HAYDON®

H-STRUT DIVISION

H-STRUT METAL FRAMING
NO. 14 ENGINEERING CATALOG

HAYDON®

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WHY BUY FROM HAYDON® CORPORATION?

Haydon Corporation is a leading manufacturer of strut metal framing systems, serving the industrial and commercial construction industries, as well as the communications and OEM markets. In addition, Haydon serves the residential and commercial hydronic heating industry with a full line of hot water baseboard heating products.

For over fifty years, Haydon has grown into a recognized manufacturer of its own branded products, including “H-Strut" metal framing systems and “HAYDON" hydronic radiation products.

Haydon’s manufacturing facilities are strategically located in the northeast, and Southwest with stocking distribution locations nationwide. Because of our continuous focus on investment in equipment and technology, our customers are assured of quality products and timely delivery.

Haydon’s seasoned sales staff and advanced engineering department stand ready to meet your every requirement. Our company’s strengths are defined by superior products and, most importantly, the best customer service in the industries we serve.

- **UL Listed Electrical Products**
  - Channel Raceway
  - Channel Raceway Fittings
  - Channel Raceway Base
  - Channel Raceway Closure Strip

UL LISTED

- **LEED CERTIFIABLE**
  - LEED MR Credit 4: Recycled Contend
  - LEED MR Credit 5: Regional Materials
- **Buy American Act Compliant**
- **American Reinvestment Recovery Act Compliant (A.R.R.A)**

- A rigorous quality system guarantees our ability to exceed industry tolerances
- Raw Materials Inspection
- In-line quality checks
- Routine destructive testing
- Routine materials supplier assessments
- Cleanest channel in the framing industry
- Shrink-wrapped painted strut bundles
- Oil-free strut bundles that will keep your warehouses and job sites free of tramp oil
- Complete material traceability with full mill certifications upon request

Demanding clients deserve the best. Haydon Corporation’s commitment to quality ensures that our customers receive unparalleled levels of service -- where knowledgeable sales staff knows the business – and more importantly, your needs.

TEAM HAYDON welcomes the opportunity to prove this to you. We look forward to discussing your strut needs and requirements to help build a mutually rewarding relationship.

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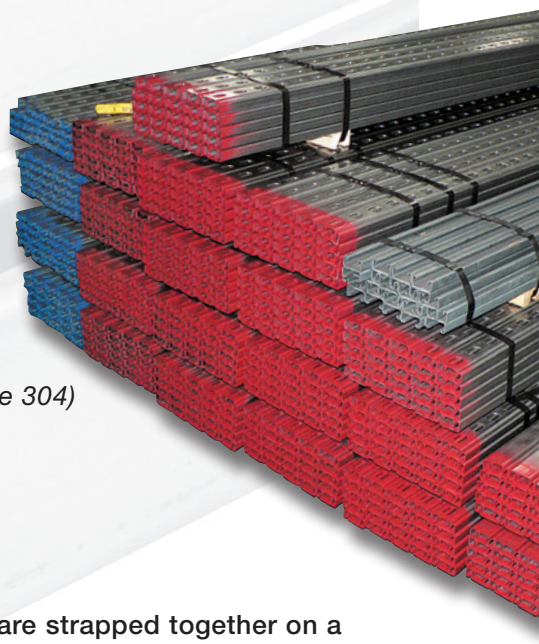
For some projects our customers need to know the origin of the materials within the product. Haydon can provide our customers with complete traceability. The complete history of any part can be tracked. From the point a purchase order is issued to the material suppliers to the point at which the component is shipped, each step in the process can be traced, including the origin and material specifications for the steel used in fabrication of the part.

Haydon delivers the highest quality components, ensures that they are packaged in a convenient manner for the customer and to avoid shipping damage. When required Haydon can provide the complete genealogy of the parts. Our success is based on the success of your project not just piling components on your dock.

Shipping procedures are an integral part of delivering a top quality solution to our customers. First, the products are packaged to minimize the possibility of damage during shipping. Painted channel are wrapped in protective cover to avoid scratches.



Delivering product without damage is a primary objective of any shipping process. We also want to be sure that the customer does not inadvertently mix up product which may look similar. A good example is our stainless steel channel. Type 304 and 316 stainless are easily confused. We avoid that by painting the ends of the channel in red *(type 304)* and blue *(type 316)* so the customer can instantly recognize the desired stainless material.

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.

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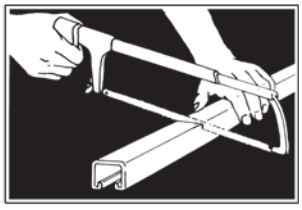
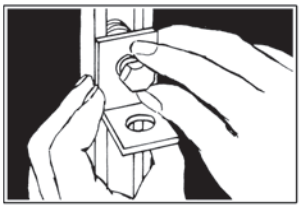
The H-Strut Metal Framing System offers a unique and flexible series of metal channels and fittings designed to fill a wide variety of construction requirements, from supporting sprinkler systems, electrical conduit or any other piping system, to the erection of mezzanines, walkways, or guardrails. H-Strut has also demonstrated its usefulness in a multitude of OEM applications, including such products as scaffolding, conveyors, electronic enclosures, and truck body parts just to name a few.

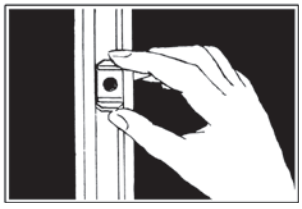
A SAW, A WRENCH, AND H-STRUT®

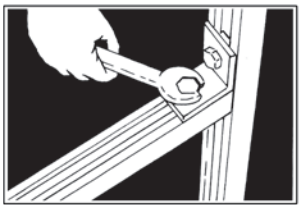
1 Fabrication with H-Strut is simple and fast. First cut the strut channel to the desired length with a hacksaw, chop saw, or powered band saw.

2 Next insert the special grip nut with integrated retaining spring into the channel slot and turn 90 degrees to align the nut grooves with the channel lips. The nut may be slid to any desired location along the entire length of the channel allowing total adjustability.









3 Depending on the style of assembly being made, the appropriate fitting is then positioned over the nut and a cap screw is inserted.

4 Finally the screw is tightened using an ordinary wrench, causing the serrated teeth in the grip nut to bite into the channel lips, positively locking the components into a rigid assembly.

NO DRILLING... NO WELDING... NO SPECIAL TOOLS

The H-Strut Metal Framing System provides a continuous support system that is fully adjustable, completely reusable and comes with the added benefit of many time-saving features. That translates into a system that is strong, fast, and economical with no welding or drilling. From planning to actual construction, your job will proceed smoothly in less time and with less effort.

With the H-Strut channel and fittings, lightweight suspension systems can be quickly erected in an unlimited variety of styles, to meet all your structural requirements, providing a firm anchorage for any type of pipe hanger or support application. In situations using poured concrete construction, H-Strut concrete insert channel provides a continuous, flush mounting slot in floors, walls or ceilings.

This catalog is not intended to show the complete H-Strut line of fittings and accessories, but rather to illustrate the most commonly used items. Literally hundreds of additional items are available, most from stock, to meet your requirements.
Our engineering department will be happy to assist you in incorporating H-Strut into your next project. Our recommendations will be provided to you without obligation.

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National Electrical Manufacturers Representatives Association

Local 210 International Brotherhood of Teamsters

All products are Union made.

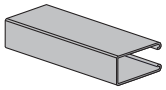
Specialty Tools & Fasteners Distributors Association

Metal Framing Manufacturers Association

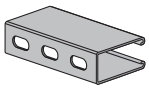
401 N. Michigan Ave.
Chicago, IL 60611
Tel: 312-644-6610

Fabricators & Manufacturers Association Foundation

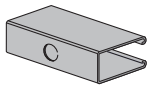
CHANNEL



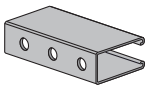
H-112
Channel
Size: 3¼" x 1⅝" x 12 GA
Page 18



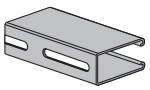
H-112-OS
Channel w/ Slots
Size: 3¼" x 1⅝" x 12 GA
9⁄16" x 1⅛" Slots
on 2" Centers
Page 19



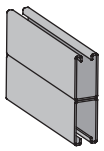
H-112-KO
Channel w/ Knock Outs
Size: 3¼" x 1⅝" x 12 GA
⅞" Knock Outs
on 6" Centers
Page 19



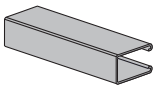
H-112-RS & RS-MOD
Channel w/ Holes
Size: 3¼" x 1⅝" x 12 GA
9⁄16" (¾") Holes on
1⅞" Centers
Page 19



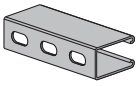
H-112-OS3
Channel w/ Long Slots
Size: 3¼" x 1⅝" x 12 GA
13⁄32" x 3" Slots
on 4" Centers
Page 19



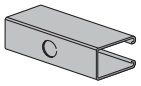
H-112-A
Welded Channel
Size: 6½" x 1⅝" x 12 GA
Two Pcs. H-112 Welded
Back-to-Back
Page 42



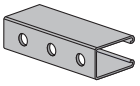
H-122
Channel
Size: 2⁷⁄16" x 1⅝" x 12 GA
Page 20



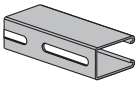
H-122-OS
Channel w/ Slots
Size: 2⁷⁄16" x 1⅝" x 12 GA
9⁄16" x 1⅛" Slots
on 2" Centers
Page 21



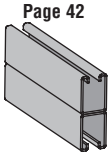
H-122-KO
Channel w/ Knock Outs
Size: 2⁷⁄16" x 1⅝" x 12 GA
⅞" Knock Outs
on 6" Centers
Page 21



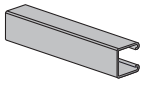
H-122-RS & RS-MOD
Channel w/ Holes
Size: 2⁷⁄16" x 1⅝" x 12 GA
9⁄16" (¾") Holes on
1⅞" Centers
Page 21



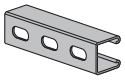
H-122-OS3
Channel w/ Long Slots
Size: 2⁷⁄16" x 1⅝" x 12 GA
13⁄32" x 3" Slots
on 4" Centers
Page 21



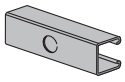
H-122-A
Welded Channel
Size: 4⅞" x 1⅝" x 12 GA
Two Pcs. H-122 Welded
Back-to-Back
Page 43



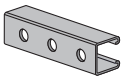
H-132
Channel
Size: 1⅝" x 1⅝" x 12 GA
Pages 22, 105



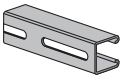
H-132-OS
Channel w/ Slots
Size: 1⅝" x 1⅝" x 12 GA
9⁄16" x 1⅛" Slots
on 2" Centers
Page 23



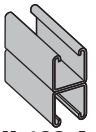
H-132-KO
Channel w/ Knock Outs
Size: 1⅝" x 1⅝" x 12 GA
⅞" Knock Outs
on 6" Centers
Pages 23, 105



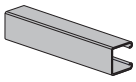
H-132-RS, RS3,
RS-MOD2, & RS-MOD
Channel w/ Holes
Size: 1⅝" x 1⅝" x 12 GA
9⁄16" (¾") Holes on
1⅞" (2") Centers
Page 23



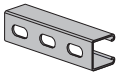
H-132-OS3
Channel w/ Long Slots
Size: 1⅝" x 1⅝" x 12 GA
13⁄32" x 3" Slots
on 4" Centers
Page 23



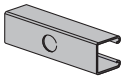
H-132-A
Welded Channel
Size: 3¼" x 1⅝" x 12 GA
Welded Back-to-Back
Page 44



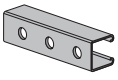
H-134
Channel
Size: 1⅝" x 1⅝" x 14 GA
Page 24



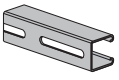
H-134-OS
Channel w/ Slots
Size: 1⅝" x 1⅝" x 14 GA
9⁄16" x 1⅛" Slots
on 2" Centers
Page 25



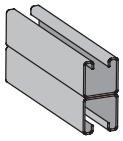
H-134-KO
Channel w/ Knock Outs
Size: 1⅝" x 1⅝" x 14 GA
⅞" Knock Outs
on 6" Centers
Page 25



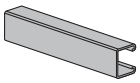
H-134-RS, RS-MOD2,
& RS-MOD
Channel w/ Holes
Size: 1⅝" x 1⅝" x 14 GA
9⁄16" (¾") Holes on
1⅞" (2") Centers
Page 25



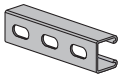
H-134-OS3
Channel w/ Long Slots
Size: 1⅝" x 1⅝" x 14 GA
13⁄32" x 3" Slots
on 4" Centers
Page 25



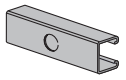
H-134-A
Welded Channel
Size: 3¼" x 1⅝" x 14 GA
Two Pcs. H-134 Welded
Back-to-Back
Page 45



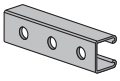
H-142
Channel
Size: 1⅜" x 1⅝" x 12 GA
Page 26



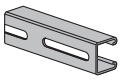
H-142-OS
Channel w/ Slots
Size: 1⅜" x 1⅝" x 12 GA
9⁄16" x 1⅛" Slots
on 2" Centers
Page 27



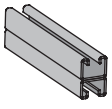
H-142-KO
Channel w/ Knock Outs
Size: 1⅜" x 1⅝" x 12 GA
⅞" Knock Outs
on 6" Centers
Page 27



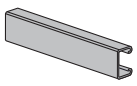
H-142-RS & RS-MOD
Channel w/ Holes
Size: 1⅜" x 1⅝" x 12 GA
9⁄16" (¾") Holes on
1⅞" Centers
Page 27



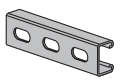
H-142-OS3
Channel w/ Long Slots
Size: 1⅜" x 1⅝" x 12 GA
13⁄32" x 3" Slots
on 4" Centers
Page 27



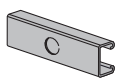
H-142-A
Welded Channel
Size: 2¾" x 1⅝" x 12 GA
Two Pcs. H-142 Welded
Back-to-Back
Page 46



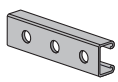
H-152
Channel
Size: 1" x 1⅝" x 12 GA
Page 28



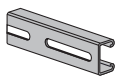
H-152-OS
Channel w/ Slots
Size: 1" x 1⅝" x 12 GA
9⁄16" x 1⅛" Slots
on 2" Centers
Page 29



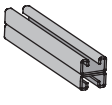
H-152-KO
Channel w/ Knock Outs
Size: 1" x 1⅝" x 12 GA
⅞" Knock Outs
on 6" Centers
Page 29



H-152-RS & RS-MOD
Channel w/ Holes
Size: 1" x 1⅝" x 12 GA
9⁄16" (¾") Holes on
1⅞" Centers
Page 29

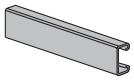


H-152-OS3
Channel w/ Long Slots
Size: 1" x 1⅝" x 12 GA
13⁄32" x 3" Slots
on 4" Centers
Page 29

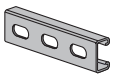


H-152-A
Welded Channel
Size: 1" x 1⅝" x 12 GA
Two Pcs. H-152 Welded
Back-to-Back
Page 47

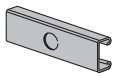
CHANNEL



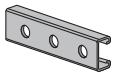
H-172
Channel
Size: 7/8" x 1 5/8" x 12 GA
Page 30



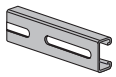
H-172-OS
Channel w/ Slots
Size: 7/8" x 1 5/8" x 12 GA
9/16" x 1 1/8" Slots
on 2" Centers
Page 31



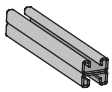
H-172-KO
Channel w/ Knock Outs
Size: 7/8" x 1 5/8" x 12 GA
7/8" Knock Outs
on 6" Centers
Page 31



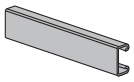
H-172-RS & RS-MOD
Channel w/ Holes
Size: 7/8" x 1 5/8" x 12 GA
9/16" (3/4") Holes on
1 7/8" Centers
Page 31



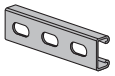
H-172-OS3
Channel w/ Long Slots
Size: 7/8" x 1 5/8" x 12 GA
13/32" x 3" Slots
on 4" Centers
Page 31



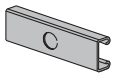
H-172-A
Welded Channel
Size: 1 3/8" x 1 5/8" x 12 GA
Two Pcs. H-172 Welded
Back-to-Back
Page 48



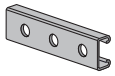
H-162
Channel
Size: 13/16" x 1 5/8" x 12 GA
Page 32



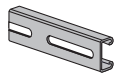
H-162-OS
Channel w/ Slots
Size: 13/16" x 1 5/8" x 12 GA
9/16" x 1 1/8" Slots
on 2" Centers
Page 33



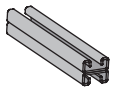
H-162-KO
Channel w/ Knock Outs
Size: 13/16" x 1 5/8" x 12 GA
7/8" Knock Outs
on 6" Centers
Page 33



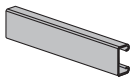
H-162-RS & RS-MOD
Channel w/ Holes
Size: 13/16" x 1 5/8" x 12 GA
9/16" (3/4") Holes on
1 7/8" Centers
Page 33



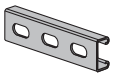
H-162-OS3
Channel w/ Long Slots
Size: 13/16" x 1 5/8" x 12 GA
13/32" x 3" Slots
on 4" Centers
Page 33



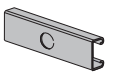
H-162-A
Welded Channel
Size: 1 5/8" x 1 5/8" x 12 GA
Two Pcs. H-162 Welded
Back-to-Back
Page 49



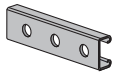
H-164
Channel
Size: 13/16" x 1 5/8" x 14 GA
Page 34



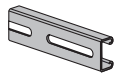
H-164-OS
Channel w/ Slots
Size: 13/16" x 1 5/8" x 14 GA
9/16" x 1 1/8" Slots
on 2" Centers
Page 35



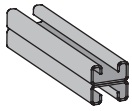
H-164-KO
Channel w/ Knock Outs
Size: 13/16" x 1 5/8" x 14 GA
7/8" Knock Outs
on 6" Centers
Page 35



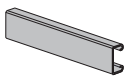
H-164-RS & RS-MOD
Channel w/ Holes
Size: 13/16" x 1 5/8" x 14 GA
9/16" (3/4") Holes on
1 7/8" Centers
Page 35



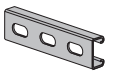
H-164-OS3
Channel w/ Long Slots
Size: 13/16" x 1 5/8" x 14 GA
13/32" x 3" Slots
on 4" Centers
Page 35



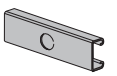
H-164-A
Welded Channel
Size: 1 5/8" x 1 5/8" x 14 GA
Two Pcs. H-164 Welded
Back-to-Back
Page 50



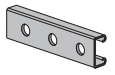
H-166-G
Channel
Size: 13/16" x 1 5/8" x 16 GA
Page 36



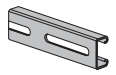
H-166-G-OS
Channel w/ Slots
Size: 13/16" x 1 5/8" x 16 GA
9/16" x 1 1/8" Slots
on 2" Centers
Page 37



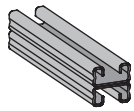
H-166-G-KO
Channel w/ Knock Outs
Size: 13/16" x 1 5/8" x 16 GA
7/8" Knock Outs
on 6" Centers
Page 37



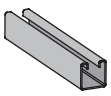
H-166-G-RS & RS-MOD
Channel w/ Holes
Size: 13/16" x 1 5/8" x 16 GA
9/16" (3/4") Holes on
1 7/8" Centers
Page 37



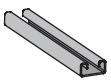
H-166-G-OS3
Channel w/ Long Slots
Size: 13/16" x 1 5/8" x 16 GA
13/32" x 3" Slots
on 4" Centers
Page 37



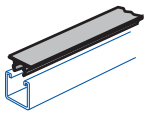
H-166-G-A
Welded Channel
Size: 1 5/8" x 1 5/8" x 16 GA
Two Pcs. H-166-G
Welded Back-to-Back
Page 51



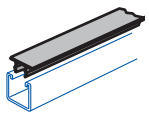
H-179
Mini Strut
Size: 13/16" x 13/16" x 19 GA
Page 38



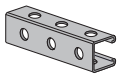
H-189
Mini-Strut
Size: 13/32" x 13/16" x 19 GA
Page 39



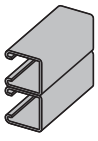
C-900
Raceway Closure Strip
For All 1 5/8" Width
Channels (10' Length)
Page 104



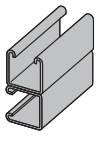
C-900P
Plastic Closure Strip
For All 1 5/8" Width
Channels (10' Length)
Page 118



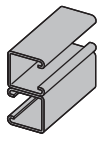
H-132-RS3
Channel
Size: 1 5/8" x 1 5/8" x 12 GA
9/16" Holes on 1 7/8" Centers
on All Three Sides
Page 23



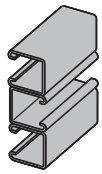
Suffix B
Welded Channel
Welded Side-to-Side
Page 41



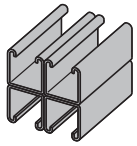
Suffix C
Welded Channel
Welded Side-to-Back
Page 41



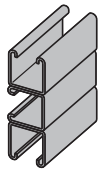
Suffix D
Welded Channel
Welded Side-to-Opposite-Side
Page 41



Suffix D3
Welded Channel
Welded Side-to-Opp. -
Side-to-Opp.-Side
Page 41



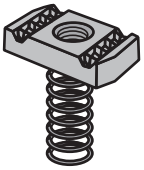
Suffix A4
Welded Channel
Welded Back-to-Back
Page 41



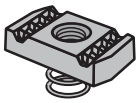
Suffix C3
Welded Channel
Welded Back-to-Side-to-Back
Page 41

GRIP LOCK NUTS

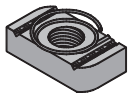
N-800 (800SS) Series
Without Spring
Use with all 1⅝" wide channel.
SS803 use with H-132, H-134.
Page 54, 134



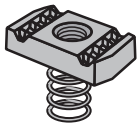
N-830 Series
Long Spring
Use with H-112, H-122
Page 54



N-810 Series
Short Spring
Use with H-152, H-164, H-172
Page 54

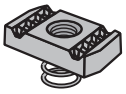


TSN-800 Series
With Top Spring
Use with all 1⅝" wide channel
Page 54

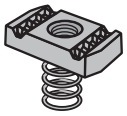


N-820 (820SS) Series
Regular Spring
Use with H-132, H-134, H-142.
SS use with H-132, H-134.
Page 54,134

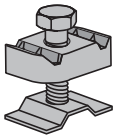
N-840 Series
Use with H-179, H-189 mini strut.
Page 55



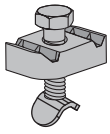
N-850 Series
Use with H-189 mini strut.
Page 55



N-860 Series
Use with H-179 mini strut.
Page 55



N-8700
Seismic Rod Stiffener
Page 55



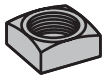
N-8701
½" Mod **Seismic Rod Stiffener**
Page 55

THREADED FASTENERS

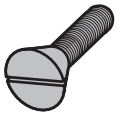
Lock Washer
Page 56

Flat Washer
Page 56

Hexagon Nut
Page 56



Square Nut
Page 56

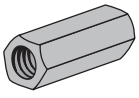


Flat Head Machine Screw
Page 56

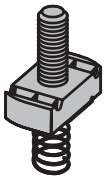
Round Head Machine Screw
Page 56

Hex Head Cap Screw
Page 56

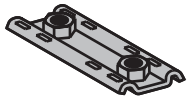
All-Thread Rod
Page 57, 134



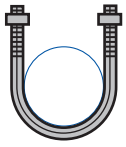
Rod Coupler
Page 57



SN Stud Nut
With RS Spring
Page 57

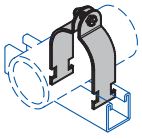


N-8771
Double Nut
Use with all 1⅝" wide channel
Page 57

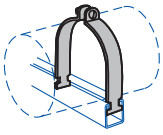


U-Bolt
Page 58

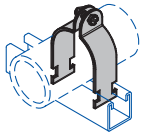
PIPE & CONDUIT SUPPORTS



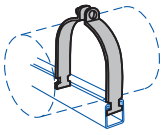
C-1100
EMT Clamp
Page 60



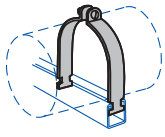
C-1104
Universal Clamp
Page 60



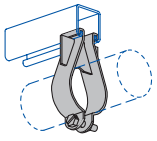
C-1102
Rigid Conduit Clamp
Page 60



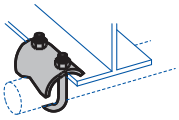
C-1101
Tubing Clamp
Page 61



C-1101-CT
Tubing Clamp
Page 62

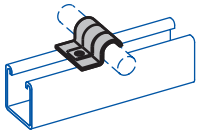


C-1107
Parallel Pipe Clamp
Page 62

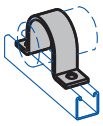


RAC
Right Angle Pipe or Conduit Clamp
Page 62

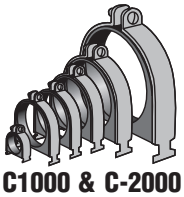
C-1105
Conduit Clamp
Page 63



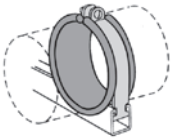
C-1109
One Hole Tubing Clamp
Page 63



C-1108
Pipe Strap
Page 63

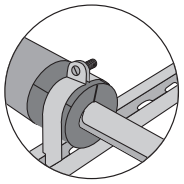


C1000 & C-2000
Cushion Clamp Assembly
Page 64

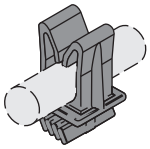


Cushion Wrap
Page 65

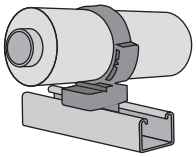
PIPE & CONDUIT SUPPORTS CONT.



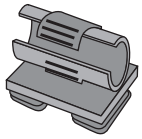
Cush-A-Therm™
Thermal Barrier Protection
Pages 66



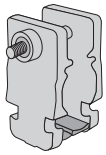
Cush-A-Claw™
Pages 67



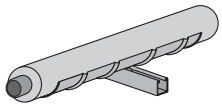
Cush-A-Click
Pages 68



Cush-A-Clip
Pages 68

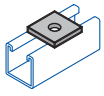


Cush-A-Grip™
Pages 69

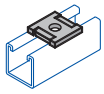


Saddle-Up
Pages 70

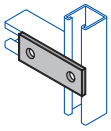
FLAT PLATES



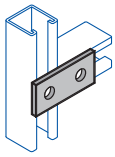
F-201
Square Washer
Page 72



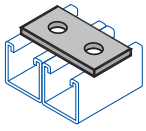
F-201-IN
Guided Square Washer
Page 72



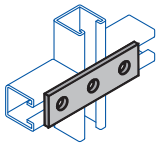
F-202
Flat Plate Connector
Page 72



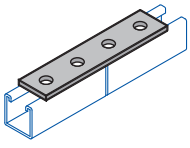
F-203
Two Hole Splice Plate
Page 72



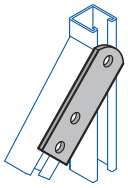
F-204
Two Hole Connecting Plate
Page 72



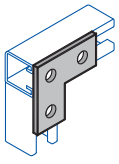
F-206-1 and -2
Three Hole Splice Plate
Page 72



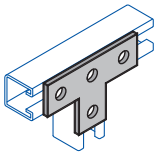
F-205
Four Hole Splice Plate
Page 73



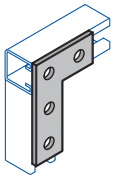
F-207
Three Hole Swivel Plate
Page 73



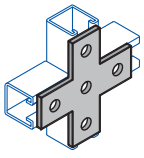
F-210
Flat Angle Plate
Page 73



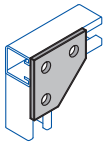
F-213
"T" Plate
Page 73



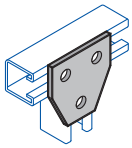
F-214
Four Hole Corner Plate
Page 73



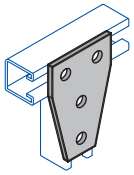
F-216
Cross Plate
Page 73



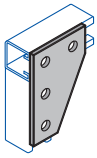
F-211
Flat Corner Connector
Page 74



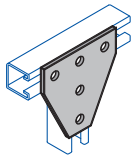
F-212
Three Hole Connector
Page 74



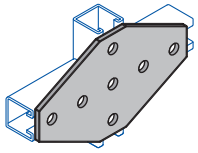
F-217
Four Corner Connector
Page 74



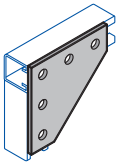
F-218
Four Hole Corner Connector
Page 74



F-219
Flat Connector
Page 74

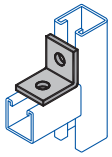


F-220
Cross Connector
Page 74

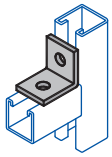


F-221
Flat Corner Connector
Page 74

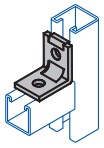
ANGLE FITTINGS & CONNECTORS



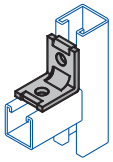
A-301
Two Hole Corner Angle
Page 75



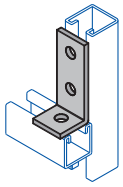
A-302
Two Hole End Angle
Page 75



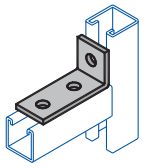
A-303
No-Twist Corner Angle
(1 Indent)
Page 75



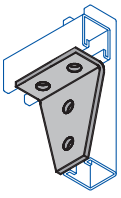
A-304
No-Twist Corner Angle
(2 Indent)
Page 75



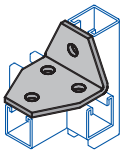
A-305
Three Hole Corner Angle
Page 75



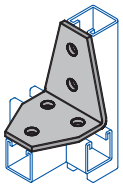
A-306
Three Hole Corner Angle
Page 75



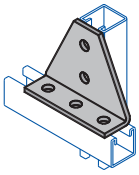
A-309
Four Hole Corner
Joint Connector
Page 76



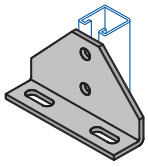
A-310
Four Hole Joint
Corner Angle
Page 76



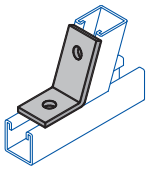
A-313
Four Hole Shelf Joint
Angle Connector
Page 76



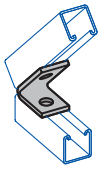
A-314
Five Hole Corner
Connector
Page 76



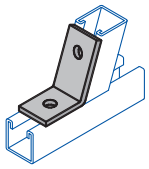
A-315 & A-315-1
Adjustable Double
Slotted Corner Connector
Page 76



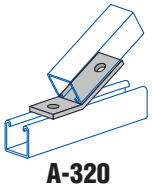
A-316
Angle Fitting
Page 77



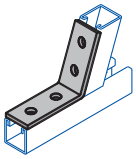
A-317
Two Hole Closed
Angle Connector
Page 77



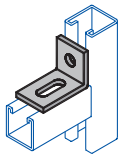
A-319
Angle Bracket
Page 77



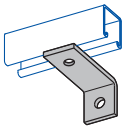
A-320
Open Angle Bracket
Page 77



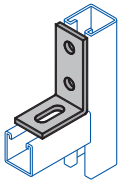
A-3194
Four Hole Open
Angle Connector
Page 77



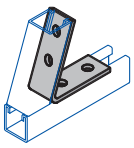
A-337
Slotted 90° Angle
Page 78



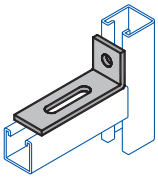
A-338
Corner Angle
Page 78



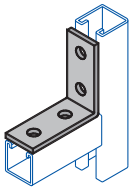
A-3360
Two Hole Slotted 90°
Corner Connector
Page 78



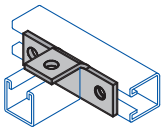
A-3174
Four Hole Closed
Angle Connector
Page 78



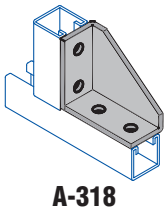
A-336
Two Hole Slotted 90°
Corner Connector
Page 78



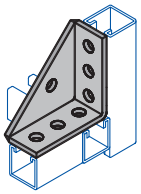
A-311
Four Hole Corner
Angle
Page 79



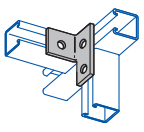
A-312
Four Hole 90°
T-Plate Angle
Page 79



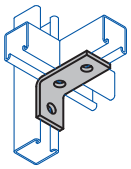
A-318
RH & LH
Two Hole Offset
"Z" Support
Page 79



A-335
Universal Angle
Bracket
Page 79

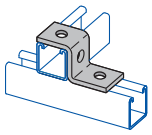


A-330
RH & LH Angle Plate
Connector
Page 79

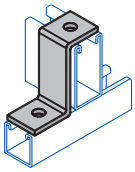


A-307
Angle Bracket
Page 79

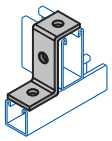
"Z" ANGLE BRACKETS



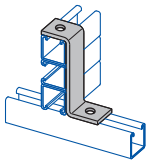
A-322
"Z" Angle Support
Use with H-132, H-134, H-164-A
Page 80



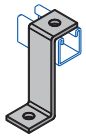
A-323 Series
"Z" Angle Support
Use with H-152
Page 80



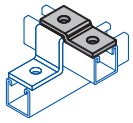
A-324
"Z" Angle Support
Page 80



A-341
"Z" Angle Support
Page 80

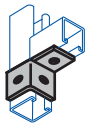


A-340
"Z" Angle
Page 80

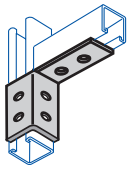


A-325
Z-Angle Offset
Page 80

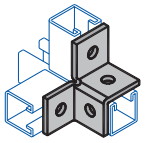
WING FITTINGS



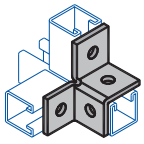
A-321
RH & LH Two Hole Single Corner Angle Connector
Page 81



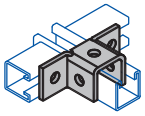
A-321-1
RH & LH Six Hole Corner Connector
Page 81



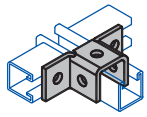
A-326
Four Hole Double Corner Angle Connector
Page 81



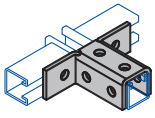
A-326-1
Eight Hole Double Corner Angle Connector
Page 81



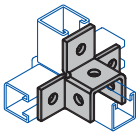
A-327
Five Hole Two Angle Connector
Page 82



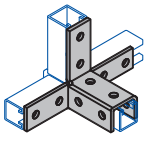
A-327-1
Ten Hole Two Angle Connector
Page 82



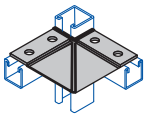
A-327-2
Eight Hole Three Angle Connector
Page 82



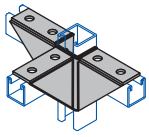
A-328
Six Hole Three Angle Connector
Page 82



A-328-1
Twelve Hole Three Angle Connector
Page 82

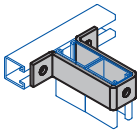


A-329
Two Way Wing Gusset
Page 83

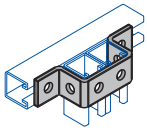


A-329-1
Three Way Wing Gusset
Page 83

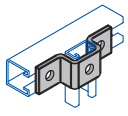
"U" SUPPORTS



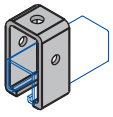
B-601-7
Three Hole "U" Support
Use with H-122-A
Page 83



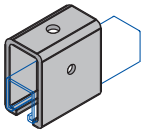
B-610
"U" Support
Use with H-112, H-122-A, H-134-A
Page 83



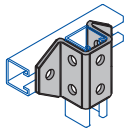
B-601 Series
"U" Support
Use with H-162, H-164
Page 83



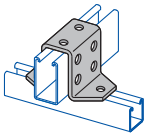
B-611
"U" Support
Page 84



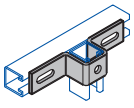
B-612
"U" Support
Page 84



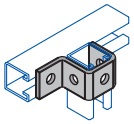
B-613
Six Hole "U" Support
Use with H-132, H-134
Page 84



B-614
Eight Hole "U" Support
Use with H-122-A
Page 84

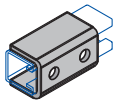


B-602
Slotted "U" Support
Use with H-132, H-134
Page 84

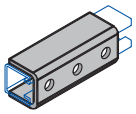


B-616
Cup Support for Standard Single Strut
Page 84

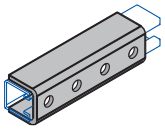
SPLICE CLEVIS



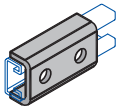
B-609
Two Hole Splice Channel
Use with H-132, H-134
Page 85



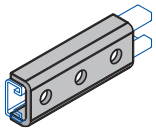
B-604
Three Hole Splice Channel
Use with H-132, H-134
Page 85



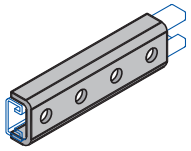
B-605
Four Hole Splice Channel
Use with H-132, H-134
Page 85



B-607
Two Hole Splice Channel
Use with H-162, H-164
Page 85

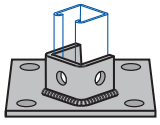


B-606
Three Hole Splice Channel
Use with H-162, H-164
Page 85

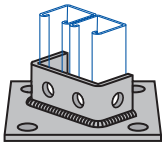


B-608
Four Hole Splice Channel
Use with H-162, H-164
Page 85

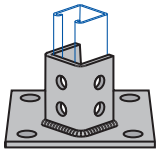
POST BASES



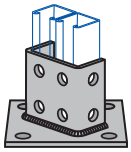
B-619
Single Post Base
Use with H-122, H-134
Page 86



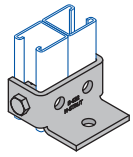
B-619-A
Double Post Base
Use with all 3¼" Channels
Page 86



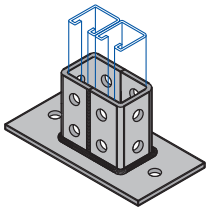
B-620
Single Post Base
Use with H-122, H-134
Page 86



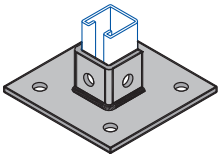
B-620-A
Double Post Base
Page 86



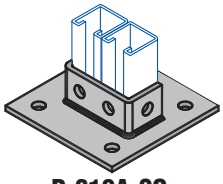
B-632
Double Post Base
Page 86



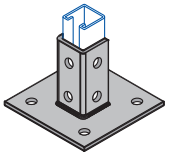
B-630-FL
Double Column Post Base
Use with H-112, H-122-A, H-132-B, H-132-C, H-132-D
Page 86



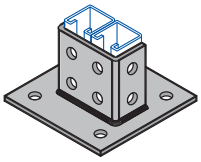
B-619-SQ
Single Post Base
Page 87



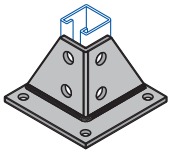
B-619A-SQ
Double Post Base
Page 87



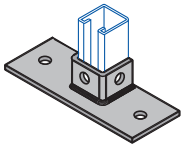
B-620-SQ
Single Post Base
Page 87



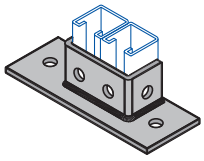
B-620A-SQ
Double Post Base
Page 87



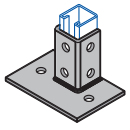
B-640
Post Base
Use with H-122, H-134
Page 87



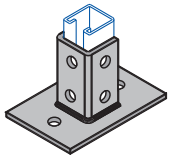
B-619-FL
Single Post Base
Page 88



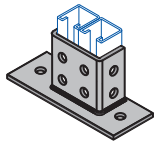
B-619A-FL
Double Post Base
Page 88



B-620-FL
Single Post Base
Page 88

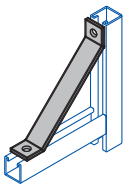


B-620-FL-1
Single Post Base
Use with H-122, H-134
Page 88

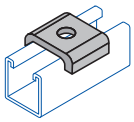


B-620A-FL
Double Post Base
Page 88

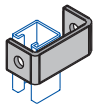
SPECIALTY FITTINGS



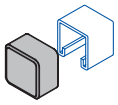
B-603
Knee Brace
Page 89



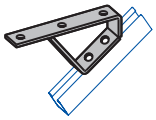
SW-201
Saddle Washer
Page 89



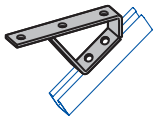
B-615
Clevis Connector
Page 89



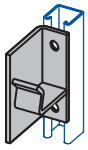
Plastic Red & White
Safety End Cap
Page 89



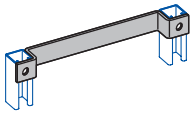
M-601
37½° Stair Support
Page 90



M-602
45° Stair Support
Page 90

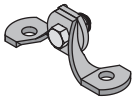


M-605
Pipe Axle Support
Page 90

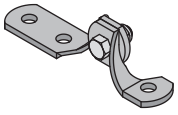


M-610
Ladder Rung
Page 90

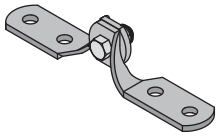
M-611
Wall Bracket
Page 90



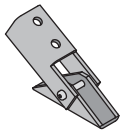
HC-208-2
2 Hole Hinge Connector
Page 91



HC-208-3
3 Hole Hinge Connector
Page 91

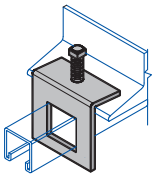


HC-208-4
4 Hole Hinge Connector
Page 91

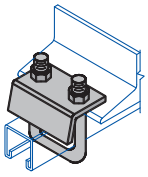


AB-9400
Adjustable Base
Page 92

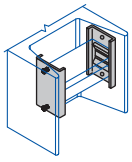
BEAM CLAMPS



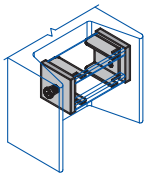
C-401
Angular "C" Beam Clamp
Page 94



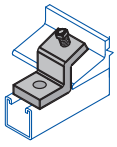
C-402
Beam Clamp
Page 94



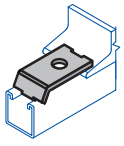
C-413
Column Beam Clamps
Page 94



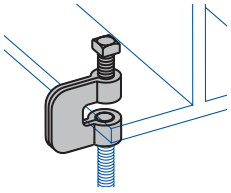
C-412
Column Beam Clamps
Page 94



C-406
Beam Clamp
Page 95

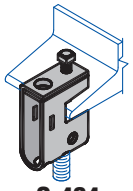


C-403
Beam Clamp
Page 95

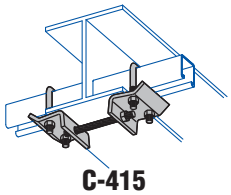


C-405
C-Clamp Steel
Page 95

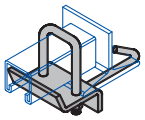
C-405M
Malleable C-Clamp
Page 95



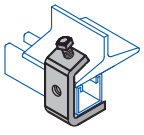
C-404
Beam Clamp
Page 95



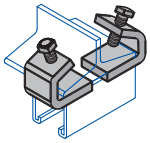
C-415
Double "U" Bolt
Beam Clamp
Page 96



C-416
"U" Bolt Beam Clamp
with Hook
Page 96

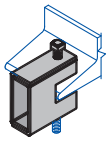


C-407
Beam Clamp
Page 96

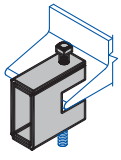


C-408 Series
Beam Clamp
Page 96

C-440
Electrical Beam Clamp
Page 97

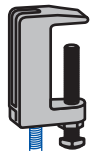


C-410
Beam Clamp
Page 97



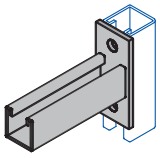
C-411
Beam Clamp
Page 97

C-420
Top Beam Clamp
Page 98

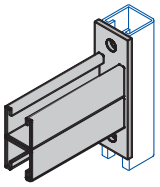


C-430
Beam Clamp
Page 98

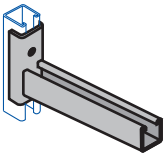
BRACKETS



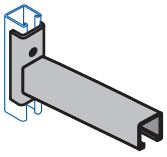
T-610
Single Channel Bracket
Page 100



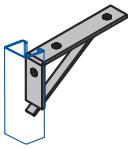
T-611
Double Channel Bracket
Page 100



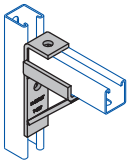
T-612
Bracket
Page 100



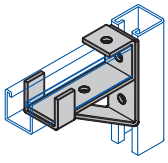
T-613
Bracket
Page 100



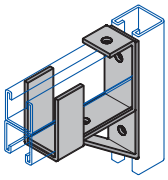
T-630
Shelf Bracket
Page 101



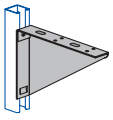
T-617
Bracket
Page 101



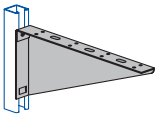
T-615
Bracket
Page 101



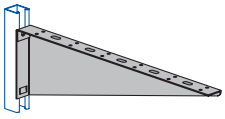
T-616
Bracket
Page 101



T-620
Shelf Bracket
Page 102

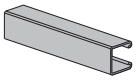


T-621
Shelf Bracket
Page 102

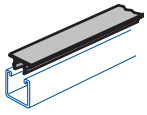


T-622
Shelf Bracket
Page 102

ELECTRICAL

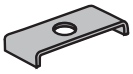


H-132 &
H-132-KO
Raceways
Page 105

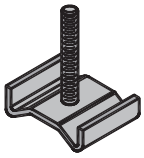


C-900
Closure Strip
Page 106

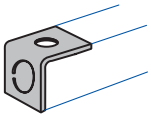
E-502
Aluminum Wire Stud
Page 106



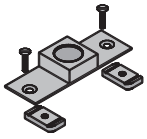
E-503
Fluorescent
Fixture Nut
Page 106



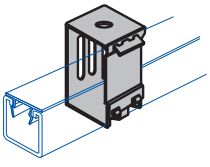
E-503-SN
Fixture Stud Nut
Page 106



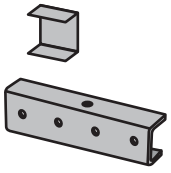
E-504
Conduit End Cap
Page 107



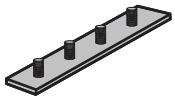
E-501
Conduit Connector Plate
Pages 108 - 109



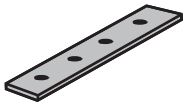
E-505
Snap Type Fluorescent
Fixture Hanger
Page 110



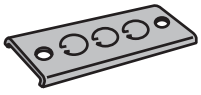
E-510
4 Hole Splice Clevis
Page 111



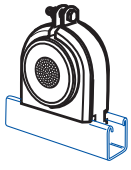
E-511
Stud Plate
Page 112



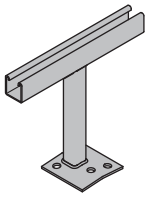
E-512
Tapped Plate
Page 112



E-513
3 Knock-Out Plate
Page 112

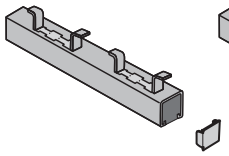


CC-1110
Cable Clamp
Pages 113

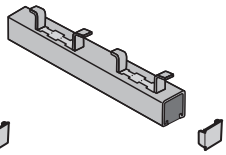


PS-7000 Series
Pole Separator
Pages 114

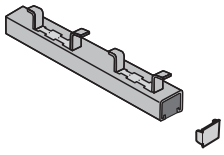
CONCRETE ACCESSORIES



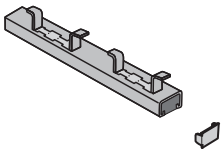
H-132-IN
Continuous Concrete Insert
With or without Closure Strip and End Cap Installed
Page 116



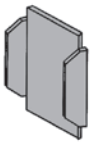
H-142-IN
Continuous Concrete Insert
With or without Closure Strip and End Cap Installed
Page 117



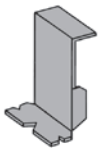
H-152-IN
Continuous Concrete Insert
With or without Closure Strip and End Cap Installed
Page 118



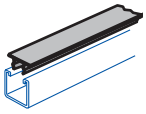
H-164-IN
Continuous Concrete Insert
With or without Closure Strip and End Cap Installed
Page 119



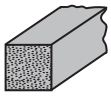
1000 Series
Type "A" End Cap
Page 120



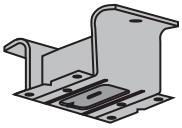
1001 Series
Type "B" End Cap
Use with H-132
Page 120



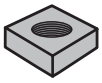
C-900P
Plastic Closure Strip
Page 120



Styrofoam Filler
Page 120



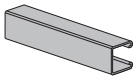
H-1200
Spot Insert
Page 121



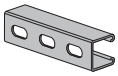
N-1200
Square Nut for Spot Insert
Page 121

STAINLESS STEEL

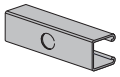
CHANNEL AVAILABLE IN CONFIGURATIONS SHOWN ON PAGES 4 AND 5.



