp Standard  
Size Range: 2" - 24"



**Fig. 103**  
Offset Pipe Clamp  
Size Range: 3/4" - 8"



**Fig. 100**  
Extended Pipe Clamp  
Size Range: 1/2" - 8"



**Fig. 212**  
Medium Pipe Clamp  
Size Range: 1/2" - 30"



**Fig. 212FP**  
Earthquake Bracing Clamp  
Size Range: 2 1/2" - 12"



**Fig. 216**  
Heavy Pipe Clamp  
Size Range: 3" - 42"



**Fig. 295**  
Double Bolt Pipe Clamp  
Size Range: 3/4" - 36"



**Fig. 295A**  
Alloy Double Bolt Pipe Clamp  
Size Range: 1 1/2" - 24"



**Fig. 295H**  
Heavy Duty Double Bolt  
Pipe Clamp  
Size Range: 6" - 36"



**Fig. 224 & 246**  
Alloy Steel Pipe Clamp  
Size Range: 4" - 24"

## CPVC Pipe Hangers



**Fig. 185**  
One Hole Pipe Strap  
Size Range: 3/4" - 2"



**Fig. 186**  
Two Hole Pipe Strap  
Size Range: 3/4" - 2"



**Fig. 187**  
Two Hole 90° Side  
Mount Strap  
Size Range: 3/4" - 2"



**Fig. 188**  
Two Hole Stand Off Strap  
Size Range: 3/4" - 2"

## Clevis



**Fig. 65**  
Light Duty Adjustable Clevis  
Size Range: 3/8" - 4"



**Fig. 67**  
Pipe or Conduit Hanger  
Size Range: 1/2" - 6"



**Fig. 260**  
Adjustable Clevis Hanger  
Size Range: 1/2" - 30"



**Fig. 260 ISS**  
Clevis Hanger with  
Insulation Saddle System  
Size Range: 2" - 16"



**Fig. 300**  
Adjustable Clevis for  
Insulated Lines  
Size Range: 3/4" - 12"



**Fig. 590**  
Adjustable Clevis for  
Ductile or Cast Iron  
Size Range: 3" - 24"

## Beam Clamps



Fig. 86 & 88  
C-Clamp with Set  
Screw and Lock Nut  
Size Range:  $\frac{3}{8}$ " -  $\frac{3}{4}$ "



Fig. 95  
C-Clamp with Lock Nut  
Sizes:  $\frac{3}{8}$ " and  $\frac{1}{2}$ "



Fig. 89  
Retaining Clip  
Size Range:  $\frac{3}{8}$ " -  $\frac{1}{2}$ "



Fig. 89X  
Retaining Clip  
Size Range:  $\frac{3}{8}$ " -  $\frac{3}{4}$ "



Fig. 92  
Universal C-Type Clamp  
Standard Throat  
Sizes:  $\frac{3}{8}$ " and  $\frac{1}{2}$ "



Fig. 93  
Universal C-Type Clamp  
Wide Throat  
Sizes:  $\frac{3}{8}$ " and  $\frac{1}{2}$ "



Fig. 94  
Wide Throat Top Beam  
C-Clamp  
Sizes:  $\frac{5}{8}$ " and  $\frac{3}{4}$ "



Fig. 227  
Top Beam Clamp



Fig. 217  
Adjustable Side  
Beam Clamp  
Size Range: 3" -  $7\frac{5}{8}$ "



Fig. 14  
Adjustable Side  
Beam Clamp  
Sizes:  $\frac{3}{8}$ " -  $\frac{5}{8}$ "



Fig. 133  
Standard Duty Beam  
Clamp  
Size Range: 4" - 12"



Fig. 134  
Heavy Duty Beam  
Clamp  
Size Range: 4" - 12"



Fig. 218  
Malleable Beam Clamp  
without Extension Piece



Fig. 228  
Universal Forged Steel  
Beam Clamp



Fig. 292 & 292L  
Universal Forged Steel  
Beam Clamp with  
Weldless Eye Nut

## Socket Clamps



Fig. 595 & Fig. 594  
Socket Clamp  
for Ductile Iron or Cast Iron Pipe  
& Socket Clamp Washer  
Size Range: 4" - 24" pipe



Fig. 600 & Fig. 599  
Socket Clamp  
for Ductile Iron or Cast Iron Pipe  
& Socket Clamp Washer  
Size Range: 3" - 24" pipe

## Ceiling Plates



Fig. 395  
Cast Iron Ceiling Plate  
Size Range:  $\frac{1}{2}$ " - 8"