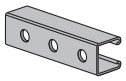
H-132-SS
Channel
Size: 1⅝" x 1⅝" x 12 GA
Page 124



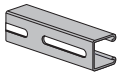
H-132-SS-OS
Channel w/ Slots
Size: 1⅝" x 1⅝" x 12 GA
9/16" x 1⅛" Slots
on 2" Centers
Page 125



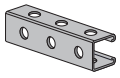
H-132-SS-KO
Channel w/ Knock Outs
Size: 1⅝" x 1⅝" x 12 GA
⅞" Knock Outs
on 6" Centers
Page 125



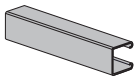
H-132-SS-RS & RS-MOD
Channel w/ Holes
Size: 1⅝" x 1⅝" x 12 GA
9/16" (¾") Holes on
1⅞" Centers
Page 125



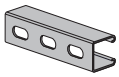
H-132-SS-OS3
Channel w/ Long Slots
Size: 1⅝" x 1⅝" x 12 GA
13/32" x 3" Slots
on 4" Centers
Page 125



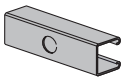
H-132-SS-RS3
Channel
Size: 1⅝" x 1⅝" x 12 GA
9/16" Holes on 1⅞" Centers
on All Three Sides
Page 125



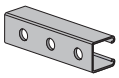
H-134-SS
Channel
Size: 1⅝" x 1⅝" x 14 GA
Page 126



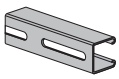
H-134-SS-OS
Channel w/ Slots
Size: 1⅝" x 1⅝" x 14 GA
9/16" x 1⅛" Slots
on 2" Centers
Page 127



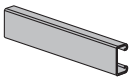
H-134-SS-KO
Channel w/ Knock Outs
Size: 1⅝" x 1⅝" x 14 GA
⅞" Knock Outs
on 6" Centers
Page 127



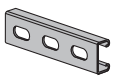
H-134-SS-RS & RS-MOD
Channel w/ Holes
Size: 1⅝" x 1⅝" x 14 GA
9/16" (¾") Holes on
1⅞" Centers
Page 127



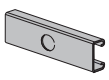
H-134-SS-OS3
Channel w/ Long Slots
Size: 1⅝" x 1⅝" x 14 GA
13/32" x 3" Slots
on 4" Centers
Page 127



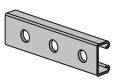
H-164-SS
Channel
Size: 13/16" x 1⅝" x 14 GA
Page 128



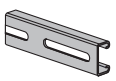
H-164-SS-OS
Channel w/ Slots
Size: 13/16" x 1⅝" x 14 GA
9/16" x 1⅛" Slots
on 2" Centers
Page 129



H-164-SS-KO
Channel w/ Knock Outs
Size: 13/16" x 1⅝" x 14 GA
⅞" Knock Outs
on 6" Centers
Page 129



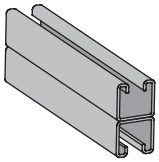
H-164-SS-RS & RS-MOD
Channel w/ Holes
Size: 13/16 x 1⅝" x 14 GA
9/16" (¾") Holes on
1⅞" Centers
Page 129



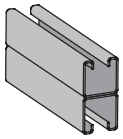
H-164-SS-OS3
Channel w/ Long Slots
Size: 13/16" x 1⅝" x 14 GA
13/32" x 3" Slots
on 4" Centers
Page 129

STAINLESS STEEL CONT.

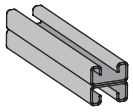
CHANNEL AVAILABLE IN CONFIGURATIONS SHOWN ON PAGES 4 AND 5.



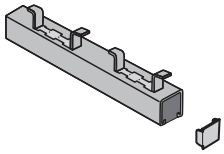
H-132-SS-A
Page 130



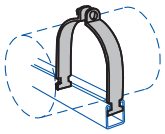
H-134-SS-A
Page 131



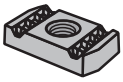
H-164-SS-A
Page 132



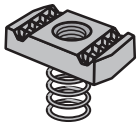
H-132-INSS
Concrete Insert
Page 133



C-1102SS
Pipe Clamps
Page 134



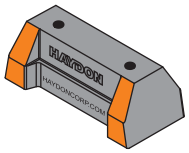
N-800SS Series
Grip Lock Nuts w/o Spring
Page 134



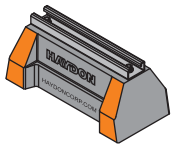
N-820SS Series
Grip Lock Nuts, Reg. Spring
Page 134

All-Thread Rod
Page 134

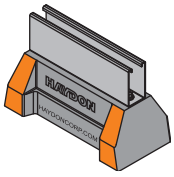
H-BLOCK ROOFTOP SUPPORT SYSTEMS



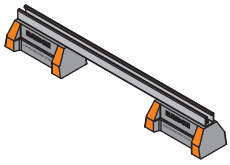
HBS-Base
Series
Page 137



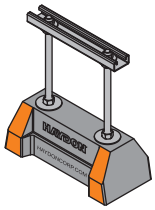
HBS
Series
Page 138



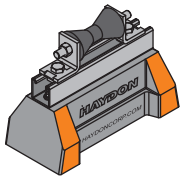
HBS-6
Series
Page 139



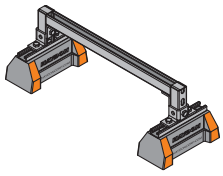
HBS-CB
Bridge Series
Page 140



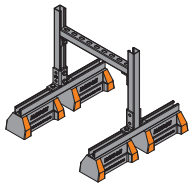
HBS-CE
Extension Series
Page 141



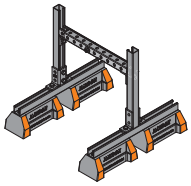
HBS-R
Roller Series
Page 142



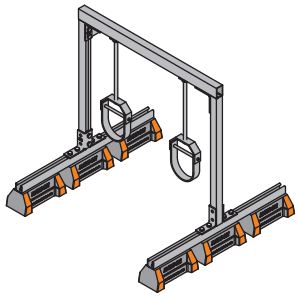
HBS-CES
Series
Page 143



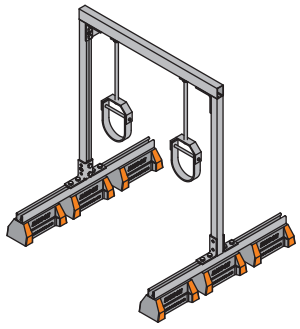
HBS-DSFW
Fixed Width Duct Support
Page 144



HBS-DSAW
Adjustable Duct Support
Page 145

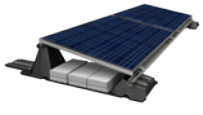


HBS-PH 36" Light, Medium, & Heavy Duty
Pipe Hanger Supports
Pages 146 – 148



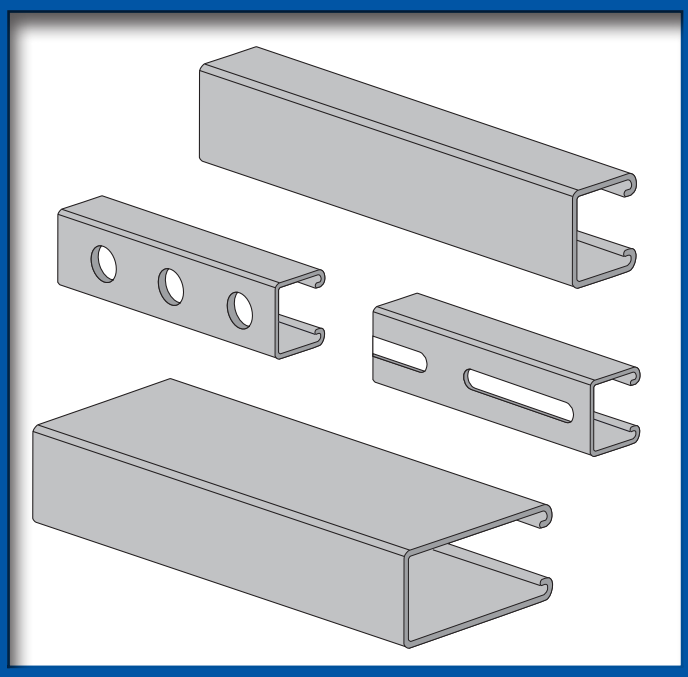
HBS-PH 48" Light, Medium, & Heavy Duty
Pipe Hanger Supports
Pages 149 – 151

SOLAR RACKING SYSTEMS



INSTARACK10
Solar Racking
Page 156

INSTARACK15
Solar Racking
Page 156



Specifications

GENERAL

H-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 41. The spot welds are spaced two or three inches on centers throughout the length of the multiple channel sections.

LENGTH INFORMATION

H-STRUT Channels are produced and stocked in 10' and 20' lengths with a tolerance of ± 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

H-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.

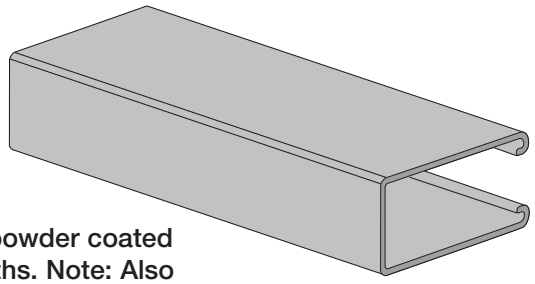
FINISHES

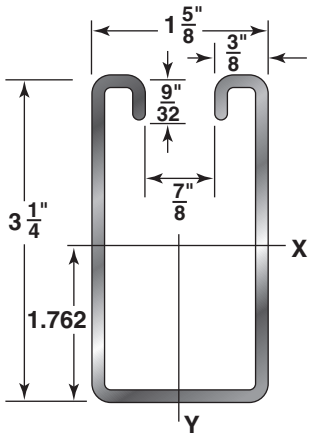
All H-STRUT channels are stocked in pre-galvanized and powder coated Supr-Green. Some sizes are stocked in zinc trivalent chromium, PVC or hot dipped galvanized.
(See technical section for additional information)

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

H-112

3¼" X 1⅝"
12 Gauge Channel
wt./100 ft. - 313#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-112	3.13	0.887	1.100	0.633	1.114	0.431	0.530	0.697

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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

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.

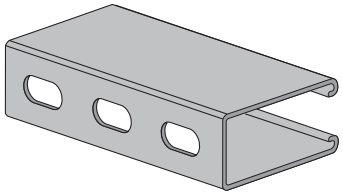
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

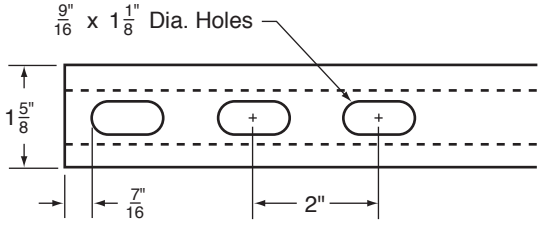
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%, OS3 by 90%,
RS (9/16 holes) by 88%, RS-MOD (¾ holes) by 85%,
KO by 82% .

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

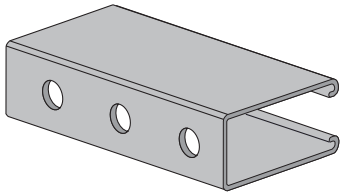
H-112-OS

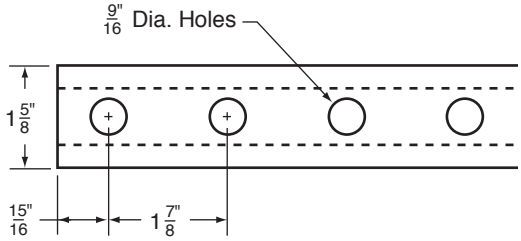




Wt./100 Ft.: 308

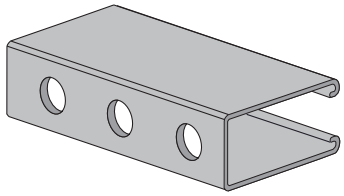
H-112-RS

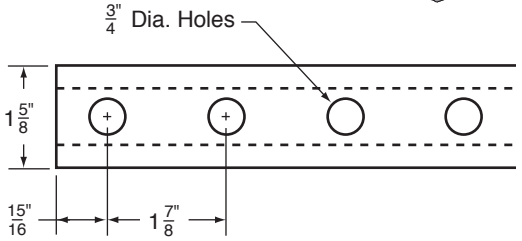




Wt./100 Ft.: 308

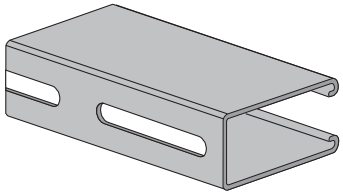
H-112-RS-MOD

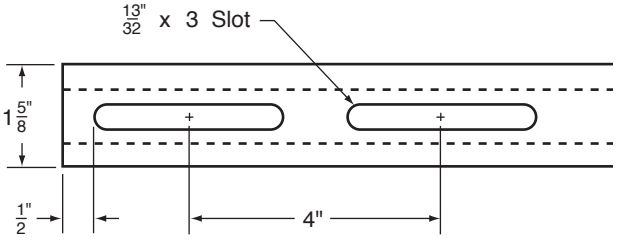




Wt./100 Ft.: 308

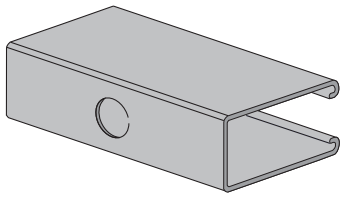
H-112-OS3

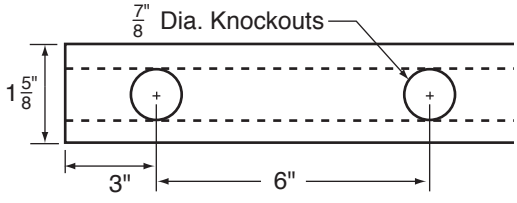




Wt./100 Ft.: 298

H-112-KO

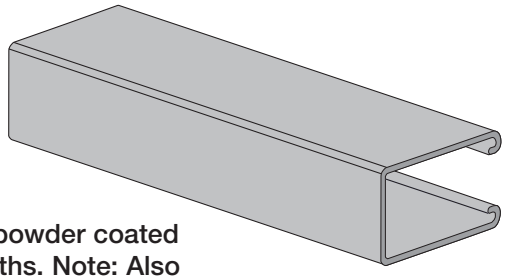


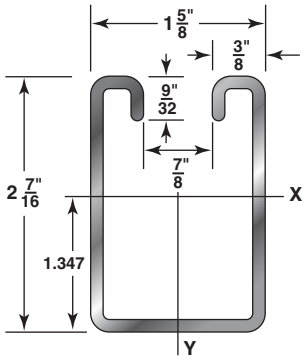


Wt./100 Ft.: 313

H-122

2 7/16" X 1 5/8"
12 Gauge Channel
wt./100 ft. - 254#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-122	2.54	0.720	0.525	0.396	0.854	0.334	0.411	0.681

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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

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.

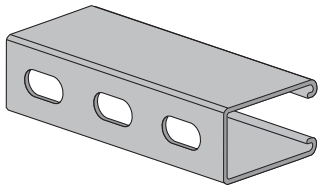
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

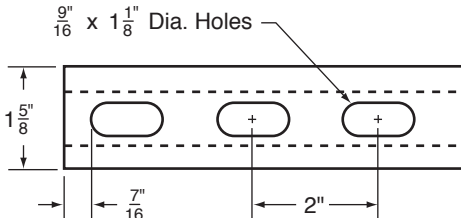
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%, OS3 by 90%,
RS (9/16 holes) by 88%, RS-MOD (3/4 holes) by 85%,
KO by 82% .

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

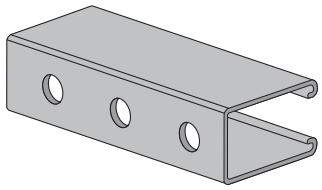
H-122-OS

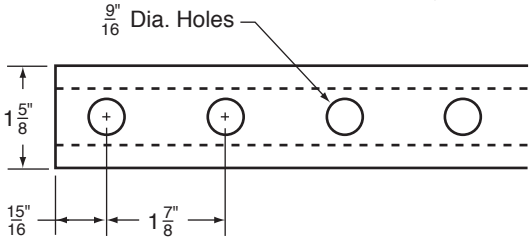




Wt./100 Ft.: 249

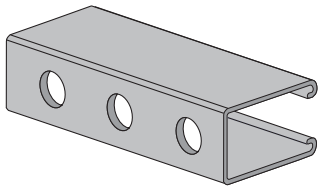
H-122-RS

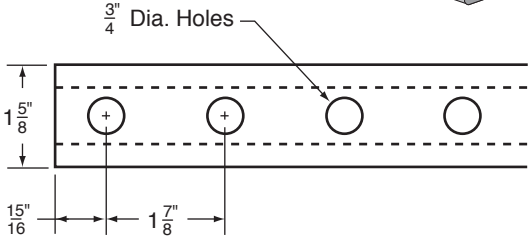




Wt./100 Ft.: 249

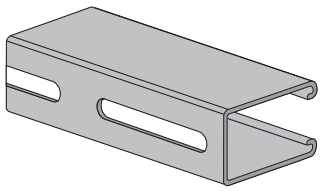
H-122-RS-MOD

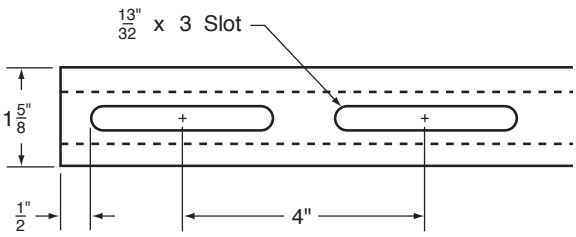




Wt./100 Ft.: 249

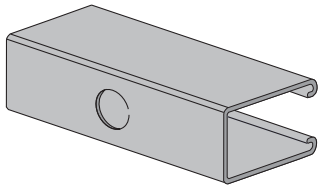
H-122-OS3

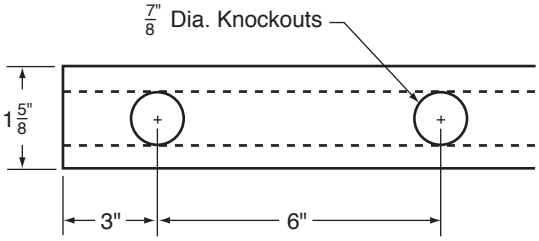




Wt./100 Ft.: 239

H-122-KO

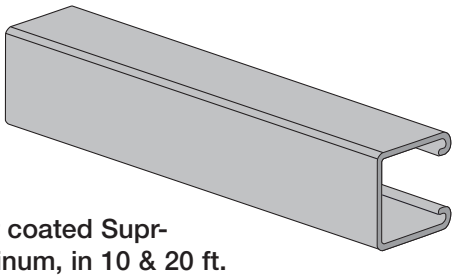


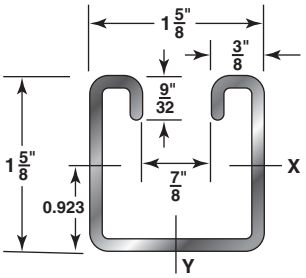


Wt./100 Ft.: 254

H-132

1⅝" X 1⅝"
12 Gauge Channel
wt./100 ft. - 194#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-132	1.94	0.552	0.188	0.208	0.584	0.236	0.290	0.654

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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

NR = Not Recommended

** 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.

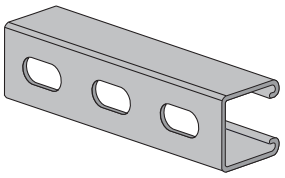
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

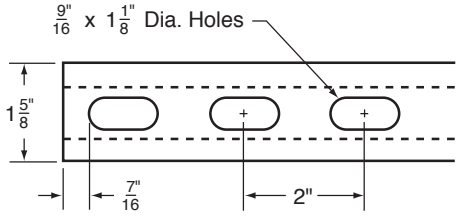
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%,
RS (9/16 holes) by 88%,
RS3 (9/16 holes) by 88%,
KO by 82% .
OS3 by 90%,
RS-MOD (3/4 holes) by 85%,
RS-MOD2 (9/16 holes) by 88%,

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

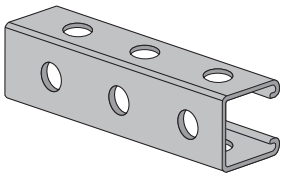
H-132-OS

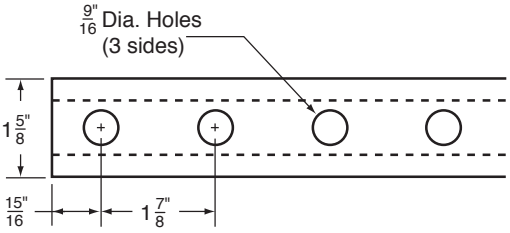




Wt./100 Ft.: 189

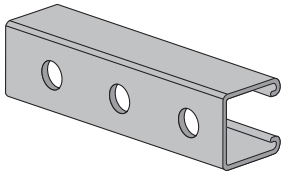
H-132-RS3

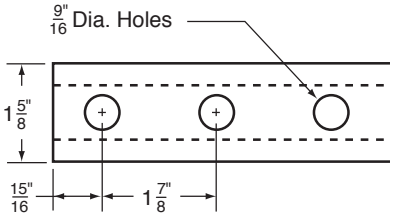




Wt./100 Ft.: 179

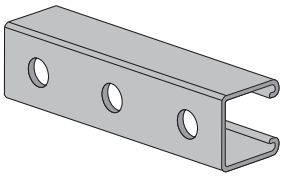
H-132-RS

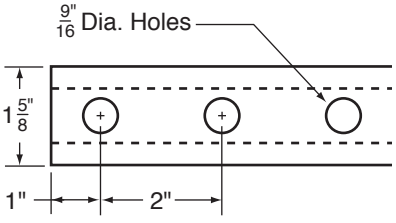




Wt./100 Ft.: 189

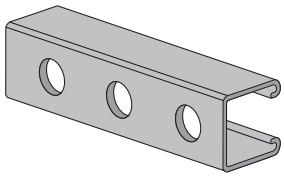
H-132-RS-MOD2

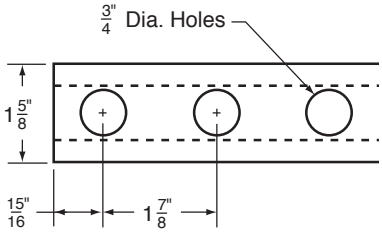




Wt./100 Ft.: 194

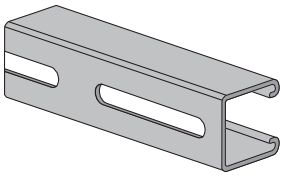
H-132-RS-MOD

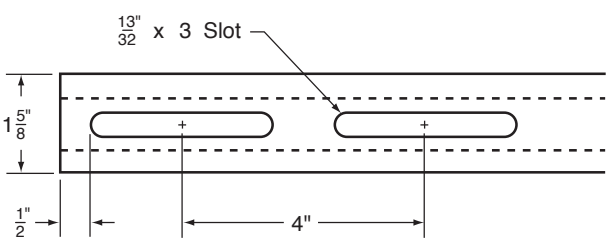




Wt./100 Ft.: 187

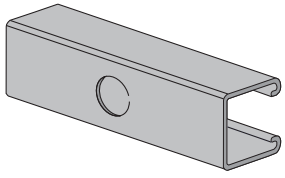
H-132-OS3

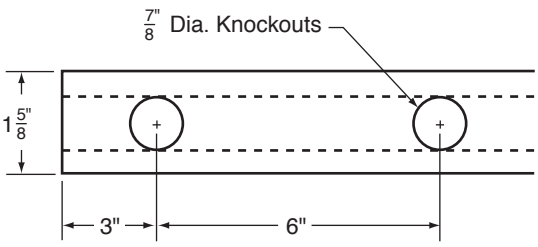




Wt./100 Ft.: 179

H-132-KO

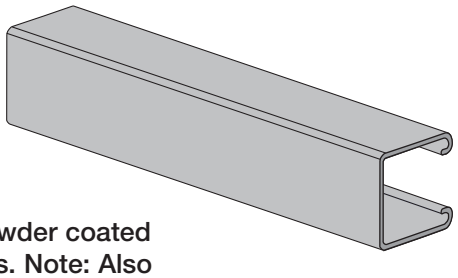


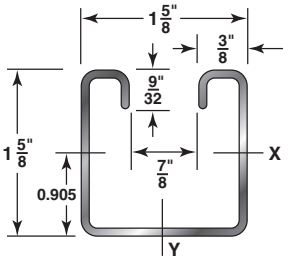


Wt./100 Ft.: 194

H-134

1⅝" X 1⅝"
14 Gauge Channel
wt./100 ft. - 145#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-134	1.45	0.416	0.149	0.166	0.598	0.183	0.225	0.663

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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

NR = Not Recommended

** 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.

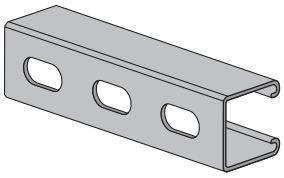
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

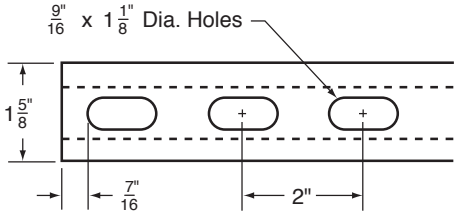
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%, OS3 by 90%,
RS (9/16 holes) by 88%, RS-MOD (¾ holes) by 85%,
KO by 82%, RS-MOD2 (9/16 holes) by 88%

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

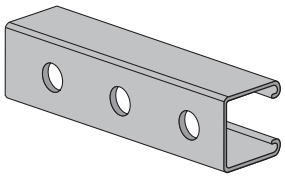
H-134-OS

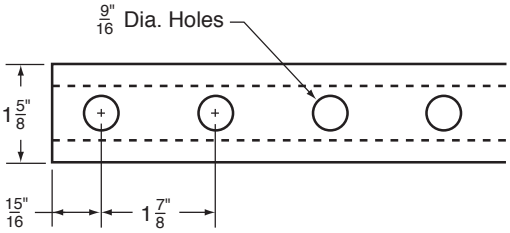




Wt./100 Ft.: 140

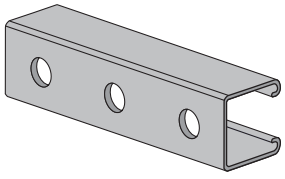
H-134-RS

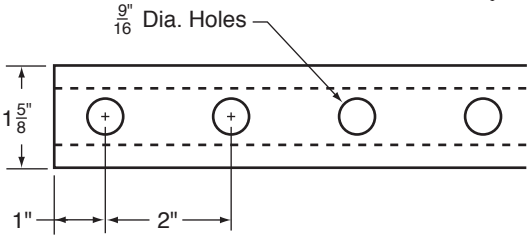




Wt./100 Ft.: 140

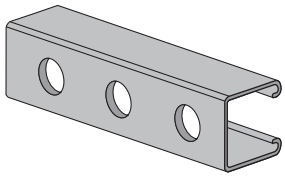
H-134-RS-MOD2

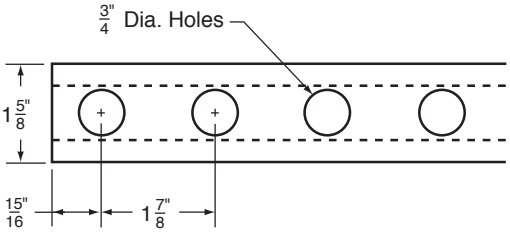




Wt./100 Ft.: 141

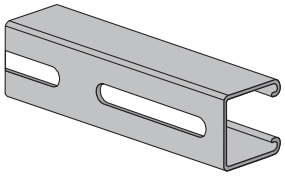
H-134-RS-MOD

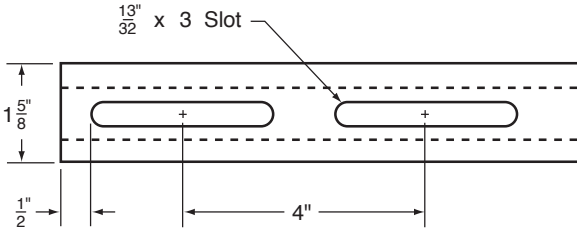




Wt./100 Ft.: 139

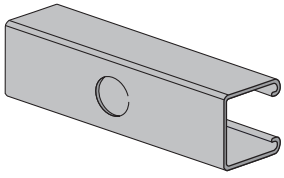
H-134-OS3

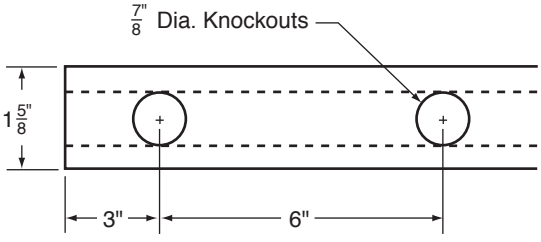




Wt./100 Ft.: 130

H-134-KO

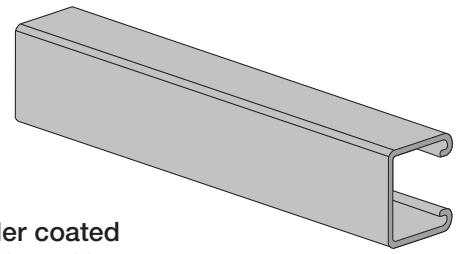


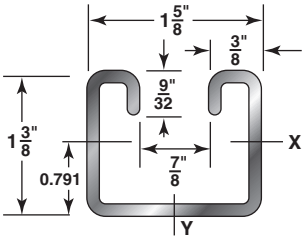


Wt./100 Ft.: 145

H-142

1⅜" X 1⅝"
12 Gauge Channel
wt./100 ft. - 176#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-142	1.76	0.500	0.123	0.159	0.496	0.206	0.253	0.642

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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

NR = Not Recommended

** 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.

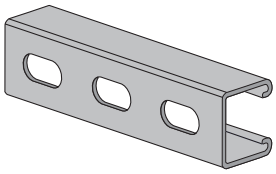
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

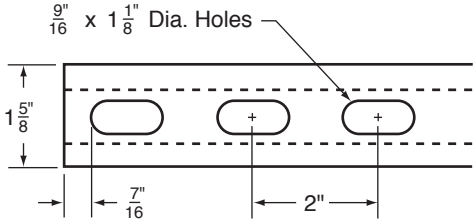
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%, OS3 by 90%,
RS (9/16 holes) by 88%, RS-MOD (¾ holes) by 85%,
KO by 82%.

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

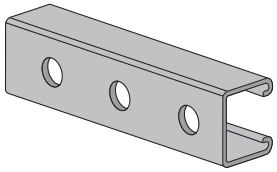
H-142-OS

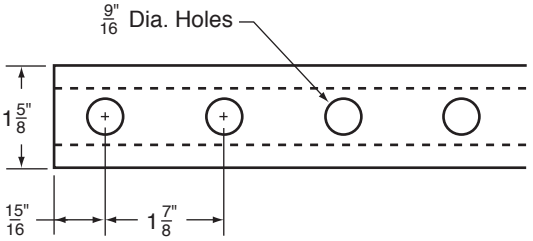




Wt./100 Ft.: 171

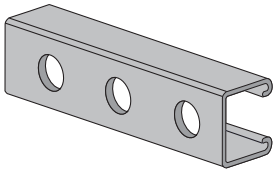
H-142-RS

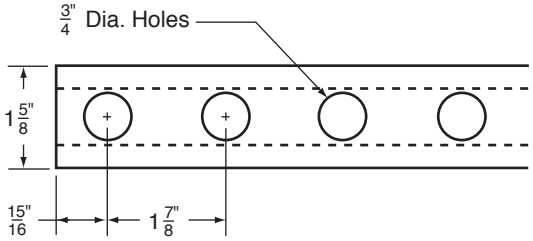




Wt./100 Ft.: 171

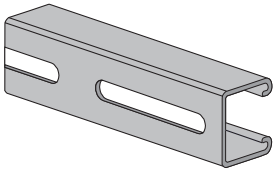
H-142-RS-MOD

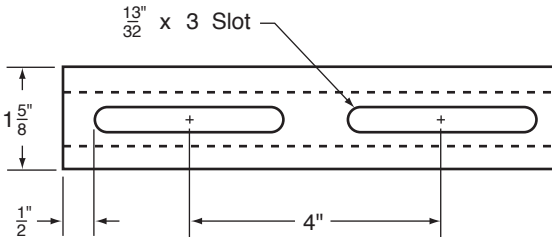




Wt./100 Ft.: 169

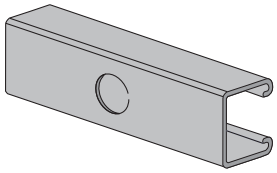
H-142-OS3

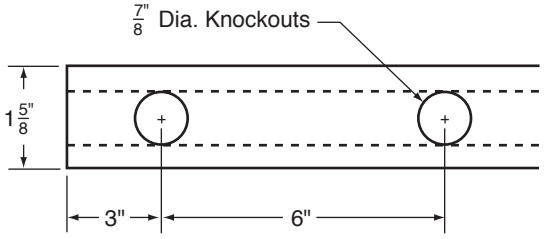




Wt./100 Ft.: 161

H-142-KO

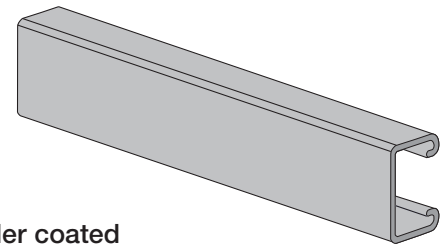


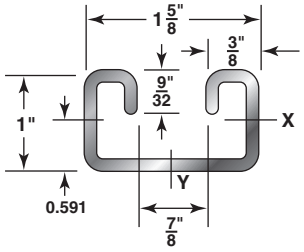


Wt./100 Ft.: 176

H-152

1" X 1⅝"
12 Gauge Channel
wt./100 ft. - 149#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-152	1.49	0.423	0.055	0.095	0.361	0.162	0.199	0.619

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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

NR = Not Recommended

** 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.

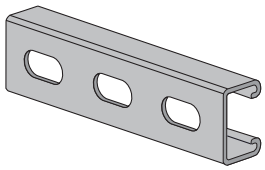
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

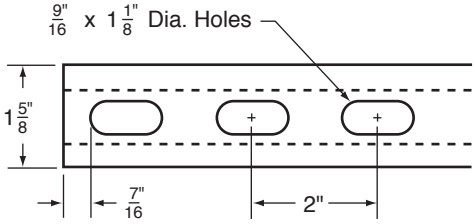
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%, OS3 by 90%,
RS (9/16 holes) by 88%, RS-MOD (¾ holes) by 85%,
KO by 82%.

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

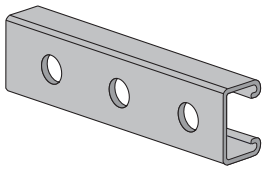
H-152-OS

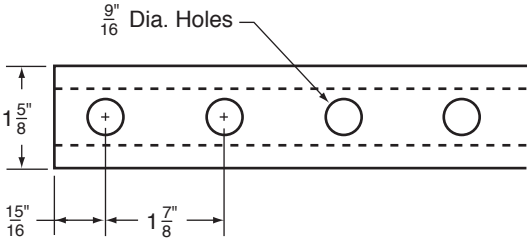




Wt./100 Ft.: 144

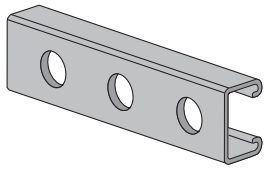
H-152-RS

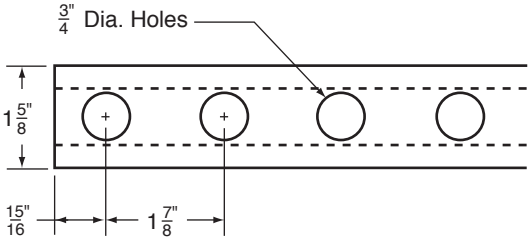




Wt./100 Ft.: 144

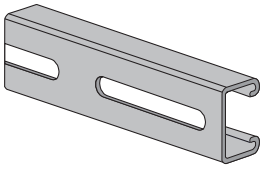
H-152-RS-MOD

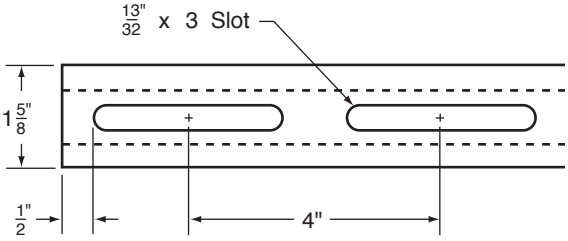




Wt./100 Ft.: 142

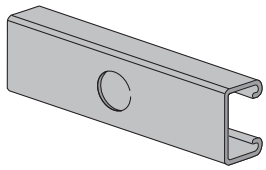
H-152-OS3

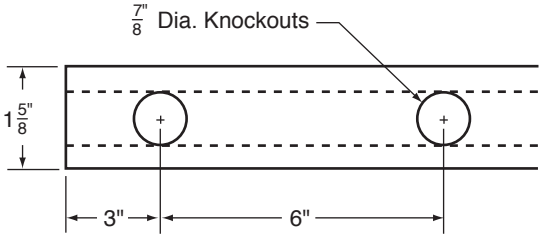




Wt./100 Ft.: 134

H-152-KO

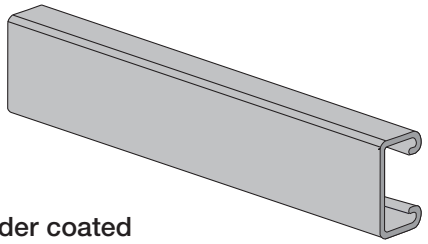


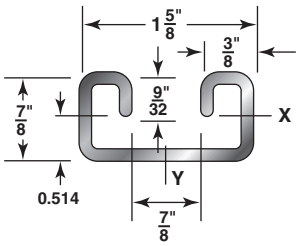


Wt./100 Ft.: 149

H-172

7/8" X 1 5/8"
12 Gauge Channel
wt./100 ft. - 139#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-172	1.39	0.397	0.039	0.077	0.313	0.147	0.181	0.609

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (Lbs)
12	1,280	0.03	1,280	1,280	1,280	1.4	2,550	8,760	8,550	8,250	7,940
18	860	0.06	860	860	760	2.1	2,410	8,280	7,940	7,490	6,950
24	640	0.10	640	640	430	2.8	2,260	7,780	7,350	6,500	5,560
30	510	0.16	510	410	270	3.5	2,060	7,320	6,500	5,330	4,180
36	430	0.23	380	280	190	4.2	1,860	6,620	5,560	4,180	2,960
42	370	0.31	280	210	140	4.9	1,660	5,860	4,630	3,140	2,180
48	320	0.40	210	160	110	5.6	1,460	5,090	3,740	2,400	1,670
60	260	0.63	140	100	70	7.0	1,130	3,640	2,400	1,540	**
72	210	0.90	90	70	50	8.3	890	2,530	1,670	**	**
84	180	1.23	70	50	30	9.7	**	1,860	**	**	**
96	160	1.61	50	40	30	11.1	**	1,420	**	**	**
108	140	2.04	40	30	20	12.5	**	**	**	**	**
120	130	2.51	30	30	20	13.9	**	**	**	**	**
144	110	3.62	20	20	NR	16.7	**	**	**	**	**
168	90	4.92	20	NR	NR	19.5	**	**	**	**	**
180	90	5.65	NR	NR	NR	20.9	**	**	**	**	**
192	80	6.43	NR	NR	NR	22.2	**	**	**	**	**
216	70	8.14	NR	NR	NR	25.0	**	**	**	**	**
240	60	10.05	NR	NR	NR	27.8	**	**	**	**	**

Bearing Load may limit load

NR = Not Recommended

** 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.

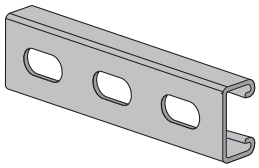
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

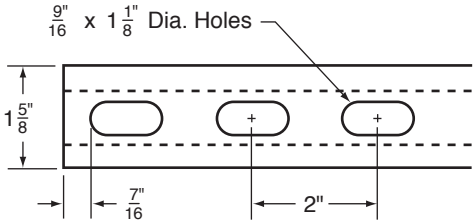
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%, OS3 by 90%,
RS (9/16 holes) by 88%, RS-MOD (3/4 holes) by 85%,
KO by 82%.

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

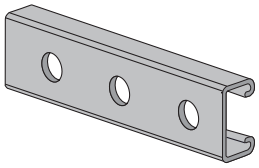
H-172-OS

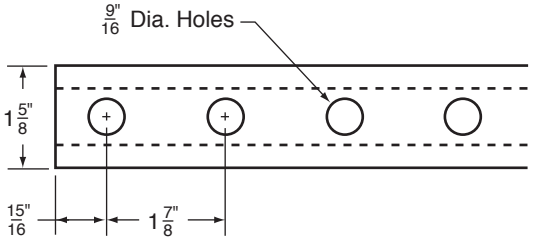




Wt./100 Ft.: 134

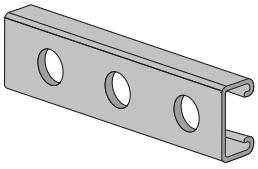
H-172-RS

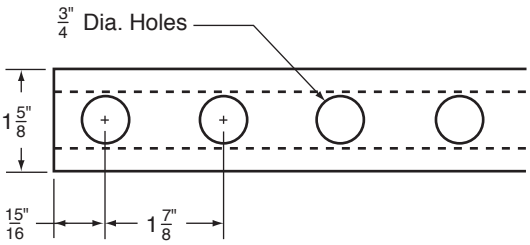




Wt./100 Ft.: 134

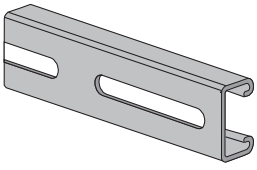
H-172-RS-MOD

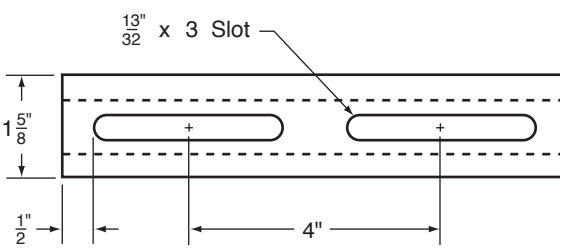




Wt./100 Ft.: 133

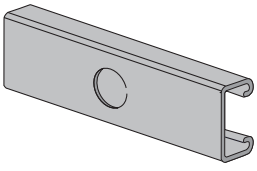
H-172-OS3

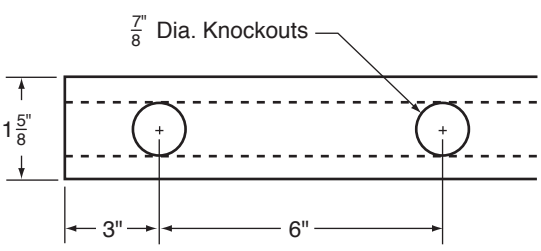




Wt./100 Ft.: 124

H-172-KO

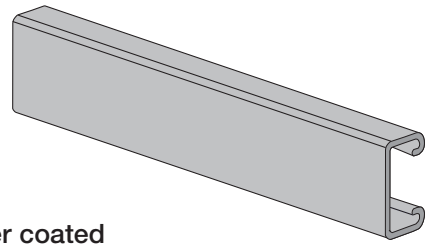


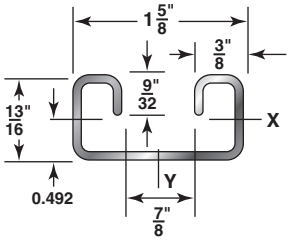


Wt./100 Ft.: 139

H-162

$^{13}/_{16}$" X $1^{5}/_{8}$"
12 Gauge Channel
wt./100 ft. - 135#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-162	1.37	0.384	0.032	0.067	0.289	0.139	0.171	0.602

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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

NR = Not Recommended

** 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.

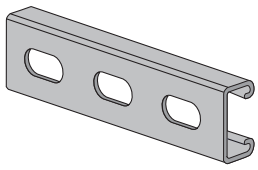
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

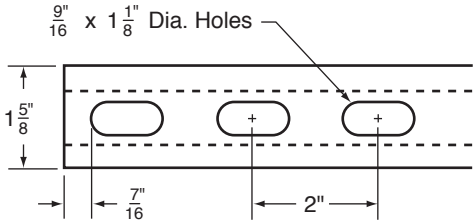
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%, OS3 by 90%,
RS ($^{9}/_{16}$ holes) by 88%, RS-MOD ($^{3}/_{4}$ holes) by 85%,
KO by 82%,

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

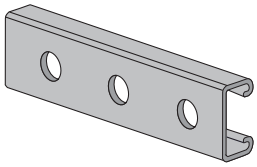
H-162-OS

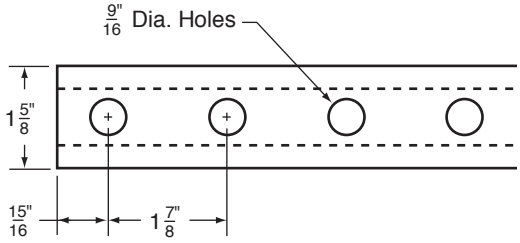




Wt./100 Ft.: 130

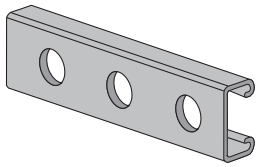
H-162-RS

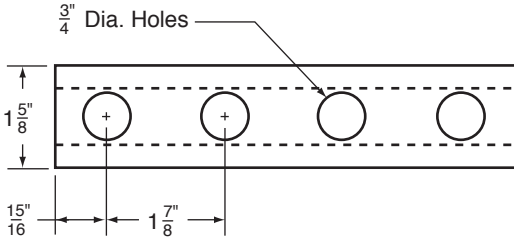




Wt./100 Ft.: 130

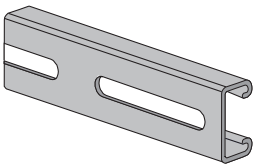
H-162-RS-MOD

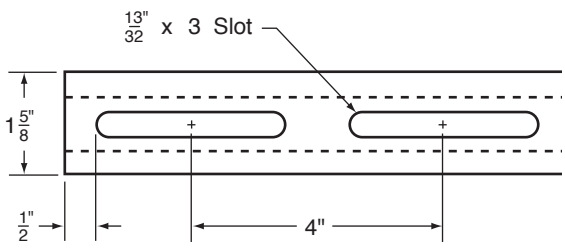




Wt./100 Ft.: 129

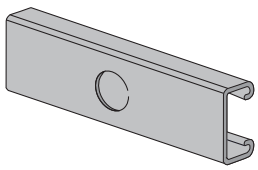
H-162-OS3

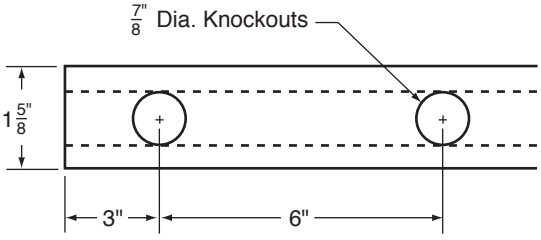




Wt./100 Ft.: 120

H-162-KO

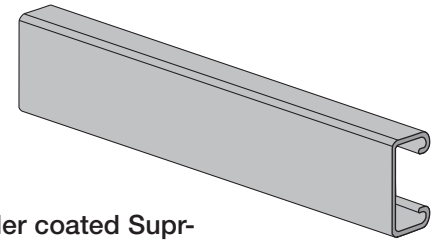


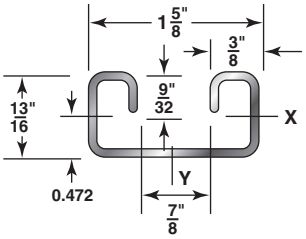


Wt./100 Ft.: 135

H-164

$^{13}/_{16}$" X $1^{5}/_{8}$"
14 Gauge Channel
wt./100 ft. - 103#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-164	1.03	0.294	0.027	0.058	0.303	0.110	0.135	0.612

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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

NR = Not Recommended

** 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.

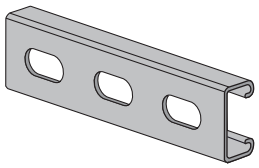
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

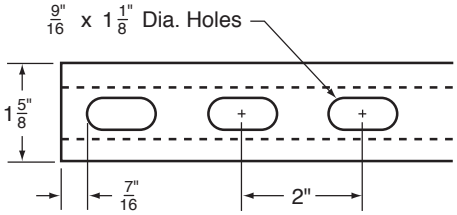
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%, OS3 by 90%,
RS ($^{9}/_{16}$ holes) by 88%, RS-MOD ($^{3}/_{4}$ holes) by 85%,
KO by 82%,

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

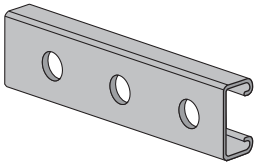
H-164-OS

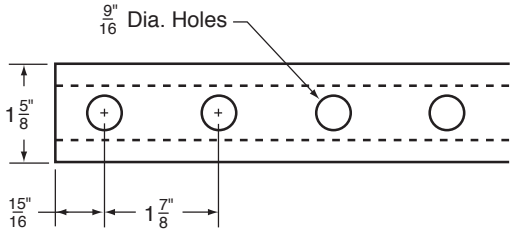




Wt./100 Ft.: 98

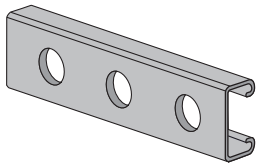
H-164-RS

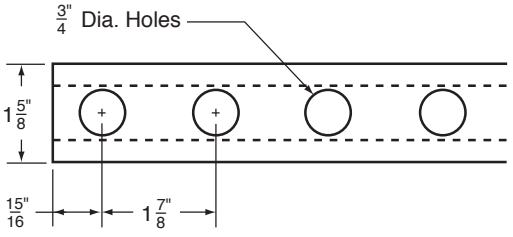




Wt./100 Ft.: 98

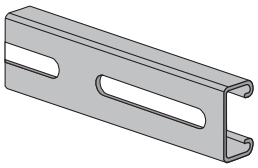
H-164-RS-MOD

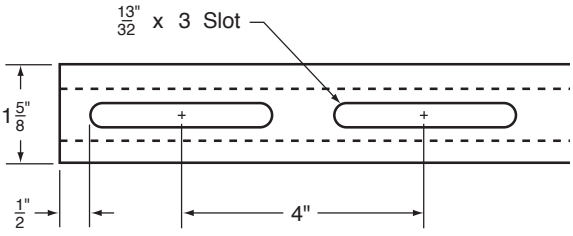




Wt./100 Ft.: 97

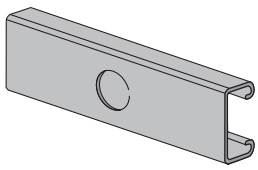
H-164-OS3

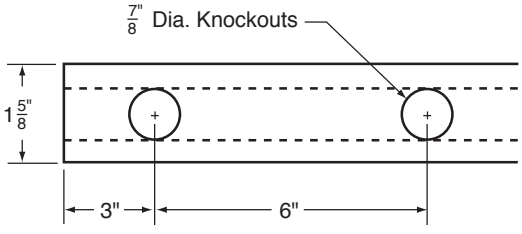




Wt./100 Ft.: 94

H-164-KO

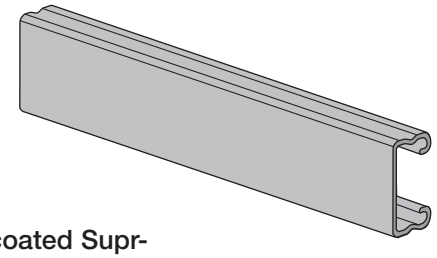


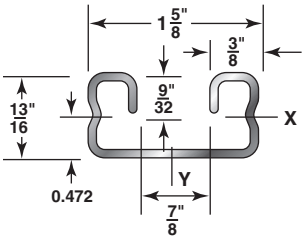


Wt./100 Ft.: 103

H-166-G

$^{13}/_{16}$" X $1^{5}/_{8}$"
16 Gauge Channel
wt./100 ft. - 86#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-166-G	0.86	0.236	0.022	0.047	0.305	0.089	0.109	0.614

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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

NR = Not Recommended

** 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.

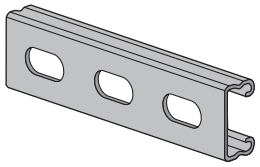
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

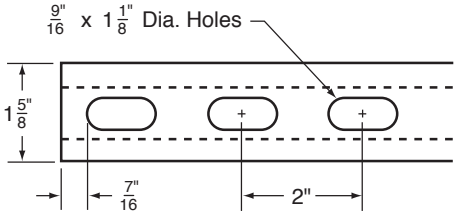
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%, OS3 by 90%,
RS ($^{9}/_{16}$ holes) by 88%, RS-MOD ($^{3}/_{4}$ holes) by 85%,
KO by 82%.

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

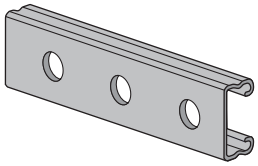
H-166-G-OS

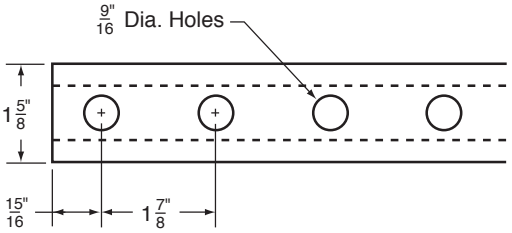




Wt./100 Ft.: 80

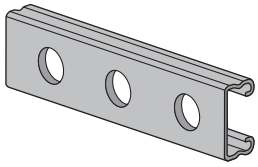
H-166-G-RS

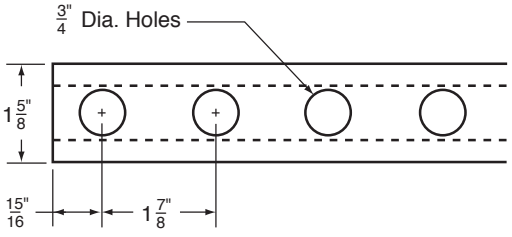




Wt./100 Ft.: 83

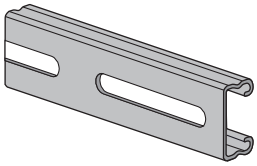
H-166-G-RS-MOD

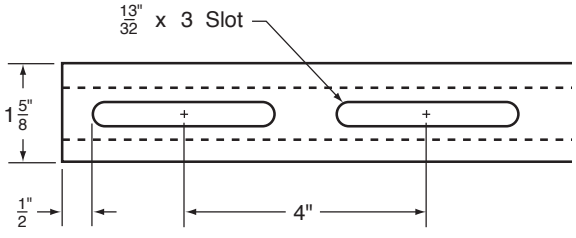




Wt./100 Ft.: 81

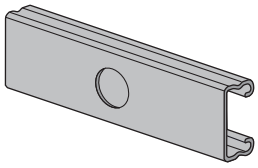
H-166-G-OS3

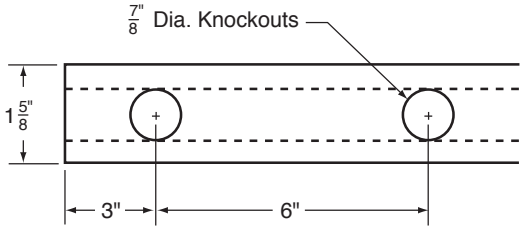




Wt./100 Ft.: 80

H-166-G-KO





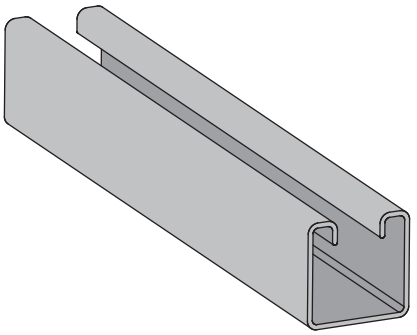
Wt./100 Ft.: 86

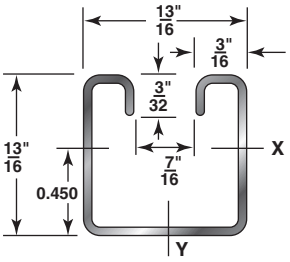
H-179

MINI STRUT

13/16" X 13/16"
19 Gauge Channel
wt./100 ft. - 40#

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





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-179	0.40	0.1076	0.009	0.020	0.292	0.012	0.029	0.332

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

ALLOWABLE COLUMN LOADS (LBS)

Catalog No.	12"	18"	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
H-179	1,246	1,010	777	600	493	419	364	-	-	-	-	-	-

ALLOWABLE BEAM LOADS (LBS)

Catalog No.	12"	18"	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"	
	330	220	165	132	110	94	83	66	55	47	41	37	33	1
H-179	-	-	150	96	67	49	38	24	17	12	9	7	6	2
	0.027	0.062	0.110	0.171	0.247	0.336	0.439	0.685	0.987	1.344	1.755	2.221	2.742	3

Allowable Uniform Beam Load based on calculations using 25000 psi Stress. **1**

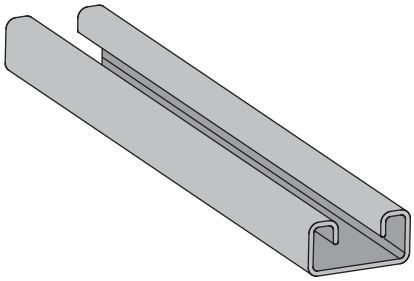
Allowable Uniform Load at Maximum Deflection = L/240 of Span. **2**

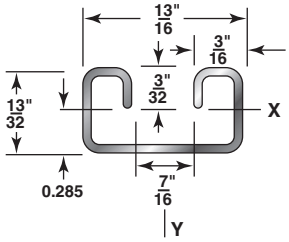
Beam Deflection in inch, @ 25000 psi. **3**

H-189 MINI STRUT

$^{13}/_{32}$" X $^{13}/_{16}$"
19 Gauge Channel
wt./100 ft. - 28#

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





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-189	0.28	0.0743	0.002	0.007	0.147	0.007	0.017	0.305

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

ALLOWABLE COLUMN LOADS (LBS)

Catalog No.	12"	18"	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
H-189	1,235	748	421	-	-	-	-	-	-	-	-	-	-

ALLOWABLE BEAM LOADS (LBS)

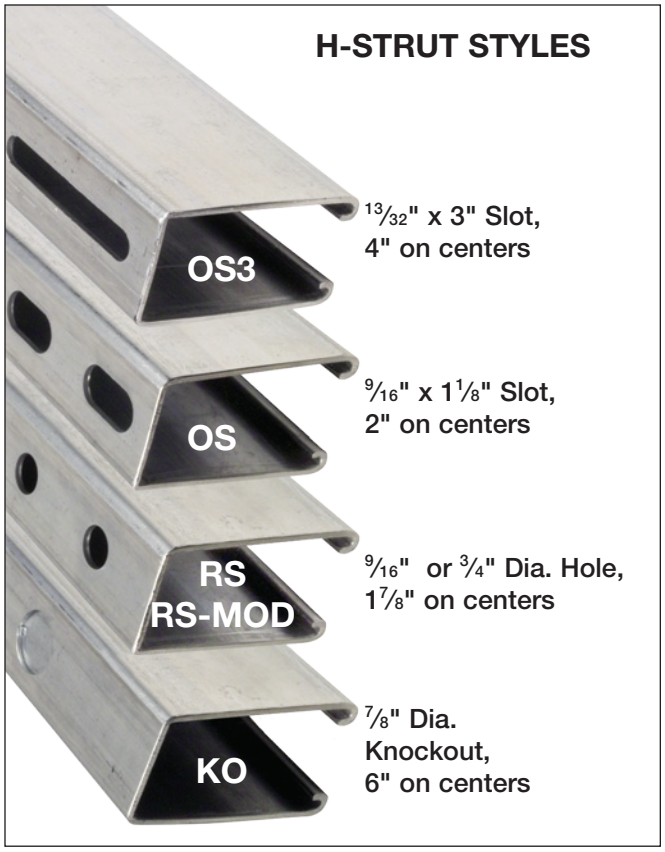
Catalog No.	12"	18"	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"	
H-189	109	73	54	44	36	31	27	22	18	16	14	12	11	1
	105	47	26	17	12	9	7	4	3	2	2	1	1	2
	0.052	0.117	0.208	0.325	0.469	0.638	0.833	1.302	1.875	2.551	3.332	4.218	5.207	3

Allowable Uniform Beam Load based on calculations using 25000 psi Stress. **1**

Allowable Uniform Load at Maximum Deflection = L/240 of Span. **2**

Beam Deflection in inch, @ 25000 psi. **3**

H-STRUT CHANNEL FABRICATION DATA



OS CHANNEL

Catalog No.	Gauge	Dimensions	Wt./100 Ft.
H-112-OS	12	3 1/4 X 1 5/8	308
H-122-OS	12	2 7/16 X 1 5/8	254
H-132-OS	12	1 5/8 X 1 5/8	189
H-134-OS	14	1 5/8 X 1 5/8	140
H-142-OS	12	1 3/8 X 1 5/8	171
H-152-OS	12	1 X 1 5/8	144
H-162-OS	12	13/16 X 1 5/8	130
H-164-OS	14	13/16 X 1 5/8	98
H-166-G-OS	16	13/16 X 1 5/8	98
H-172-OS	12	7/8 X 1 5/8	134

Page Notes:
Channel Fabrication Data also available in Stainless Steel, see pages 123 - 132

OS3 CHANNEL

Catalog No.	Gauge	Dimensions	Wt./100 Ft.
H-112-OS3	12	3 1/4 X 1 5/8	298
H-122-OS3	12	2 7/16 X 1 5/8	239
H-132-OS3	12	1 5/8 X 1 5/8	179
H-134-OS3	14	1 5/8 X 1 5/8	130
H-142-OS3	12	1 3/8 X 1 5/8	161
H-152-OS3	12	1 X 1 5/8	134
H-162-OS3	12	13/16 X 1 5/8	125
H-164-OS3	14	13/16 X 1 5/8	94
H-166-G-OS3	16	13/16 X 1 5/8	94
H-172-OS3	12	7/8 X 1 5/8	124

RS 9/16 CHANNEL

Catalog No.	Gauge	Dimensions	Wt./100 Ft.
H-112-RS	12	3 1/4 X 1 5/8	308
H-122-RS	12	2 7/16 X 1 5/8	249
H-132-RS	12	1 5/8 X 1 5/8	189
H-134-RS	14	1 5/8 X 1 5/8	140
H-142-RS	12	1 3/8 X 1 5/8	171
H-152-RS	12	1 X 1 5/8	144
H-162-RS	12	13/16 X 1 5/8	130
H-164-RS	14	13/16 X 1 5/8	98
H-166-G-RS	16	13/16 X 1 5/8	98
H-172-RS	12	7/8 X 1 5/8	134

RS-MOD 3/4 CHANNEL

Catalog No.	Gauge	Dimensions	Wt./100 Ft.
H-112-RS-MOD	12	3 1/4 X 1 5/8	308
H-122-RS-MOD	12	2 7/16 X 1 5/8	249
H-132-RS-MOD	12	1 5/8 X 1 5/8	189
H-134-RS-MOD	14	1 5/8 X 1 5/8	140
H-142-RS-MOD	12	1 3/8 X 1 5/8	171
H-152-RS-MOD	12	1 X 1 5/8	144
H-162-RS-MOD	12	13/16 X 1 5/8	130
H-164-RS-MOD	14	13/16 X 1 5/8	98
H-166-G-RS-MOD	16	13/16 X 1 5/8	98
H-172-RS-MOD	12	7/8 X 1 5/8	134

KO CHANNEL

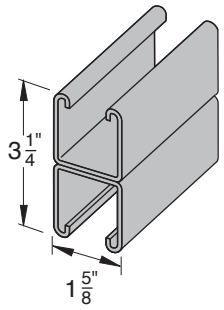
Catalog No.	Gauge	Dimensions	Wt./100 Ft.
H-112-KO	12	3 1/4 X 1 5/8	313
H-122-KO	12	2 7/16 X 1 5/8	254
H-132-KO	12	1 5/8 X 1 5/8	194
H-134-KO	14	1 5/8 X 1 5/8	145
H-142-KO	12	1 3/8 X 1 5/8	176
H-152-KO	12	1 X 1 5/8	149
H-162-KO	12	13/16 X 1 5/8	135
H-164-KO	14	13/16 X 1 5/8	103
H-166-G-KO	16	13/16 X 1 5/8	103
H-172-KO	12	7/8 X 1 5/8	139

WELDED COMBINATIONS

All welded combinations illustrated below are available in any of our H-Strut channels (1⅝" x 1⅝" 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 A



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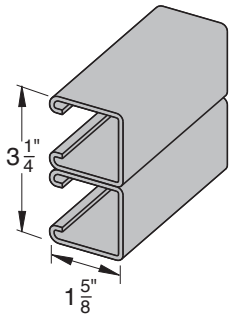

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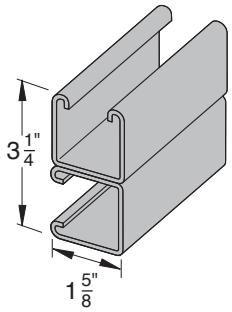
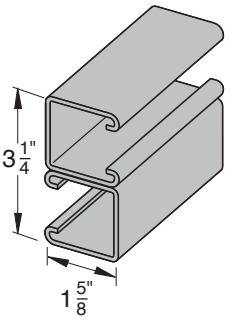


Suffix D



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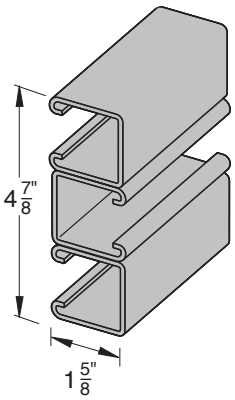
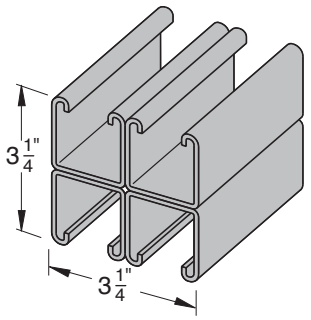
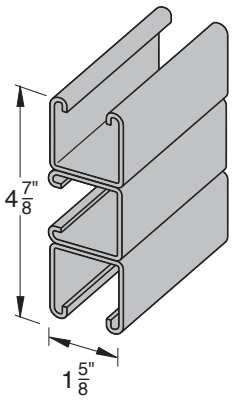


Suffix A4

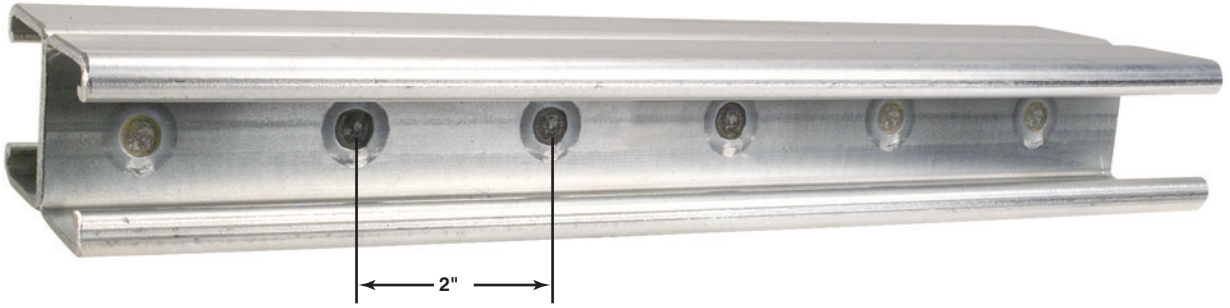


Suffix C3



NOTE: SLOTTED CHANNELS AVAILABLE IN ALL WELDED COMBINATIONS.

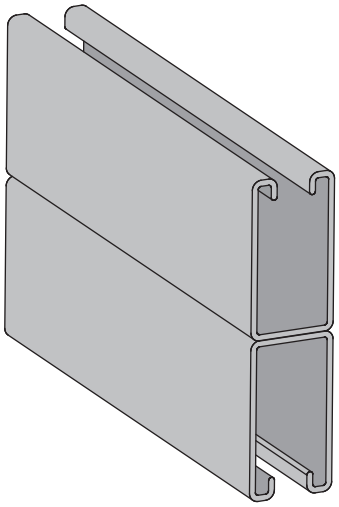
Our welded channels are spot welded 2" inches on center, dimensions shown are for welded variations of any channel with or without slotted holes.

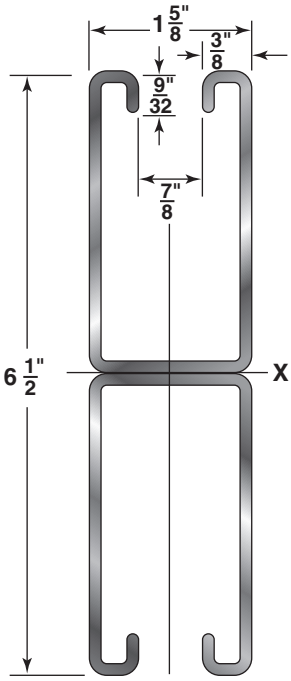


H-112-A

6½" X 1⅝"
12 Gauge Back-to-Back
wt./100 ft. - 626#

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





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in⁴	S in³	r in.	I in⁴	S in³	r in.
H-112-A	6.26	1.775	6.251	1.923	1.877	0.862	1.060	0.697

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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	**	**	**	**	**

Bearing Load may limit load

* Load limited by spot weld shear

** Not recommended - KL/r exceeds 200

Notes

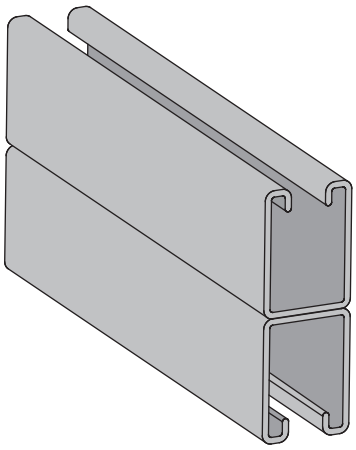
1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Refer to page 52 for reduction factors for unbraced lengths
3. Allowable beam loads are based on a uniformly loaded, simply supported 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:

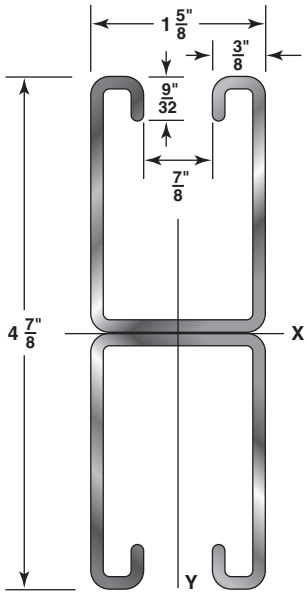
OS by 88%,
RS (9/16 holes) by 88%,
KO by 82%.
OS3 by 90%,
RS-MOD (¾ holes) by 85%,

H-122-A

4⅞" X 1⅝"
12 Gauge Back-to-Back
wt./100 ft. - 508#

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





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in⁴	S in³	r in.	I in⁴	S in³	r in.
H-122-A	5.08	1.439	2.832	1.162	1.403	0.667	0.820	0.681

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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	**	**	**	**	**

Bearing Load may limit load

* Load limited by spot weld shear

** Not recommended - KL/r exceeds 200

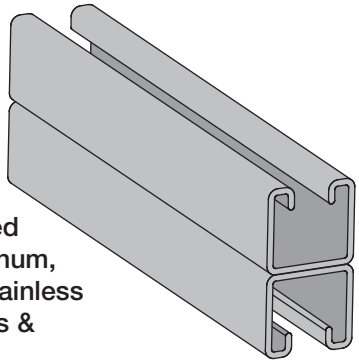
Notes

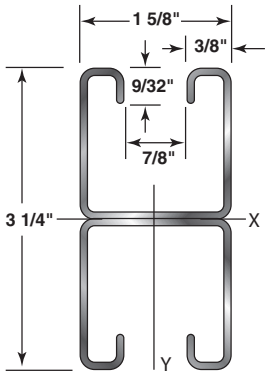
1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Refer to page 52 for reduction factors for unbraced lengths
3. Allowable beam loads are based on a uniformly loaded, simply supported 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:

OS by 88%,
RS (9/16 holes) by 88%,
KO by 82%.
OS3 by 90%,
RS-MOD (¾ holes) by 85%,

H-132-A

3¼" X 1⅝"
12 Gauge Back-to-Back
wt./100 ft. - 388#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-132-A	3.88	1.104	0.947	0.583	0.926	0.473	0.582	0.655

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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	**	**	**	**	**

Bearing Load may limit load

* Load limited by spot weld shear

** Not recommended - KL/r exceeds 200

Notes

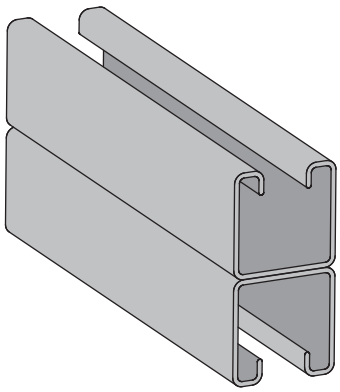
1. The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
2. Refer to page 52 for reduction factors for unbraced lengths
3. Allowable beam loads are based on a uniformly loaded, simply supported 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:

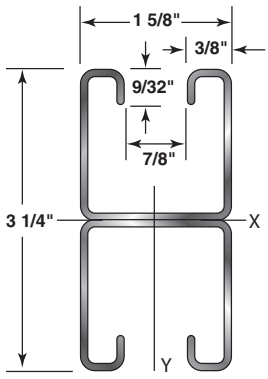
OS by 88%,
RS (9/16 holes) by 88%,
RS3 (9/16 holes) by 88%,
OS3 by 90%,
RS-MOD (¾ holes) by 85%,
KO by 82%.

H-134-A

3¼" X 1⅝"
14 Gauge Back-to-Back
wt./100 ft. - 290#

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





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-134-A	2.90	0.832	0.741	0.456	0.944	0.366	0.450	0.663

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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	**	**	**	**	**

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:

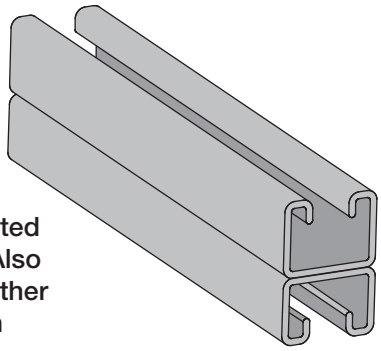
OS by 88%,
RS (9/16 holes) by 88%,
KO by 82%.

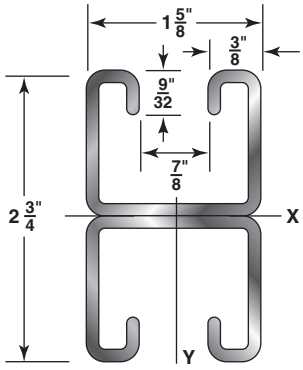
OS3 by 90%,
RS-MOD (¾ holes) by 85%,

H-142-A

2¾" X 1⅝"
12 Gauge Back-to-Back
wt./100 ft. - 352#

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





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-142-A	3.52	1.001	0.607	0.441	0.779	0.413	0.508	0.642

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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	**	**	**	**	**

Bearing Load may limit load

NR = Not Recommended

* 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:

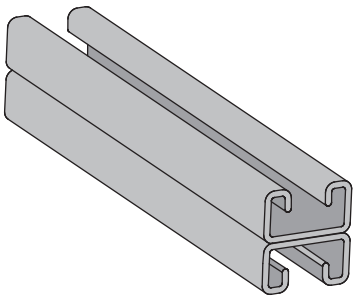
OS by 88%,
RS (9/16 holes) by 88%,
KO by 82%.

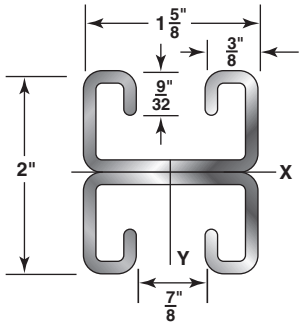
OS3 by 90%,
RS-MOD (¾ holes) by 85%,

H-152-A

2" X 1⅝"
12 Gauge Back-to-Back
wt./100 ft. - 298#

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





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-152-A	2.98	0.846	0.261	0.261	0.555	0.323	0.397	0.618

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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	**	**	**	**	**

Bearing Load may limit load

NR = Not Recommended

* 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%.

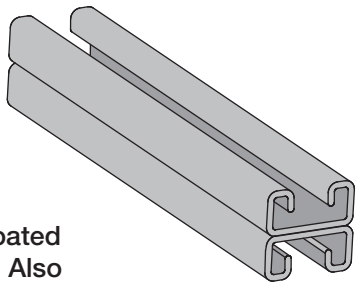
4. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

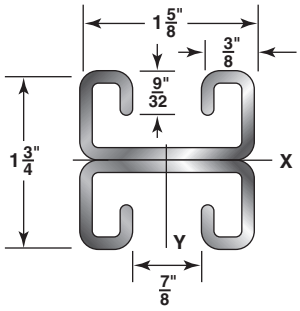
OS by 88%,
RS (9/16 holes) by 88%,
KO by 82%.

OS3 by 90%,
RS-MOD (¾ holes) by 85%,

H-172-A

1¾" X 1⅝"
12 Gauge Back-to-Back
wt./100 ft. - 278#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-172-A	2.78	0.794	0.184	0.210	0.481	0.293	0.360	0.607

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (Lbs)
12	1,850 *	0.01	1,850 *	1,850 *	1,850 *	2.8	4,480	18,240	18,090	17,840	17,550
18	1,850 *	0.03	1,850 *	1,850 *	1,850 *	4.2	4,390	17,880	17,550	17,030	16,410
24	1,760	0.06	1,760	1,760	1,760	5.6	4,260	17,390	16,830	15,940	14,930
30	1,410	0.09	1,410	1,410	1,290	7.0	4,110	16,780	15,940	14,650	13,220
36	1,180	0.13	1,180	1,180	890	8.3	3,930	16,060	14,930	13,220	11,390
42	1,010	0.18	1,010	980	660	9.7	3,740	15,260	13,810	11,700	9,560
48	880	0.23	880	750	500	11.1	3,540	14,380	12,620	10,160	7,810
60	710	0.37	640	480	320	13.9	3,110	12,470	10,160	7,250	5,040
72	590	0.53	450	340	220	16.7	2,690	10,470	7,810	5,040	3,500
84	500	0.72	330	250	160	19.5	2,290	8,520	5,780	3,700	**
96	440	0.94	250	190	130	22.2	1,960	6,700	4,430	2,830	**
108	390	1.18	200	150	100	25.0	1,700	5,300	3,500	**	**
120	350	1.46	160	120	80	27.8	1,480	4,290	2,830	**	**
144	290	2.10	110	80	60	33.4	**	2,980	**	**	**
168	250	2.86	80	60	40	38.9	**	**	**	**	**
180	240	3.29	70	50	NR	41.7	**	**	**	**	**
192	220	3.74	60	50	NR	44.5	**	**	**	**	**
216	200	4.74	NR	NR	NR	50.0	**	**	**	**	**
240	180	5.85	NR	NR	NR	55.6	**	**	**	**	**

Bearing Load may limit load

NR = Not Recommended

* 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:

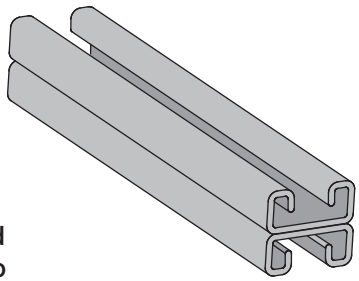
OS by 88%,
RS (9/16 holes) by 88%,
KO by 82%.

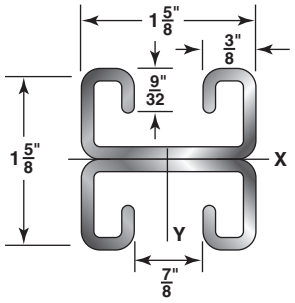
OS3 by 90%,
RS-MOD (¾ holes) by 85%,

H-162-A

1⅝" X 1⅝"
12 Gauge Back-to-Back
wt./100 ft. - 270#

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





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-162-A	2.70	0.769	0.152	0.187	0.445	0.278	0.342	0.601

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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	**	**	**	**	**

Bearing Load may limit load

NR = Not Recommended

* 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%.

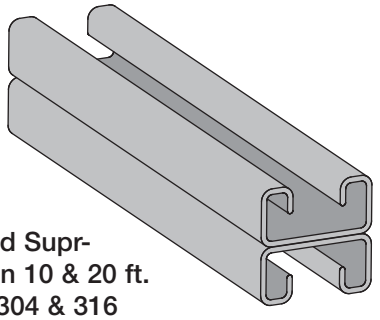
4. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

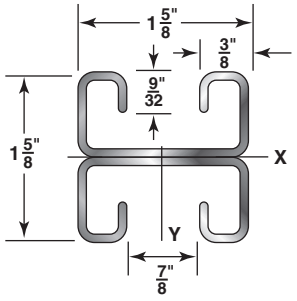
OS by 88%,
RS (9/16 holes) by 88%,
KO by 82%.

OS3 by 90%,
RS-MOD (¾ holes) by 85%,

H-164-A

1⅝" X 1⅝"
14 Gauge Back-to-Back
wt./100 ft. - 206#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-164-A	2.06	0.589	0.123	0.151	0.457	0.220	0.271	0.611

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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	**	**	**	**	**

Bearing Load may limit load

NR = Not Recommended

* 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%.

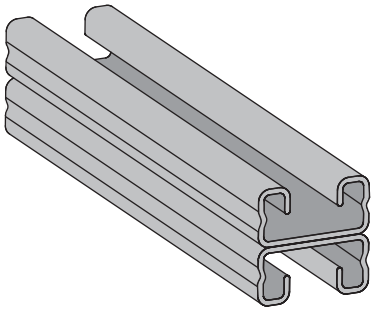
4. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

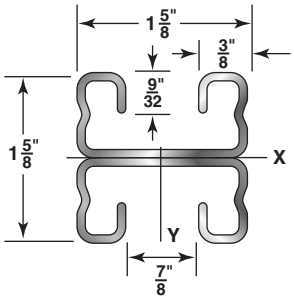
OS by 88%,
RS (9/16 holes) by 88%,
KO by 82%.

OS3 by 90%,
RS-MOD (¾ holes) by 85%,

H-166-G-A

1⅝" X 1⅝"
16 Gauge Back-to-Back
wt./100 ft. - 172#





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

SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-166-G-A	1.72	0.472	0.102	0.125	0.465	0.177	0.218	0.612

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (Lbs)
12	810 *	0.02	810 *	810 *	810 *	1.7	2,810	10,760	10,640	10,450	10,260
18	810 *	0.04	810 *	810 *	810 *	2.6	2,740	10,480	10,260	9,950	9,640
24	810 *	0.06	810 *	810 *	810 *	3.4	2,650	10,150	9,840	9,380	8,740
30	810 *	0.10	810 *	810 *	710	4.3	2,550	9,820	9,380	8,560	7,670
36	700	0.14	700	700	500	5.2	2,430	9,450	8,740	7,670	6,540
42	600	0.19	600	550	360	6.0	2,300	8,940	8,030	6,730	5,420
48	530	0.25	530	420	280	6.9	2,170	8,390	7,290	5,790	4,360
60	420	0.39	360	270	180	8.6	1,880	7,200	5,790	4,020	2,790
72	350	0.57	250	190	120	10.3	1,610	5,970	4,360	2,790	1,940
84	300	0.77	180	140	90	12.0	1,350	4,790	3,200	2,050	**
96	260	1.01	140	100	70	13.8	1,150	3,720	2,450	**	**
108	230	1.27	110	80	60	15.5	990	2,940	1,940	**	**
120	210	1.57	90	70	40	17.2	**	2,380	**	**	**
144	180	2.27	60	50	30	20.6	**	**	**	**	**
168	150	3.08	50	30	NR	24.1	**	**	**	**	**
180	140	3.54	40	30	NR	25.8	**	**	**	**	**
192	130	4.03	30	30	NR	27.5	**	**	**	**	**
216	120	5.10	NR	NR	NR	31.0	**	**	**	**	**
240	110	6.29	NR	NR	NR	34.4	**	**	**	**	**

Bearing Load may limit load

NR = Not Recommended

* 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:

OS by 88%,
RS (9/16 holes) by 88%,
KO by 82%.

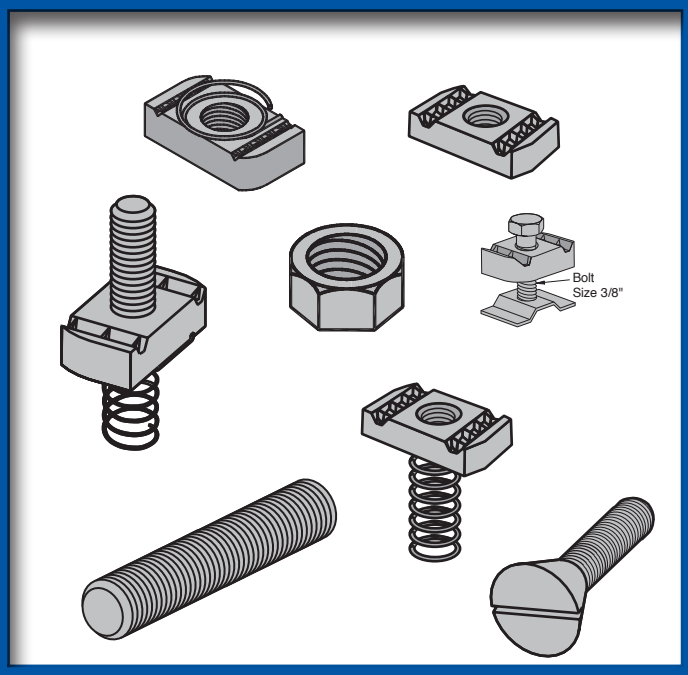
OS3 by 90%,
RS-MOD (¾ holes) by 85%,

LATERAL BRACING LOAD REDUCTION CHARTS

Span (In)	Single Channel									
	H-112	H-122	H-132	H-134	H-142	H-152	H-162	H-164	H-166-G	H-172
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
24	0.98	0.99	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	0.92	0.94	0.97	0.94	0.98	1.00	0.99	1.00	0.98	1.00
36	0.85	0.88	0.93	0.89	0.96	0.98	0.97	0.97	0.95	1.00
42	0.78	0.82	0.90	0.83	0.93	0.97	0.95	0.95	0.92	1.00
48	0.70	0.77	0.87	0.77	0.91	0.96	0.94	0.93	0.89	0.99
60	0.55	0.67	0.82	0.67	0.87	0.93	0.92	0.90	0.84	0.98
72	0.44	0.58	0.77	0.58	0.84	0.92	0.91	0.87	0.79	0.96
84	0.37	0.50	0.74	0.51	0.81	0.90	0.89	0.85	0.76	0.95
96	0.33	0.45	0.70	0.46	0.78	0.88	0.87	0.83	0.73	0.93
108	0.30	0.42	0.67	0.42	0.76	0.87	0.86	0.80	0.70	0.92
120	0.27	0.39	0.64	0.39	0.73	0.85	0.85	0.78	0.67	0.90
144	0.24	0.35	0.59	0.35	0.69	0.82	0.82	0.74	0.61	0.88
168	0.22	0.32	0.54	0.32	0.65	0.79	0.79	0.70	0.56	0.85
180	0.21	0.31	0.52	0.30	0.62	0.77	0.77	0.68	0.54	0.83
192	0.20	0.30	0.50	0.29	0.60	0.76	0.76	0.66	0.52	0.82
216	0.19	0.28	0.46	0.27	0.56	0.72	0.73	0.62	0.48	0.79
240	0.18	0.26	0.43	0.26	0.52	0.69	0.70	0.58	0.44	0.76

Span (In)	Welded Channel									
	H-112-A	H-122-A	H-132-A	H-134-A	H-142-A	H-152-A	H-162-A	H-164-A	H-166-G-A	H-172-A
12	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
18	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
24	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
30	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
36	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
42	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00
48	0.97	0.98	1.00	0.98	1.00	1.00	1.00	0.99	0.98	1.00
60	0.90	0.93	0.96	0.93	0.98	0.99	1.00	0.96	0.93	1.00
72	0.83	0.87	0.92	0.88	0.95	0.97	0.97	0.92	0.88	0.97
84	0.76	0.81	0.89	0.82	0.91	0.94	0.95	0.88	0.84	0.94
96	0.68	0.75	0.85	0.76	0.88	0.92	0.92	0.84	0.79	0.92
108	0.61	0.70	0.81	0.71	0.85	0.89	0.90	0.81	0.74	0.89
120	0.53	0.64	0.77	0.65	0.82	0.86	0.88	0.77	0.70	0.87
144	0.42	0.53	0.70	0.54	0.75	0.81	0.83	0.70	0.60	0.82
168	0.35	0.44	0.62	0.45	0.69	0.76	0.78	0.62	0.52	0.77
180	0.32	0.41	0.59	0.42	0.66	0.74	0.76	0.59	0.48	0.74
192	0.30	0.38	0.55	0.39	0.63	0.71	0.73	0.55	0.45	0.72
216	0.26	0.34	0.49	0.35	0.57	0.66	0.69	0.49	0.40	0.67
240	0.23	0.30	0.44	0.31	0.51	0.61	0.64	0.44	0.36	0.62

GRIP LOCK NUTS & HARDWARE



Specifications

GENERAL

H-STRUT Grip Lock Nuts are designed with specially formed teeth in the parallel channel recesses to grip the returned lip of the channel. The shearing action of the teeth assures positive locking of the H-STRUT channels to the fittings.

MATERIAL

H-STRUT Grip Lock Nuts are manufactured from mild steel bars, and are case hardened to a depth of 0.003" to 0.005" after machining, conforming to ASTM A-576 GR1015. Selected sizes also available in Stainless Steel, see page 134.

FINISH

All H-STRUT Grip Lock Nuts and Hardware have an electro-galvanized finish (ASTM B-633), unless otherwise noted.

ORDERING

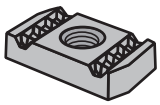
On the H-STRUT Grip Lock Nuts, consult the selection table which shows the correct locking nut for each size channel.

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

GRIP LOCK NUTS

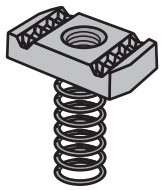
DATA:
The selection table shows the correct locking nuts for each size channel.

Without Spring



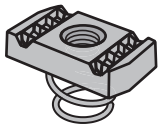
Cat. No.	Size	Thd.	Thk.	Wt./100 Pcs.	Channel
N-800	1/4"	20	1/4"	6	All H-Strut
N-801	3/8"	16	3/8"	9	
N-802	1/2"	13	3/8"	9	
N-803	1/2"	13	1/2"	12	H-122, H-132, H-134, H-142, H-112
N-804	5/8"	11	7/16"	20	
N-805	3/4"	10	7/16"	18	
N-809	7/8"	9	7/16"	16	
N-806	5/8"	11	3/8"	14	All H-Strut
N-807	3/4"	10	3/8"	14	
N-808	5/16"	18	3/8"	7	

Long Spring



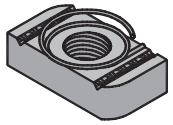
Cat. No.	Size	Thd.	Thk.	Wt./10 Pcs.	Channel
N-830	1/4"	20	1/4"	7	H-122, H-112
N-831	3/8"	16	3/8"	10	
N-832	1/2"	13	3/8"	10	
N-833	1/2"	13	1/2"	13	
N-834	5/8"	11	7/16"	23	
N-835	3/4"	10	7/16"	20	
N-838	5/16"	18	3/8"	7	

Short Spring



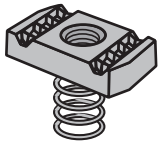
Cat. No.	Size	Thd.	Thk.	Wt./100 Pcs.	Channel
N-810	1/4"	20	1/4"	7	H-152, H-164, H-166-G, H-172
N-811	3/8"	16	3/8"	9	
N-812	1/2"	13	3/8"	9	
N-814	5/8"	11	3/8"	10	
N-815	3/4"	10	3/8"	9	
N-818	5/16"	18	3/8"	7	

Top Spring



Cat. No.	Size	Thd.	Thk.	Wt./100 Pcs.	Channel
TSN-800	1/4"	20	1/4"	6	All H-Strut
TSN-801	3/8"	16	3/8"	9	
TSN-802	1/2"	13	3/8"	9	
TSN-808	5/16"	18	3/8"	7	

Regular Spring



Cat. No.	Size	Thd.	Thk.	Wt./100 Pcs.	Channel
N-820	1/4"	20	1/4"	7	H-132, H-134, H-142
N-821	3/8"	16	3/8"	10	
N-822	1/2"	13	3/8"	10	
N-823	1/2"	13	1/2"	13	
N-824	5/8"	11	7/16"	23	
N-825	3/4"	10	7/16"	20	
N-828	5/16"	18	3/8"	7	
N-829	7/8"	9	7/16"	17	

LOAD DATA

Resistance to Slip	Pull Out Strength
12 Gauge - 1,652# (4)	12 Gauge - 1,935 (4)#
14 Gauge - 1,100#	14 Gauge - 1,140#

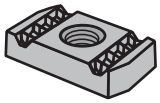
Page Notes

1. Test performed with 1/2" - 13 Bolt tightened to 50/Ft./Lbs. torque.
2. Tests performed in accordance with, "The Metal Framing Manufacturers Association" 1983 Specifications.
3. Safety Factor of 3.
4. Loads based on actual independent lab testing.

MINI STRUT - GRIP LOCK NUTS

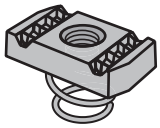
DATA:
The selection table shows the correct locking nuts for each size channel.

Without Spring



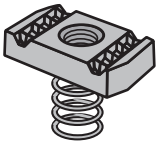
Cat. No.	Size	Thd.	Thk.	Wt./100 Pcs.	Channel
N-841	8	32	5/32"	1	H-179, H-189
N-842	10	32	5/32"	1	
N-843	10	24	5/32"	1	
N-844	1/4"	20	5/32"	1	

Short Spring



Cat. No.	Size	Thd.	Thk.	Wt./100 Pcs.	Channel
N-851	8	32	5/32"	1	H-189
N-852	10	32	5/32"	1	
N-853	10	24	5/32"	1	
N-854	1/4"	20	5/32"	1	

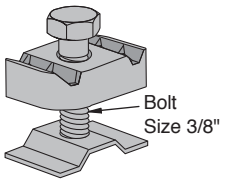
Regular Spring



Cat. No.	Size	Thd.	Thk.	Wt./100 Pcs.	Channel
N-861	8	32	5/32"	1	H-179
N-862	10	32	5/32"	1	
N-863	10	24	5/32"	1	
N-864	1/4"	20	5/32"	1	

N-8700

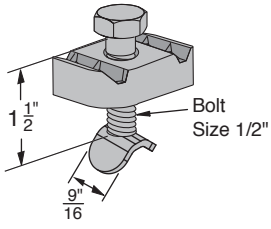
Seismic Rod Stiffener



Cat. No.	Size	Wt./100 Pcs.
N-8700	3/8" - 5/8"	16

N-8701

1/2" Mod Seismic Rod Stiffener



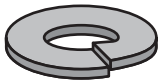
Cat. No.	Size	Wt./100 Pcs.
N-8701	1/2"	15

Page Notes:
1/4" thick, 1 5/8" wide, holes 9/16" dia., spaced 1 7/8" on center and 13/16" from end.

Finish:
Electro-galvanized

THREADED FASTENERS

Lock Washers



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

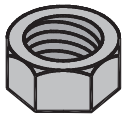
FINISH: Electro-Galvanized

Flat Washers

Size	Wt./100 Pcs.
1/4"	0.7
3/8"	1.5
1/2"	3.5

FINISH: Electro-Galvanized

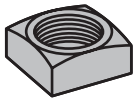
Hex Nuts



Size	Wt./100 Pcs.
1/4"	0.6
5/16"	1.2
3/8"	1.6
1/2"	4.8

FINISH: Electro-Galvanized

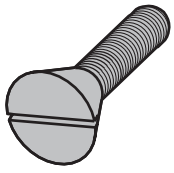
Square Nuts



Size	Wt./100 Pcs.
1/4"	0.9
5/16"	1.6
3/8"	2.7
1/2"	5.8

FINISH: Electro-Galvanized

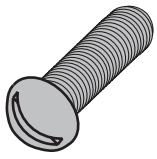
Flat Head Machine Screws



Diameter	Length	Wt./100 Pcs.
1/4"	1/2"	1.2
5/16"	1"	2.6
3/8"	2"	6.5
3/8"	2 1/4"	7.1
3/8"	2 1/2"	7.7

FINISH: Electro-Galvanized

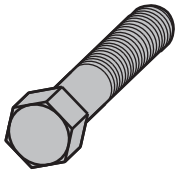
Round Head Machine Screws



Diameter	Length	Wt./100 Pcs.	Diameter	Length	Wt./100 Pcs.
1/4"	3/4"	1.2	5/16"	1 1/2"	3.6
1/4"	1"	1.5	3/8"	1"	4.1
1/4"	1 1/4"	1.8	3/8"	1 1/4"	4.7
5/16"	1"	2.6	3/8"	1 1/2"	5.3
5/16"	1 1/4"	3.0	3/8"	2 1/2"	7.7

FINISH: Electro-Galvanized

Hex Head Cap Screws



Diameter	Length	Wt./100 Pcs.	Diameter	Length	Wt./100 Pcs.
1/4"	1/2"	1.0	3/8"	2 1/4"	8.5
1/4"	3/4"	1.3	1/2"	1"	9.1
1/4"	1"	1.7	1/2"	1 1/4"	10.0
3/8"	3/4"	4.0	1/2"	1 1/2"	11.6
3/8"	1"	4.5	1/2"	1 3/4"	13.2
3/8"	1 1/4"	5.3	1/2"	2"	14.7
3/8"	1 1/2"	6.1	1/2"	2 1/4"	16.0
3/8"	2"	7.6	1/2"	2 1/2"	17.5

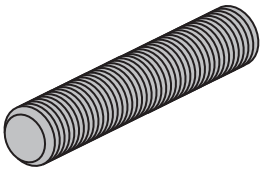
FINISH: Electro-Galvanized

For use with H-Grip Lock Nuts to secure fittings to channels.