Fig. 127  
Plastic Ceiling Plate  
Sizes:  $\frac{3}{8}$ " and  $\frac{1}{2}$ "



Fig. 128R  
Rod Threaded, Ceiling Flange  
Sizes:  $\frac{3}{8}$ " and  $\frac{1}{2}$ "



Fig. 153  
Pipe Hanger Flange  
Size Range:  $\frac{3}{8}$ " -  $\frac{3}{4}$ "

## U-Bolts



Fig. 137 & 137S  
Standard U-Bolt  
Size Range:  $\frac{1}{2}$ " - 36"



Fig. 137C  
Plastic Coated U-Bolt  
Size Range:  $\frac{1}{2}$ " - 8"



Fig. 120  
Light Weight U-Bolt  
Size Range:  $\frac{1}{2}$ " - 10"

## Trapeze



Fig. 46  
Universal Trapeze Assembly



Fig. 45  
Channel Assembly



Fig. 50  
Equal Leg Angle for Trapeze  
Assembly

## Brackets



Fig. 202  
Iron Side Beam Bracket  
Size Range:  
 $\frac{3}{8}$ " -  $\frac{5}{8}$ "



Fig. 206  
Steel Side Beam Bracket  
Size Range:  
 $\frac{3}{8}$ " -  $\frac{5}{8}$ "



Fig. 207  
Threaded Steel Side  
Beam Bracket  
Sizes:  $\frac{3}{8}$ " and  $\frac{1}{2}$ "



Fig. 194  
Light Welded  
Steel Bracket



Fig. 195  
Medium Welded  
Steel Bracket



Fig. 199  
Heavy Welded  
Steel Bracket

## Concrete Inserts & Attachments



**Fig. 152**  
Screw Concrete Insert  
Size Range:  $\frac{3}{8}$ " -  $\frac{7}{8}$ "



**Fig. 282**  
Universal  
Concrete Insert  
Size Range:  $\frac{3}{8}$ " -  $\frac{7}{8}$ "



**Fig. 281**  
Wedge Type  
Concrete Insert  
Size Range:  $\frac{1}{4}$ " -  $\frac{7}{8}$ "



**Fig. 285**  
Light Weight Concrete  
Insert  
Size Range:  $\frac{1}{4}$ " -  $\frac{5}{8}$ "



**Fig. 286**  
Iron Cross  
Size Range:  $\frac{3}{8}$ " -  $1\frac{1}{2}$ "



**Fig. 284**  
Metal Deck Hanger  
Size Range:  $\frac{3}{8}$ " -  $\frac{3}{4}$ "



**Fig. 52**  
Concrete Rod  
Attachment Plate  
Size Range:  $\frac{3}{8}$ " -  $1\frac{1}{4}$ "



**Fig. 47**  
Concrete Single Lug  
Plate  
Size Range:  $\frac{1}{2}$ " -  $2$ "



**Fig. 49**  
Concrete Clevis Plate  
Size Range:  $\frac{3}{8}$ " -  $1\frac{3}{4}$ "

## Pipe Supports



**Fig. 62**  
Type A, B & C  
Pipe Stanchion  
Size Range:  $2$ " -  $18$ "



**Fig. 63**  
Type A, B & C  
Pipe Stanchion  
Size Range:  $2\frac{1}{2}$ " -  $42$ "



**Fig. 192**  
Adjustable Pipe Saddle  
Size Range:  $2$ " -  $12$ "



**Fig. 191**  
Adjustable Pipe  
Saddle with U-Bolt  
Size Range:  $2$ " -  $12$ "



**Fig. 264**  
Adjustable Pipe  
Saddle Support  
Size Range:  $2\frac{1}{2}$ " -  $36$ "



**Fig. 265**  
Adjustable Pipe Saddle  
Support with U-Bolt  
Size Range:  $4$ " -  $36$ "



**Fig. 258**  
Pipe Stanchion Saddle  
Size Range:  $4$ " -  $36$ "



**Fig. 259**  
Pipe Saddle Support  
with U-Bolt  
Size Range:  $4$ " -  $36$ "

## Pipe Rings



**Fig. 108**  
Split Pipe Ring  
Size Range:  $\frac{3}{8}$ " -  $8$ "



**Fig. 138R**  
Extension Split Pipe Clamp  
Size Range:  $\frac{3}{8}$ " -  $3$ "



**Fig. 104**  
Adjustable Swivel Ring, Split Ring Type  
Size Range:  $\frac{3}{4}$ " -  $8$ "



**Fig. 69**  
Adjustable Swivel Ring  
Size Range:  $\frac{1}{2}$ " -  $8$ "

## Hanger Rods & Accessories

**Fig. 142**  
Coach Screw Rods  
Machine Threaded on  
Opposite End  
Size Range:  $\frac{3}{8}$ " -  $\frac{1}{2}$ "



**Fig. 248**  
Eye Rod Not Welded  
Size Range:  $\frac{3}{8}$ " -  $2\frac{1}{2}$ "



**Fig. 146**  
Continuous Thread  
Size Range:  $\frac{1}{4}$ " -  $1\frac{1}{2}$ "  
*Stocked in six, ten & twelve foot  
lengths. Other even foot lengths  
can be furnished to order.*



**Fig. 278**  
Eye Rod Welded  
Size Range:  $\frac{3}{8}$ " -  $2\frac{1}{2}$ "

**Fig. 140 & 253**  
Machine Threaded Rods  
Threaded on Both Ends  
Size Range:  $\frac{3}{8}$ " -  $5$ "



**Fig. 248X**  
Linked Eye Rods  
Size Range:  $\frac{3}{8}$ " -  $2\frac{1}{2}$ "

**Fig. 278X**  
Linked Eye Rods Welded  
Size Range:  $\frac{3}{8}$ " -  $2\frac{1}{2}$ "



**Fig. 148**  
Rod with Eye End  
Size Range:  $2\frac{3}{4}$ " -  $5$ "

**Fig. 135 & Fig. 135E**  
Straight Rod Coupling  
Size Range:  $\frac{1}{4}$ " -  $1$ "



**Fig. 136 & Fig. 136R**  
Straight Rod Coupling  
Size Range:  $\frac{1}{4}$ " -  $1$ "



**Fig. 114**  
Turnbuckle Adjuster  
Size Range:  $\frac{1}{4}$ " -  $\frac{3}{4}$ "



**Fig. 110R**  
Socket, Rod Threaded  
Size Range:  $\frac{1}{4}$ " -  $\frac{7}{8}$ "



**Fig. 157**  
Extension Piece  
Size Range:  $\frac{3}{8}$ " -  $\frac{7}{8}$ "



**Fig. 299**  
Forged Steel Clevis  
Size Range:  $\frac{3}{8}$ " -  $4$ "



**Fig. 233**  
Turnbuckle  
Size Range:  $1\frac{1}{4}$ " -  $5$ "



**Fig. 230**  
Turnbuckle  
Size Range:  $\frac{3}{8}$ " -  $2\frac{1}{2}$ "



**Fig. 290**  
Weldless Eye Nut  
Size Range:  $\frac{3}{8}$ " -  $2\frac{1}{2}$ "



**Fig. 291**  
Clevis Pin with Cotters  
Size Range:  $\frac{1}{2}$ " -  $4$ "



## Straps



Fig. 126  
One-Hole Clamp  
Size Range:  $\frac{3}{8}$ " - 4"



Fig. 243  
Pipe Strap  
Size Range:  $\frac{1}{2}$ " - 6" pipe



Fig. 262  
Strap Short  
Size Range:  $\frac{1}{2}$ " - 4"



Fig. 244  
Pipe Strap  
Size Range:  $\frac{1}{2}$ " - 6" pipe

## Pipe Rolls



Fig. 177  
Adjustable Pipe  
Roll Support  
Size Range: 1" - 30"



Fig. 171  
Single Pipe Roll  
Size Range: 1" - 30"



Fig. 178  
Spring Cushion Hanger



Fig. 181  
Adjustable Steel Yoke Pipe Roll  
Size Range: 2 $\frac{1}{2}$ " - 24"



Fig. 175  
Roller Chair  
Size Range: 2" - 30" pipe



Fig. 277  
Pipe Roll & Base Plate  
Size Range: 2" - 24"



Fig. 271  
Pipe Roll Stand  
Size Range: 2" - 42"



Fig. 274, 274P & 275  
Adjustable Pipe  
Roll Stand  
Size Range: 2" - 42"



Fig. 75LL  
Longitudinal & Lateral  
Roller



Fig. 76CP  
Non-Conductive Roller

## Pipe Shields & Saddles



Fig. 167  
Insulation Protection Shield  
Size Range:  $\frac{1}{2}$ " thru 24" pipe with  
up to 2" thick insulation.