Page Notes:
All items UNC Coarse Thread

THREADED FASTENERS

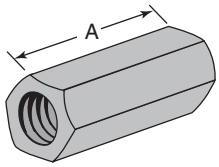
All-Thread Rod



Diameter	Thd.	Wt./100 Ft.
1/4"	20	12
3/8"	16	30
1/2"	13	54
5/8"	11	85
3/4"	10	125

FINISH: Electro-Galvanized/Plain
LENGTH: 6', 10' & 12'

Rod Couplers

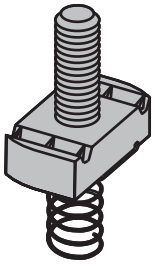


Hole Size	Thd.	"A" Length	Wt./100 Pcs.
1/4"	20	7/8"	2
3/8"	16	1 3/4"	11
1/2"	13	1 3/4"	11
5/8"	11	2 1/8"	16
3/4"	10	2 1/4"	28

FINISH: Electro-Galvanized/Plain

SN

Stud Nut with RS Spring

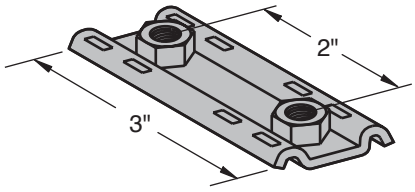


Part No.	Size	Std. Pkg.	Wt./100 Pcs.
SN	1/4" x 1"	100	8.1
SN	1/4" x 1 1/4"	100	8.3
SN	1/4" x 1 1/2"	100	8.6
SN	1/4" x 2"	100	9.1
SN	3/8" x 1"	100	13.0
SN	3/8" x 1 1/4"	100	14.0
SN	3/8" x 1 1/2"	100	14.0
SN	3/8" x 2"	100	15.0
SN	1/2" x 1"	100	15.0
SN	1/2" x 1 1/4"	100	16.0
SN	1/2" x 1 1/2"	100	17.0
SN	1/2" x 2"	100	19.0

Page Notes:
All items UNC Coarse Thread

N-8771

Double Nut

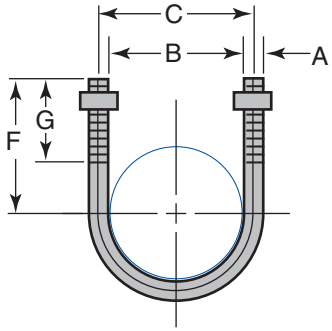


Cat. No.	Size	Thread	Wt./100 Pcs.
N-8771	3/8"	16	175

FINISH: Electro-Galvanized

THREADED FASTENERS

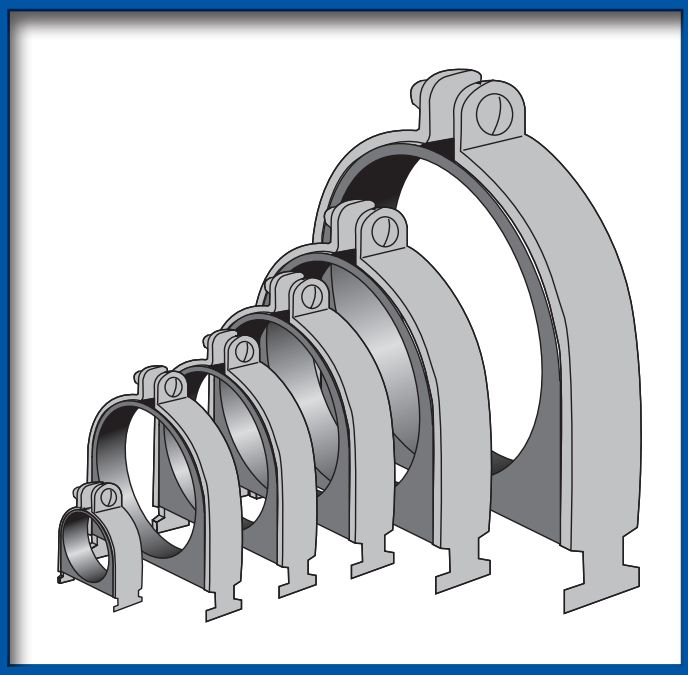
"U" Bolts



Pipe Size	Max. Recom. Load, lb.	A	B	C	F	G	Wt./100 Pcs.
1/2"	480	1/4"	7/8"	1 1/8"	1 1/4"	3/4"	8
3/4"	480	1/4"	1 1/8"	1 3/8"	1 3/8"	3/4"	9
1"	480	1/4"	1 3/8"	1 5/8"	1 3/8"	3/4"	10
1 1/4"	1,200	3/8"	1 3/4"	2 1/8"	1 3/4"	1"	27
1 1/2"	1,200	3/8"	2"	2 3/8"	1 7/8"	1"	30
2"	1,200	3/8"	2 1/2"	2 7/8"	1 1/4"	1"	34
2 1/2"	2,200	1/2"	3"	3 1/2"	2 5/8"	1 1/4"	72
3"	2,200	1/2"	3 5/8"	4 1/8"	3 1/4"	1 1/4"	80
4"	2,200	1/2"	4 5/8"	5 1/8"	3 1/2"	1 1/4"	95
5"	2,200	1/2"	5 5/8"	6 1/8"	4 1/4"	1 1/4"	113
6"	3,600	5/8"	6 3/4"	7 3/8"	4 3/4"	1 1/4"	124
8"	3,600	5/8"	8 3/4"	9 3/8"	5 3/4"	1 1/4"	210
10"	5,400	3/4"	10 7/8"	11 3/4"	7"	1 1/2"	268
12"	7,500	7/8"	12 7/8"	13 3/4"	7 7/8"	1 1/2"	320

FINISH: Electro-Galvanized/Plain

Page Notes:
All items UNC Coarse Thread



SPECIFICATIONS

GENERAL

H-STRUT Pipe Clamps are all manufactured to fit into the standard openings of 1⅝" channel to support runs of piping where desired, to secure the pipe in place.

MATERIAL

H-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

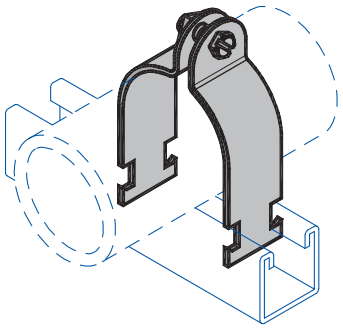
H-STRUT pipe clamps are available in the following finishes:

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.

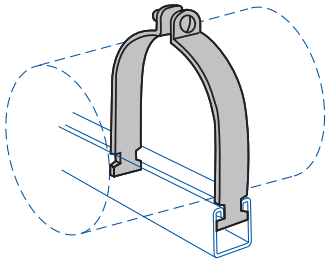
C-1100
EMT Clamps



Nom. Comb. Size	O.D. Size	Steel Ga.	Wt./100 Pcs.	Std. Pkg.
3/8"	0.577	16	9	100
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

FINISH: Electro-Galvanized, other finishes available upon request.
ORDERING: Specify figure number and pipe size.

C-1104
Universal Clamps



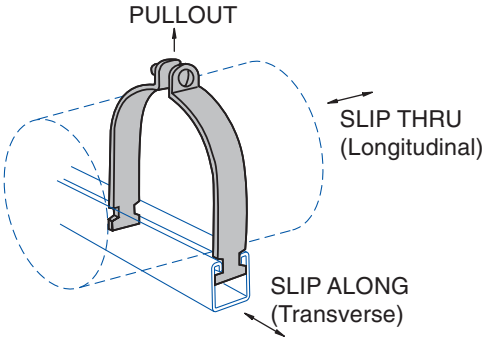
Nom. Size for E.M.T. Rigid Copper Clamps	O.D. Range Min./Max.	Wt./ 100 Pcs.	Std. Pkg.
3/8"	0.557 to 0.675	12	100
1/2"	0.706 to 0.840	13	100
3/4"	0.922 to 1.050	14	100
1"	1.163 to 1.315	18	100
1 1/4"	1.510 to 1.660	21	50
1 1/2"	1.740 to 1.900	23	50
2"	2.197 to 2.375	25	50

FINISH: Electro-Galvanized, other finishes available upon request.
ORDERING: Specify figure number and pipe size.

C-1102
Rigid Conduit Clamps

Pipe Size	O.D. Size	Steel Ga.	Wt./ 100 Pcs.	Std. Pkg.
3/8"	0.675	16	12	100
1/2"	0.840	16	13	100
3/4"	1.050	14	15	100
1"	1.315	14	18	100
1 1/4"	1.660	14	22	50
1 1/2"	1.900	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	20
6"	6.625	10	107	20
8"	8.625	10	133	Bulk
10"	10.75	10	143	Bulk

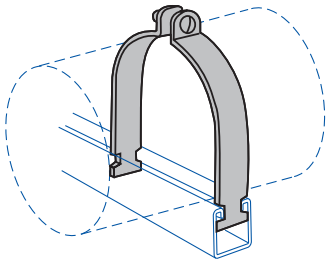
FINISH: Electro-Galvanized, other finishes available upon request.
ORDERING: Specify figure number and pipe size.



Nominal Pipe Size	Design Loads *		
	Slip Thru (lbs)	Slip Along (lbs)	Pullout (lbs)
1/2"	213	77	907
3/4"	142	169	992
1"	131	174	806
1 1/4"	354	150	1,160
1 1/2"	335	336	1,564
2"	405	506	1,572
2 1/2"	287	548	1,610
3"	496	452	1,317
3 1/2"	434	531	1,490
4"	518	576	1,505
5"	411	567	1,313
6"	406	563	1,531
8"	580	664	2,018

* Safety Factor 3.0

C-1101
Tubing Clamps



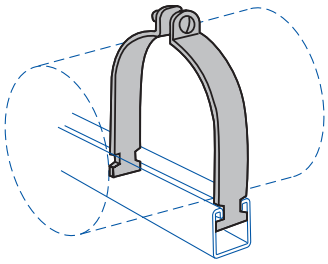
O.D. Size	Tube Size	Steel Ga.	Wt./ 100 Pcs.	Std. Pkg.
1/4"	1/8"	16	8	100
3/8"	1/4"	16	8	100
1/2"	3/8"	16	8	100
5/8"	1/2"	16	9	100
3/4"	5/8"	16	11	100
7/8"	3/4"	16	11	100
1"	7/8"	14	13	100
1 1/8"	1"	14	15	100
1 1/4"	1 1/8"	14	16	100
1 3/8"	1 1/4"	14	17	100
1 1/2"	1 3/8"	14	18	100
1 5/8"	1 1/2"	14	19	100
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	25
3 1/4"	3 1/8"	12	42	25
3 3/8"	3 1/4"	12	43	25
3 1/2"	3 3/8"	12	44	25
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

O.D. Size	Tube Size	Steel Ga.	Wt./ 100 Pcs.	Std. Pkg.
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
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"	10	83	25
5 3/4"	5 5/8"	10	84	25
5 7/8"	5 3/4"	10	85	25
6"	5 7/8"	10	94	25
6 1/8"	6"	10	94	25
6 1/4"	6 1/8"	10	96	25
6 3/8"	6 1/4"	10	98	25
6 1/2"	6 3/8"	10	99	25
6 5/8"	6 1/2"	10	100	25
6 3/4"	6 5/8"	10	102	25
6 7/8"	6 3/4"	10	104	Bulk
7"	6 7/8"	10	108	Bulk
7 1/8"	7"	10	108	Bulk
7 3/8"	7 1/4"	10	112	Bulk
7 5/8"	7 1/2"	10	115	Bulk
7 7/8"	7 3/4"	10	119	Bulk
8"	7 7/8"	10	121	Bulk

FINISH: Electro-Galvanized (EZN), other finishes available upon request.

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

C-1101-CT
Tubing Clamps

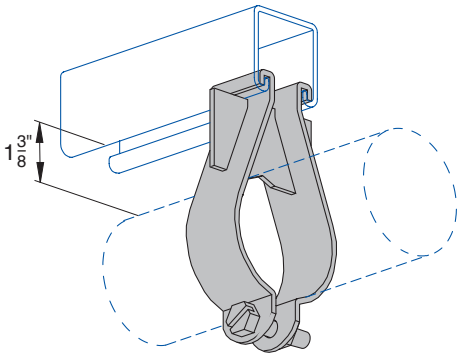


O.D. Size	Tube Size	Steel Ga.	Wt./100 Pcs.	Std. Pkg.
3/8"	1/4"	16	8	100
1/2"	3/8"	16	8	100
5/8"	1/2"	16	9	100
3/4"	5/8"	16	11	100
7/8"	3/4"	16	11	100
1 1/8"	1"	16	13	100
1 3/8"	1 1/4"	14	16	100
1 5/8"	1 1/2"	14	19	100
2 1/8"	2"	12	31	50
2 5/8"	2 1/2"	12	36	50
3 1/8"	3"	12	42	50
3 5/8"	3 1/2"	12	56	50
4 1/8"	4"	11	61	25
5 1/8"	5"	11	73	25
6 1/8"	6"	10	92	25
8 1/8"	8"	10	121	Bulk

FINISH: Copper plated.

ORDERING: Specify figure number and tube size.

C-1107
Parallel Pipe Clamps

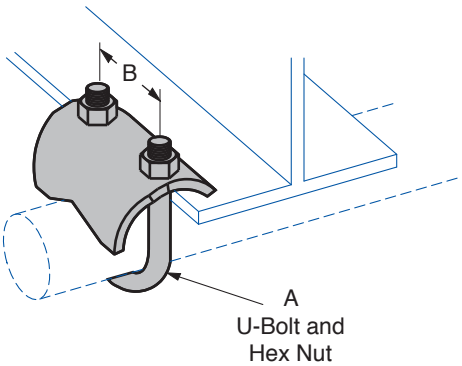


Pipe Size	O.D. Size	Wt./100 Pcs.
3/8"	0.675	27
1/2"	0.840	29
3/4"	1.050	30
1"	1.315	31
1 1/4"	1.660	38
1 1/2"	1.900	40
2"	2.375	47
2 1/2"	2.875	66
3"	3.500	78
3 1/2"	4.000	87
4"	4.500	90

FINISH: Electro-Galvanized (EZN).

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

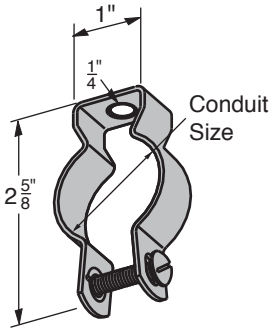
RAC
Right Angle Pipe or Conduit Clamp



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	50
3 1/2"	3/8"	4 5/8"	128	50
4"	3/8"	5 1/8"	140	50

FINISH: Electro-Galvanized (EZN).

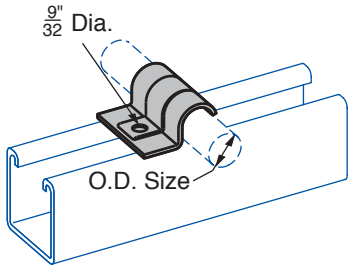
C-1105
Conduit Clamp



Diameter	Std. Pkg.	Wt./100 Pcs.
3/8" - 1/2"	50	6
3/4"	50	8
1"	50	9
1 1/4"	25	11
1 1/2"	25	19
2"	25	27

This item sold only in full box quantities.
FINISH: Electro-Galvanized (EZN).

C-1109
1-Hole Tubing Clamps

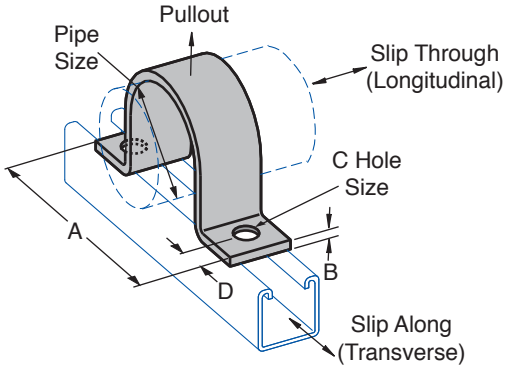


O.D. Size	Steel Ga.	Wt./100 Pcs.	Std. Pkg.
1/4"	16	4	100
5/16"	16	5	100
3/8"	16	5	100
1/2"	16	6	100
5/8"	14	8	100
3/4"	14	9	100
7/8"	14	10	50
1"	14	11	50

FINISH: Electro-Galvanized (EZN).
ORDERING: Specify figure number and pipe size.

C-1108
Pipe Straps

FINISH: Electro-Galvanized (EZN).



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

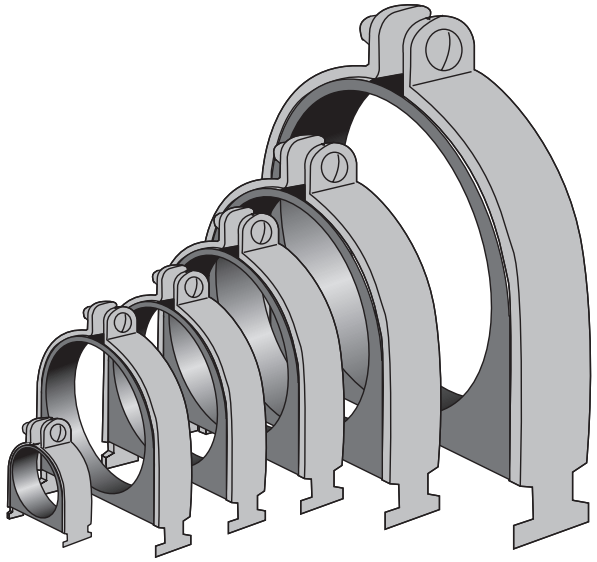
CUSHION CLAMPS

CUSHION FEATURES

- Reduces noise due to shock and vibration
- Eliminates metal to metal contact
- Usable temperatures from +275°F to -65°F
- Fast and easy installation
- Permits various fluid conductors to be mixed.
- Resists most fuels, oil, gases, solvents
- Manufactured from a thermoplastic elastomer material

CLAMP FEATURES

- Fits all standard 1⅝" channels
- Features a unique shoulder stud which is securely fastened to one half of the clamp (available up to 1⅜" clamp). This eliminates over-tightening and rotation.
- A nylon-insert nut assuring a positive lock



C-1000

Cushion Clamps for Tube

Cat. No.	Tube O.D. Size	Steel Ga.	Wt./100 Pcs.	Std. Pkg.
C100025	¼"	14	11	Bags
C100037	⅜"	14	12	Bags
C100050	½"	14	13	Bags
C100062	⅝"	14	15	Bags
C100075	¾"	14	19	Bags
C100087	⅞"	14	21	Bags
C100100	1"	12	25	Bags
C100112	1⅛"	12	29	Bags
C100125	1¼"	12	29	Bags
C100137	1⅜"	11	38	Bags
C100150	1½"	11	38	Bags
C100162	1⅝"	11	40	Bags
C100175	1¾"	11	42	Bags
C100187	1⅞"	11	46	Bags
C100200	2"	11	46	Bags
C100212	2⅛"	11	58	Bags
C100237	2⅜"	11	58	Bags
C100262	2⅝"	12	58	Bags
C100300	3"	12	69	Bags
C100312	3⅛"	12	59	Bags
C100362	3⅝"	11	75	Bags
C100412	4⅛"	11	90	Bags

ORDERING: Specify catalog number.

Finish: Zinc Dichromite, other materials & finishes available on request.

C-2000

Cushion Clamps for Pipe

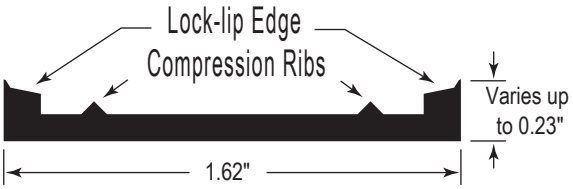
Cat. No.	Nom. Pipe Size	Steel Ga.	Wt./100 Pcs.	Std. Pkg.
C200025	¼"	14	12	Bags
C200037	⅜"	14	14	Bags
C200050	½"	14	22	Bags
C200075	¾"	12	58	Bags
C200100	1"	11	39	Bags
C200125	1¼"	11	43	Bags
C200150	1½"	11	47	Bags
C200200	2"	11	55	Bags
C200250	2½"	12	60	Bags
C200300	3"	11	76	Bags
C200350	3½"	11	94	Bags
C200400	4"	11	93	Bags
C200500	5"	11	125	Bags
C200600	6"	11	145	Bags

ORDERING: Specify catalog number

Finish: Zinc Trivalent Chromium, other materials & finishes available on request.

CUSHION WRAP

75100
Cushion Wrap



- 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 1/4" 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 1/4" 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.

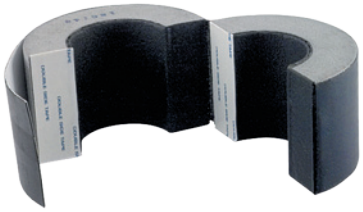
Cutting Chart

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

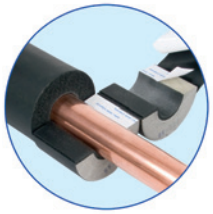
* Stainless Steel Clamps Supplied with fixed Stud and Nylon Lock Nut from 1/2" through 13/4" Sizes and 17/8" through 67/8" Sizes are Supplied with a Loose Bolt and Hex Nut

CUSH-A-THERM™



INSTALLATION IS AS EASY AS 1-2-3!

Airtight Crush-Resistant Insulation Clamp



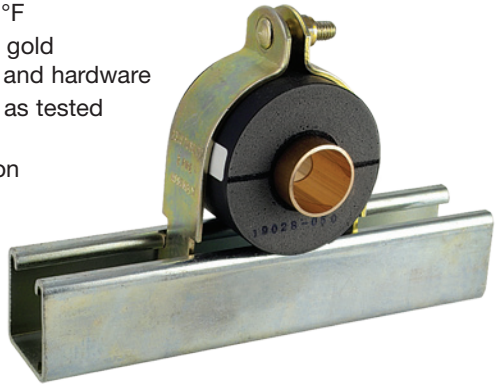
1. Insulation slides over pipes.

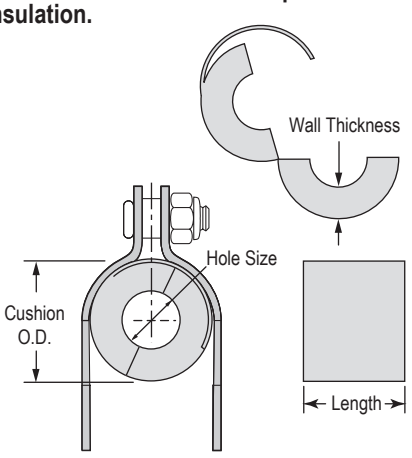
2. Pipe hanger inserts are put in place and glued to insulation.

3. Joints are wrapped and sealed with Pro Tape.

The **Cush-A-Therm™ Clamp** is a fast easy way to provide a crush-resistant airtight seal for chilled refrigeration or mechanical pipe-lines that require continuous insulation. The rigid foam construction has an insulating tape inner lining which supports tube and absorbs vibration of operating pipelines. The outer cover consists of a special rubber coating which seals the cushion completely after installation in order to prevent condensation. It's strong closed-cell structure is ideal for liquid cooling lines to prevent condensation, save energy, and maintain the vapor barrier.

- Temperature range: -70°F to +250°F
- Complete assembly supplied with gold electro-galvanized channel clamp and hardware
- Flammability is Self-Extinguishing as tested under ASTM D 635
- Maintains thermal barrier protection
- Prevents condensation
- Properly supports pipe and tube
- Absorbs vibration
- Polyurethane foam laminated with a rubber lining
- "R" Value = 0.42

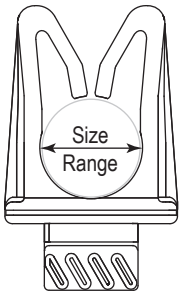




Dimensions (Inches)					Nominal ½" Wall Thickness		Nominal ¾" Wall Thickness		Nominal 1" Wall Thickness		Nominal 1-½" Wall Thickness		Nominal 2" Wall Thickness	
Hole Size	Copper Nom. I.D.	Pipe O.D.	IPS	Length	Catalog No.	Cushion O .D.	Catalog No.	Cushion O.D.	Catalog No.	Cushion O.D.	Catalog No.	Cushion O.D.	Catalog No.	Cushion O.D.
⅜ ID	¼	⅜	-	2.953"	UX3812	1.33	UX3834	1.81	UX3810	2.31	UX3815	3.31	–	
½ ID	⅜	½	¼	2.953"	UX1212	1.44	UX1234	1.89	UX1210	2.39	UX1215	3.39	–	
⅝ ID	½	⅝	⅜	2.953"	UX5812	1.56	UX5834	2.05	UX5810	2.54	UX5815	3.54	UX5820	4.54
¾ ID	⅝	¾	-	2.953"	UX3412	1.69	UX3434	2.22	UX3410	2.71	UX3415	3.71	UX3420	4.71
⅞ ID	¾	⅞	½	2.953"	UX7812	1.81	UX7834	2.44	UX7810	2.82	UX7815	3.82	UX7820	4.82
1-⅛ ID	1	1-⅛	¾	2.953"	UX11812	2.19	UX11834	2.76	UX11810	3.06	UX11815	4.06	UX11820	5.06
1-⅜ ID	1-¼	1-⅜	1	2.953"	UX13812	2.31	UX13834	3.19	UX13810	3.33	UX13815	4.33	UX13820	5.33
1-⅝ ID	1-½	1-⅝	1-¼	2.953"	UX15812	2.56	UX15834	3.35	UX15810	3.65	UX15815	4.65	UX15820	5.65
1-⅞ ID	–	1-⅞		2.953"	UX17812	2.81	UX17834	3.58	UX17810	4.43	UX17815	5.43	UX17820	6.43
2-⅛ ID	2	2-⅛	-	2.953"	UX21812	3.23	UX21834	3.86	UX21810	4.16	UX21815	5.16	UX21820	6.16
2-⅜ ID	2-¼	2-⅜	2	2.953"	UX23812	3.48	UX23834	4.29	UX23810	3.92	UX23815	4.92	UX23820	5.92
2-⅝ ID	2-½	2-⅝	-	3.937"	UX25812	4.13	UX25834	4.87	UX25810	4.87	UX25815	5.87	UX25820	6.87
2-⅞ ID	–	2-⅞	2-½	3.937"	UX27812	4.38	UX27834	4.57	UX27810	4.67	UX27815	5.67	UX27820	6.67
3-⅛ ID	3	3-⅛	-	3.937"	UX31812	4.63	UX31834	5.00	UX31810	5.14	UX31815	6.14	UX31820	7.14
3-½ ID	–	3-½	3	3.937"	UX31212	4.88	UX31234	5.35	UX31210	5.89	UX31215	6.89	UX31220	7.89
3-⅝ ID	3-½	3-⅝	-	3.937"	UX35812	5.13	UX35834	5.94	UX35810	6.44	UX35815	7.44	UX35820	8.44
4-⅛ ID	4	4-⅛	3-½	3.937"	UX41812	5.63	UX41834	6.14	UX41810	6.48	UX41815	7.48	UX41820	8.48

Cush-A-Therm™ is a trademark of ZSi Inc.

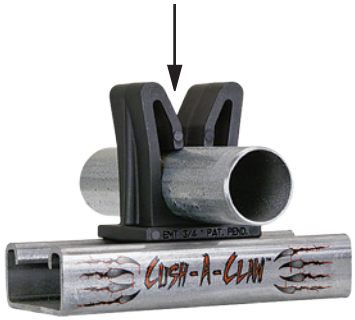
CUSH-A-CLAW®



The Cush-A-Claw Grabs on to your Tube, Pipe, or Hose and holds it in place. The unique one piece patent pending design allows for quick, simple, and easy installation. It will not rust because it's molded from the same choice TPE Material of some of our other products that you've come to know and trust.

- Quick, Simple, and Easy Snap-in Installation of Tube, Pipe, or Hose
- Sure Grip Strut Base easily rotates into strut
- Will not Rust, Non Conducting
- Saves Time and Money
- Temp Range: -50° to 275° F
- Works Great Indoors or Outdoors
- Seven Sizes of Tube and Three Sizes of EMT
- Designed for Light Duty Loads and Applications
- Prevents Galvanic Corrosion of Dissimilar Metals
- An Excellent Alternative to Steel, Stainless Steel, or Galvanized Clamps.

75 lbs. Load
(Safety Factor 3)

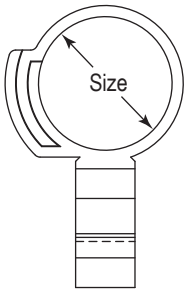


O.D. Tube Size			EMT Conduit Sizes		
Part No.	Dimensions "A"		Part No.	Dimensions "A"	
	O.D. Size	Inches		EMT Size	Inches
CL-04	1/4"	0.250	EMT-1/2	1/2"	0.706
CL-06	3/8"	0.375	EMT-3/4	3/4"	0.922
CL-08	1/2"	0.500	EMT-1	1"	1.163
CL-10	5/8"	0.625			
CL-12	3/4"	0.750			
CL-14	7/8"	0.875			
CL-18	1-1/8"	1.125			

CUSH-A-CLICK

The great advantage with the **Cush-A-Click** is it retains an unbroken vapor barrier seal, eliminating the problem of sweating on metal fittings. The Cush-A-Click is ideal for the installation of refrigeration systems allowing the barrier seal to run the length of the pipe work without cutting the insulation material. The Cush-A-Click quickly secures both the pipe and the insulation.

- Time and labor savings
- Simple, secure installation of refrigeration and plumbing pipe work
- No break insulation material
- Corrosion resistance
- Light weight



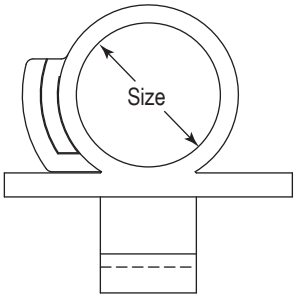
Part No.	Standard Copper (no insulation)	Metric Copper (no insulation)	Copper Tube with 3/8" Insulation	Copper Tube with 1/2" Insulation	Condensate Drain
CC12	3/4"	-	-	-	-
CC14	7/8"	22mm	-	-	yes
CC16	1"	-	1/4" tube	-	-
CC18	1-1/8"	28mm	3/8" tube	-	-
CC20	1-1/4"	-	1/2" tube	1/4" tube	-
CC22	1-3/8"	-	5/8" tube	3/8" tube	yes
CC24	1-1/2"	-	7/8" tube	5/8" tube	-
CC26	1-5/8"	42mm	1-1/8" tube	3/4" tube	yes
CC32	2"	-	-	7/8" tube	-
CC34	2-1/8"	54mm	1-3/8" tube	1-1/8" tube	yes

Inside diameter: Certain clips have two or more positions to accommodate both metric and standard sizes

CUSH-A-CLIP

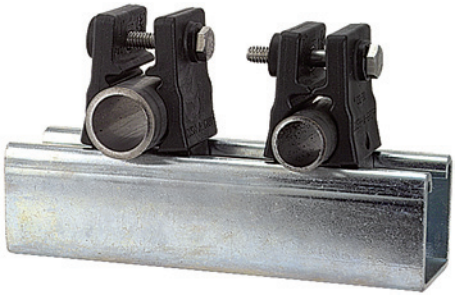
- Manufactured from polyamide alloy
- U.L. Rated
- Sizes from 3/8" to 1-1/8"
- One piece design makes installation a snap.
- No nuts to tighten, no parts to lose.
- Temperatures from -40°F to 275°F
- Secure but non-tightening design allows for expansion, greatly reducing joint fractures

Part Number	Tube Sizes Only	Wt./100
RPC-3/8"	3/8"	2.5
RPC-1/2"	1/2"	2.5
RPC-5/8"	5/8"	3.0
RPC-3/4"	3/4"	3.0
RPC-7/8"	7/8"	4.5
RPC-1-1/8"	1-1/8"	4.5



A SIMPLE, ECONOMICAL, LIGHTWEIGHT HANGER FOR SUPPORTING TUBING

CUSH-A-GRIP™



Multi-size adjustment capability allows four clamp sizes to fit fifteen sizes of tube and pipe. Comes complete with stainless steel bolt and captured nut hardware.

FEATURES

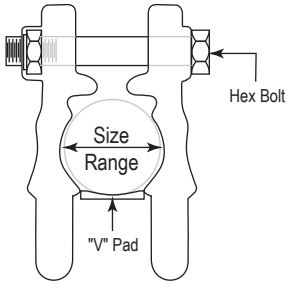
- Ten sizes of tube, five sizes of pipe
- Diameters from .25" to 1.31" (6mm to 32mm)

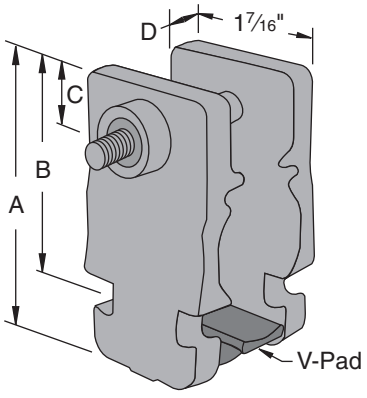
ADVANTAGES

- Reduces inventory SKU's
- Simplifies take-offs and requirements on projects using both tube and pipe sizes
- Easy installation, Non conducting
- Permissible outdoors
- Temperature range: -40˚F to +380˚F
- No galvanic reaction, Will not rust

BENEFITS

- Lowers overall inventory costs
- Works with screw or nut driver
- Resists vibration
- Use in place of steel clamps with steel tube
- Multi-environmental
- Covers a wide range of applications and maintains thermal barrier
- For use on copper tube
- Use in place of stainless, aluminum, PVC or hot dipped galvanized clamps





Patented Product

Part No.	O.D. Tube Sizes			Pipe Sizes	Metric Sizes	Diameters (in)
CG-10	1/4"	3/8"	1/2"	1/4"	6mm – 14mm	0.25 – 0.54
CG-20	5/8"	3/4"	7/8"	3/8" – 1/2"	15mm – 22mm	0.62 – 0.87
CG-30	7/8"	1"	1-1/8"	3/4"	22mm – 28mm	0.87 – 1.12
CG-40	1"	1-1/8"	1-1/4"	3/4" – 1"	26mm – 32mm	1.00 – 1.31

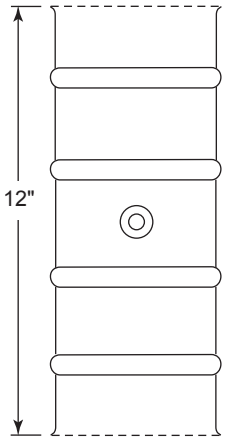
Part No.	Nominal Pipe Size	Dimensions				Hex Head Cap Screw & Lock Nut
		"A"	"B"	"C"	"D"	
CG-10	1/4"	1-15/16"	1-3/8"	3/8"	3/16"	1/4"-20 x 1-1/2"
CG-20	3/8"	2-3/8"	1-5/8"	7/16"	1/4"	1/4"-20 x 2"
CG-30	1/2"	2-9/16"	1-13/16"	7/16"	5/16"	1/4"-20 x 2"
CG-40	3/4"	2-11/16"	1-15/16"	7/16"	5/16"	1/4"-20 x 2"

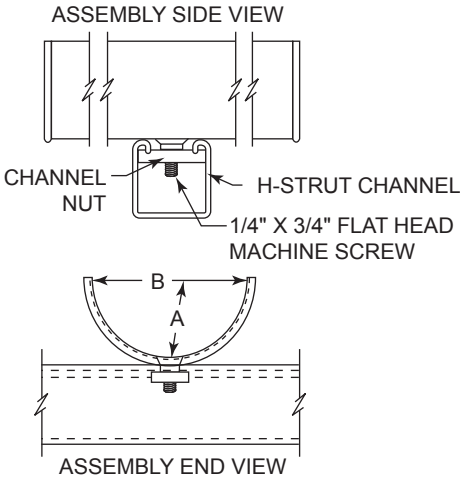
SADDLE-UP

The Saddle-Up Pipe Insulation Saddle is a formed metal shield designed to allow insulated refrigeration pipe or tubing to pass through the support without need to compromise the vapor barrier and protects from crushing or damage at hanger and support locations. Made from 20 gage electro-galvanized steel the ribbed design along its 12 inch length offers the superior support needed to spread out loading on insulation which reduces the potential for internal cavity creation between the pipe and insulation. The H-Strut mounting option provides a time tested secure and safe attachment method so there is no need for other tie downs to the support.

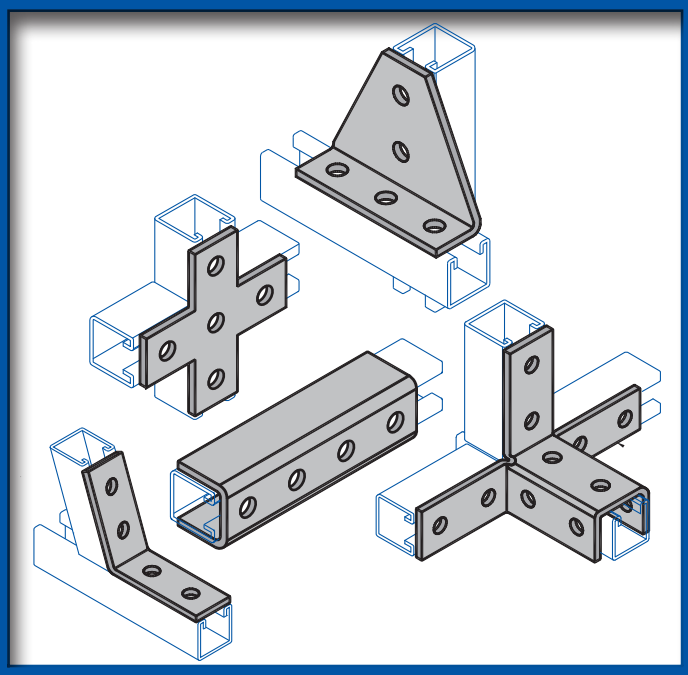
OTHER FEATURES INCLUDE:

- Shipped with all necessary hardware to attach to H-Strut channel.
- Features flared edges to protect pipe insulation jacketing.
- Each Saddle individually marked with part number
- Counter Sunk attachment Hole and Flat Head Machine Screw prevent possible damage to insulation.
- Electro-Galvanized Steel provides excellent rust protection and has no exposed fabricated edges.





Dimensions (Inches)			½" Insulation		¾" Insulation		1" Insulation		1½" Insulation	
Part Number	B Saddle Width	A Radius	OD Tube Size	OD With Insulation	OD Tube Size	OD With Insulation	OD Tube Size	OD With Insulation	OD Tube Size	OD With Insulation
SD150	1½	¾	⅜	1⅜	–	–	–	–	–	–
			½	1½	–	–	–	–	–	–
SD200	2	1	⅝	1⅝	⅜	1⅞	–	–	–	–
			¾	1¾	½	2	–	–	–	–
			⅞	1⅞	–	–	–	–	–	–
SD250	2½	1¼	1⅛	2⅛	⅝	2⅛	⅜	2⅜	–	–
			1⅜	2⅜	¾	2¼	½	2½	–	–
			–	–	⅞	2⅜	–	–	–	–
SD300	3	1½	1⅝	2⅝	1⅛	2⅝	⅝	2⅝	–	–
			–	–	1⅜	2⅞	¾	2¾	–	–
			–	–	–	–	⅞	2⅞	–	–
SD350	3½	1¾	2⅛	3⅛	1⅝	3⅛	1⅛	3⅛	⅜	3⅜
			2⅜	3⅜	–	–	1⅜	3⅜	½	3½
SD450	4½	2¼	2⅝	3⅝	2⅛	3⅝	1⅝	3⅝	⅝	3⅝
			–	–	2⅜	3⅞	–	–	¾	3¾
			–	–	–	–	–	–	⅞	3⅞
			3⅛	4⅛	2⅝	4⅛	2⅛	4⅛	1⅛	4⅛
			–	–	–	–	2⅜	4⅜	1⅜	4⅜
SD550	5½	2¾	3⅝	4⅝	3⅛	4⅝	2⅝	4⅝	1⅝	4⅝
			4⅛	5⅛	3⅝	5⅛	3⅛	5⅛	2⅛	5⅛
			–	–	–	–	–	–	2⅜	5⅜
SD650	6½	3¼	–	–	4⅛	5⅝	3⅝	5⅝	2⅝	5⅝
			–	–	–	–	4⅛	6⅛	3⅛	6⅛



Specifications

GENERAL

H-STRUT General Fittings are designed to fit with all H-STRUT 1⅝" wide channels. All H-STRUT fittings are manufactured from ¼" thick carbon steel, 1⅝" wide, all holes are 9/16" diameter, spaced 1⅞" on center and 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 the factory for any other fittings you may need for specific applications.

ORDERING

Please specify catalog number and finish.

MATERIAL

H-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

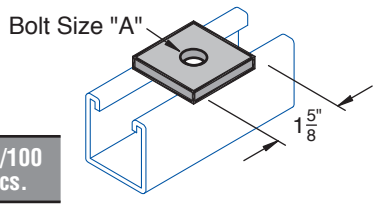
FINISHES

H-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

FLAT PLATE

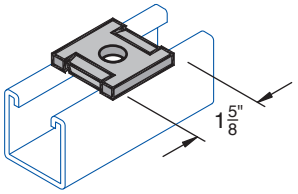
F-201
Square Washer



Catalog No.	A	Wt./100 Pcs.
F-201	1/4"	18
F-201	5/16"	18
F-201	3/8"	18
F-201	1/2"	17
F-201	5/8"	16
F-201	3/4"	15
F-201	7/8"	14

Saddle washer is available, see page 89

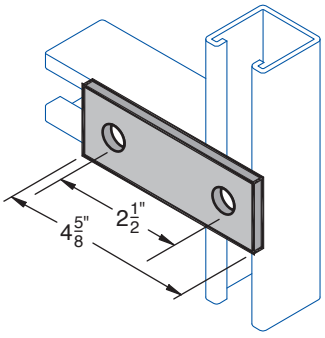
F-201-IN
Guided
Square Washer



Rod Size	Hole Size	Wt./100 Pcs.
5/16"	11/32"	18
3/8"	7/16"	18
1/2"	9/16"	17

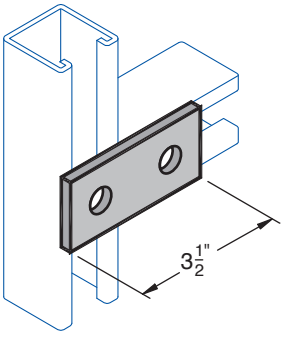
F-202
Flat Plate
Connector

Wt. 50#/C



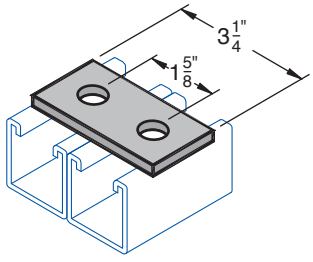
F-203
Two Hole
Splice Plate

Wt. 37#/C



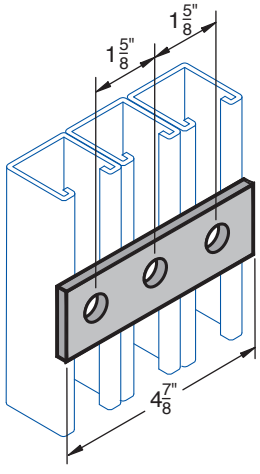
F-204
Splice Plate

Wt. 34#/C



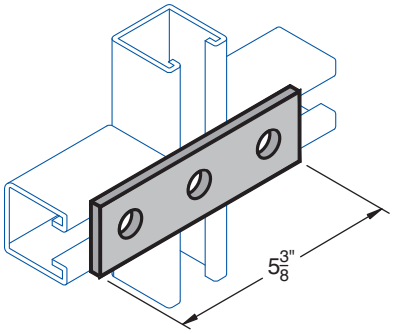
F-206-1
Three Hole
Splice Plate

Wt. 51#/C



F-206-2
Three Hole
Splice Plate

Wt. 57#/C

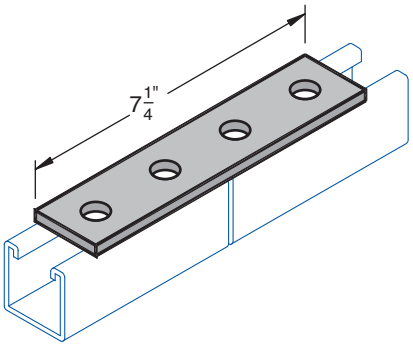


Page Notes: 1/4" thick, 1 5/8" wide, holes 9/16" dia., spaced 1 7/8" on center and 13/16" from end.
Finish: Electro-galvanized

FLAT PLATE

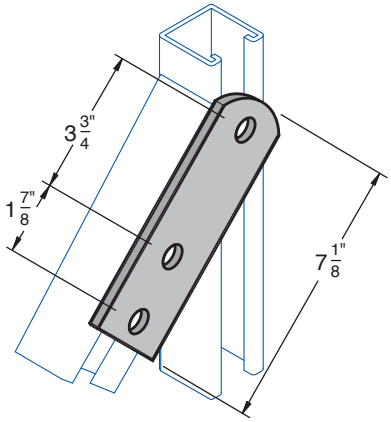
F-205
Four Hole Splice Plate

Wt. 76#/C



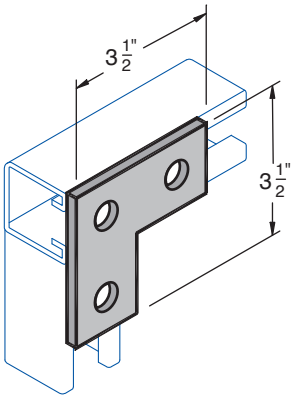
F-207
Three Hole Swivel

Wt. 75#/C



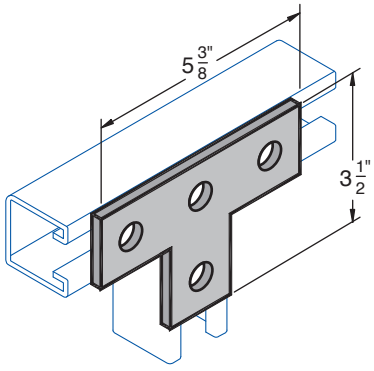
F-210
Three Hole Flat Angle Plate

Wt. 56#/C



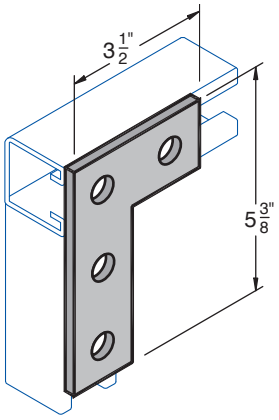
F-213
Four Hole Tee Plate

Wt. 77#/C



F-214
Four Hole Corner Joiner Plate

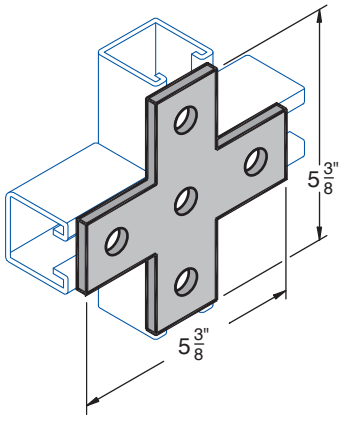
Wt. 75#/C



Page Notes: 1/4" thick, 1 5/8" wide, holes 9/16" dia., spaced 1 7/8" on center and 13/16" from end.
Finish: Electro-galvanized

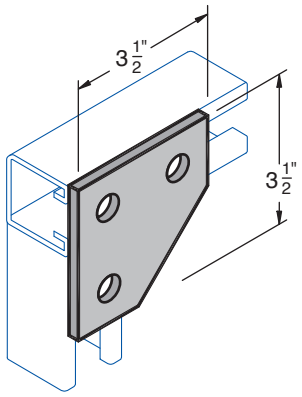
F-216
Cross Plate

Wt. 100#/C

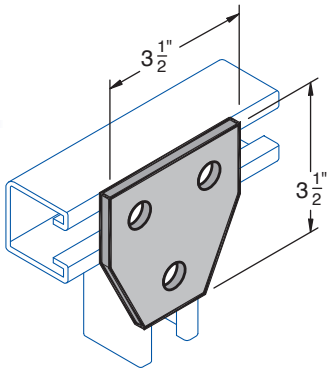


FLAT PLATE

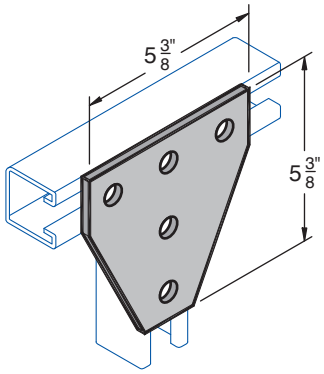
F-211
3-Hole Corner Connector
Wt. 69#/C



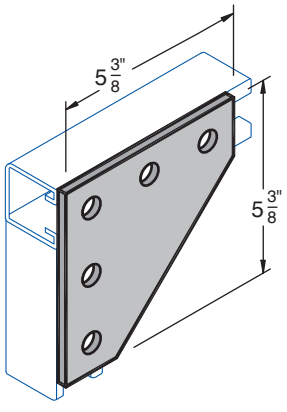
F-212
Three Hole Connection Plate
Wt. 70#/C



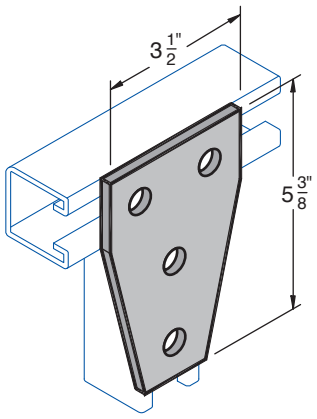
F-219
5-Hole Connector
Wt. 146#/C



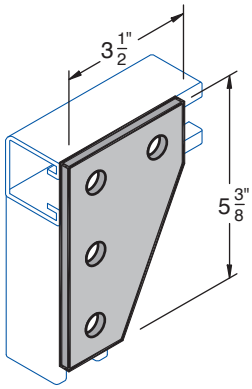
F-221
Flat Corner Connector
Wt. 146#/C



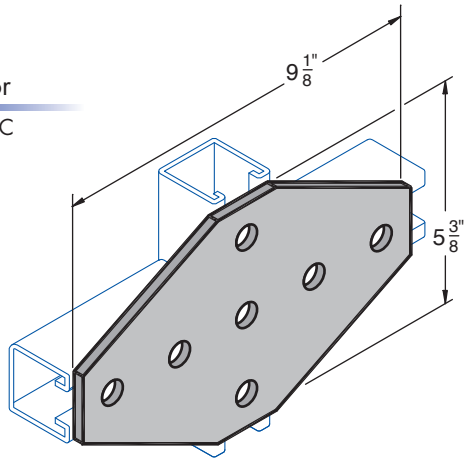
F-217
4-Hole Connector
Wt. 100#/C



F-218
4-Hole Corner Connector
Wt. 101#/C



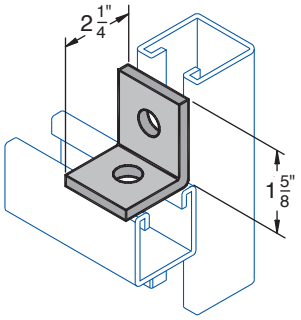
F-220
7-Hole Connector
Wt. 236#/C



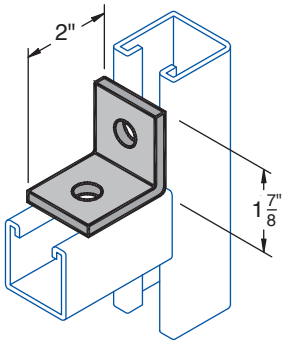
Page Notes: 1/4" thick, 1 5/8" wide, holes 9/16" dia., spaced 1 7/8" on center and 13/16" from end.
Finish: Electro-galvanized

ANGLE BRACKETS

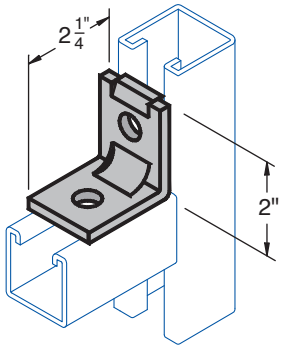
A-301
Two Hole
Corner Angle
Wt. 37#/C



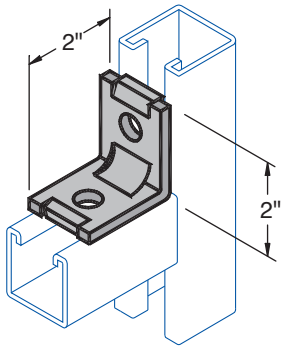
A-302
Connection
Angle
Wt. 37#/C



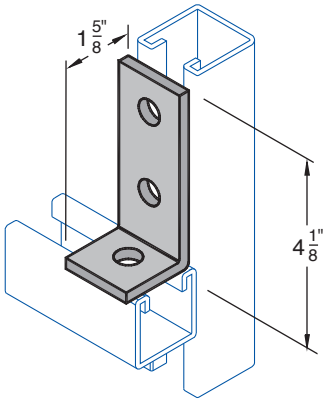
A-303
No-Twist Corner
Angle (1 indent)
Wt.41#/C



A-304
No-Twist Corner
Angle (2 indent)
Wt. 39#/C

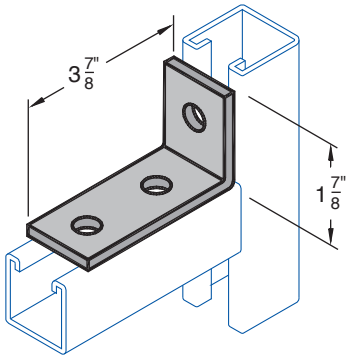


A-305
Three Hole
90° Bracket
Wt. 57#/C



Page Notes: ¼" thick, 1⅝" wide, holes 9/16" dia., spaced 1⅞" on center and 13/16" from end.
Finish: Electro-galvanized

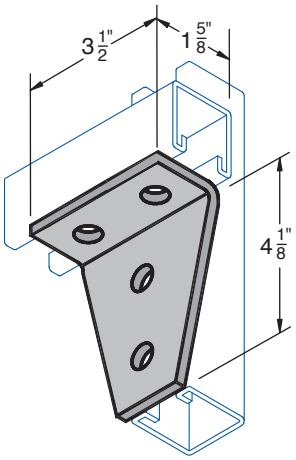
A-306
Three Hole
Corner Connector
Wt. 57#/C



ANGLE BRACKETS

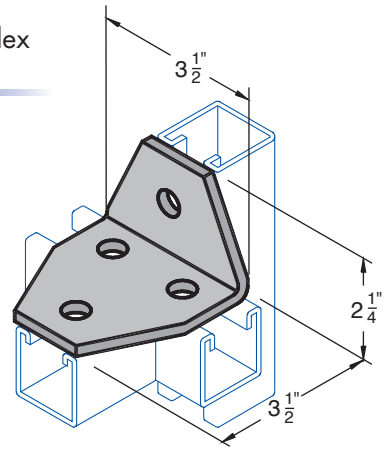
A-309
Four Hole Joint Connector Angle

Wt. 102#/C



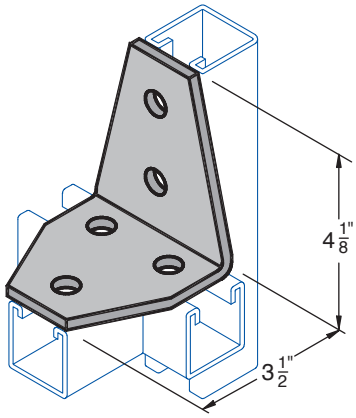
A-310
Four Hole Duplex Corner Angle

Wt. 101#/C



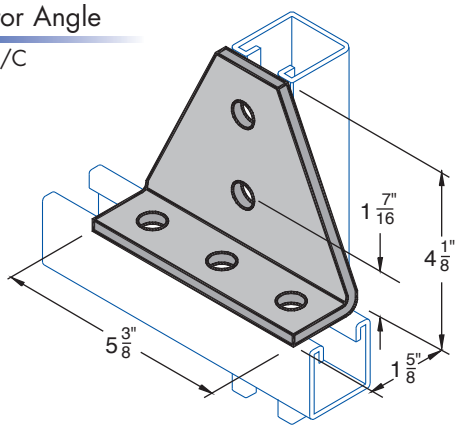
A-313
Five Hole Duplex Corner Angle

Wt. 135#/C

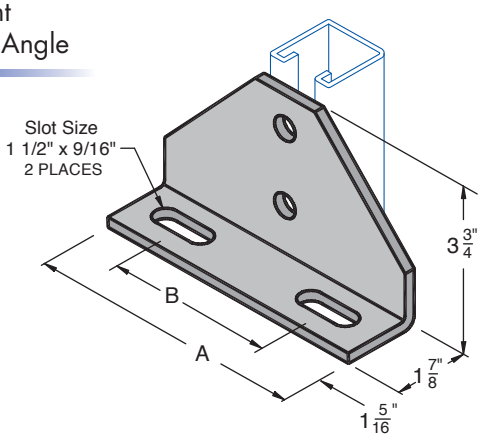


A-314
Five Hole Joint Connector Angle

Wt. 141#/C



A-315
A-315-1
Slotted Joint Connector Angle



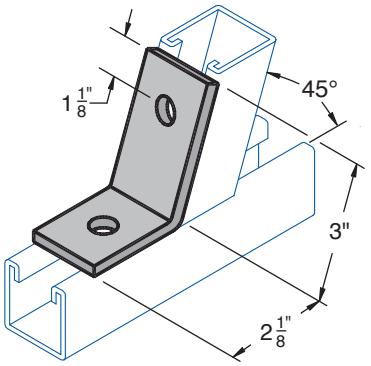
Catalog No.	A	B	Wt./100 Pcs.
A-315	6 5/8"	4"	180
A-315-1	8 5/8"	6"	256

Page Notes: 1/4" thick, 1 5/8" wide, holes 9/16" dia., spaced 1 7/8" on center and 13/16" from end.