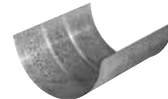


Fig. 168  
Rib-Lok Shield  
Size Range:  $\frac{1}{2}$ " thru 8" pipe or copper  
tube with up to 2" thick insulation.



Fig. 160 to 166A  
Pipe Covering Protection Saddle  
Size Range:  $\frac{3}{4}$ " thru 36"

## Pipe Guides & Slides



Fig. 255  
Pipe Alignment Guide  
Size Range: 1" - 24" pipe and  
insulation thickness of 1" thru 4"  
(Also available in copper tube sizes)



Fig. 256  
Pipe Alignment Guide  
Size Range: 1" - 24" pipe and  
insulation thickness of 1" thru 4"



Fig. 257 & 257A  
Structural Tee  
Slide Assembly  
Size Range: All Sizes within  
Maximum Load Rating

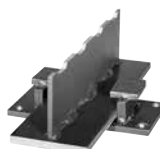


Fig. 436 & 436A  
Fabricated Tee  
Slide Assembly  
Size Range: All Sizes within  
Maximum Load Rating



Fig. 439 & 439A  
Structural "H"  
Slide Assembly  
Size Range: 6" - 36"



Fig. 432  
Special Clamp  
Size Range: 2" - 24"



Fig. 212  
Medium Pipe Clamp  
Size Range: 2" - 30"

## Sway Strut Assembly



Fig. 211, C-211, 640, C-640  
Sway Strut Assembly



Fig. 222 & C-222  
Mini-Sway Strut Assembly

## Structural Attachments



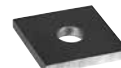
**Fig. 55 & Fig. 55L**  
Structural Welding Lug  
Size Range:  
Fig. 55: 1/2" - 3 3/4"  
Fig. 55L: 1/2" - 2"



**Fig. 54**  
Two Hole Welding Beam Lug  
Size Range: 1/2" - 2 1/4"



**Fig. 112 & 113**  
Brace Fitting Complete  
Sizes: 1" and 1 1/4"



**Fig. 60**  
Steel Washer Plate  
Size Range: 3/8" - 3 3/4"



**Fig. 66**  
Welded Beam Attachment  
Size Range: 3/8" - 3 1/2"

## Stainless Steel Hangers NEW



**Fig. 137SS**  
Standard U-Bolt  
Size Range: 1/2" - 12"



**Fig. 260SS**  
Adjustable Clevis Hanger  
Size Range: 1/2" - 12"



**Fig. 261SS**  
Extension Pipe or Riser Clamp  
Size Range: 1/2" - 8"



**Fig. 590SS**  
Adjustable Clevis for Ductile  
or C.I. Pipe  
Size Range: 4" - 12"

## Snubbers



**Fig. 3306 & 3307**  
Hydraulic Shock & Sway  
Suppressor (Snubber)  
Size Range: Seven standard sizes  
with load ratings from 350 to  
50,000 (LBS).



**Fig. 312**  
Tapered Pin  
Size Range: 3/8" - 2 1/2"



**Fig. 200 & C-200 / Fig. 201 & C-201**  
Hydraulic Shock & Sway Suppressor (Snubber)  
Size Range: Nine standard sizes with cylinder bores of 1 1/2" to 8" with  
normal load ratings from 3,000 (LBS) to 128,000 (LBS). All are  
available with 5", 10", 15" or 20" strokes except the 1 1/2" size which is  
offered with 5" and 10" strokes only. Snubbers are available with  
integral or remote reservoirs.

## Constant Supports



**Model R 80-V**  
Vertical Constant Support



**Model R 81-H**  
Horizontal Constant Support

Size Range: Anvil Model R constant support hangers are made in two basic designs, 80-V & 81-H constant supports are made in nine different frame sizes & 110 spring sizes to accommodate travels from 1 1/2" to 20" & loads from 27 lbs to 87,500 lbs.

## Spring Hangers



**Fig. 82 & C-82**  
Short Spring



**Fig. B-268 & C-268**  
Standard Spring



**Fig. 98 & C-98**  
Double Spring

Triple Spring,  
Triple Spring-CR

Quadruple Spring,  
Quadruple Spring-CR

## Horizontal Traveler & Sway Brace



**Fig. 170**  
Horizontal Traveler  
Size Range: Available in Four  
Sizes to Take Loads to 20,700  
(LBS). All sizes provide for  
12" of Horizontal Travel.