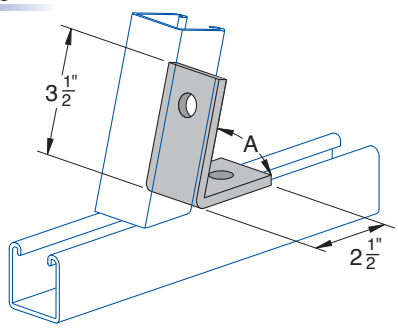
Finish: Electro-galvanized

ANGLE BRACKETS

A-316
Angle Fitting
Wt. 60#/C

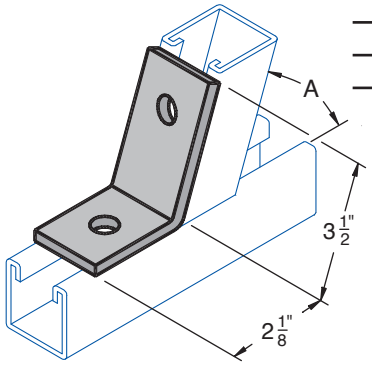


A-317
Two Hole
Closed 45°Angle
Wt. 63#/C

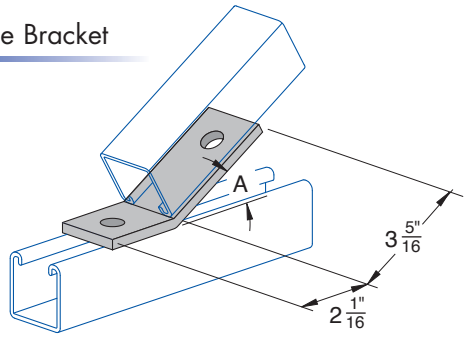


A-319
Angle Bracket
Wt. 63#/C

Catalog No.	A
A-319-1	82½°
A-319-2	75°
A-319-3	67½°
A-319-4	60°
A-319-5	52½°
A-319-6	37½°

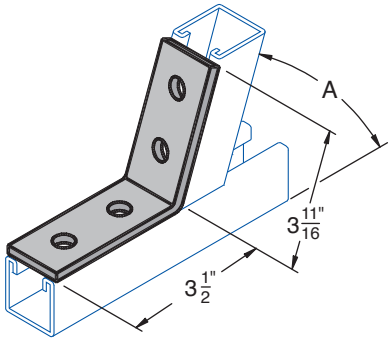


A-320
Open Angle Bracket
Wt. 59#/C



Catalog No.	A
A-320-1	30°
A-320-2	22½°
A-320-3	15°
A-320-4	7½°

A-3194
Four Hole
Open Angle Bracket
Wt. 78#/C



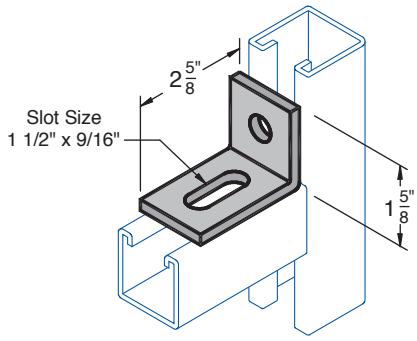
Catalog No.	A
A-3194-1	7½°
A-3194-2	15°
A-3194-3	22½°
A-3194-4	30°
A-3194-5	37½°
A-3194-6	45°
A-3194-7	52½°
A-3194-8	60°
A-3194-9	67½°
A-3194-10	75°
A-3194-11	82½°

Page Notes: ¼" thick, 1⅝" wide, holes 9/16" dia., spaced 1⅞" on center and 13/16" from end.
Finish: Electro-galvanized

ANGLE BRACKETS

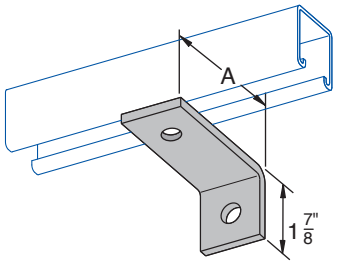
A-337
Slotted Angle

Wt. 38#/C



A-338
Two Hole
Offset Angle

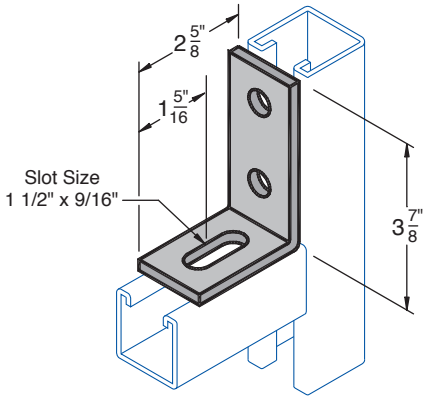
Wt. 66#/C



Catalog No.	A	Wt./100 Pcs.
A-338-1	3"	48
A-338-2	3½"	53
A-338-3	4"	60

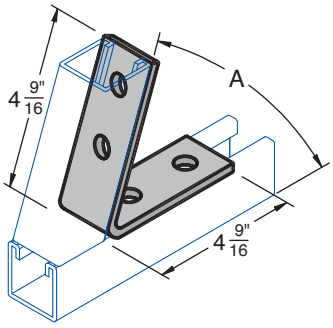
A-3360
Two Hole Slotted 90°
Corner Connector

Wt. 66#/C



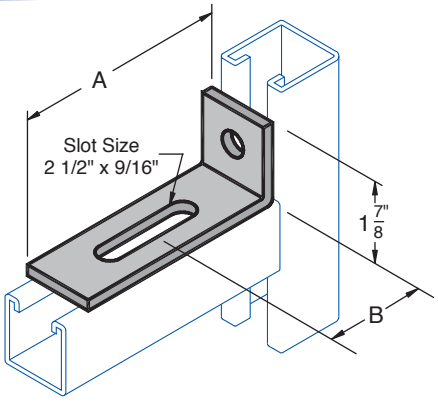
A-3174
Four Hole Closed
Angle Bracket

Wt. 100#/C



Catalog No.	A
A-3174-1	37½°
A-3174-2	45°
A-3174-3	52½°
A-3174-4	60°
A-3174-5	67½°
A-3174-6	75°
A-3174-7	82½°

A-336
Slotted Angle



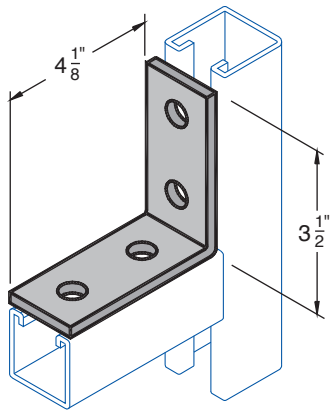
Catalog No.	A	B	Wt./100 Pcs.
A-336	4 7/16"	2½"	58
A-336-1	6 7/8"	4½"	85

Page Notes: ¼" thick, 1 5/8" wide, holes 9/16" dia., spaced 1 7/8" on center and 13/16" from end.
Finish: Electro-galvanized

ANGLE BRACKETS

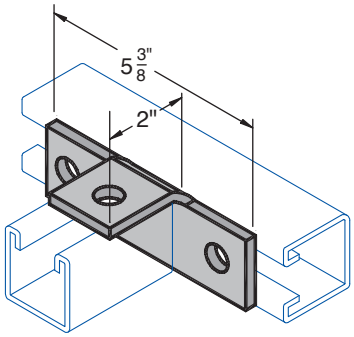
A-311
Four Hole Angle

Wt. 78#/C



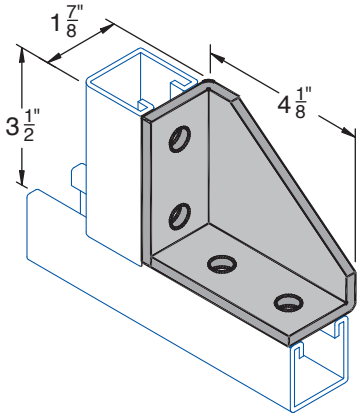
A-312
Four Hole 90° T-Plate Angle

Wt. 77#/C



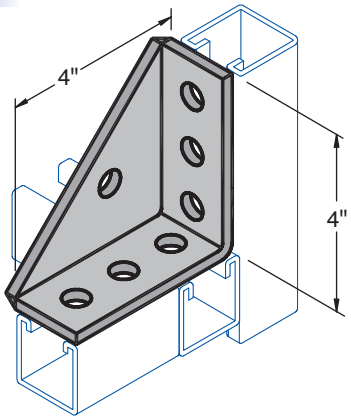
A-318-L (left hand)
A-318-R (right hand shown)
Shelf Bracket

Wt. 138#/C



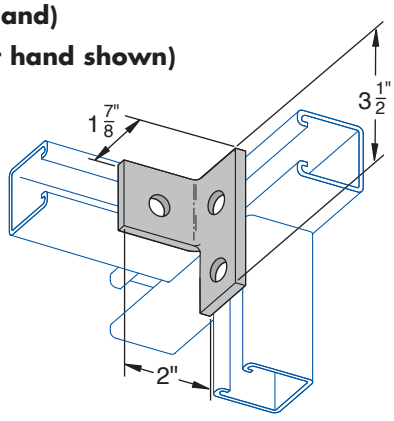
A-335
Universal Shelf Bracket

Wt. 132#/C



A-330-L (left hand)
A-330-R (right hand shown)
Three Hole 90° Angle

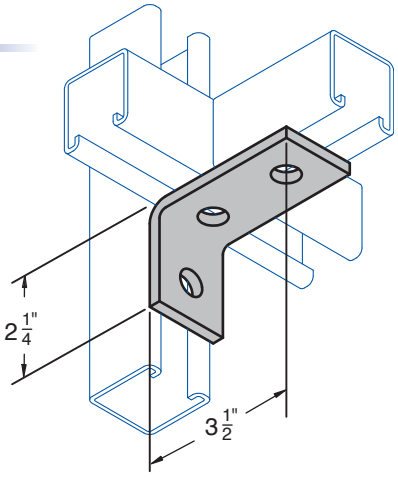
Wt. 54#/C



Page Notes: ¼" thick, 1⅝" wide, holes 9/16" dia., spaced 1⅞" on center and 13/16" from end.
Finish: Electro-galvanized

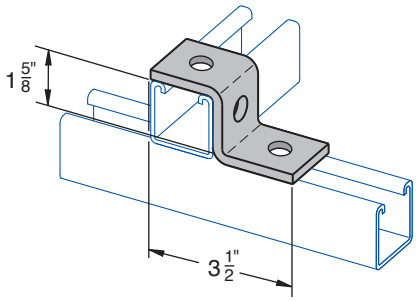
A-307
Three Hole Angle Bracket

Wt. 57#/C

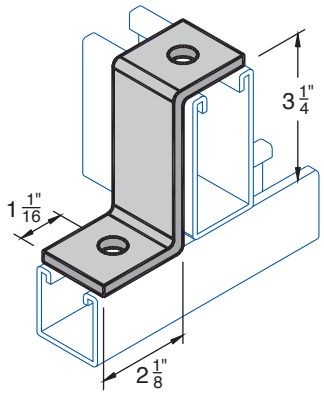


"Z" ANGLE BRACKETS

A-322
"Z" Angle
Wt. 54#/C

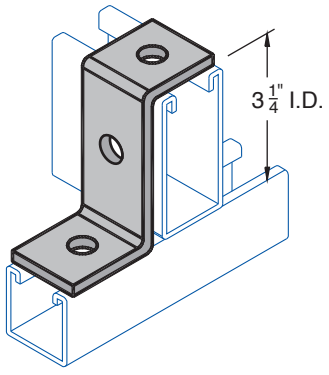


A-323
"Z" Angle

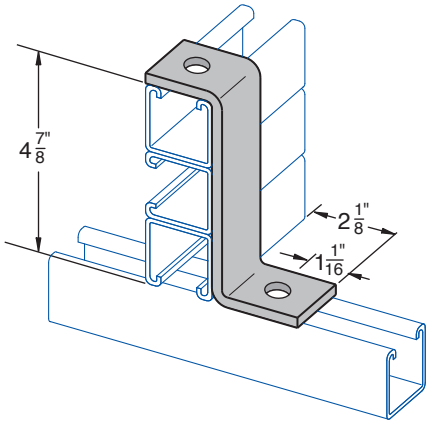


Catalog No.	A	Wt./100 Pcs.
A-323	1"	50
A-323-22	2 7/16"	66
A-323-42	1 3/8"	53
A-323-62	13/16"	47

A-324
"Z" Angle
Wt. 70#/C

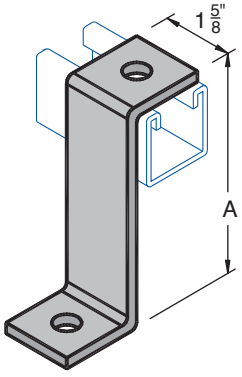


A-341
"Z" Angle
Wt. 145#/C

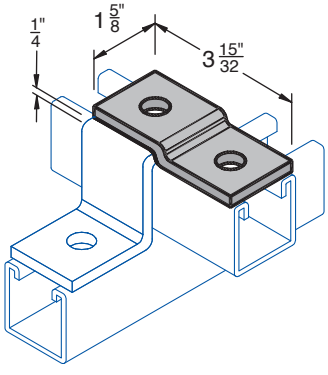


A-340
"Z" Angle

Catalog No.	A	Wt./100 Pcs.
A-340-1	4"	77
A-340-2	5"	95
A-340-3	6"	98
A-340-4	7"	105
A-340-5	8"	120



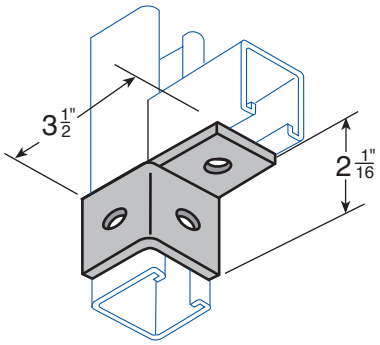
A-325
"Z" Angle Offset
Wt. 38#/C



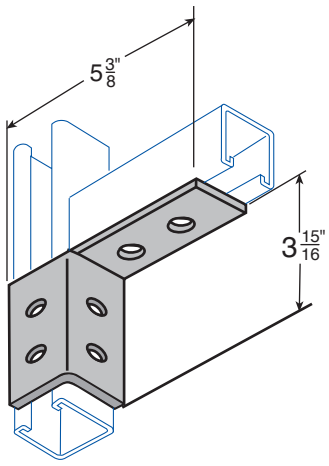
Page Notes: 1/4" thick, 1 5/8" wide, holes 9/16" dia., spaced 1 7/8" on center and 13/16" from end.
Finish: Electro-galvanized

WING FITTINGS

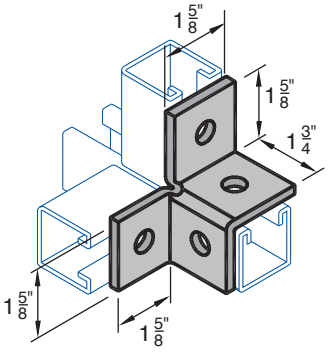
A-321-L (left hand)
A-321-R (right hand shown)
Three Hole Single
Angle Connector
Wt. 60#/C



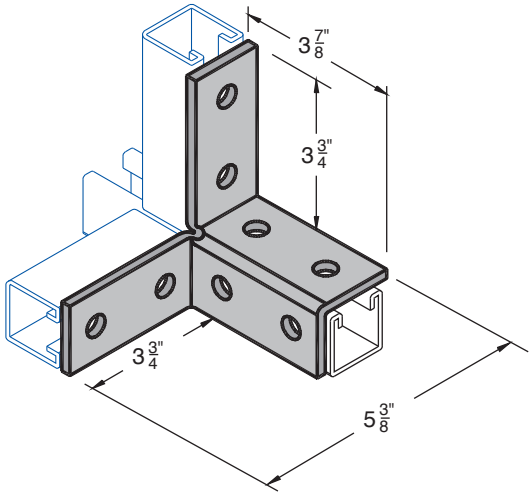
A-321-1-L (left hand)
A-321-1-R (right hand shown)
Six Hole Single
Angle Connector
Wt. 119#/C



A-326
Four Hole Double
Angle Connector
Wt. 76#/C



A-326-1
Eight Hole Double
Angle Connector
Wt. 155#/C

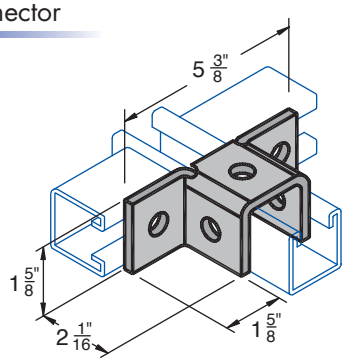


Page Notes: 1/4" thick, 1 5/8" wide, holes 9/16" dia., spaced 1 7/8" on center and 13/16" from end.
Finish: Electro-galvanized

WING FITTINGS

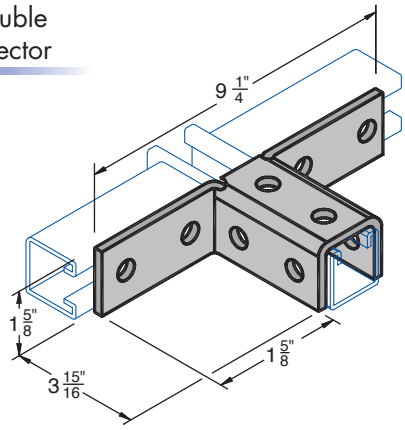
A-327
Five Hole Double Angle Connector

Wt. 93#/C



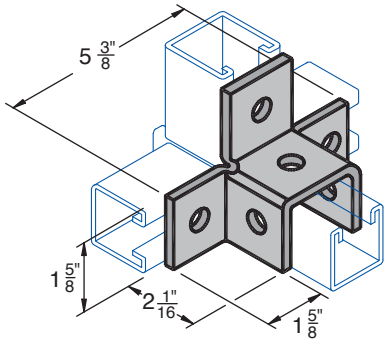
A-327-1
Ten Hole Double Angle Connector

Wt. 193#/C



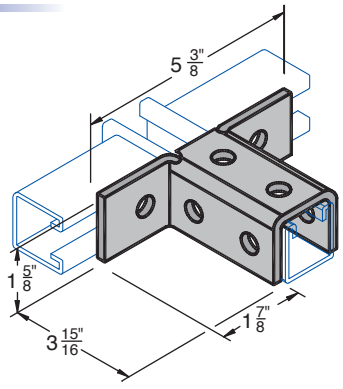
A-328
Six Hole Triple Angle Connector

Wt. 113#/C



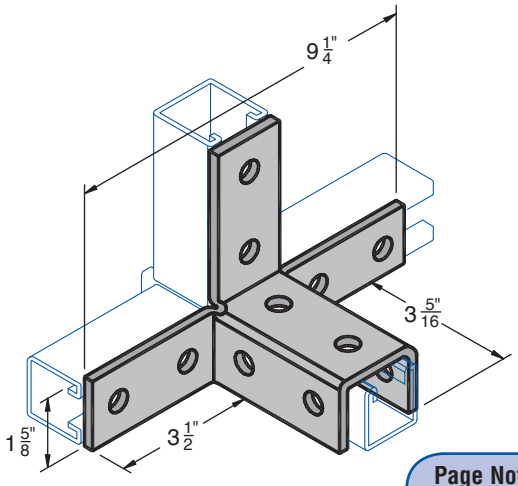
A-327-2
Eight Hole Triple Angle Connector

Wt. 113#/C



A-328-1
Twelve Hole Triple Angle Connector

Wt. 230#/C

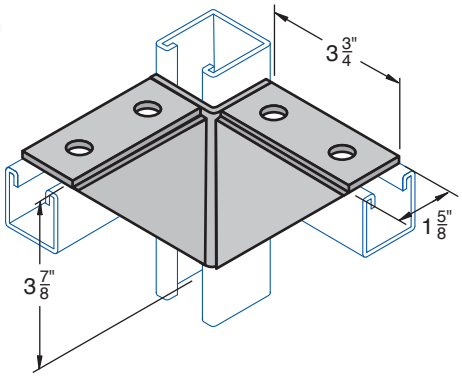


Page Notes: 1/4" thick, 1 5/8" wide, holes 9/16" dia., spaced 1 7/8" on center and 13/16" from end.
Finish: Electro-galvanized

WING & "U" SHAPE FITTINGS

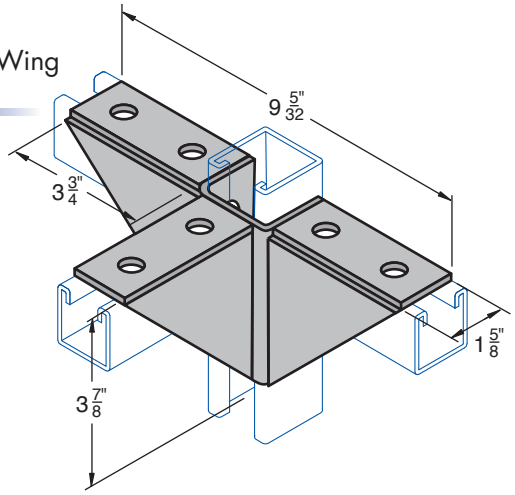
A-329
Two Way Wing Gusset

Wt. 105#/C



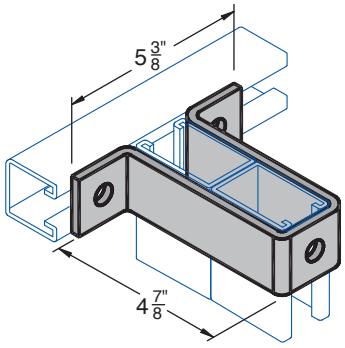
A-329-1
Three Way Wing Gusset

Wt. 105#/C



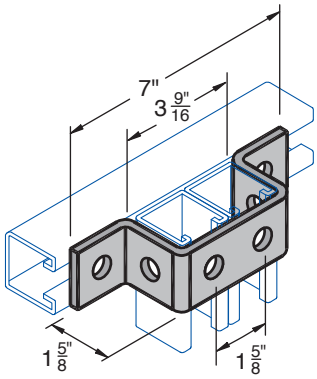
B-601-7
"U" Support

Wt. 157#/C

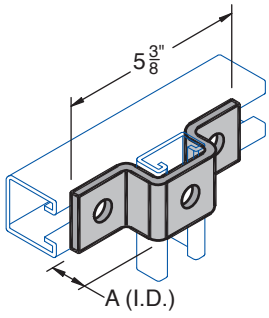


B-610
"U" Support

Wt. 105#/C



B-601
"U" Support



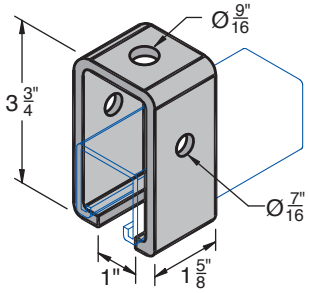
Catalog No.	A	Wt./100 Pcs.
B-601	13/16"	70
B-601-1	1"	75
B-601-2	1 3/8"	84
B-601-3	1 5/8"	85
B-601-4	2 7/16"	108
B-601-5	2 3/4"	116
B-601-6	3 1/4"	126

Page Notes: 1/4" thick, 1 5/8" wide, holes 9/16" dia., spaced 1 7/8" on center and 13/16" from end.
Finish: Electro-galvanized

"U" SHAPE FITTINGS

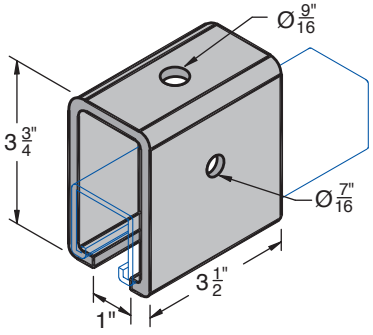
B-611
"U" Support

Wt. 107#/C



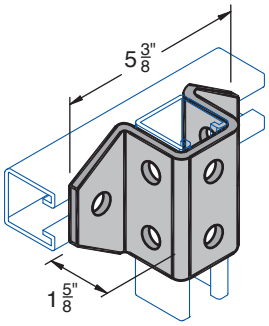
B-612
"U" Support

Wt. 233#/C



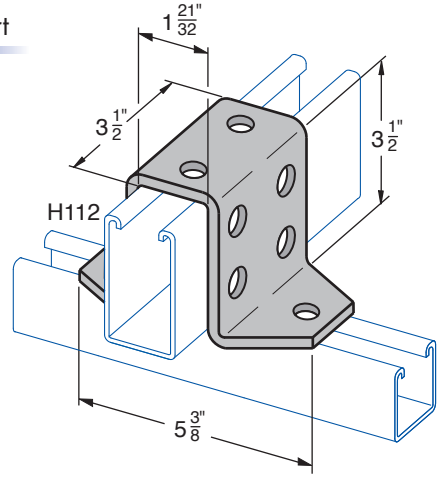
B-613
"U" Support

Wt. 167#/C

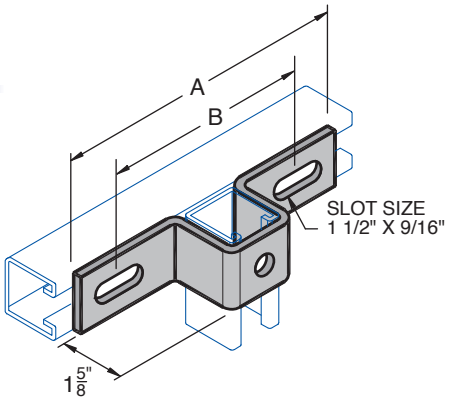


B-614
"U" Support

Wt. 266#/C



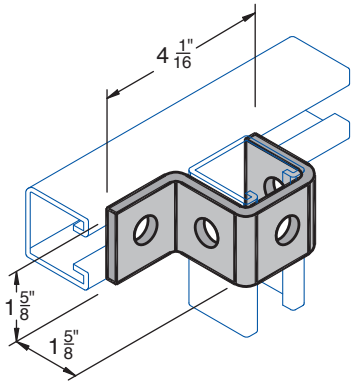
B-602
"U" Support



Catalog No.	A	B	Wt./100 Pcs.
B-602-1	7¼"	4⅛"	103
B-602-2	8½"	5⅜"	115
B-602-3	10⅜"	7¼"	135

B-616
"U" Fitting

Wt. 88#/C



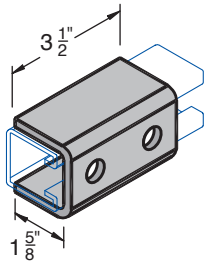
Page Notes: ¼" thick, 1⅝" wide, holes 9/16" dia., spaced 1⅞" on center and 13/16" from end.

Finish: Electro-galvanized

SPLICE PLATES

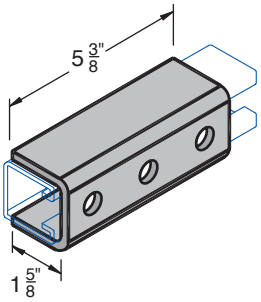
B-609
Two Hole Splice Channel

* Use with H-132, H-134
Wt. 123#/C



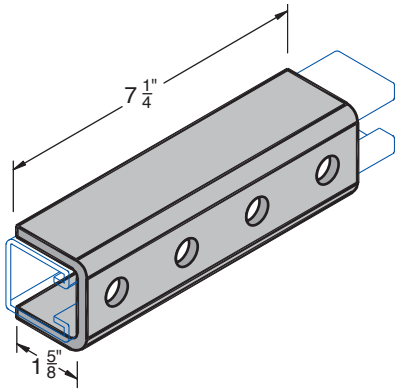
B-604
Three Hole Splice Channel

* Use with H-132, H-134
Wt. 195#/C



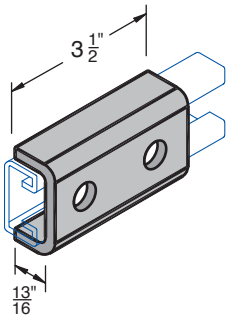
B-605
Four Hole Splice Channel

* Use with H-132, H-134
Wt. 233#/C



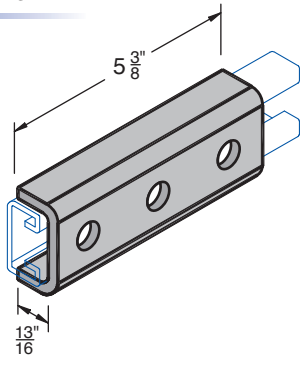
B-607
Two Hole Splice Channel

* Use with H-162, H-164
Wt. 76#/C



B-606
Three Hole Splice Channel

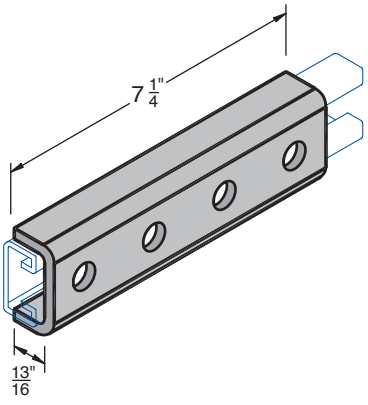
* Use with H-162, H-164
Wt. 116#/C



Page Notes: ¼" thick, 1⅝" wide, holes 9/16" dia., spaced 1⅞" on center and 13/16" from end.
Finish: Electro-galvanized

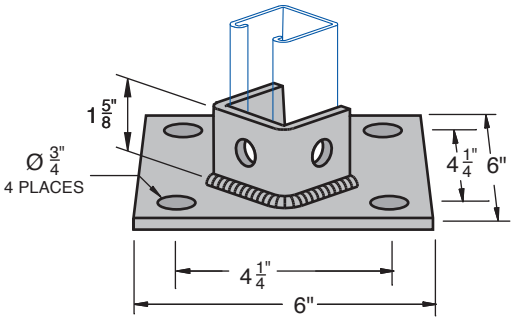
B-608
Four Hole Splice Channel

*Use with H-162, H-164
Wt. 128#/C

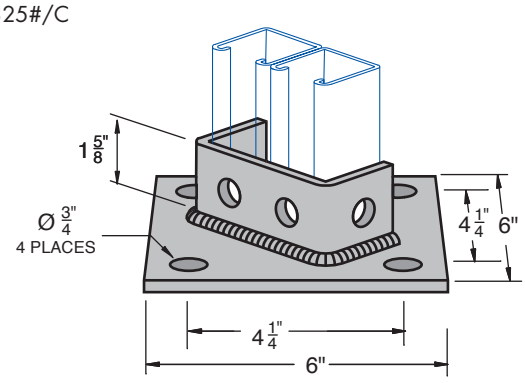


POST BASES

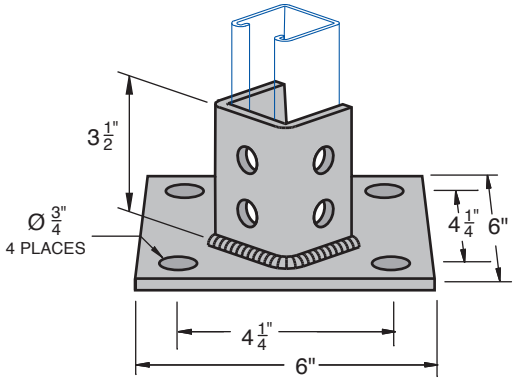
B-619
Single Post Base
Wt. 307#/C



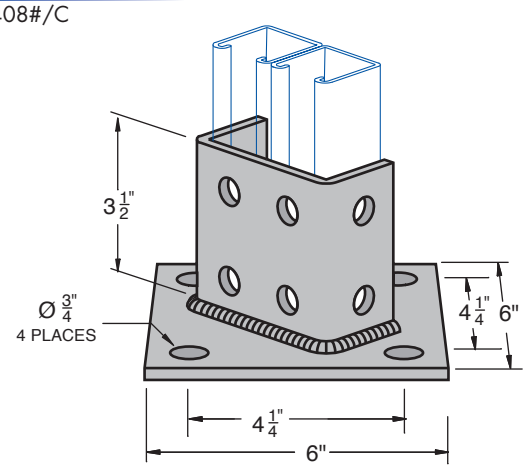
B-619-A
Double Post Base
Wt. 325#/C



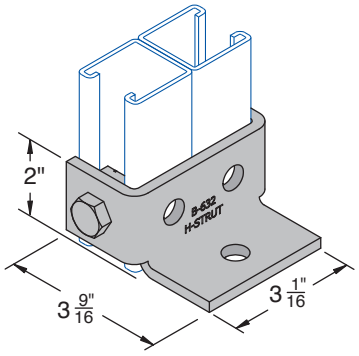
B-620
Single Post Base
Wt. 373#/C



B-620-A
Double Post Base
Wt. 408#/C

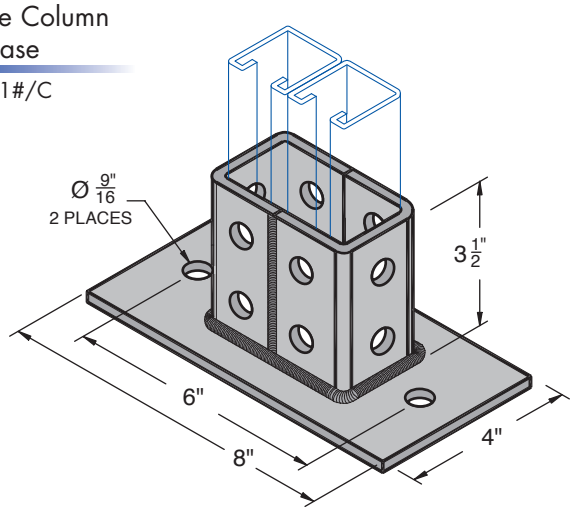


B-632
Double Post Base
Wt. 112#/C



Page Notes: ¼" thick, 1⅝" wide, holes 9/16" dia., spaced 1⅞" on center and 13/16" from end.
Finish: Electro-galvanized

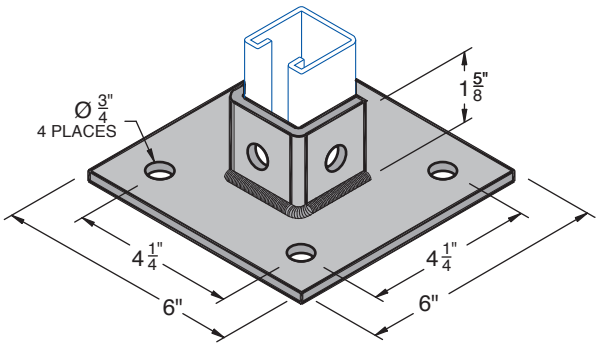
B-630-FL
Double Column Post Base
Wt. 311#/C



POST BASES

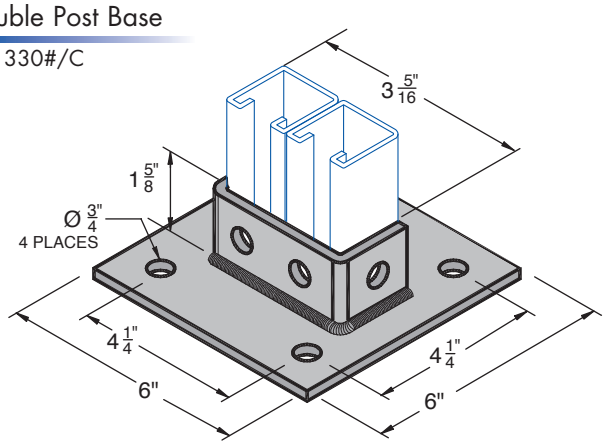
B-619-SQ
Single Post Base

Wt. 314#/C



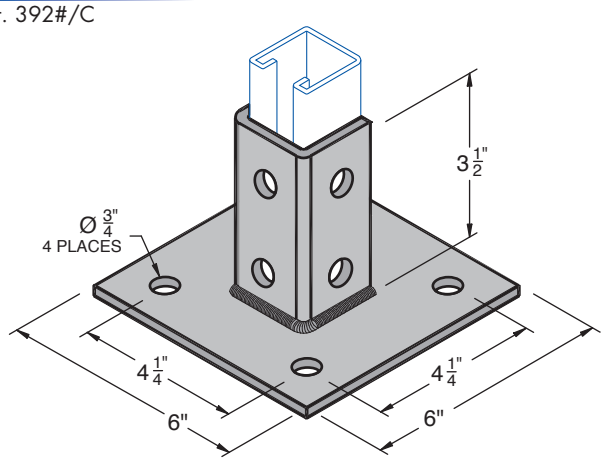
B-619A-SQ
Double Post Base

Wt. 330#/C



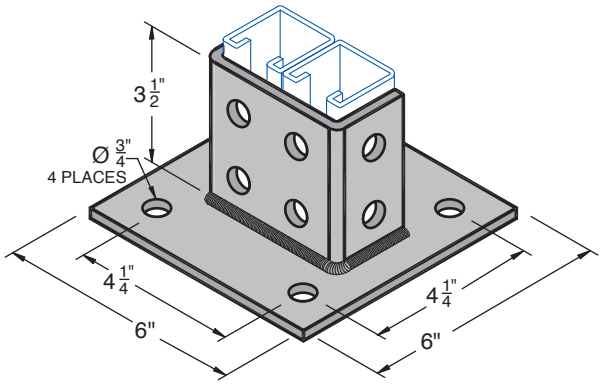
B-620-SQ
Single Post Base

Wt. 392#/C



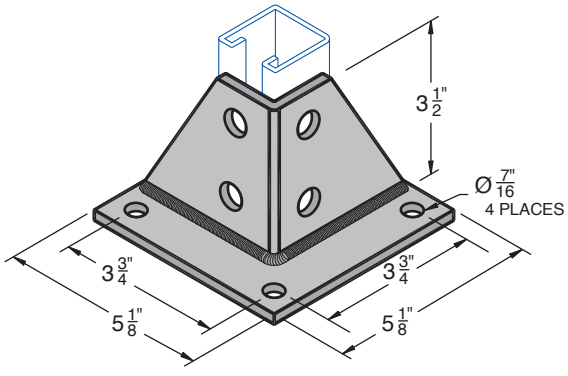
B-620A-SQ
Double Post Base

Wt. 408#/C



B-640
Post Base

Wt. 297#/C

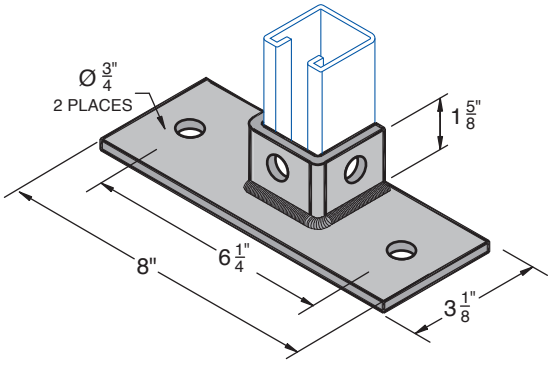


Page Notes: ¼" thick, 1⅝" wide, holes 9/16" dia., spaced 1⅞" on center and 13/16" from end.
Finish: Electro-galvanized

POST BASES

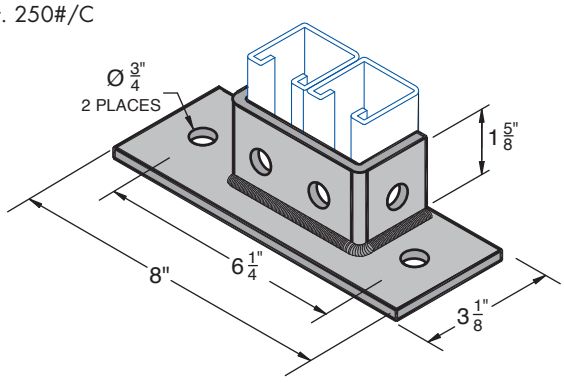
B-619-FL
Single Post Base

Wt. 230#/C



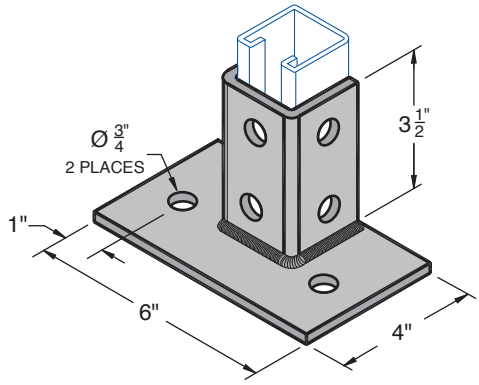
B-619A-FL
Double Post Base

Wt. 250#/C



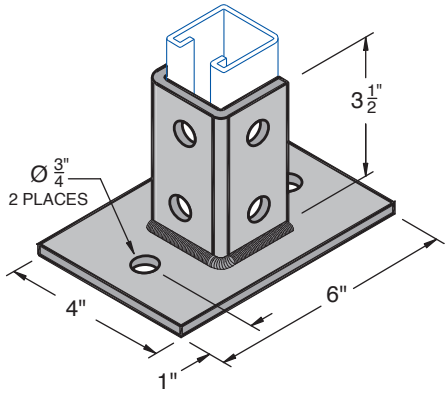
B-620-FL
Single Post Base

Wt. 312#/C



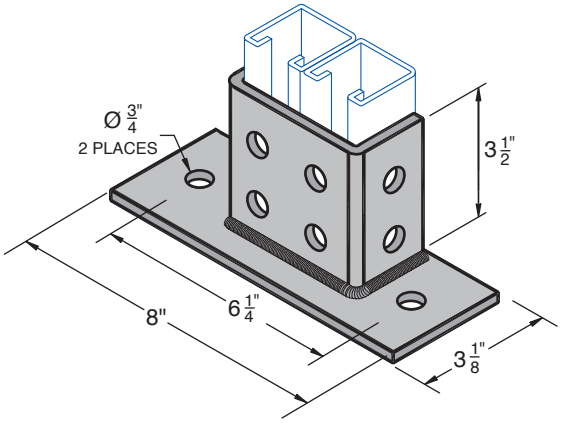
B-620-FL-1
Single Post Base

Wt. 358#/C



B-620A-FL
Double Post Base

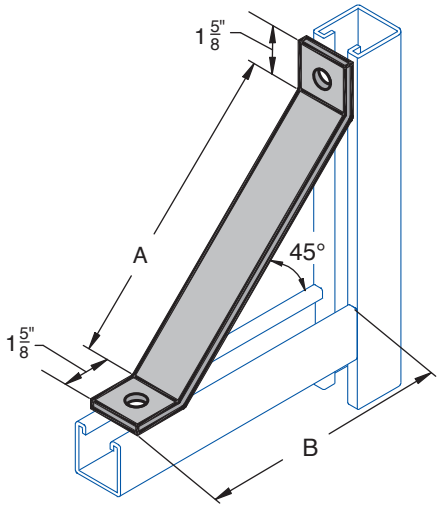
Wt. 320#/C



Page Notes: ¼" thick, 1⅝" wide, holes 9/16" dia., spaced 1⅞" on center and 13/16" from end.
Finish: Electro-galvanized

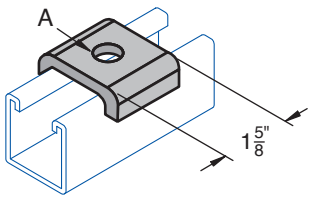
SPECIALTY FITTINGS

B-603
Knee Brace



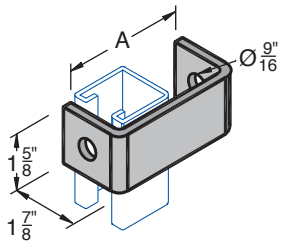
Catalog No.	A	B	Wt./100 Pcs.
B-603-1	16 5/8"	13 5/8"	232
B-603-2	12"	10 1/8"	175

SW-201
Saddle Washer



Catalog No.	A	Wt./100 Pcs.
SW-201-1/4	5/16"	14
SW-201-3/8	7/16"	14
SW-201-1/2	9/16"	14
SW-201-5/8	11/16"	13
SW-201-3/4	13/16"	13

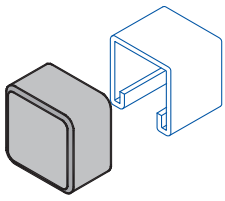
B-615
Clevis Connector



A	Wt./100 Pcs.
4"	89
5"	93
6"	106
7"	118
8"	132

Page Notes: 1/4" thick, 1 5/8" wide, holes 9/16" dia., spaced 1 7/8" on center and 13/16" from end.
Finish: Electro-galvanized

Plastic Red & White Safety End Cap



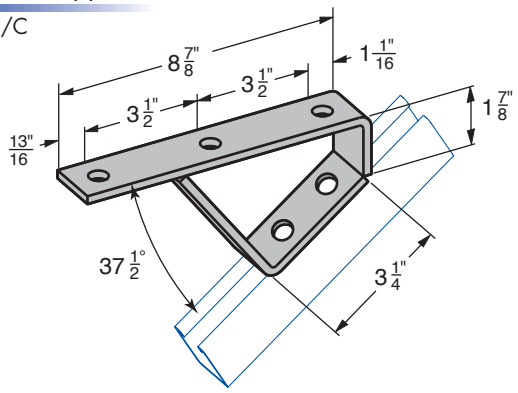
Size	Std. Pkg.	Wt./100 Pcs.	Use With Channel
1	100	5.0	H-112
2	100	2.8	H-132 and H-134
3	100	2.5	H-142
5	100	2.0	H-164

SPECIALTY FITTINGS

M-601

37½° Stair Support

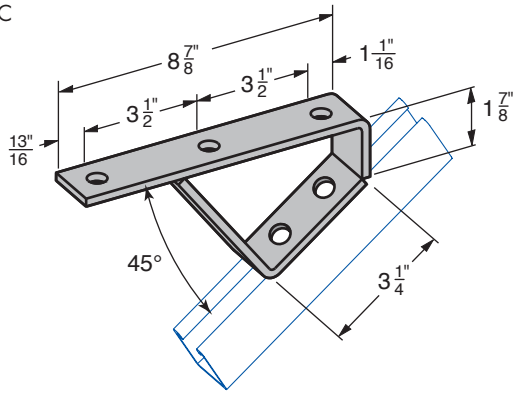
Wt. 206#/C



M-602

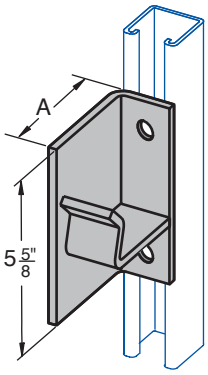
45° Stair Support

Wt. 220#/C



M-605

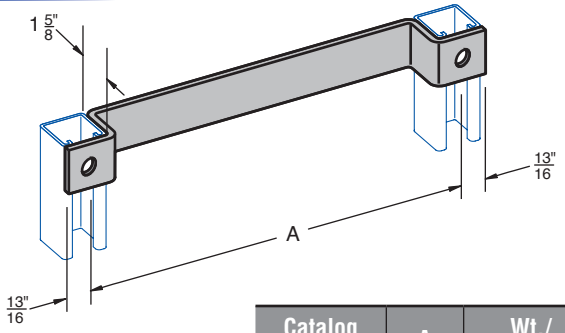
L/R



Catalog No.	A	Wt./100 Pcs.
M-605-1-L	3"	200
M-605-1-R	3"	200
M-605-2-L	3⅝"	220
M-605-2-R	3⅝"	220

M-610

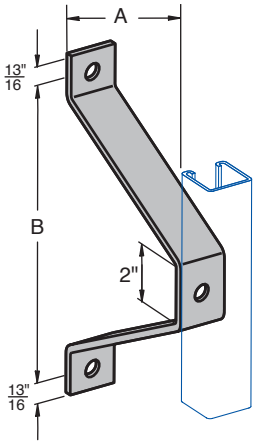
Ladder Rung



Catalog No.	A	Wt./ 100 Pcs.
M-610-1	12"	170
M-610-2	15"	202
M-610-3	18"	234

M-611

Wall Bracket



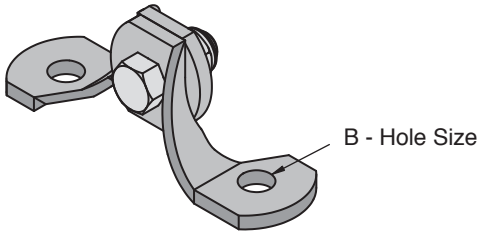
Catalog No.	A	B	Wt./100 Pcs.
M-611-1	2⅜"	6"	110
M-611-2	4⅜"	8"	164
M-611-3	6⅜"	10"	200
M-611-4	8⅜"	12"	253
M-611-5	10⅜"	14"	328

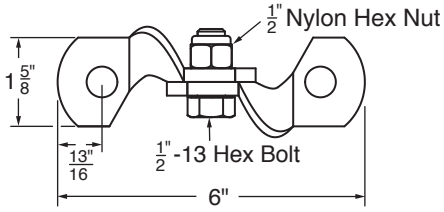
Page Notes: ¼" thick, 1⅝" wide, holes 9/16" dia., spaced 1⅞" on center and 13/16" from end.
Finish: Electro-galvanized

SPECIALTY FITTINGS

HC-208-2

2 Hole Hinge Connector

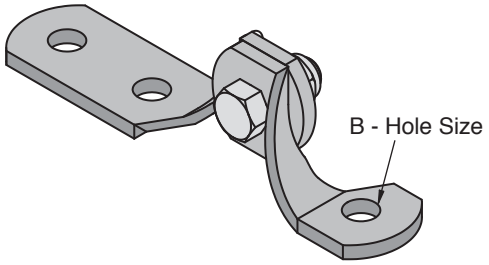


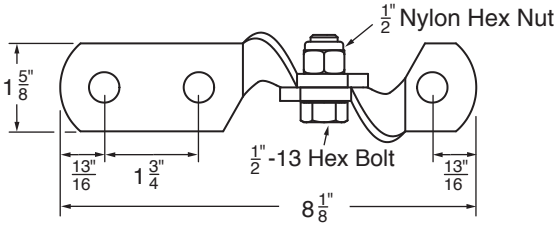


B	Wt./ 100 Pcs.
½"	90
⅝"	88
¾"	86

HC-208-3

3 Hole Hinge Connector



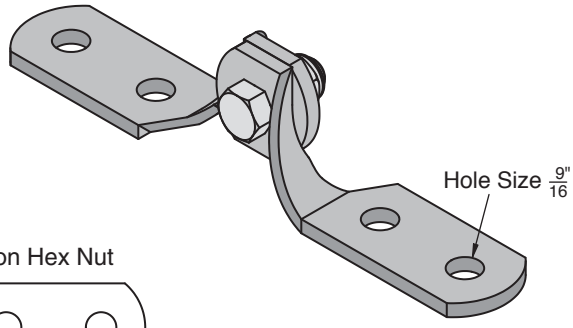


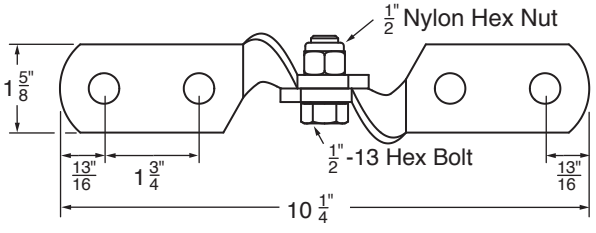
B	Wt./ 100 Pcs.
½"	108
⅝"	107
¾"	106

HC-208-4

4 Hole Hinge Connector

Wt. 126#/C





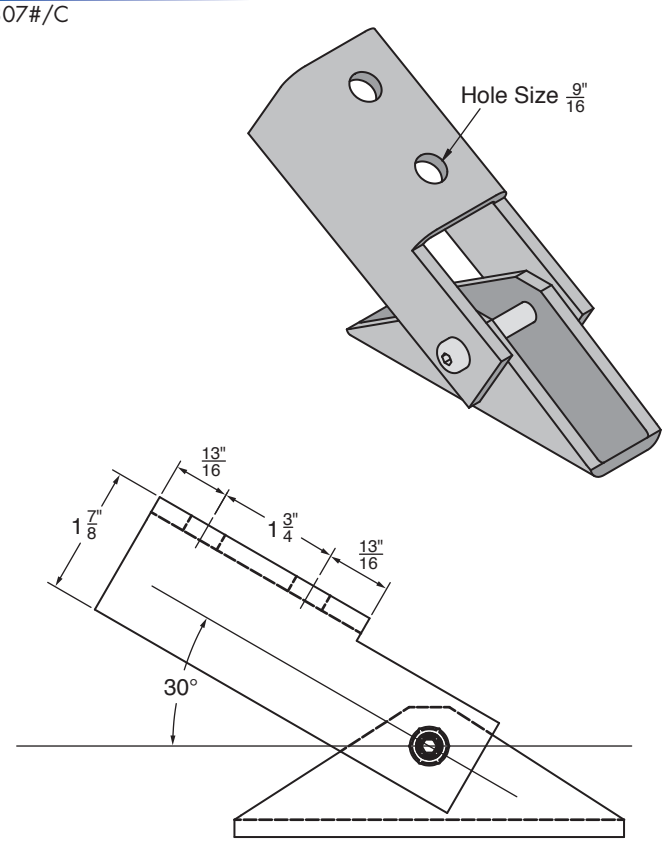
Page Notes: ¼" thick, 1⅝" wide, holes 9/16" dia., spaced 1⅞" on center and 13/16" from end.
Finish: Electro-galvanized

SPECIALTY FITTINGS

AB-9400

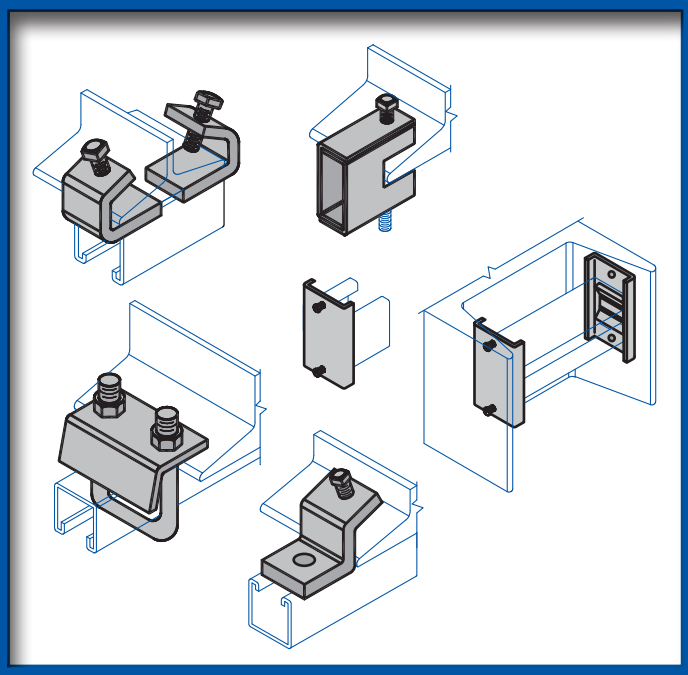
Adjustable Base

Wt. 307#/C



Page Notes: ¼" thick, 1⅝" wide, holes 9/16" dia., spaced 1⅞" on center and 13/16" from end.

Finish: Electro-galvanized



Specifications

GENERAL

H-STRUT General Fittings are designed to secure all H-STRUT 1⅝" wide channels, or threaded rod, to beams or supports for the purpose of running piping, conduit or tubing. All H-STRUT fittings are manufactured from ¼" 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 the factory for any other clamps you may need.

ORDERING

Please specify catalog number and finish.

MATERIAL

H-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

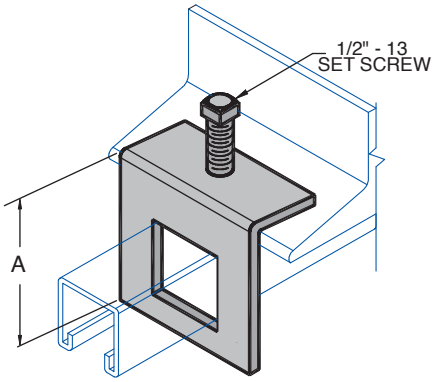
FINISH

H-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

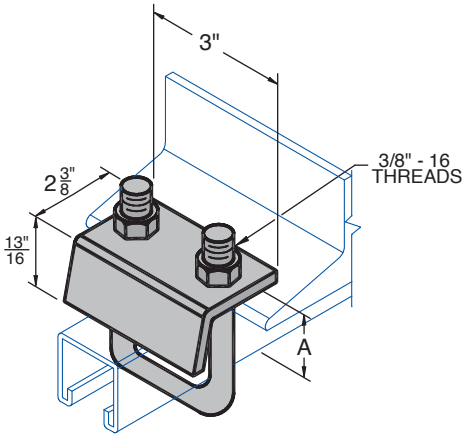
C-401
Beam Clamp

Use with H-132, H-164



Catalog No.	Use With	A	Load Rating	Wt./100 Pcs.
C-401-1	H-132	3½"	500	107
C-401-2	H-164	2 11/16"	500	98

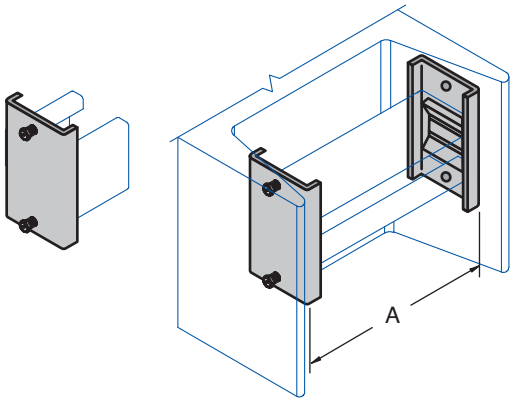
C-402
Beam Clamp



Catalog No.	A	Wt./100 Pcs.
C-402-132	3"	89
C-402-122	5"	92

C-413
Column Beam Clamp

NOTE:
1. Use only with H-132 and H-134
2. Sold only in pairs

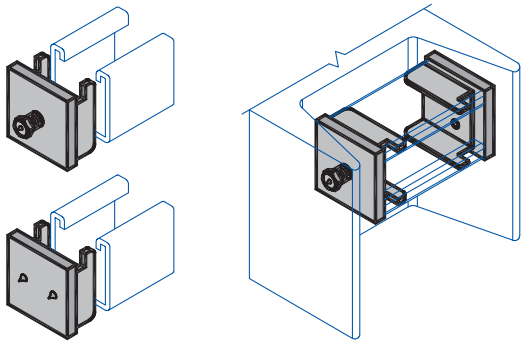


Catalog No.	A	Wt./100 Pcs.
C-413-1	9"	272
C-413-2	12"	272

C-412
Column Beam Clamp

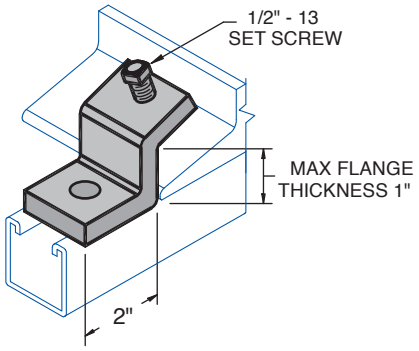
Wt. 53#/C (pair)

NOTE:
1. Use only with H-132 and H-134
2. Sold only in pairs



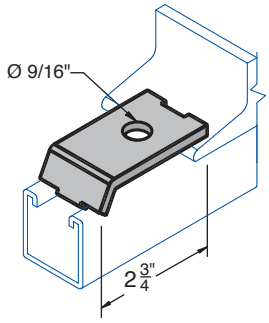
C-406
Beam Clamp

Wt. 66#/C

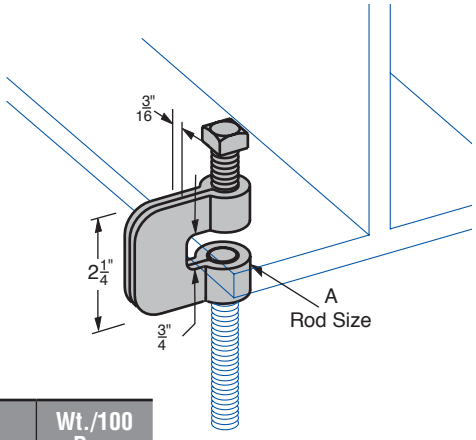


C-403
Beam Clamp

Wt. 30#/C

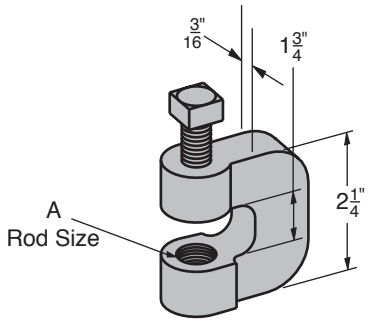


C-405
C-Clamp
Steel



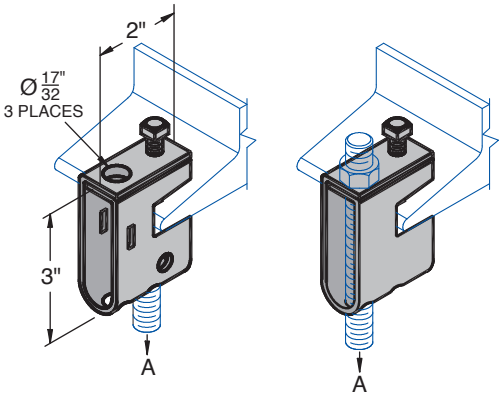
Catalog No.	A	Wt./100 Pcs.
C-405-1	3/8"	40
C-405-2	1/2"	40

C-405M
Malleable
C-Clamp



Catalog No.	A	Wt./100 Pcs.
C-405M-1	3/8"	32
C-405M-2	1/2"	32

C-404
Beam Clamp



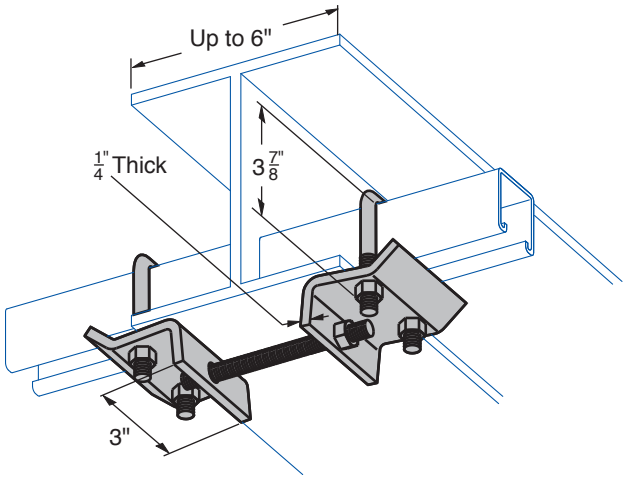
Catalog No.	A	Wt./100 Pcs.
C-404-1	3/8"	46
C-404-2	1/2"	46

C-415

Double "U" Bolt Beam Clamp

Specify 6" or 12" Max. Flange Width.
T1 Use with H-132, H-134, H-142, H-152, H-164.
T2 Use with H-112, H-122, H-132-A.

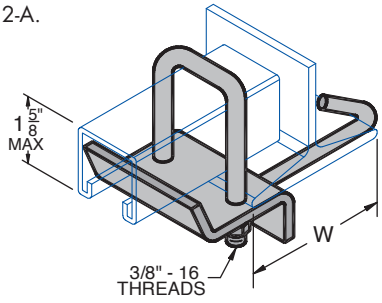
Catalog No.	Std. Pkg.	Wt./100 Pcs.
C-415 T1 6	10	204
C-415 T1 12	10	210
C-415 T2 6	10	226
C-415 T2 12	10	232



C-416

"U" Bolt Beam Clamp with Hook

Specify 6" or 12" Max. Flange Width.
T1 Use with H-132, H-134, H-142, H-152, H-164.
T2 Use with H-112, H-122, H-132-A.

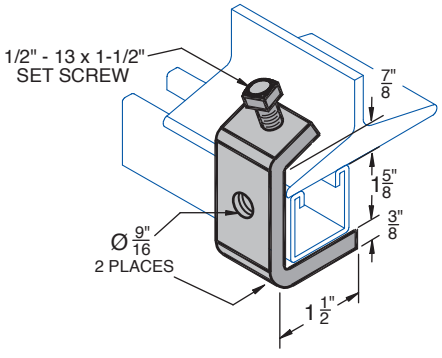


Catalog No.	Std. Pkg.	Wt./100 Pcs.
C-416 T1 6	10	130
C-416 T1 12	10	142
C-416 T2 6	10	141
C-416 T2 12	10	153

C-407

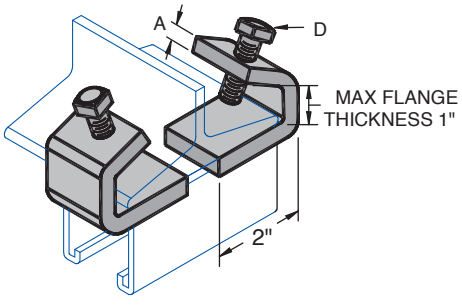
Beam Clamp

Wt. 92#/C



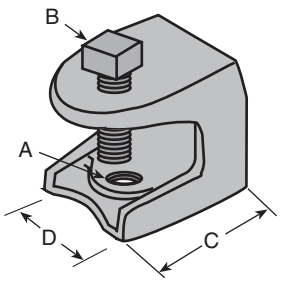
C-408

Beam Clamp



Catalog No.	A	Flange Thickness	D (Set Screw Included)	Wt./ 100 Pcs.
C-408	1/4"	Up to 3/4"	3/8"-16 x 1 1/2"	41
C-408	3/8"	Up to 3/4"	1/2"-13 x 1 1/2"	62

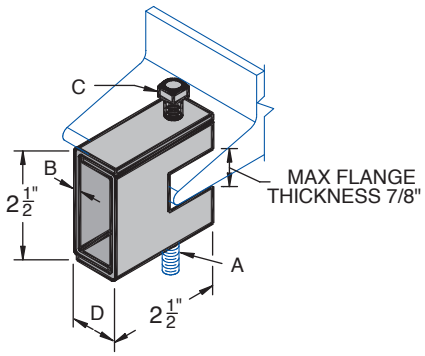
C-440
Electrical Beam Clamp



MATERIAL: Malleable Iron
FINISH: Electro-Galvanized
APPLICATION: Rod support for beams with a flange thickness of 1/2" max.
ORDERING: Specify part # and rod size.

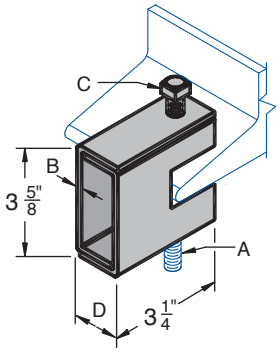
Catalog No.	Rod Size A	Set Screw B	C	D	Load Lbs.	Wt./100 Pcs.
C-440-1/4	1/4-20	5/16-18	1 3/8"	1 3/16"	150	24
C-440-5/16	5/16-18	3/8-16	1 3/8"	1 3/16"	150	24
C-440-3/8	3/8-16	1/2-13	1 7/8"	1 3/16"	350	65
C-440-1/2	1/2-13	1/2-13	2 3/8"	2 1/2"	1000	130

C-410
Beam Clamp



Catalog No.	A	B	C	D	Wt./100 Pcs.	Design Load
C-410-1	1/4"-20	1/8"	3/8" x 1 1/2"	7/8"	67	650
C-410-2	5/16"-18	1/8"	3/8" x 1 1/2"	7/8"	67	650
C-410-3	3/8"-16	1/8"	3/8" x 1 1/2"	7/8"	67	650
C-410-4	3/8"-16	3/16"	1/2" x 1 1/2"	15/16"	100	1100
C-410-5	1/2"-13	3/16"	1/2" x 1 1/2"	15/16"	100	1100
C-410-6	1/2"-13	1/4"	1/2" x 1 1/2"	15/16"	100	1600
C-410-7	5/8"-11	1/4"	1/2" x 1 1/2"	15/16"	130	1600
C-410-8	5/8"-11	5/16"	5/8" x 1 1/2"	1 15/16"	160	2400
C-410-9	3/4"-10	5/16"	5/8" x 1 1/2"	1 15/16"	160	2400

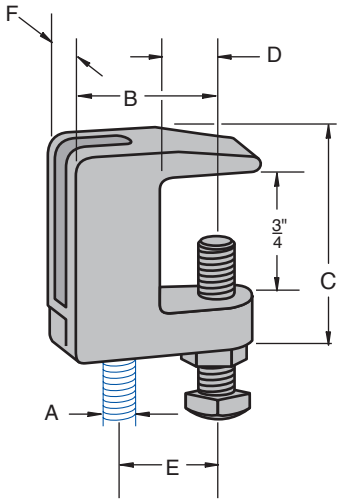
C-411
Beam Clamp



Catalog No.	A	B	C	D	Wt./100 Pcs.	Design Load
C-411-1	1/4"-20	1/8"	3/8" x 2"	1 21/32"	109	800
C-411-2	3/8"-16	3/16"	1/2" x 2"	1 11/16"	156	1300
C-411-3	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.

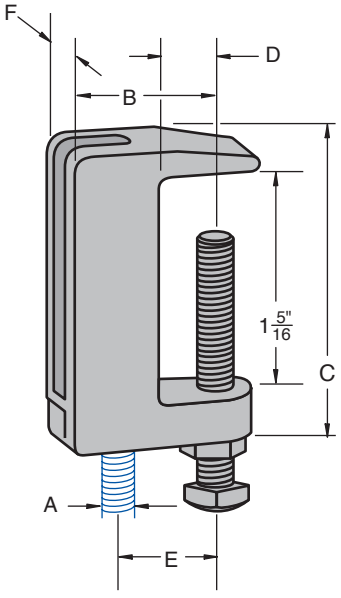
C-420
Top Beam Clamp



MATERIAL: Malleable Iron
FINISH: Plain/Electro-Galvanized
APPLICATION: Recommended for use under roof installations with bar joist type construction where thickness of joist does not exceed 5/8 inch.
ORDERING: Specify part #, rod size and finish.

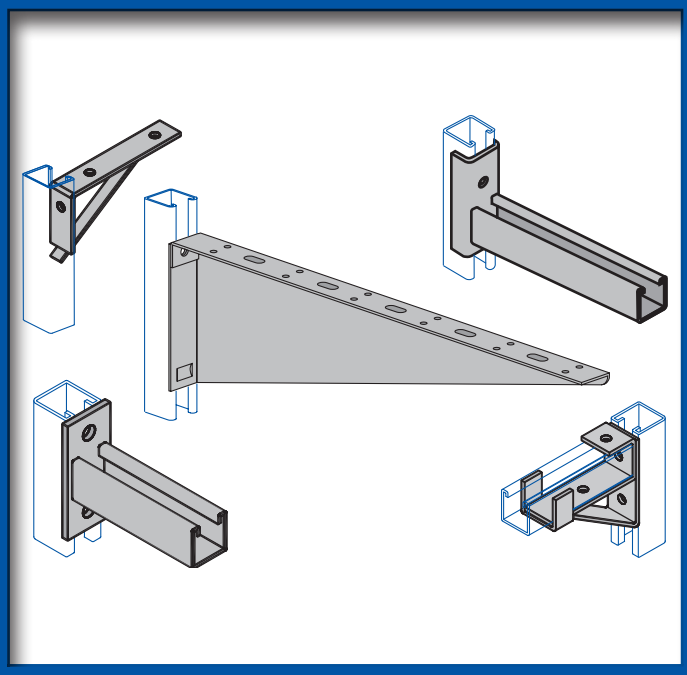
Catalog No.	Rod Size A	B	C	D	E	F	Max. Load Lbs	Wt./100 Pcs.
C-420-1	3/8"	1 1/2"	1 7/16"	3/4"	1 3/16"	3/4"	350	30
C-420-2	1/2"	1 5/8"	1 1/2"	3/4"	1 1/4"	7/8"	470	39
C-420-3	5/8"	1 1/2"	1 1/2"	3/4"	1 3/32"	1"	550	40
C-420-4	3/4"	1 3/4"	1 3/4"	1 1/16"	1 5/16"	1 1/4"	700	67

C-430
Beam Clamp



MATERIAL: Malleable Iron
FINISH: Plain/Electro-Galvanized
APPLICATION: Recommended for use under roof installations with bar joist type construction where thickness of joist does not exceed 1 1/4 inch.
ORDERING: Specify part #, rod size and finish.

Catalog No.	Rod Size A	B	C	D	E	F	Max. Load Lbs	Wt./100 Pcs.
C-430-1	3/8"	1 7/16"	2"	3/4"	1 3/16"	3/4"	400	38
C-430-2	1/2"	1 5/8"	2 1/16"	3/4"	1 1/4"	7/8"	500	49
C-430-3	5/8"	1 3/4"	2 1/4"	3/4"	1 1/4"	1"	800	66
C-430-4	3/4"	1 7/8"	2 3/8"	3/4"	1 3/8"	1 3/8"	900	83



SPECIFICATIONS

GENERAL

H-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

H-STRUT Hanging Supports are produced from our standard channels. All hole dimensions are 9/16" diameter, which are located on the trapezes 1" from the end. Holes are located 13/16" from the end, 1 7/8" on centers on the brackets.

FINISH

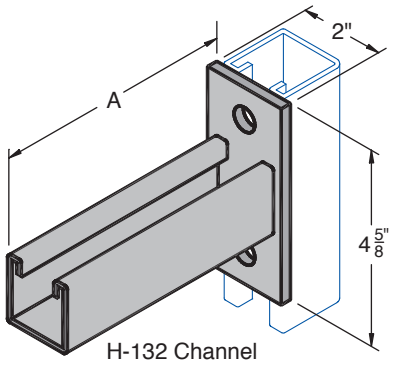
H-STRUT brackets are available in the following finishes:

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.

T-610
Single Channel Bracket

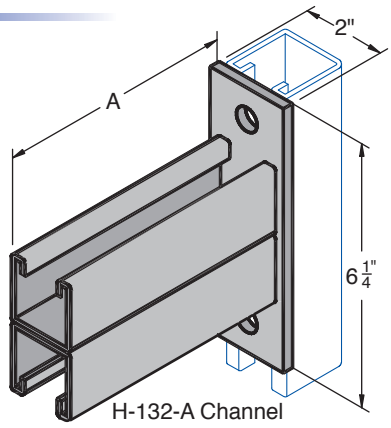


ORDERING: Specify catalog number, length (A) and finish.

Catalog No	Size A	Uniform Load Capacity (Lbs)
T-610-6	6"	1,932
T-610-12	12"	1,107
T-610-18	18"	759
T-610-24	24"	332

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

T-611
Double Channel Bracket

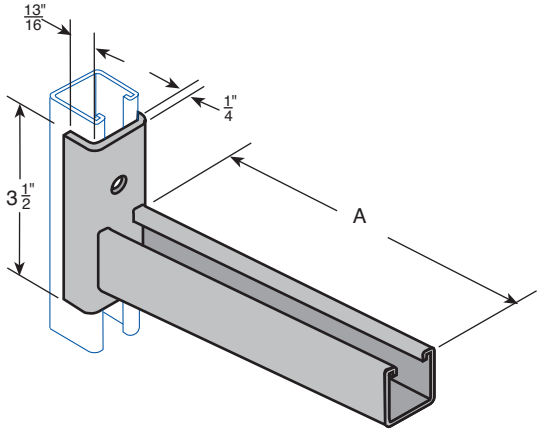


ORDERING: Specify catalog number, length (A) and finish.

Catalog No	Size A	Uniform Load Capacity (Lbs)
T-611-6	6"	2,805
T-611-12	12"	1,621
T-611-18	18"	1,234
T-611-24	24"	905
T-611-30	30"	727
T-611-36	36"	600

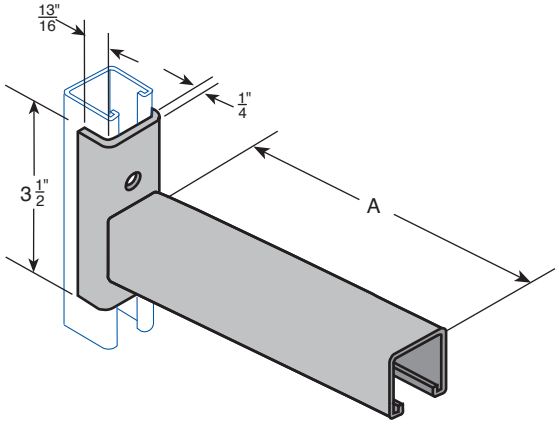
Note: 1. Loads Based On Actual Independent Lab Testing On 12 Gage Channel
2. Safety Factor = 2.5

T-612
Bracket



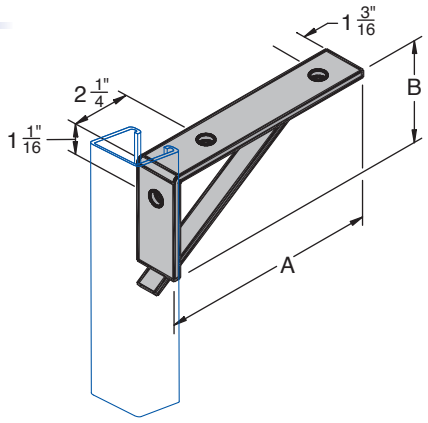
A	Wt./100 Pcs.
6"	191
12"	291

T-613
Bracket



A	Wt./100 Pcs.
6"	191
12"	291

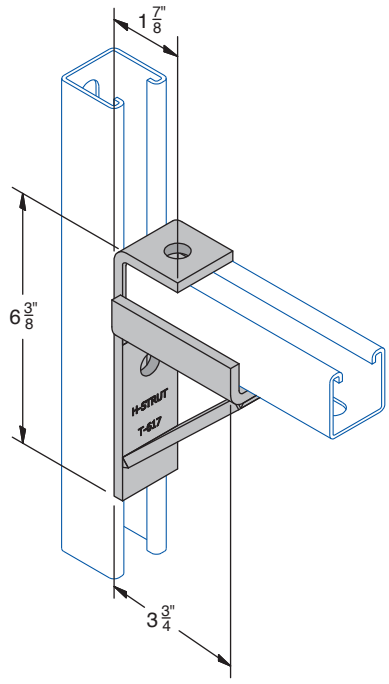
T-630
Shelf Bracket



Catalog No	Size	A	B	Uniform Load*	Wt./100 Pcs.
T-630-1	8"	8½"	4"	800	168
T-630-2	10"	10½"	4"	800	202
T-630-3	12"	12½"	6"	900	258
T-630-4	14"	14½"	6"	900	292
T-630-5	16"	16½"	6"	1,200	381
T-630-6	18"	18½"	6"	1,200	416
T-630-7	20"	20½"	6"	1,000	461

T-617
Bracket

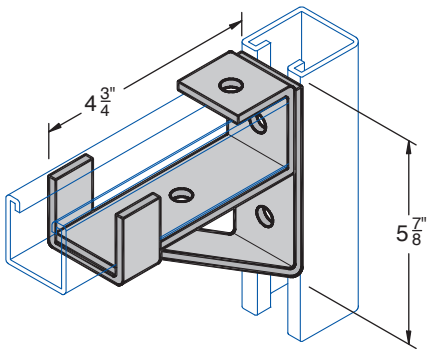
Wt. 226 #/C



NOTE: Use with H-132 and H-134 channel.

T-615
Bracket

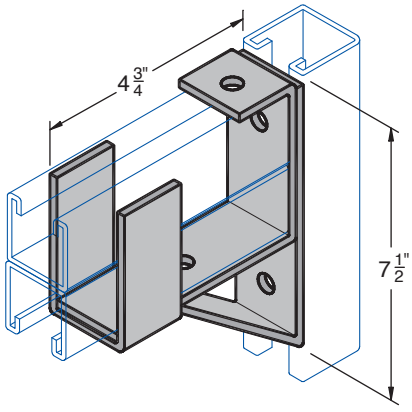
Wt. 230 #/C



NOTE: Use with H-132 and H-134 channel.

T-616
Bracket

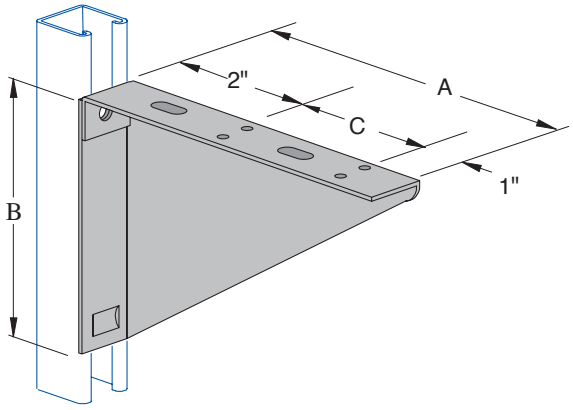
Wt. 275 #/C



NOTE: Use with H-132-A and H-134-A channel.

T-620

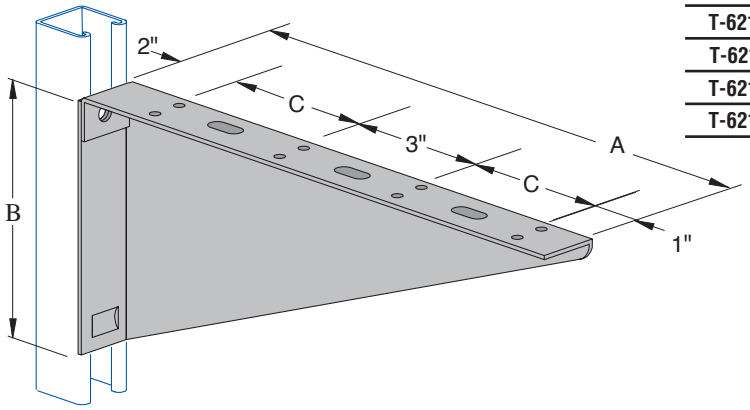
Shelf Bracket
(Right-Hand Shown)



Catalog No.		A	B	C	Wt./100 Pcs.
Left Hand	Right Hand				
T-620/6-L	T-620/6-R	6"	2 15/16"	3"	56
T-620/8-L	T-620/8-R	8"	2 15/16"	5"	82
T-620/10-L	T-620/10-R	10"	2 15/16"	7"	112

T-621

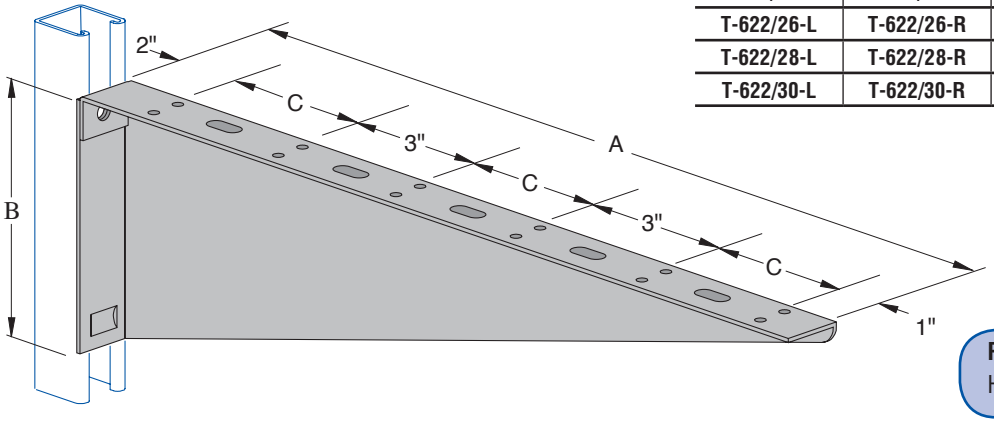
Shelf Bracket
(Right-Hand Shown)



Catalog No.		A	B	C	Wt./100 Pcs.
Left Hand	Right Hand				
T-621/12-L	T-621/12-R	12"	3 7/16"	3"	134
T-621/14-L	T-621/14-R	14"	3 15/16"	4"	185
T-621/16-L	T-621/16-R	16"	4 7/16"	5"	198
T-621/18-L	T-621/18-R	18"	4 15/16"	6"	218
T-621/20-L	T-621/20-R	20"	5 7/16"	7"	258
T-621/22-L	T-621/22-R	22"	5 15/16"	8"	348

T-622

Shelf Bracket
(Right-Hand Shown)



Catalog No.		A	B	C	Wt./100 Pcs.
Left Hand	Right Hand				
T-622/24-L	T-622/24-R	24"	6 7/16"	5"	400
T-622/26-L	T-622/26-R	26"	6 15/16"	5 11/16"	445
T-622/28-L	T-622/28-R	28"	7 7/16"	6 5/16"	493
T-622/30-L	T-622/30-R	30"	7 15/16"	7"	545

Page Notes:
Hole Dim. 9/32", Slot Dim. 3/8" x 1"

SPECIFICATIONS

GENERAL

H-STRUT Closure Strips (C-900) are designed to fit all H-STRUT channels to make a surface raceway. Electrical Fittings are also designed to fit all H-STRUT channels.

LENGTH

H-STRUT Closure Strips stocked in 10 ft. lengths. Other lengths available upon request.

UL LISTED ELECTRICAL PRODUCTS

Channel Raceway
Channel Raceway Closure Strip
Channel Raceway Base
Channel Raceway Fittings

UL® LISTED

ORDERING

Specify catalog number, size when required, and finish, if other than standard.

MATERIAL

Channels, Closure Strips and Accessories are manufactured from the following materials:

Hot Rolled Carbon Steel . . . . . .ASTM A-1011-04-SS
Cold Rolled Carbon Steel. . . . . .ASTM A-1008
*Other materials available upon request

FINISH

Channels, Closure Strips and Accessories are available in the following finishes:

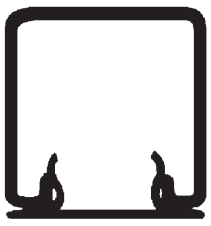
Pre-Galvanized . . . . . .ASTM A-653-G90
Hot Dipped Galvanized . . . . . .ASTM A-123
Zinc Trivalent Chromium . . . . . .ASTM B-633-85
Powder Coated Supr-Green. . . . . .ASTM B-117
Plastic: green, white, black
*Other finishes available upon request

SURFACE METAL RACEWAYS

The following table indicates the maximum number wires of different sizes and types that can be used for each raceway. The C-900 Closure Strip is required to complete the raceway enclosure in all cases.

Knockout

Standard



Insulation Type	Wire Size AWG	H-112 H-112-KO	H-122 H-122-KO	H-132, H-134 H-132-KO, H-134-KO	H-142 H-142-KO
AVA	14	36	27	17	14
	12	31	23	14	12
	10	27	19	12	10
	8	23	17	10	9
	6	14	10	6	5
AVB, RH, RHH, RHW	14	52	38	24	20
	12	43	31	20	16
	10	36	27	17	14
	8	20	14	9	7
	6	14	10	6	5
FEP, FEPB, THHN, XHHN	14	197	145	92	76
	12	147	108	68	56
	10	93	68	43	36
	8	46	34	21	17
	6	24	17	11	9
RUH, RUW, T, TW, XHHW	14	127	93	59	49
	12	100	73	46	38
	10	77	56	36	29
	8	36	26	17	14
	6	21	15	9	8
THW	14	83	61	39	32
	12	68	50	32	26
	10	55	40	26	21
	8	29	21	13	11
	6	21	15	10	8

The table to the right represents the number of wires allowed when raceway is installed to support and supply electrical discharge type lighting fixtures when raceway wiring is suitable for 75°C, except wire suitable for 60°C may be used if a minimum clearance of ½" between fixture and raceway exists.

To complete the raceway enclosure the C-900 closure strip is required in all cases.

Insulation Type	Wire Size AWG	H-112 H-112-KO	H-122 H-122-KO	H-132, H-134 H-132-KO, H-134-KO	H-142 H-142-KO
AVA, AVB, FEP, FEPB, RH, RHH, RHW, RUH, THHN, THWN, THW, XHHW	14	10	10	10	10
	12	10	10	10	10
	10	8	5	5	5
	8	6	4	4	4
	6	4	4	4	3

SURFACE METAL RACEWAYS – UL LISTED

H-132 & H-132-KO – 1⅝" X 1⅝" 12 Gauge Channel & Channel with Knock Outs

(See Pages 22 - 23)

General Notes for Strut-Type Channel Raceway

Suitable for not more than the number of wires of the sizes and types indicated in the following tables. Intended to enclose circuits operating at potentials not exceeding 600 volts between conductors. In all cases, the C-900 closure strip is required to complete raceway closure.

Haydon's strut-type channel raceways and fittings are manufactured and tested to comply with the UL Standard for Safety for Strut-Type Channel Raceways and Fittings (UL 5B) in accordance with Article 384 of the 2002 National Electrical Code, NFPA 70.

1. Support spans for strut-type channel raceway shall not exceed 10 foot intervals.
2. No conductor larger than that for which the raceway is listed shall be installed in strut-type channel raceways. No wires under 14AWG or over 6AWG are allowed in any of Haydon's strut-type channel raceway. See tables 1 and 2 for a listing of the approved conductors for Haydon's strut-type channel raceways.
3. The number of conductors permitted in strut-type channel raceway shall not exceed the percentage fill using Table 384-22 and the applicable outside diameter of specific types and sizes of wire given in the tables in chapter 9 of the National Electrical Code. Table 384-22 lists two different percent fill areas depending on the use of internalor external joiners.
   - Use 40% area fill with external joiners, and
   - 25% area fill for internal joiners.
4. Items in this catalog identified by the UL symbol provide for electrical continuity. Other items require the use of a separate grounding wire.
5. If strut-type channel raceway is connected to another wiring system, the raceway must be field-tapped adjacent to the wire entry point to accept a #10-32 or larger grounding screw. A plated or stainless steel screw may be used. A sheet metal screw is not acceptable. Drill and tap the grounding wire hole before installing wires in raceway or move installed wires out of the way to avoid damage. After drilling and tapping, remove metal chips and burrs before installing screw.

NOTE: The C-900 Closure Strip is required to complete the raceway enclosure in all cases.

Table 1 is used to determine the type and number of wires used with strut-type channel raceway using external joiners. This table applies for all installations except for the support and supply of electric discharge type lighting fixtures.

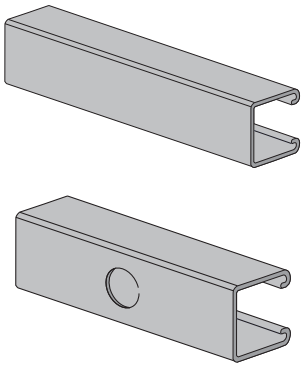


Table 2 lists the maximum number of wires in the raceway when installed to support and supply electric discharge type lighting fixtures when raceway wiring is suitable for at least 70°C and clearance between fixture and raceway is at least 1/8".

Table 3 lists the maximum the number of wires in the raceway when installed to support and supply electric discharge type lighting fixtures when raceway wiring is suitable for 75°C, or wiring suitable for 60°C if a minimum clearance between fixture and raceway is at least 1/2".

Table - 1
[wire fill for raceway]

Insulation Type	Wire Size AWG	No. Wires H-132, 132-KO
AVA	14	17
	12	14
	10	12
	8	10
	6	6
AVB, RH, RHH, RHW	14	24
	12	20
	10	17
	8	9
	6	6
FEP, FEPB, XHHN	14	81
	12	59
	10	42
	8	21
	6	11
THHN, THWN	14	84
	12	61
	10	38
	8	21
	6	14
RUH, RUW, T, TW, XHHW	14	58
	12	45
	10	33
	8	17
	6	9
THW	14	39
	12	31
	10	24
	8	13
	6	10

Table - 2

Insulation Type	Wire Size AWG	No. Wires H-132, 132-KO
AVA, AVB, FEP, FEPB, RH, RHH, RHW, RUH, THHN, THWN, THW, XHHW	14	6
	12	6
	10	5
	8	4
	6	2

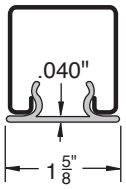
Table - 3

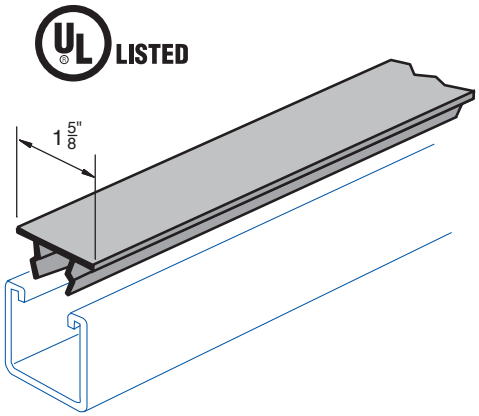
Insulation Type	Wire Size AWG	No. Wires H-132, 132-KO
AVA, AVB, FEP, FEPB, RH, RHH, RHW, RUH, THHN, THWN, THW, XHHW	14	10
	12	10
	10	8
	8	6
	6	3

C-900
Closure Strip

Wt. 47#/C ft.

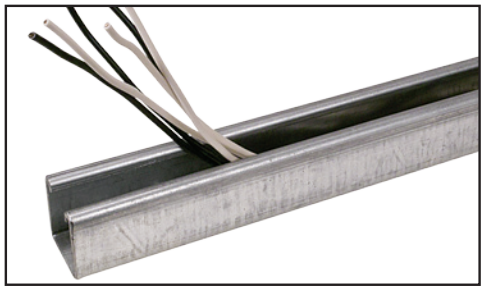
Figure C-900 closure strip is used as a cover plate for closing slotted area of H-STRUT®. It is inserted before or after installation.
The closure strip fits all H-STRUT® channel sizes. It is available in standard lengths of 10 ft.
Other lengths available to order.
Finish: Plain, power coated Supr-Green and Pre-Galvanized.



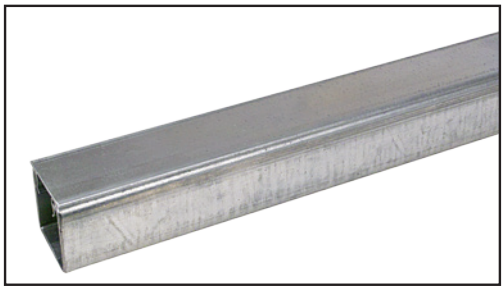


C-900 - Closure Strip – Installation

Step 1 - Place wires in the channel



Step 2 - The C-900 closure strip is snapped into place to create a raceway.

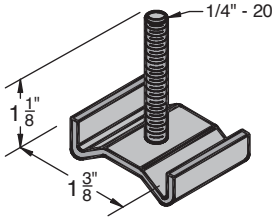


E-503-SN
Fixture Stud Nut

Wt. 4#/C

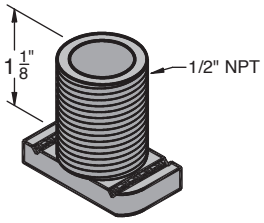
1/4"-20 thd. x 11/4" long

Finish:
Electro-Galvanized



E-502
Aluminum Wire Stud ½"

Wt. 8#/C

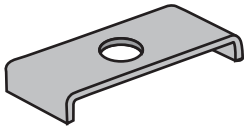


E-503
Fluorescent Fixture Nut

Wt. 2#/C

Tapped for 1/4" - 20 thd.