**Fig. 296, 297, 298,  
301, 302, 303**  
Sway Brace  
Size Range: Pre Loads from  
50 to 1,800 Pounds &  
maximum forces from 200  
to 7,200 Pounds.













# BRANDS OF ANVIL INTERNATIONAL



Anvil product lines include malleable and cast iron fittings, unions and flanges; seamless and welded steel pipe nipples; steel pipe couplings; universal anvilets; forged steel fittings and unions; pipe hangers and supports; threaded rod; and engineered hangers



The SPF/Anvil product line includes a variety of internationally sourced products such as grooved couplings, fittings, cast iron, malleable iron and ductile iron threaded fittings, steel pipe nipples, as well as tee-lets.



The Grivlok product line consists of couplings for grooved and plain-end fittings, butterfly valves and check valves; flanges; pump protection components; pipe grooving tools; as well as copper and stainless steel system components.

## FLEXHEAD®

We invented the concept of Flexible Fire Protection™. FlexHead systems connect sprinkler heads to sub-mains at least four times faster than hard pipe. Delivers even greater savings in retrofits. All our flexible sprinkler pipe and connections are UL Listed and FM Approved.



The Afcon seismic bracing line includes UL listed and FM approved structural attachments for concrete, wood or steel structural members like bar joist or I-beams, swivel connections that accept from 1" to 2" schedule 40 pipe. Afcon's seismic system attachments are engineered for up to 12" IPS steel pipe, copper tubing or plastic pipe.



Steel pipe nipples and steel pipe couplings are manufactured in accordance with the ASTM A733 Standard Specification for Welded and Seamless Carbon Steel and Stainless Steel Pipe Nipples. Steel pipe couplings are manufactured in accordance with the ASTM A865 Standard Specification for Threaded Couplings, Steel, Black or Zinc-Coated (Galvanized) Welded or Seamless, for Use in Steel Pipe Joints. API couplings are manufactured in accordance with the API Specification for line pipe.



Anvil-Strut products include a complete line of channel in stock lengths of 10 and 20 feet, with custom lengths available upon request. A variety of fittings and accessories are also offered. All products can be ordered in an assortment of finishes and material choices including SupR-Green™, Zinc Trivalent Chromium, pre-galvanized, hot-dipped galvanized, electro-galvanized, aluminum, plain, and stainless steel.



The Merit product line includes a variety of tee-lets and drop nipples for fire protection applications. Most Merit products are UL/ ULC Listed, FM Approved, and rated from 175 to 300 psi.



JB Smith is the leading manufacturer of oil country tubular fittings, swages and bull plugs – all meeting API specifications. Offering tubing nipples, casing nipples as well as a full line of traditional line pipe and oil country threads in every schedule, JB Smith is the resource for all your oilfield needs.



Founded in 1983, NAP is a manufacturer of fabrication equipment, including automatic welders, plasma cut-off equipment, hole cutting equipment, make-on machines and pipe threaders. NAP, innovators of pipe fabrication equipment.



Catawissa hammer unions are offered in threaded ends and butt weld ends, and are interchangeable with most leading union manufacturers. Fully traceable and available with complete mill certifications, Catawissa's oilfield hammer union product line includes the standard ball-and-cone design plus our unique Figure 300 Flat Face design, where space and pipe line separation are a consideration.



Anvil EPS-Engineered Pipe Supports are products used to support piping systems under thermal, seismic, and other dynamic loading conditions. The product line encompasses variable spring hangers, constant supports, sway struts and snubbers as well as standard and special design clamps. Anvil EPS brings the highest quality products and innovative engineering solutions to common and uncommon piping system problems.

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**FAX:** +1-708-534-5441

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ASC Engineered Solutions is defined by quality—in its products, services and support. With more than 1,400 employees, the company's portfolio of precision-engineered piping support, valves and connections provides products to more than 4,000 customers across industries, such as mechanical, industrial, fire protection, oil and gas, and commercial and residential construction. Its portfolio of leading brands includes ABZ Valve®, AFCON®, Anvil®, Anvil EPS, Anvil Services, Basic-PSA, Beck®, Catawissa, Cooplet®, FlexHead®, FPPI®, Gruvlok®, J.B. Smith, Merit®, North Alabama Pipe, Quadrant®, SCI®, Sharpe®, SlideLOK®, SPF® and SprinkFLEX®. With headquarters in Commerce, CA, and Exeter, NH, ASC also has ISO 9001:2015 certified production facilities in PA, TN, IL, TX, AL, LA, KS, and RI.



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