Finish:
Electro-Galvanized

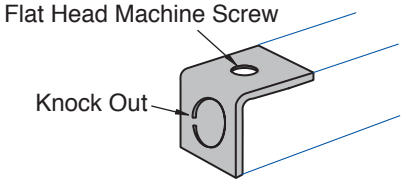


E-504
Conduit End Cap
for ½" or ¾" Conduit

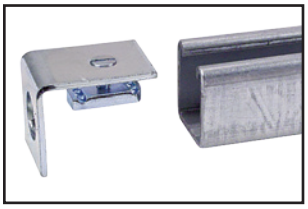
UL LISTED

Catalog No.	Conduit Size	UL LISTED	For Use With	Wt./100 Pcs.
E-504-1-1/2" KO	½"	-	H-122	27
E-504-2-1/2" KO	½"	UL	H-132	24
E-504-2-3/4" KO	¾"	UL	H-132	24
E-504-3-1/2" KO	½"	-	H-142	21

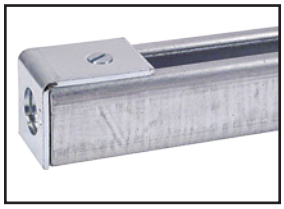
¼-20 ⅝" Long Flat Head Machine Screw and Stut Nut supplied.



E-504 - Conduit End Cap – Installation



A grip-lock nut and flat head machine screw are used to fasten the end cap to channel.
The nut is placed as shown (parallel to the channel) and inserted.

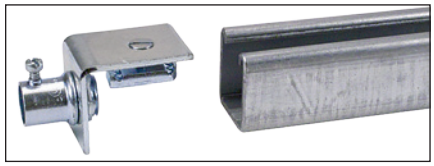


When the screw is tightened the nut will rotate 90° and the teeth in the nut will lock onto the channel to ensure a tight connection.
The knock out is used to connect conduit as shown in the application examples.

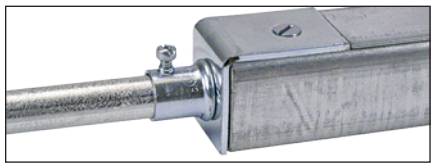
E-504 - Conduit End Cap – Application Examples

EMT Conduit

The conduit connector and associated nut are attached to the end-cap prior to insertion.
Then, the end cap assembly is inserted and tightened.
A piece of conduit is added to the conduit connector fastened by the conduit screw.
Standard UL approved parts for conduit connection are used for this example.

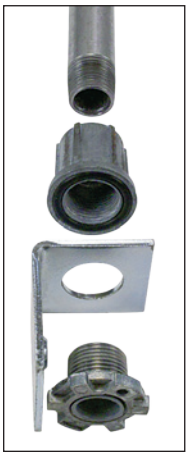


Insert assembly, and tighten the machine screw.

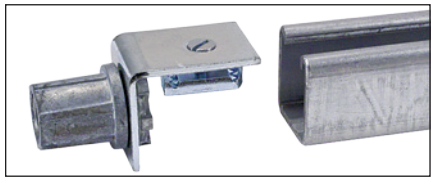


Attach the conduit.

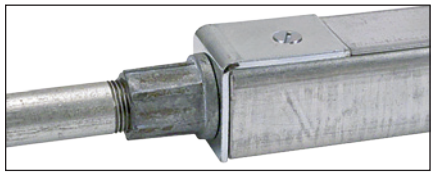
Rigid Conduit



The rigid connector and associated nut are attached to the end-cap prior to insertion.
Then, the end cap assembly is inserted and tightened.
A piece of rigid conduit is threaded into the conduit connector.
Standard UL approved parts for conduit connection are used for this example.



Insert assembly, and tighten the machine screw.



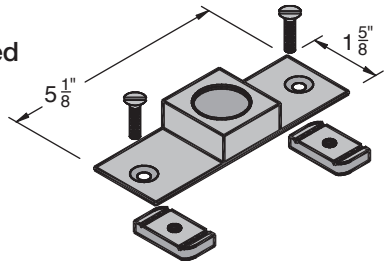
Attach the conduit.

E-501

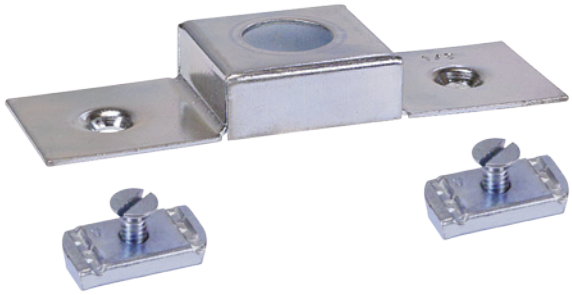
½" or ¾" Conduit Connector Plate

Wt. 28#/C

Finish:
Electro-Galvanized

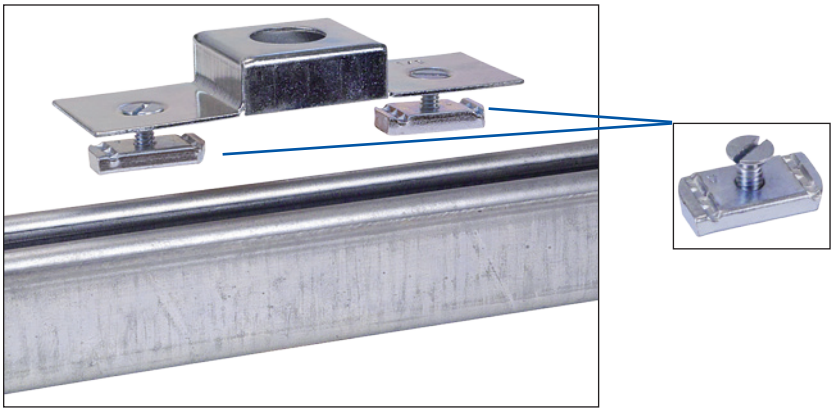


UL LISTED



(2) 1/4-20 5/8" Long Flat Head Machine Screw and nuts shown are not supplied.

E-501 - Conduit Connector Plate

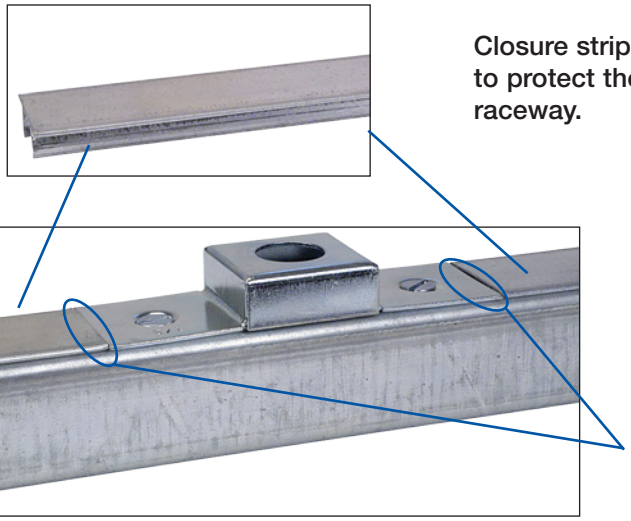


Grip-lock nut and flat head machine screws are used to fasten the connector plate to channel.

The nut is placed as shown (parallel to the channel) and inserted.

When the screw is tightened the nut will rotate 90° and the teeth in the nut will lock onto the channel to ensure a tight connection.

The hole on top is used to attach conduit or accessories as shown in application examples.

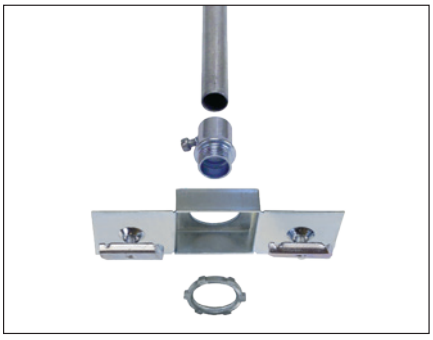


Closure strips are added to the channel to protect the wires and create a wire raceway.

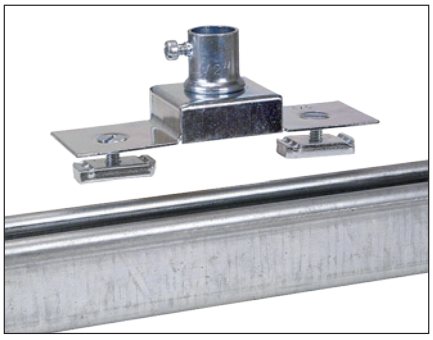
NOTE: Be sure that the gap between the E-504 fitting and the closure strip is no more than 1/16" (.0625)

E-501 - Conduit Connector Plate – Installation

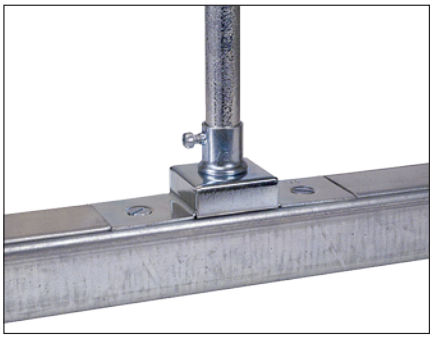
EMT Conduit



The complete assembly for connecting EMT uses standard UL approved conduit connectors supplied by others.

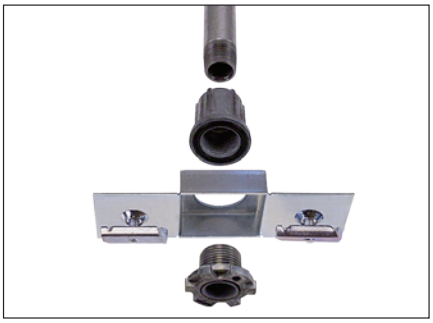


The conduit connector is added to the conduit connector plate and the subassembly is installed as shown on the previous page.

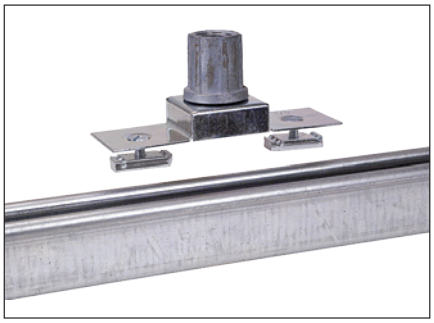


EMT Conduit can now be attached to the subassembly.

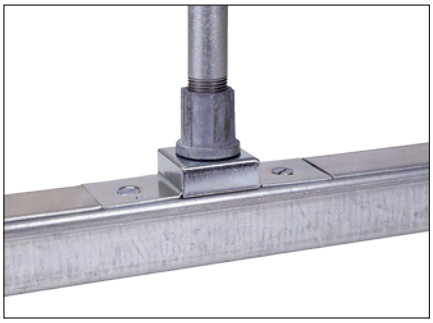
Rigid Conduit



The complete assembly for connecting Rigid / GRC uses standard UL approved conduit connectors supplied by others.

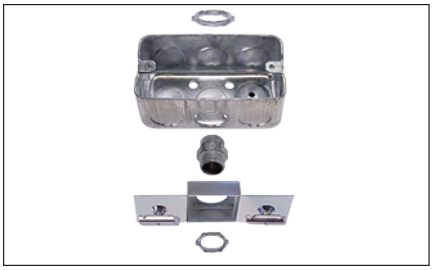


The conduit connector is added to the conduit connector plate and the subassembly is installed as shown on the previous page.

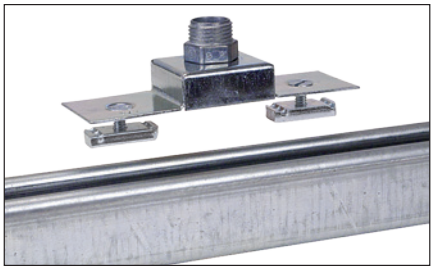


Rigid / GRC Conduit can now be attached to the subassembly.

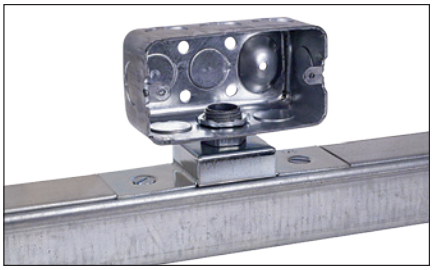
Electrical Box



The complete assembly for connecting an electrical outlet box uses standard UL approved box and connectors supplied by others.



The box spacer is added to the conduit connector plate and the subassembly is installed as shown on the previous page.



The electrical box can now be attached to the subassembly.

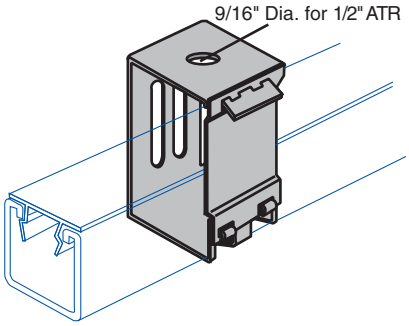
E-505

Snap Type Fluorescent Fixture Hanger

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

UL LISTED

Catalog No.	For Use With	UL LISTED	Wt./ 100 Pcs.
E-505	H-132	UL	25
E-505	H-134, H-142, H-152	-	25
E-505H	H-112, H-122	-	45



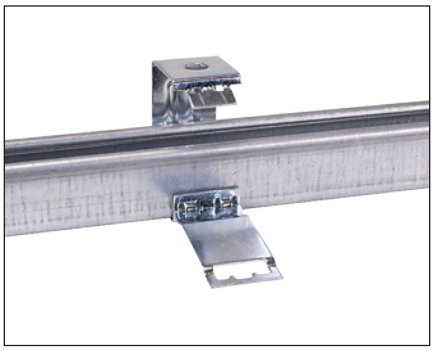
E-505 - Snap Type Channel Hanger – Installation

Step 1:

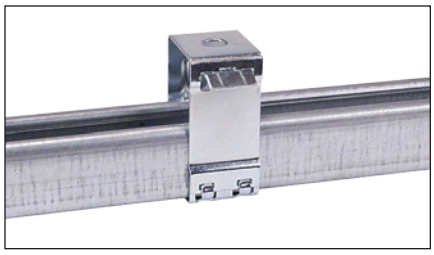
The hanger is opened by releasing snap.

Step 2:

The Channel is placed in the hanger and the snap cover is closed.



Step 3:

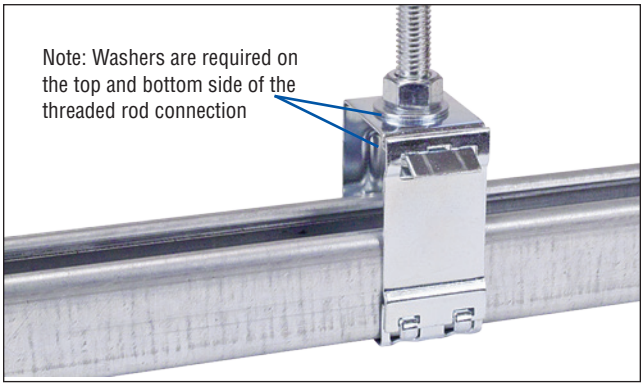


E-505 - Snap Type Channel Hanger – Application Example

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.



E-510

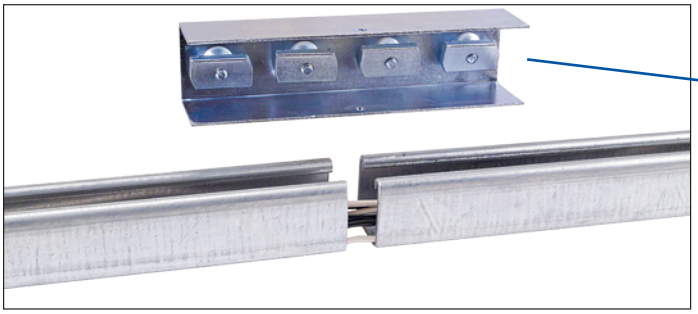
4-Hole Splice Clevis with Splice Clip

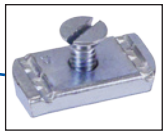
Finish: Electro-Galvanized.
Includes splice clip only on E510-2.
Hardware not included.

Catalog No.	For Use With	UL LISTED	Wt./100 Pcs.
E-510-1	H-122	-	115
E-510-2	H-132	UL	91
E-510-2	H-134	-	91
E-510-3	H-142	-	85
E-510-4	H-152	-	76
E-510-5	H-164	-	71

(4) 1/4-20 5/8" Long Flat Head Machine Screw and Stut Nuts shown not supplied.

E-510 - 4-Hole Splice Clevis – Installation

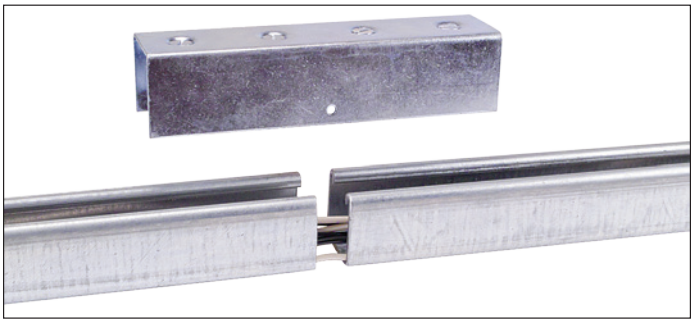


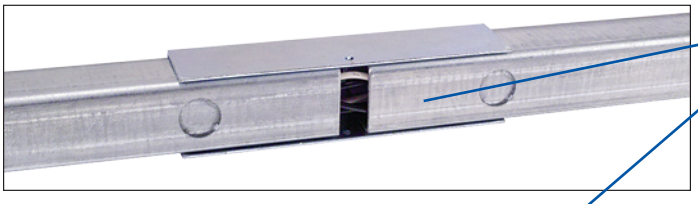


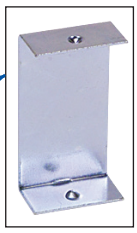
Grip-lock nut and flat head machine screws are used to fasten the connector plate to channel.

The nut is placed as shown (parallel to the channel) and inserted.

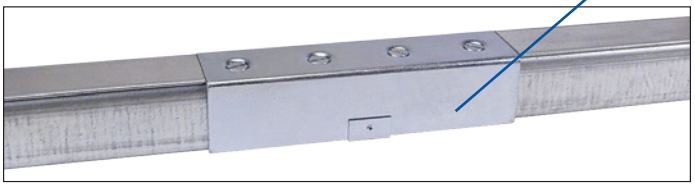
When the screw is tightened the nut will rotate 90° and the teeth in the nut will lock onto the channel to ensure a tight connection.







NOTE: Be sure that the gap between the two pieces of channel is no more than 1/16" (.0625)
The splice clip snaps onto the clevis to cover any space between the channels and ensure that you have a protected race way.

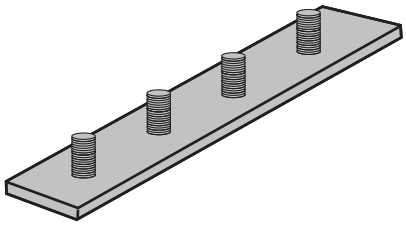


Closure strips are added to the channel to protect the wires and create a wire raceway.

E-511
Stud Plate

Wt. 40#/C

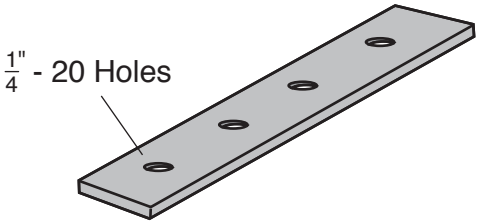
Finish: Electro-Galvanized.
Nuts not included.



E-512
Tapped Plate

Wt. 24#/C

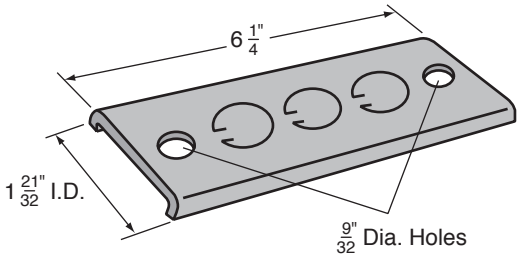
Finish: Electro-Galvanized.
Bolts not included.

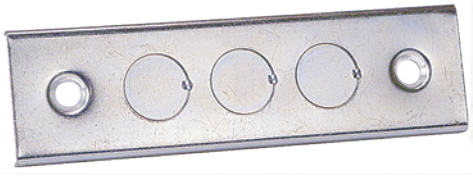


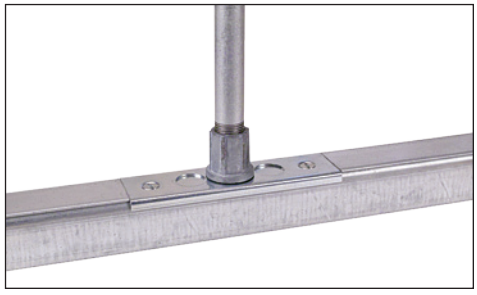
E-513
3 Knock-Out Plate

Wt. 40#/C

KO's for 1/2" conduit
Finish:
Electro-Galvanized







CC-1110

Cable Clamp

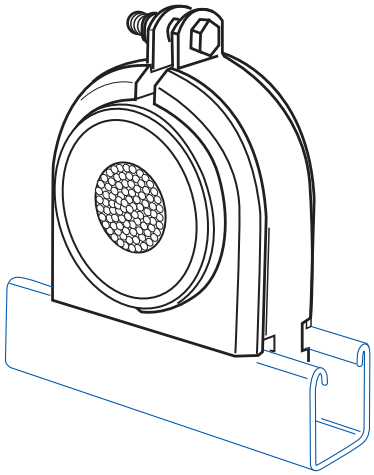
A unique new clamp designed to replace the porcelain and maple clamps, for the support of electrical cable.

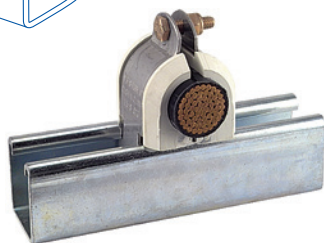
Complete assembly consists of a thermoplastic elastomer cushion with a plated or stainless clamp and silicon bronze hardware.

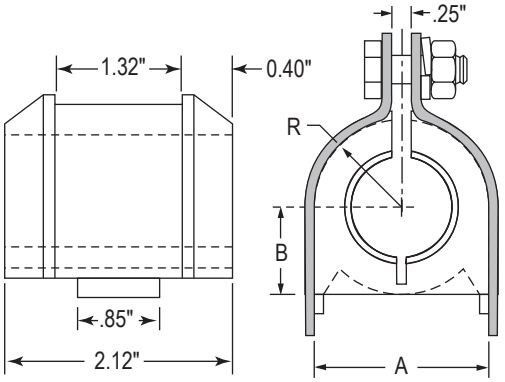
Cushion is a one-piece construction with tapered flange to protect the cable.

Cushion material is produced from a non-breakable, flame-retardant, U.V. resistant material, with a dielectric strength of 640 volts per mil.

Note: Available in stainless steel.







The hinged cushion allows easy installation of the wire, but the components will not get separated and lost or broken.

Catalog No.	Size	A	B	R	Total Height of Assembly	Wt./100 Pcs.	Pcs./ Carton
PLATED STEEL SILICON BRONZE HARDWARE							
CC1110-3/8	3/8"	1.12	.56	.56	1.82	25	10
CC1110-1/2	1/2"	1.12	.56	.56	1.82	25	10
CC1110-5/8	5/8"	1.12	.56	.56	1.82	25	10
CC1110-3/4	3/4"	1.62	.81	.81	2.34	37	10
CC1110-7/8	7/8"	1.62	.81	.81	2.34	37	10
CC1110-1	1"	1.62	.81	.81	2.34	37	10
CC1110-1 1/8	1 1/8"	1.62	.81	.81	2.34	37	10
CC1110-1 1/4	1 1/4"	2.12	1.06	1.06	2.86	58	10
CC1110-1 3/8	1 3/8"	2.12	1.06	1.06	2.86	58	10
CC1110-1 1/2	1 1/2"	2.12	1.06	1.06	2.86	58	10
CC1110-1 5/8	1 5/8"	2.12	1.06	1.06	2.86	58	10
CC1110-1 3/4	1 3/4"	2.62	1.31	1.31	3.50	76	10
CC1110-1 7/8	1 7/8"	2.62	1.31	1.31	3.50	76	10
CC1110-2	2"	2.62	1.31	1.31	3.50	76	10
CC1110-2 1/8	2 1/8"	2.62	1.31	1.31	3.50	76	5
CC1110-2 1/4	2 1/4"	3.12	1.56	1.56	4.05	90	5
CC1110-2 3/8	2 3/8"	3.12	1.56	1.56	4.05	90	5

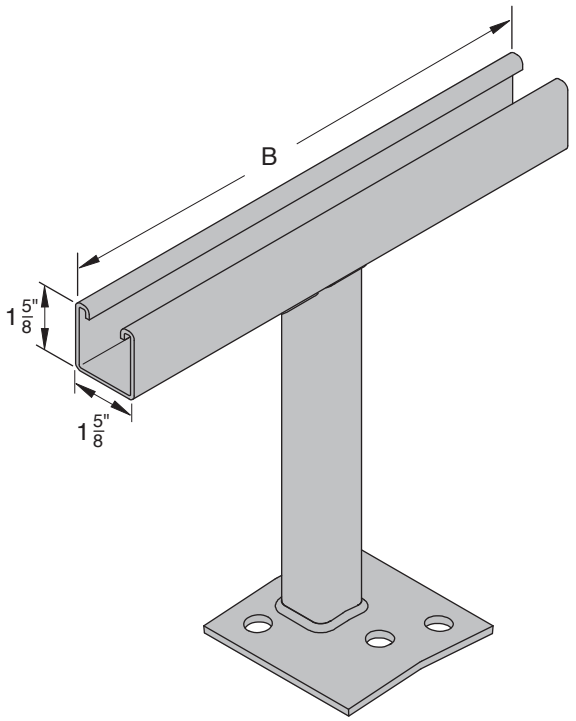
Catalog No.	Size	A	B	R	Total Height of Assembly	Wt./100 Pcs.	Pcs./ Carton
PLATED STEEL SILICON BRONZE HARDWARE							
CC1110-2 1/2	2 1/2"	3.12	1.56	1.56	4.05	90	5
CC1110-2 5/8	2 5/8"	3.12	1.56	1.56	4.05	90	5
CC1110-2 3/4	2 3/4"	3.62	1.81	1.81	4.75	109	5
CC1110-2 7/8	2 7/8"	3.62	1.81	1.81	4.75	109	5
CC1110-3	3"	3.62	1.81	1.81	4.75	109	5
CC1110-3 1/8	3 1/8"	3.62	1.81	1.81	4.75	109	5
CC1110-3 1/4	3 1/4"	4.12	2.06	2.06	5.125	130	5
CC1110-3 3/8	3 3/8"	4.12	2.06	2.06	5.125	130	5
CC1110-3 1/2	3 1/2"	4.12	2.06	2.06	5.125	130	5
CC1110-3 5/8	3 5/8"	4.12	2.06	2.06	5.125	130	5
CC1110-3 3/4	3 3/4"	4.62	2.31	2.31	5.54	160	5
CC1110-3 7/8	3 7/8"	4.62	2.31	2.31	5.54	160	5
CC1110-4	4"	4.62	2.31	2.31	5.54	160	5
CC1110-4 1/8	4 1/8"	4.62	2.31	2.31	5.54	160	5
CC1110-4 1/4	4 1/4"	5.00	2.50	2.50	5.92	160	5
CC1110-4 3/8	4 3/8"	5.00	2.50	2.50	5.92	160	5
CC1110-4 1/2	4 1/2"	5.00	2.50	2.50	5.92	160	5

PS-7000 Series

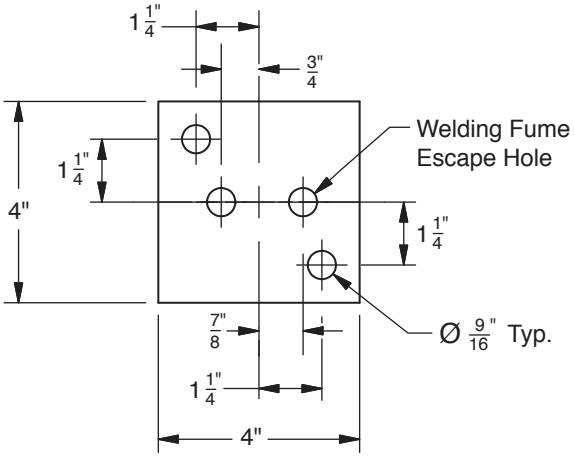
Pole Separator

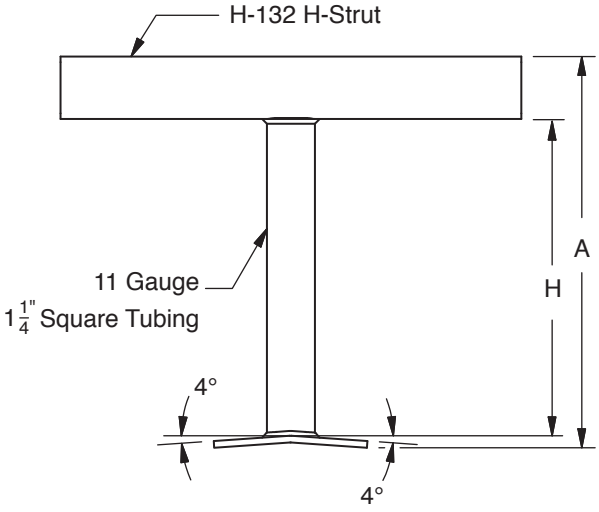
1⅝" X 1⅝" x 12 Gauge Channel
11 Gauge Pole
wt./100 Pcs. - 365#

Pole Separators are manufactured from prime domestic structural hot rolled steel sheet conforming to ASTM A-1101.They have an electro-galvanized finish conforming to ASTM B-633.

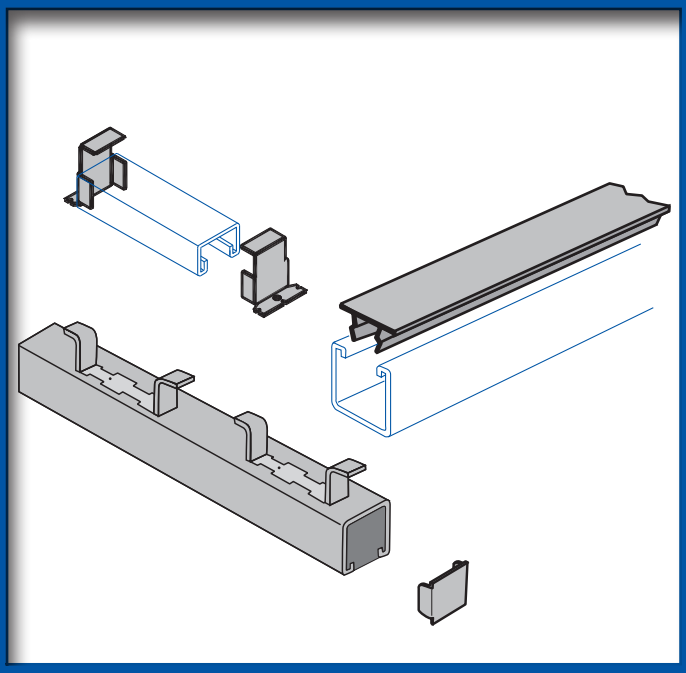


Flat Pattern Base





Catalog No.	A	B	H	Wt./ 100 Pcs.
PS-7000-1 EG	10"	12"	8.125"	3.96
PS-7000-2 EG	12"	12"	10.125"	4.23
PS-7000-3 EG	10"	16"	8.125"	4.53



SPECIFICATIONS

GENERAL

H-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 (see illustration on next page). Nails may be cut off after removal of the forms.

MATERIAL

H-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

H-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

H-STRUT Concrete Inserts are produced and stocked in 10 and 20 foot lengths. Other lengths are available upon request.

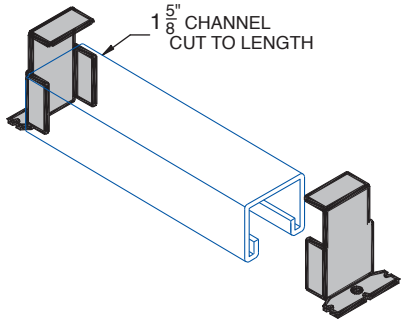
ORDERING

Specify catalog number, length or size where required and finish when necessary.

H-132-IN

Concrete Insert

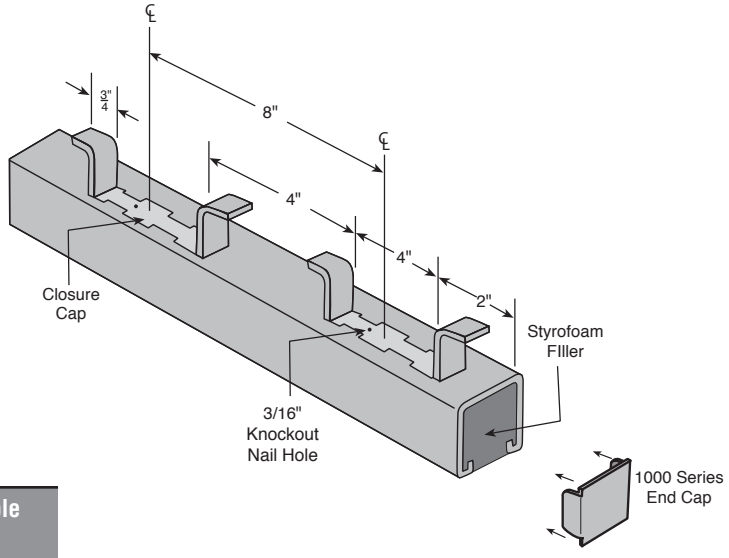
CHANNEL: 1⅝" x 1⅝" x 12 Gauge
Stocked in Pre-Galvanized & Plain
in 10' & 20' lengths.



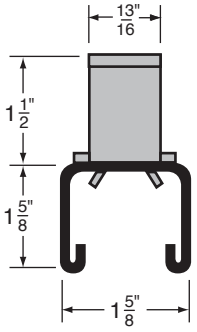
H-Strut Concrete Inserts are supplied with the 1000 series end cap and a Styrofoam strip or Plastic Closure (C-900P) inserted into the channel to prevent any concrete seepage.

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.
- H-STRUT concrete inserts are supplied with either the 1000 or 1001 series end cap and either a styrofoam filler or plastic strip (C-900P) 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.



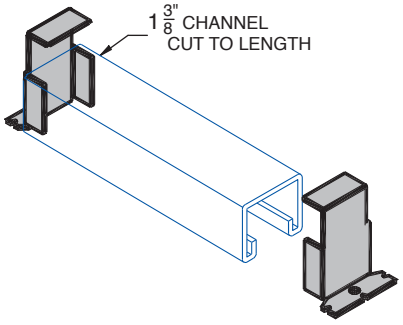
Catalog No.	Length/ Inch	Wt./100 Pcs.	Max. Allowable Load Per 12" Section
H-132-INSS	12	194	2000
H-132-INSS	18	291	2000
H-132-INSS	24	388	2000
H-132-INSS	30	485	2000
H-132-INSS	36	582	2000
H-132-INSS	48	776	2000
H-132-INSS	60	970	2000
H-132-INSS	72	1164	2000
H-132-INSS	84	1358	2000
H-132-INSS	96	1552	2000
H-132-INSS	108	1746	2000
H-132-INSS	120	1940	2000
H-132-INSS	240	3880	2000



H-142-IN

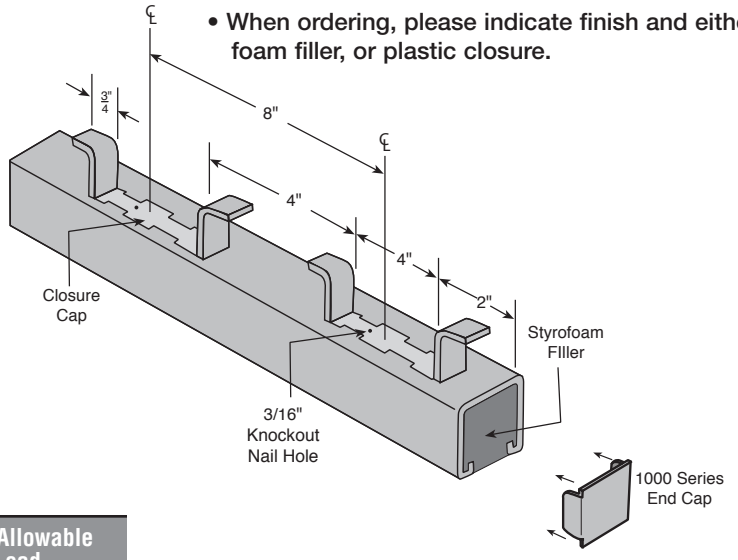
Concrete Insert

CHANNEL: 1⅜" x 1⅝" x 12 Gauge
Stocked in Pre-Galvanized & Plain
in 10' & 20' lengths.
*other lengths available

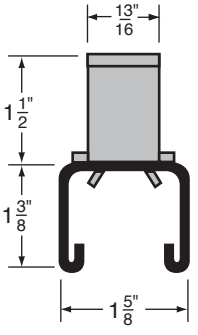


FEATURES

- 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.
- H-STRUT concrete inserts are supplied with either the 1000 or 1001 series end cap and either a styrofoam filler or plastic strip (C-900P) 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.



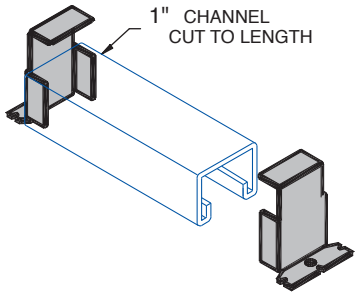
Catalog No.	Length in Inches	Wt./100 Pcs.	Max. Allowable Load
H-142-IN	3	87	500 Lbs.
H-142-IN	4	103	800 Lbs.
H-142-IN	6	134	1000 Lbs.
H-142-IN	8	206	1200 Lbs.
H-142-IN	12	188	No More Than 1800 Lbs. Per 12" Section
H-142-IN	18	282	
H-142-IN	24	376	
H-142-IN	30	470	
H-142-IN	36	564	
H-142-IN	48	752	
H-142-IN	60	940	
H-142-IN	72	1128	
H-142-IN	84	1316	
H-142-IN	96	1504	
H-142-IN	108	1692	
H-142-IN	120	1880	
H-142-IN	240	3760	



H-152-IN

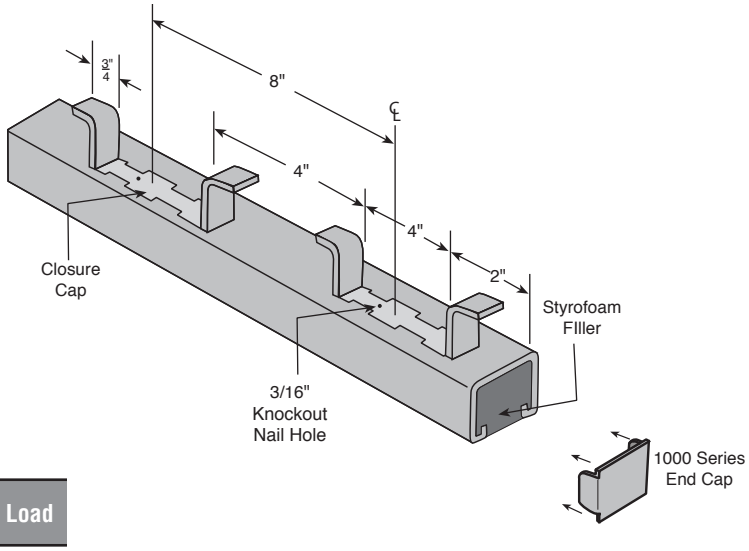
Concrete Insert

CHANNEL: 1" x 1⅝" x 12 Gauge
Stocked in Pre-Galvanized & Plain
in 10' & 20" lengths.
*other lengths available

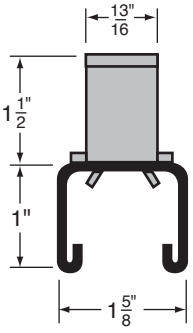


FEATURES

- 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.
- H-STRUT concrete inserts are supplied with either the 1000 or 1001 series end cap and either a styrofoam filler or plastic strip (C-900P) 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.



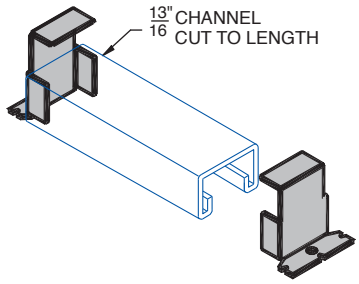
Catalog No.	Length in Inches	Wt./100 Pcs.	Max. Allowable Load
H-152-IN	3	41	450 Lbs.
H-152-IN	4	54	600 Lbs.
H-152-IN	6	81	850 Lbs.
H-152-IN	8	108	1100 Lbs.
H-152-IN	12	162	No More Than 1700 Lbs. Per 12" Section
H-152-IN	18	243	
H-152-IN	24	324	
H-152-IN	30	405	
H-152-IN	36	486	
H-152-IN	48	648	
H-152-IN	60	810	
H-152-IN	72	972	
H-152-IN	84	1134	
H-152-IN	96	1296	
H-152-IN	108	1458	
H-152-IN	120	1620	
H-152-IN	240	3240	



H-164-IN

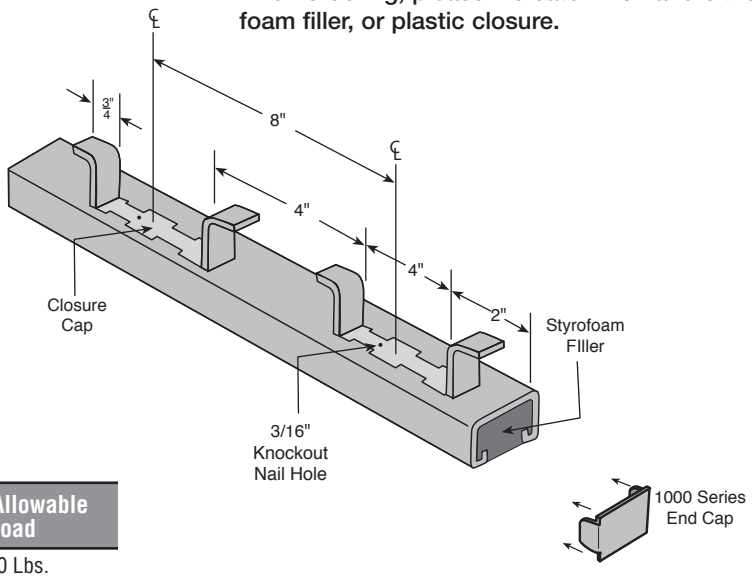
Concrete Insert

CHANNEL: 13/16" x 1 5/8" x 14 Gauge
Stocked in Pre-Galvanized & Plain
in 10' & 20' lengths.
*other lengths available

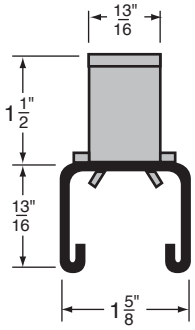


FEATURES

- 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.
- H-STRUT concrete inserts are supplied with either the 1000 or 1001 series end cap and either a styrofoam filler or plastic strip (C-900P) 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.



Catalog No.	Length in Inches	Wt./100 Pcs.	Max. Allowable Load
H-164-IN	3	30	450 Lbs.
H-164-IN	4	40	600 Lbs.
H-164-IN	6	60	850 Lbs.
H-164-IN	8	80	1100 Lbs.
H-164-IN	12	121	No More Than 1700 Lbs. Per 12" Section
H-164-IN	18	181	
H-164-IN	24	242	
H-164-IN	30	302	
H-164-IN	36	363	
H-164-IN	48	484	
H-164-IN	60	605	
H-164-IN	72	726	
H-164-IN	84	847	
H-164-IN	96	968	
H-164-IN	108	1089	
H-164-IN	120	1210	
H-164-IN	240	2420	

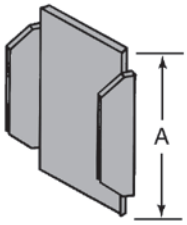


1000 Series

End Cap

The 1000 Series End Cap is supplied on all Concrete Inserts longer than 12". End Caps may be ordered separately.

FINISH: Electro-Galvanized



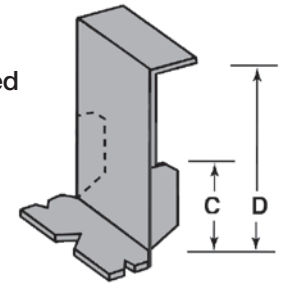
Catalog No.	Use With H-STRUT	A	Wt./100 Pcs.
1000-EC-1	H-132	1 5/8"	7
1000-EC-2	H-142	1 3/8"	6
1000-EC-3	H-152	1"	4
1000-EC-5	H-164	1 13/16"	4
1000-EC-6	H-122	2 3/8"	16
1000-EC-7	H-112	3 7/32"	19
1000-EC-8	H-134	1 5/8"	10

1001 Series

End Cap

The 1001 Series-Anchor 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.

FINISH: Electro-Galvanized

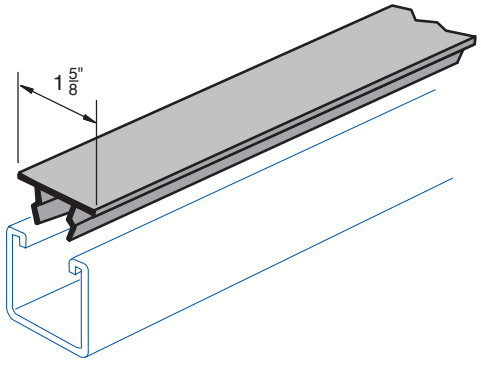


Catalog No.	Use With H-STRUT	C	D	Wt./100 Pcs.
1001-EC-1	H-132	1.415	3 1/8"	22
1001-EC-2	H-142	1.165	2 7/8"	20
1001-EC-3	H-152	.790	2 1/2"	18

C-900P

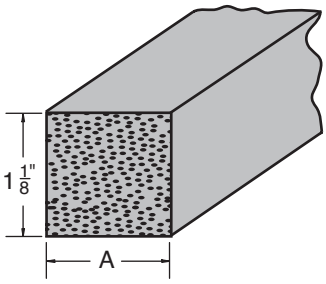
Plastic Closure Strip

Wt. .5 oz./ft.



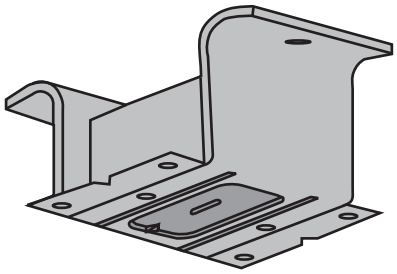
MATERIAL: High impact polystyrene plastic. Stocked in black, white and green 10' lengths. Use with all 1⅝" channel and inserts.

Styrofoam Filler



Catalog No.	A
H-142-IN	1 1/4"
H-152-IN	7/8"
H-164-IN	3/4"

H-1200
Spot Insert



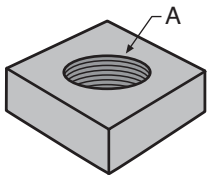
Designed to be used with N1200 spot insert nuts, a 7/8" x 1 5/8" knock-out is removed after concrete pour. The spot insert nut is the slot, and then the rod screwed into the nut. The nut is secured in place by turning the rod. Lateral adjustment is made by loosening the nut and relocating.

FINISH: Electro-Galvanized

N-1200
Square Nut for Spot Insert

Nut must be placed in the spot insert before the rod can be screwed into the nut.

FINISH: Electro-Galvanized



Catalog No.	A	Wt./100 Pcs.
N-1200-1/4	1/4-20	12
N-1200-3/8	3/8-16	16
N-1200-1/2	1/2-13	20
N-1200-5/8	5/8-11	19
N-1200-3/4	3/4-10	16
N-1200-7/8	7/8-9	15

Notes

STAINLESS STEEL CHANNELS

SPECIFICATIONS

GENERAL

H-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.

MATERIAL - CHANNELS

H-STRUT stainless steel channels are produced from steel covering the following specifications:

ASTM A-240, type 304, type 316, Heat Resisting Chromium Nickel Stainless Steel Plate, Sheet Strip.

ACCESSORIES

ASTM A-240, type 304, type 316 Stainless Steel

LENGTH

H-STRUT Channels are produced and stocked in 10 and 20 foot lengths with a tolerance of ±⅛". Other lengths are available upon request.

LOADING DATA

When calculating load at center of span, multiply load from table by 0.5 and deflection by 0.8.

ORDERING

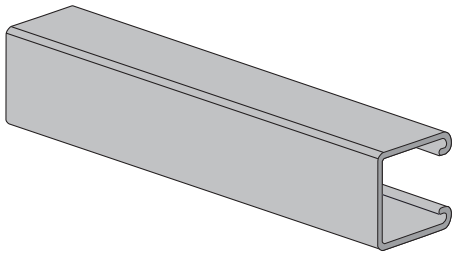
Specify catalog number, finish and length.

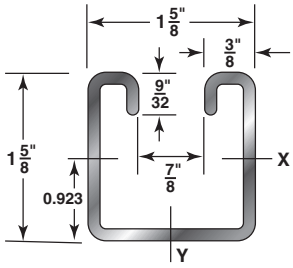
*See page 40 for Fabrication Data ordering.
*See page 41 for other Welding Combinations.

H-132-SS

1⅝" X 1⅝"
12 Gauge Channel
wt./100 ft. - 194#

Stocked in type 304 and 316 grade Stainless Steel, in 10 & 20 ft. lengths.





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in⁴	S in³	r in.	I in⁴	S in³	r in.
H-132	1.94	0.552	0.188	0.208	0.584	0.236	0.290	0.654

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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

NR = Not Recommended

** 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.

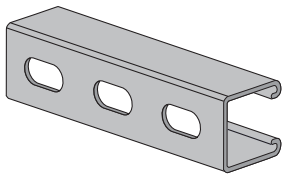
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

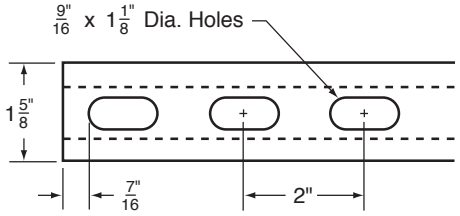
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%, OS3 by 90%,
RS (9/16 holes) by 88%, RS-MOD (¾ holes) by 85%,
RS3 (9/16 holes) by 88%, KO by 82%.

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

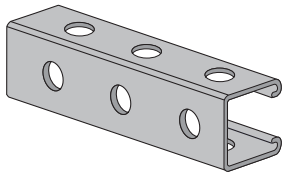
H-132-SS-OS

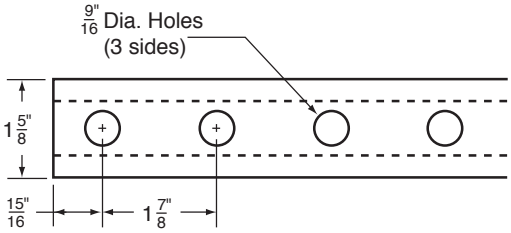




Wt./100 Ft.: 189

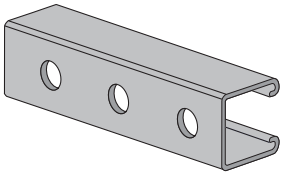
H-132-SS-RS3

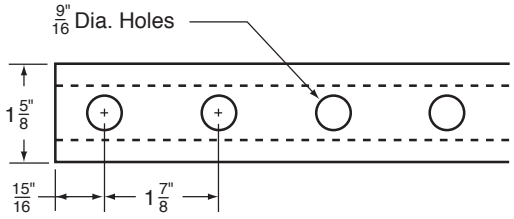




Wt./100 Ft.: 179

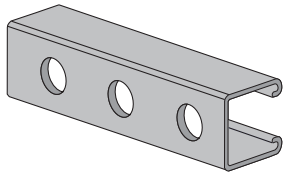
H-132-SS-RS

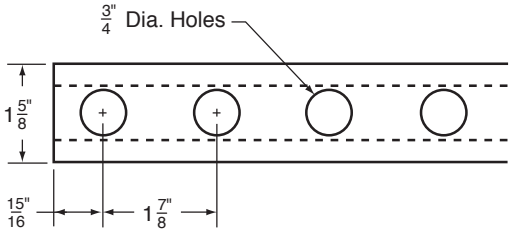




Wt./100 Ft.: 189

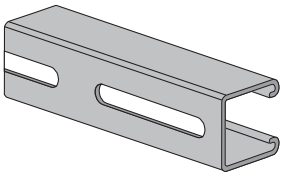
H-132-SS-RS-MOD

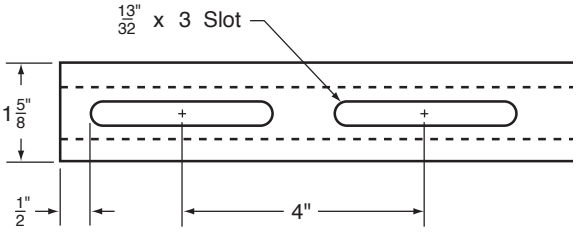




Wt./100 Ft.: 187

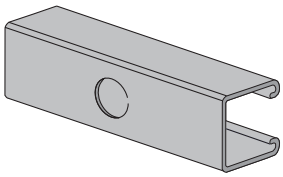
H-132-SS-OS3

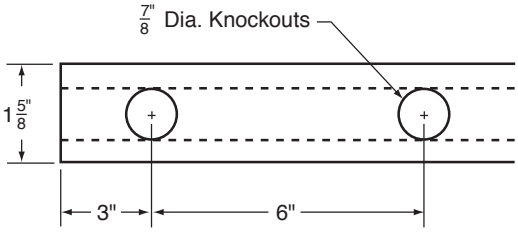




Wt./100 Ft.: 179

H-132-SS-KO



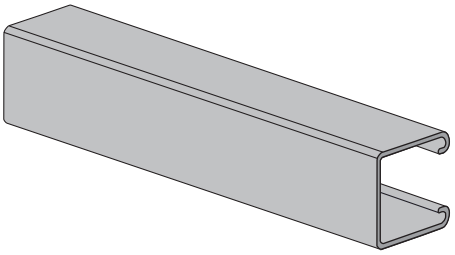


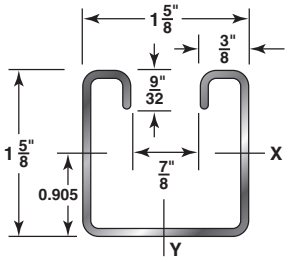
Wt./100 Ft.: 194

H-134-SS

1⅝" X 1⅝"
14 Gauge Channel
wt./100 ft. - 145#

Stocked in type 304 and 316 grade Stainless Steel, in 10 & 20 ft. lengths.





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-134	1.45	0.416	0.149	0.166	0.598	0.183	0.225	0.663

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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

NR = Not Recommended

** 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.

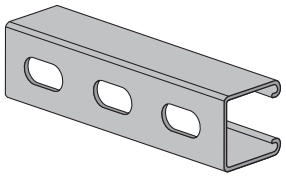
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

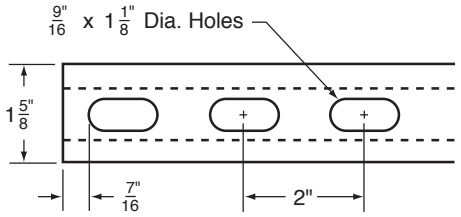
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%, OS3 by 90%,
RS (9/16 holes) by 88%, RS-MOD (¾ holes) by 85%,
KO by 82%.

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

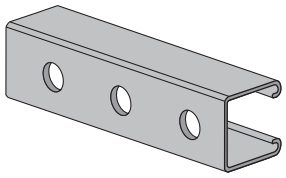
H-134-SS-OS

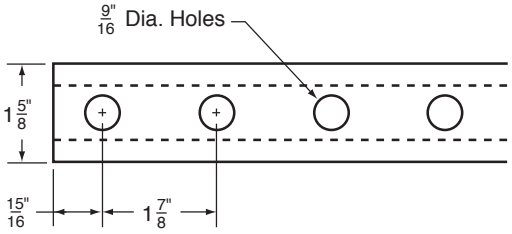




Wt./100 Ft.: 140

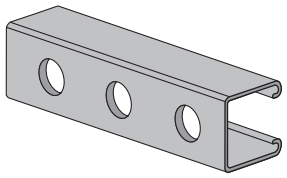
H-134-SS-RS

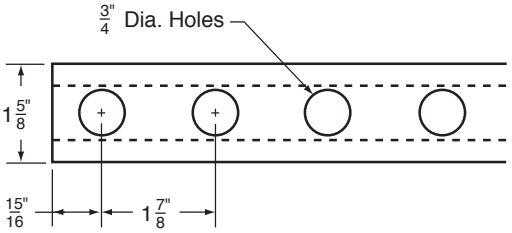




Wt./100 Ft.: 140

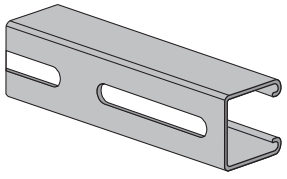
H-134-SS-RS-MOD

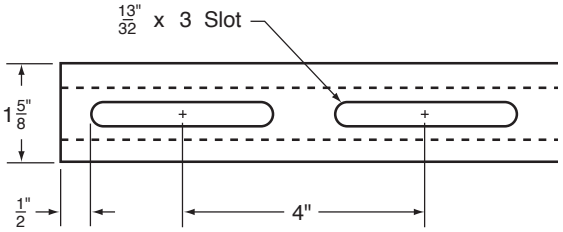




Wt./100 Ft.: 139

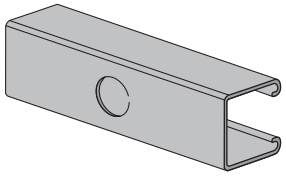
H-134-SS-OS3

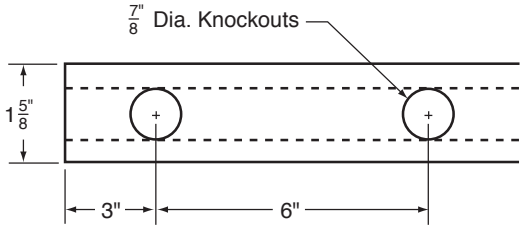




Wt./100 Ft.: 130

H-134-SS-KO



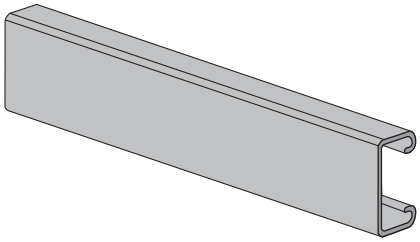


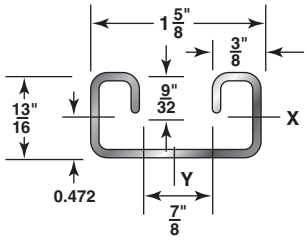
Wt./100 Ft.: 145

H-164-SS

$^{13}/_{16}$" X $1^{5}/_{8}$"
14 Gauge Channel
wt./100 ft. - 103#

Stocked in type 304 and 316 grade Stainless Steel, in 10 & 20 ft. lengths.





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-164	1.03	0.294	0.027	0.058	0.303	0.110	0.135	0.612

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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

NR = Not Recommended

** 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.

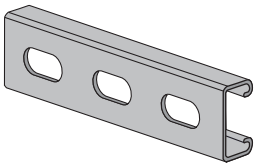
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.

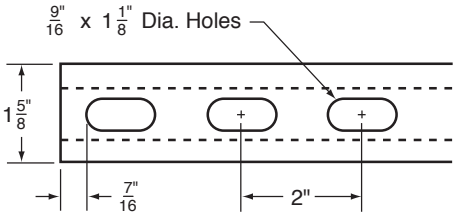
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:

OS by 88%, OS3 by 90%,
RS ($^{9}/_{16}$ holes) by 88%, RS-MOD ($^{3}/_{4}$ holes) by 85%,
KO by 82%.

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

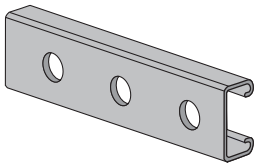
H-164-SS-OS

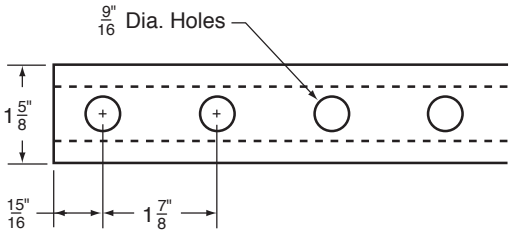




Wt./100 Ft.: 98

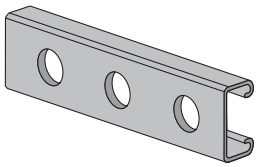
H-164-SS-RS

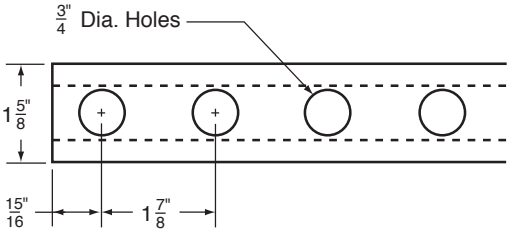




Wt./100 Ft.: 98

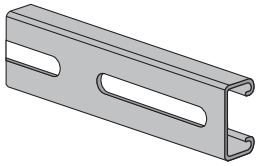
H-164-SS-RS-MOD

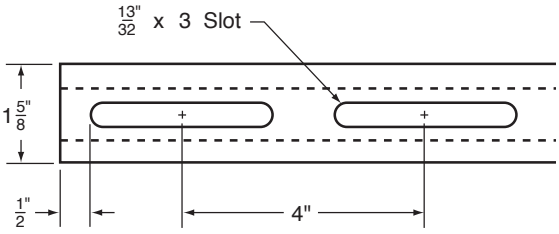




Wt./100 Ft.: 97

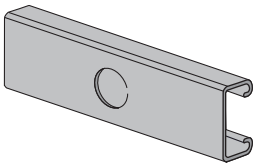
H-164-SS-OS3

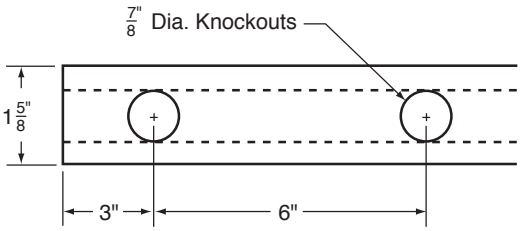




Wt./100 Ft.: 94

H-164-SS-KO





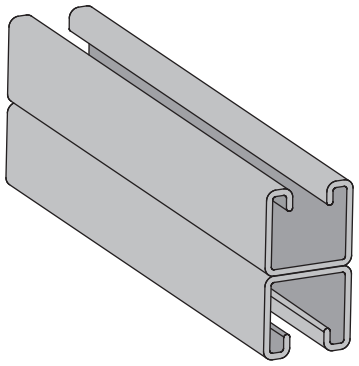
Wt./100 Ft.: 103

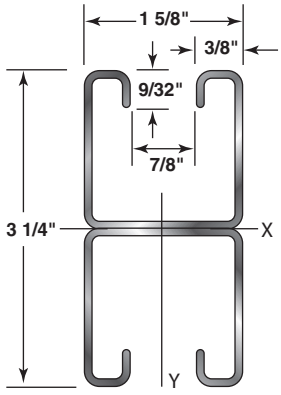
WELDED COMBINATION

H-132-SS-A

3¼" X 1⅝"
12 Gauge Back-to-Back
wt./100 ft. - 388#

Stocked in type 304 and 316 grade Stainless Steel, in 10 & 20 ft. lengths.





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in⁴	S in³	r in.	I in⁴	S in³	r in.
H-132-A	3.88	1.104	0.947	0.583	0.926	0.473	0.582	0.655

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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	**	**	**	**	**

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:

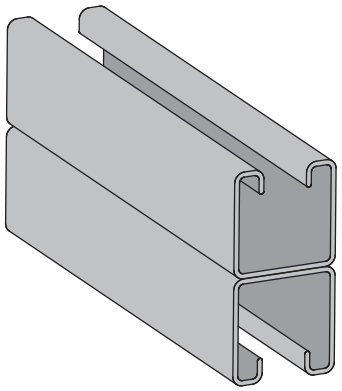
OS by 88%,
RS (9/16 holes) by 88%,
RS3 (9/16 holes) by 88%,
OS3 by 90%,
RS-MOD (¾ holes) by 85%,
KO by 82%

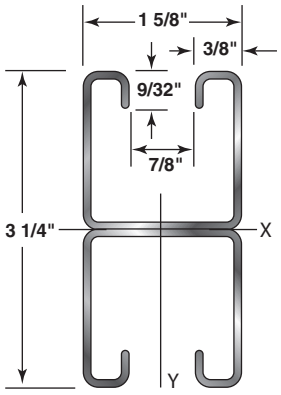
WELDED COMBINATION

H-134-SS-A

3¼" X 1⅝"
14 Gauge Back-to-Back
wt./100 ft. - 290#

Stocked in type 304 and 316 grade Stainless Steel, in 10 & 20 ft. lengths.





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-134-A	2.90	0.832	0.741	0.456	0.944	0.366	0.450	0.663

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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	**	**	**	**	**

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:

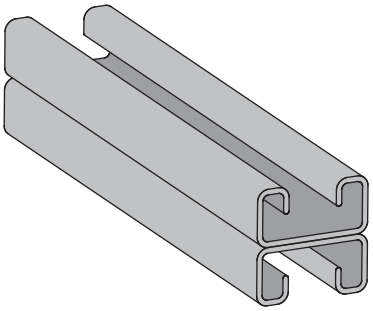
OS by 88%,
RS (9/16 holes) by 88%,
KO by 82%.
OS3 by 90%,
RS-MOD (¾ holes) by 85%,

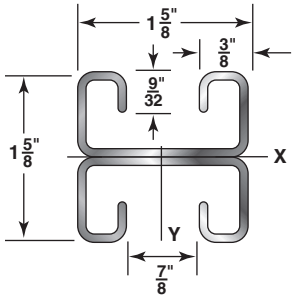
WELDED COMBINATION

H-164-SS-A

1⅝" X 1⅝"
14 Gauge Back-to-Back
wt./100 ft. - 206#

Stocked in type 304 and 316 grade Stainless Steel, in 10 & 20 ft. lengths.





SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in^4	S in^3	r in.	I in^4	S in^3	r in.
H-164-A	2.06	0.589	0.123	0.151	0.457	0.220	0.271	0.611

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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (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	20	30.9	**	**	**	**	**
192	160	4.03	40	30	20	33.0	**	**	**	**	**
216	140	5.10	30	20	20	37.1	**	**	**	**	**
240	130	6.29	30	20	10	41.2	**	**	**	**	**

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:

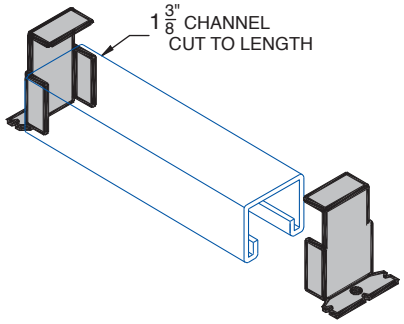
OS by 88%,
RS (9/16 holes) by 88%,
KO by 82%
OS3 by 90%,
RS-MOD (¾ holes) by 85%,

CONCRETE INSERT

H-132-INSS

Concrete Insert

Wt. 194#/C Ft.

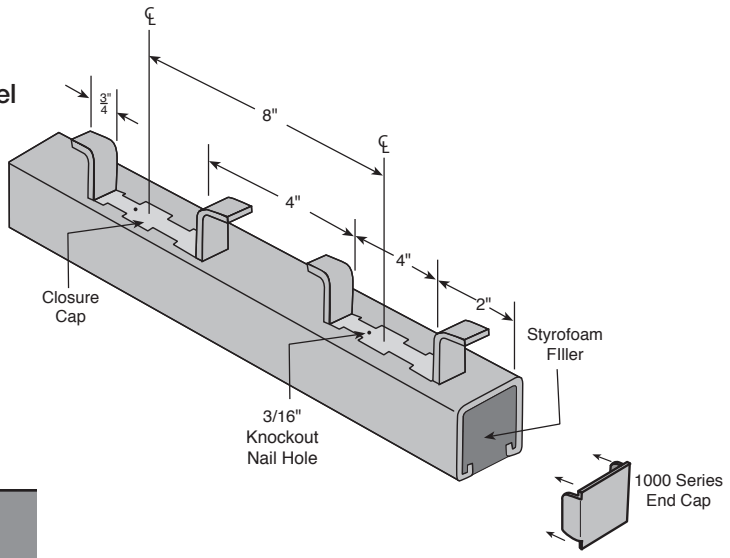


CHANNEL: 1⅝" x 1⅝" x 12 Gauge
Stocked in Pre-Galvanized & Plain in 10' & 20' lengths.
Available in 304/316 Stainless Steel conforming to ASTM A-240 in 10' and 20' lengths.

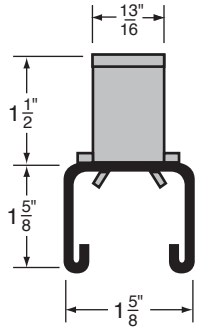
H-Strut Concrete Inserts are supplied with the 1000 series end cap and a Styrofoam strip or Plastic Closure (C-900P) inserted into the channel to prevent any concrete seepage.

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.
- H-STRUT concrete inserts are supplied with either the 1000 or 1001 series end cap and either a styrofoam filler or plastic strip (C-900P) 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.

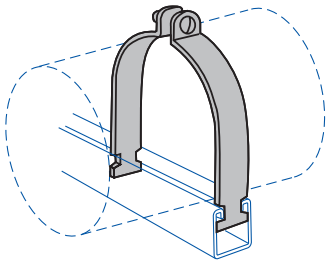


Catalog No.	Length/ Inch	Wt./100 Pcs.	Max. Allowable Load Per 12" Section
H-132-INSS	12	194	2000
H-132-INSS	18	291	2000
H-132-INSS	24	388	2000
H-132-INSS	30	485	2000
H-132-INSS	36	582	2000
H-132-INSS	48	776	2000
H-132-INSS	60	970	2000
H-132-INSS	72	1164	2000
H-132-INSS	84	1358	2000
H-132-INSS	96	1552	2000
H-132-INSS	108	1746	2000
H-132-INSS	120	1940	2000
H-132-INSS	240	3880	2000



CLAMPS, GRIP LOCK NUTS & FITTINGS

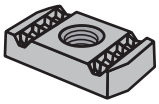
C-1102SS
Pipe Clamps



Pipe Size	O.D. Size	Steel Ga.	Wt,/100 Pcs.	Std. Pkg.
⅜"	0.675	16	12	100
½"	0.840	16	13	100
¾"	1.050	14	15	100
1"	1.315	14	18	100
1¼"	1.660	14	22	100
1½"	1.900	12	32	50
2"	2.375	12	37	50
2½"	2.875	12	42	50
3"	3.500	12	49	40
3½"	4.000	11	65	40
4"	4.500	11	69	20
5"	5.563	11	82	20
6"	6.625	10	107	Bulk
8"	8.625	10	133	Bulk

FINISH: Type 304/316 Grade Stainless Steel.
ORDERING: Specify catalog number.

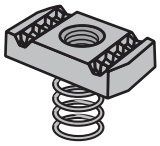
Grip Lock Nuts
without Spring



Catalog No.	Size	Thd.	Thk.	Wt./100 Pcs.	Channel
N-800SS	¼"	20	¼"	6	All Strut
N-801SS	⅜"	16	⅜"	9	
N-803SS	½"	13	½"	12	H-132, H-134

Type 304/316 Stainless Steel.

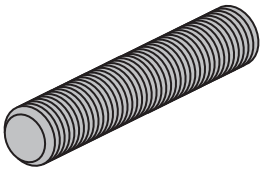
Grip Lock Nuts
Regular Spring



Catalog No.	Size	Thd.	Thk.	Wt./100 Pcs.	Channel
N-820SS	¼"	20	¼"	7	H-132, H-134
N-821SS	⅜"	16	⅜"	10	
N-823SS	½"	13	½"	13	

Type 304/316 Stainless Steel.

All-Thread Rod



Diameter	Thread	Wt/100 Ft.
¼"-SS	29	12
⅜"-SS	16	30
½"-SS	13	54

Type 304/316 Stainless Steel.

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

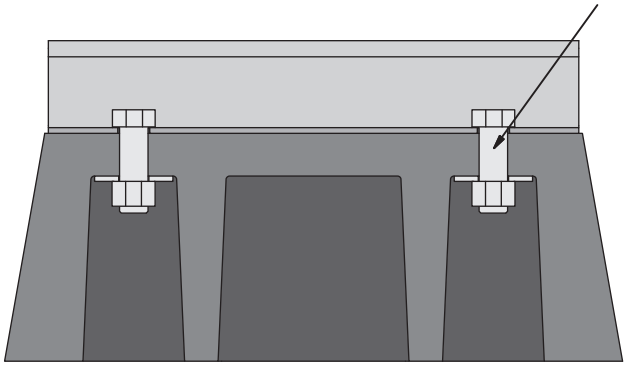
The channel for H-Block support assemblies includes a variety of options. The strut can be made in special lengths, finishes, and alloys including Aluminum, Stainless Steel both 304 & 316, PVC coated, Powder coated, Zinc Trivalent Chromium, Pre-Galvanized and Hot Dipped Galvanized.

- 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 Haydon H-BLOCK products made with 1-⅝" and higher channel is equipped with (2) ½" x 1-½" hex head cap screws, washers and nuts.

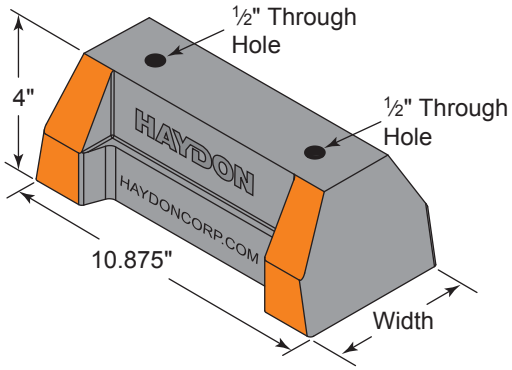


HBS-BASE SERIES

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).

Specifications – H-Block Support
Material - 100% recycled rubber,
UV resistant

Base Area
Shown = 33.1 Sq. In.
For use in bearing calculations



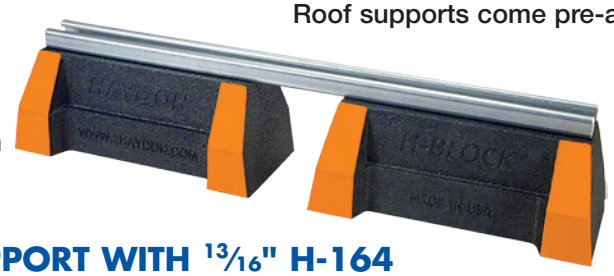
HBS-BASE SERIES

Model No.	Height	Width	Base Length	Weight (Lbs)	Uniform Load Capacity (Lbs) *
HBS-Standard-Base Only	4" (101mm)	5" (127mm)	10-⅞" (276mm)	4.80 lbs.	2,500 *

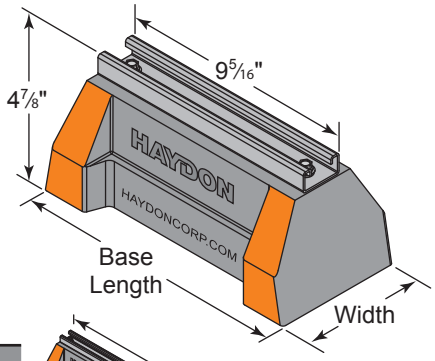
* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

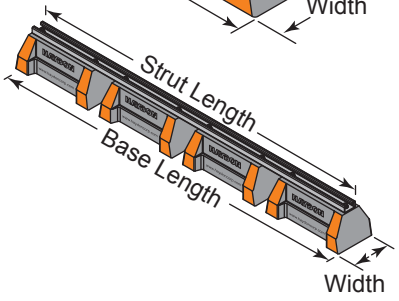
HBS SERIES

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 46⅜"
Standard strut mount pipe clamps are used to secure the pipes. (See pages 59 - 70).
The HBS Series is suitable for installation on most types of roofing material or other flat surfaces.
Roof supports come pre-assembled



HBS-24 shown with two bases



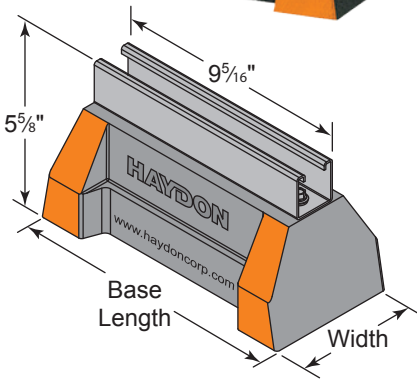


HBS-SUPPORT WITH 13/16" H-164 PRE-GALV. STEEL CHANNEL

Model No.	Height	Width	No. of Bases Required	Strut Length	Base Length	Weight (Lbs)	Uniform Load Capacity (Lbs)*
HBS-10-H-164-PG	4⅞" (124mm)	5" (127mm)	1	9.312" (237mm)	10-⅞" (276mm)	5.62	2,500 *
HBS-24-H-164-PG			2	22.375" (568mm)	24" (610mm)	11.56	5,000 *
HBS-36-H-164-PG			3	34.375" (873mm)	36" (914mm)	17.41	7,500 *
HBS-48-H-164-PG			4	46.375" (1178mm)	48" (1219mm)	23.25	10,000 *

* 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:
13/16" H-164 Channel, or
1⅝" H-132 Channel
Material - 100% recycled rubber, UV resistant



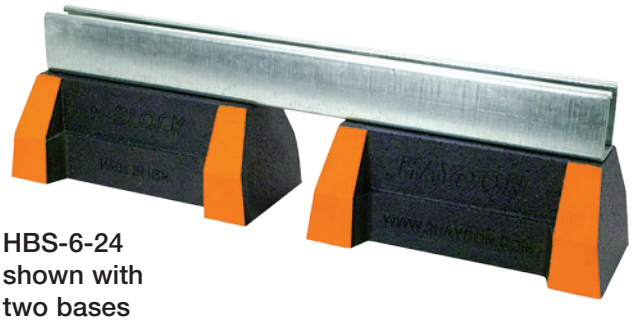
HBS-SUPPORT WITH 1⅝" H-132 PRE-GALV. STEEL CHANNEL

Model No.	Height	Width	No. of Bases Required	Strut Length	Base Length	Weight (Lbs)	Uniform Load Capacity (Lbs) *
HBS-10-H-132-PG	5-5⁄8" (143mm)	5" (127mm)	1	9.312" (237mm)	10-7⁄8" (276mm)	6.26	2,500 *
HBS-24-H-132-PG			2	22.375" (568mm)	24" (610mm)	13.10	5,000 *
HBS-36-H-132-PG			3	34.375" (873mm)	36" (914mm)	19.77	7,500 *
HBS-48-H-132-PG			4	46.375" (1178mm)	48" (1219mm)	26.44	10,000 *

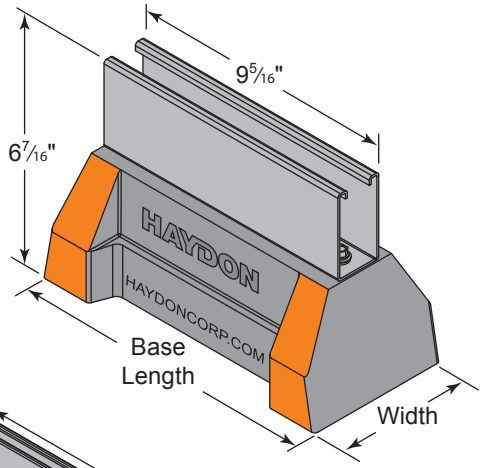
* This load is only for the capacity of the components in this assembly.
Please consult roofing manufacturer or engineer for roof load capacity

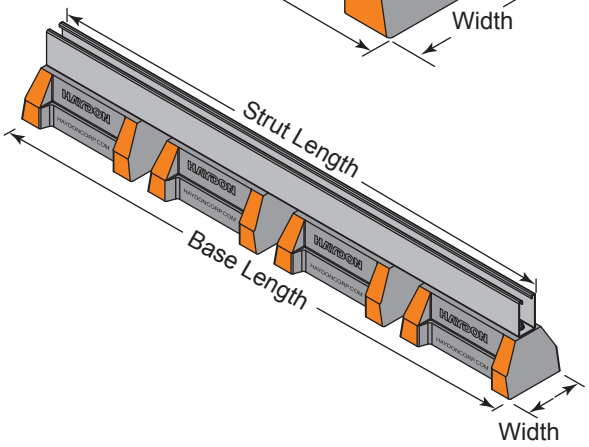
HBS-6 SERIES

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 46⅜".
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





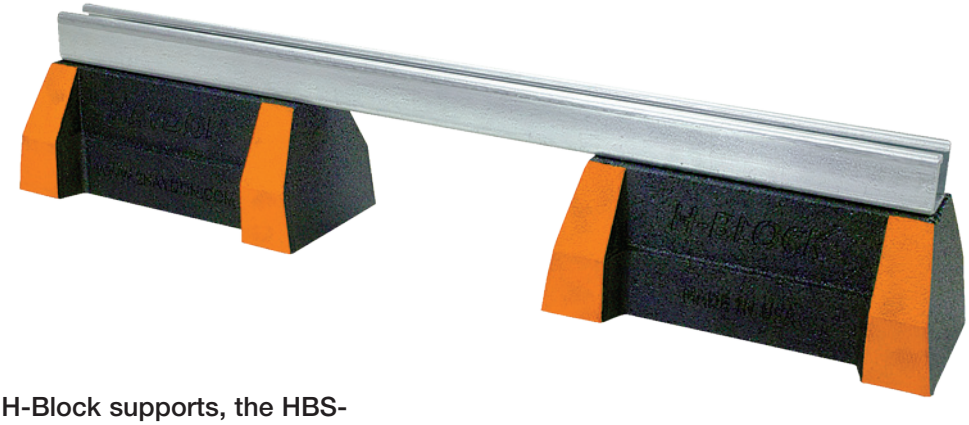
Specifications – HBS-6 Series
H-Block Support with: 2-⅞" H-122 Channel
Material - 100% recycled rubber, UV resistant

HBS SUPPORT WITH 2⅞" 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	6⅞" (165mm)	5" (127mm)	1	9.312" (237mm)	10-⅞" (276mm)	6.69	2,500 *
HBS-6-24-H-122-PG			2	22.375" (568mm)	24" (610mm)	14.13	5,000 *
HBS-6-36-H-122-PG			3	34.375" (873mm)	36" (914mm)	21.35	7,500 *
HBS-6-48-H-122-PG			4	46.375" (1178mm)	48" (1219mm)	28.58	10,000 *

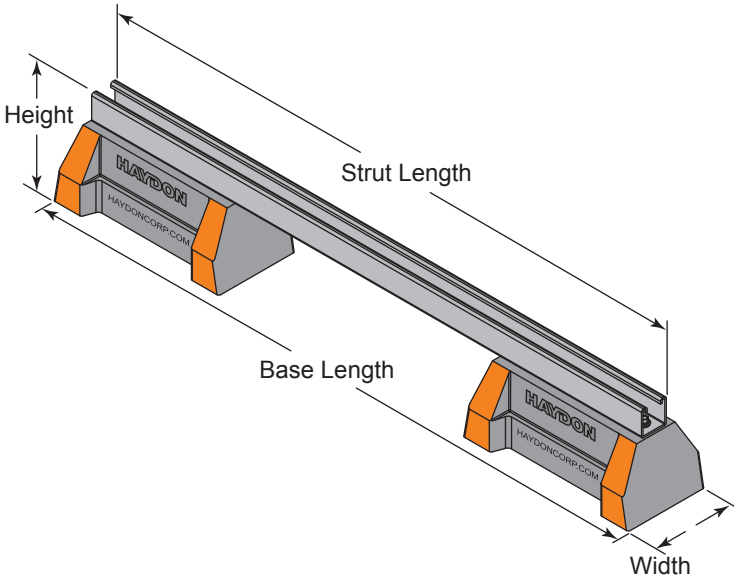
* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

HBS-CB BRIDGE SERIES



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 lenghts 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 & 1⅝" Galv. H-132 Steel Channel
Material - 100% recycled rubber,
UV resistant

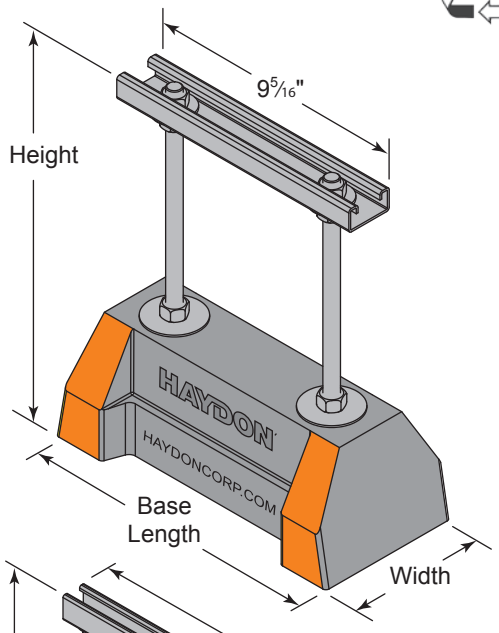


HBS-CB–BRIDGE SERIES - BRIDGE LENGTH SUPPORTS WITH 2 HBS BASES AND CHANNEL

Model No.	Height	Width	Strut Length	Base Length	Weight (Lbs)	Uniform Load Capacity (Lbs) *
HBS-CB10-28-H-132-PG	5-⅝" (143mm)	5" (127mm)	28" (711mm)	29-¾" (756mm)	13.96	1,491 *
HBS-CB10-36-H-132-PG			36" (914mm)	37-¾" (959mm)	15.18	1,160 *
HBS-CB10-42-H-132-PG			42" (1067mm)	43-¾" (1111mm)	16.09	994 *
HBS-CB10-50-H-132-PG			50" (1270mm)	51-¾" (1314mm)	17.31	835 *
HBS-CB10-60-H-132-PG			60" (1524mm)	61-¾" (1568mm)	18.84	696 *

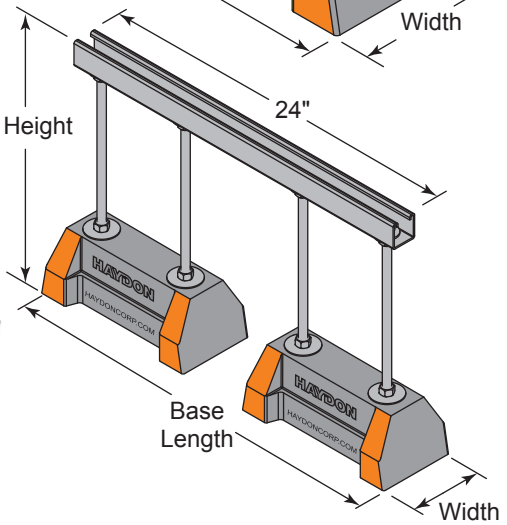
* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

HBS-CE EXTENSION SERIES



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:
13/16" H-164 Channel, or
1 5/8" H-132 Channel
Material - 100% recycled rubber, UV resistant

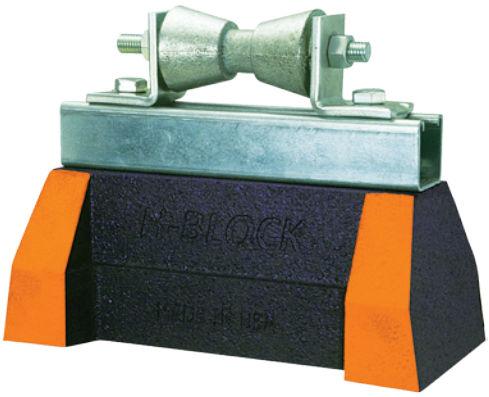


HBS-CE-EXTENSION SERIES SUPPORT WITH THREADED ROD EXTENSION AND CHANNEL

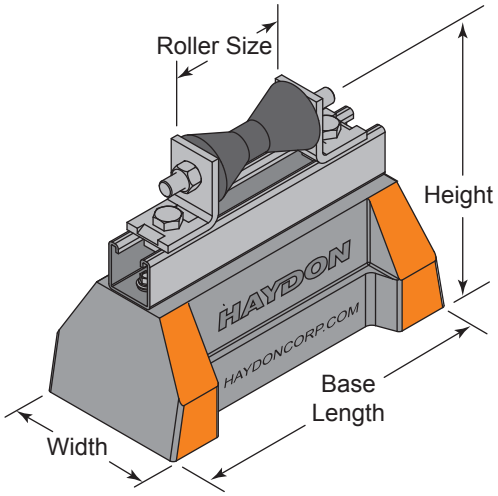
Model No.	Height	Width	Strut Length	Strut Size	Base Length	Weight (Lbs)	Uniform Load Capacity (Lbs) *
HBS-CE10-8-H-164-PG	8" (203mm)	5" (127mm)	9.312" (237mm)	13/16" H-164	10-7/8" (276mm)	6.89	1,000 *
HBS-CE10-12-H-164-PG	12" (305mm)					7.34	1,000 *
HBS-CE24-16-H-132-PG	16" (406mm)		24.000" (610mm)	1-5/8" H-132	26" (660mm)	15.85	2,000 *

* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

HBS-R ROLLER SERIES



The HBS-R Series are designed for superior support of natural gas and refrigeration pipes. The roller allows for longitudinal movements of the pipe. This support is suitable for most types of roofing material or other flat surfaces.
Roof supports come pre-assembled



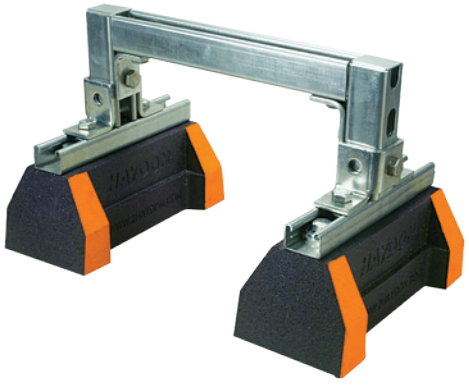
Specifications – HBS-R Series
H-Block Support with:
1⅝" H-132 Channel
Material - 100% recycled rubber, UV resistant
Pipe O.D. - 1" thru 10"

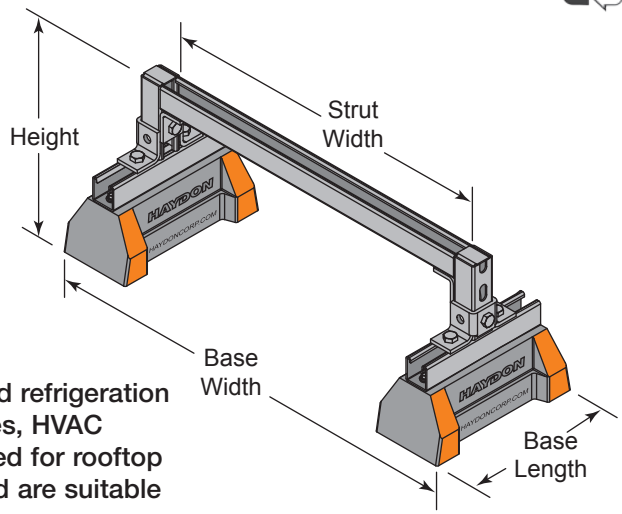
HBS-R-ROLLER-SERIES WITH 1-⅝" H-132 PRE-GALV. STEEL CHANNEL WITH ROLLERS

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" (25 to 51mm)	8" (203mm)	7" (178mm)	9.312" (237mm)	5" (127mm)	10-⅞" (276mm)	1	9.13	2,500 *
HBS-R10-2-31⁄2-H-132-PG	2" to 3-½" (51 to 89mm)						1	8.94	2,500 *
HBS-R10-4-6-H-132-PG	4" to 6" (102 to 152mm)	8-⅛" (206mm)					1	9.37	2,500 *
HBS-R24-8-10-H-132-PG	8" to 10" (203 to 1254mm)	10-5⁄16" (262mm)	8-⅝" (219mm)			24" (610mm)	2	21.26	2,500 *

* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

HBS-CES SERIES





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.

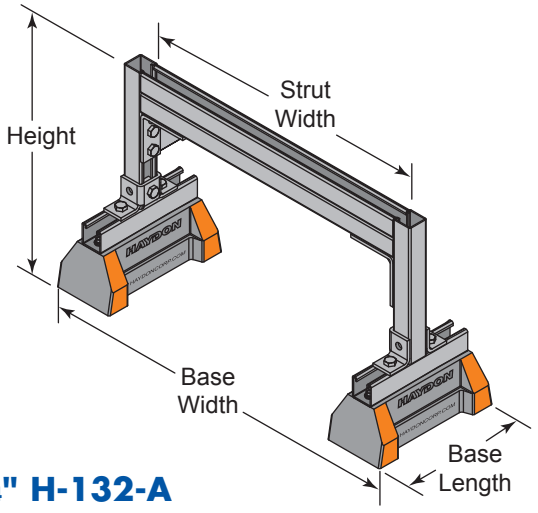
RAISED BRIDGE LENGTH WITH 2 HBS BASES 1-⅝" H-132 PRE-GALV STEEL CHANNEL

Model No.	Height	Base Width	Strut Width	Base Length	Weight (Lbs)	Uniform Load Capacity (Lbs) *
HBS-CES-10-12-H-132-PG	10" (254mm)	18-⅝" (473mm)	12" (305mm)	10-⅞" (276mm)	19.4	3,000 *
HBS-CES-10-24-H-132-PG		30-⅝" (763mm)	24" (610mm)		21.9	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

Specifications – HBS-CES Series
Two H-Block bases with
1⅝" H-132 Strut, or
3¼" H-132-A back-to-back Strut
Material - 100% recycled rubber, UV resistant

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.



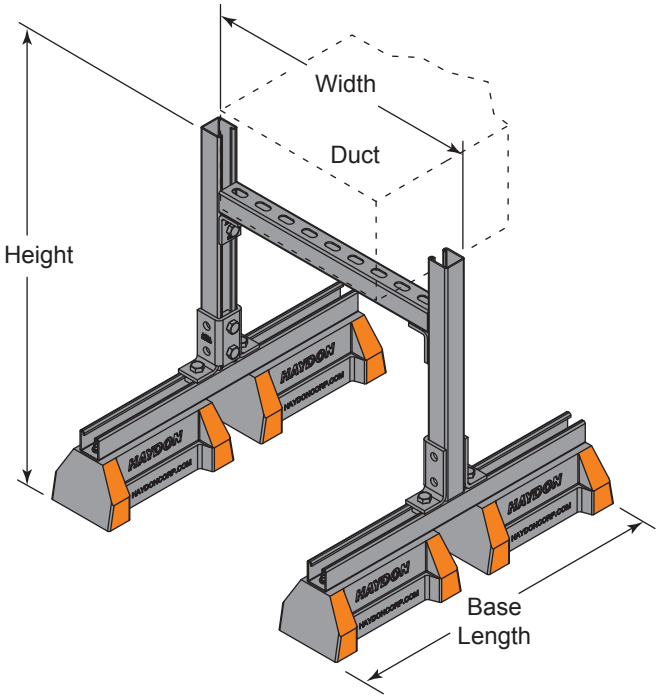
RAISED BRIDGE LENGTH WITH 2 HBS BASES 3-¼" H-132-A BACK-TO-BACK PRE-GALV STEEL CHANNEL

Model No.	Height	Base Width	Strut Width	Base Length	Weight (Lbs)	Uniform Load Capacity (Lbs) *
HBS-CES-16-24-H-132-A-PG	16" (406mm)	30-⅝" (763mm)	24" (610mm)	10-⅞" (276mm)	30.8	3,500 *
HBS-CES-16-36-H-132-A-PG		42-⅝" (1067mm)	36" (914mm)		34.3	3,250 *

* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

HBS-DSFW FIXED WIDTH DUCT SUPPORT

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 - 15⁄8" H-132-RS3 Channel

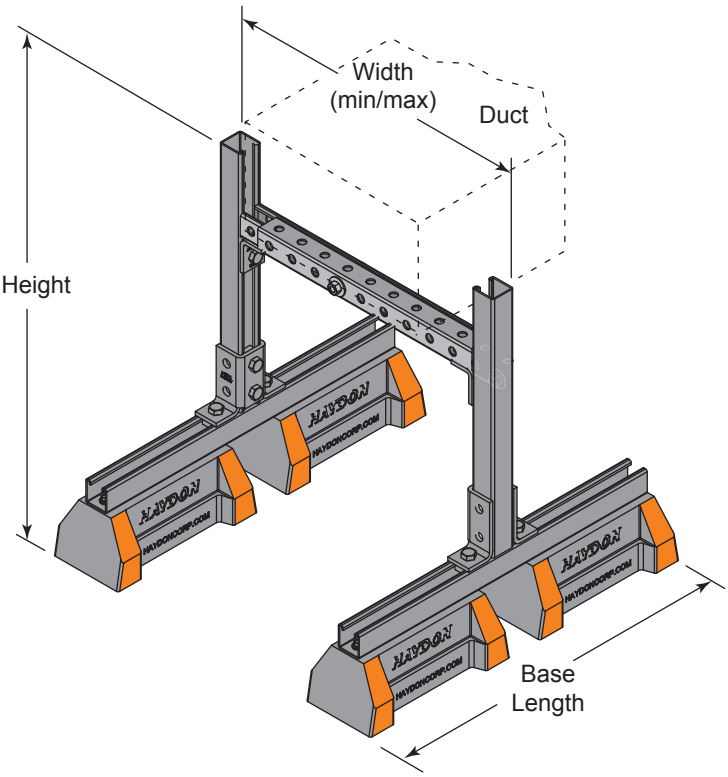
HBS-DS DUCT SUPPORT SERIES WITH FIXED WIDTH AND ADJUSTABLE HEIGHT

Model No.	Height	Width	Base Length	No. of Bases	Weight (Lbs)	Uniform Load Capacity (Lbs) *
HBS-DS2FW-23-18-H-132-PG	23" (584mm)	18" (457mm)	24" (610mm)	4	39.80	2042 *
HBS-DS2FW-23-24-H-132-PG		24" (610mm)			40.67	1531 *
HBS-DS2FW-23-36-H-132-PG		36" (914mm)			42.33	1021 *
HBS-DS2FW-23-48-H-132-PG		48" (1219mm)			43.99	766 *
HBS-DS2FW-29-18-H-132-PG	29" (737mm)	18" (457mm)	24" (610mm)	4	41.58	2042 *
HBS-DS2FW-29-24-H-132-PG		24" (610mm)			42.41	1531 *
HBS-DS2FW-29-36-H-132-PG		36" (914mm)			44.08	1021 *
HBS-DS2FW-29-48-H-132-PG		48" (1219mm)			45.74	766 *
HBS-DS2FW-41-18-H-132-PG	41" (1041mm)	18" (457mm)	24" (610mm)	4	45.07	2042 *
HBS-DS2FW-41-24-H-132-PG		24" (610mm)			45.90	1531 *
HBS-DS2FW-41-36-H-132-PG		36" (914mm)			47.56	1021 *
HBS-DS2FW-41-48-H-132-PG		48" (1219mm)			49.22	766 *
HBS-DS3FW-53-18-H-132-PG	53" (1346mm)	18" (457mm)	36" (914mm)	6	62.23	2042 *
HBS-DS3FW-53-24-H-132-PG		24" (610mm)			63.06	1531 *
HBS-DS3FW-53-36-H-132-PG		36" (914mm)			64.72	1021 *
HBS-DS3FW-53-48-H-132-PG		48" (1219mm)			66.38	766 *

* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

HBS-DSAW ADJUSTABLE DUCT SUPPORT

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 19-¼" to 103-⅝"



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

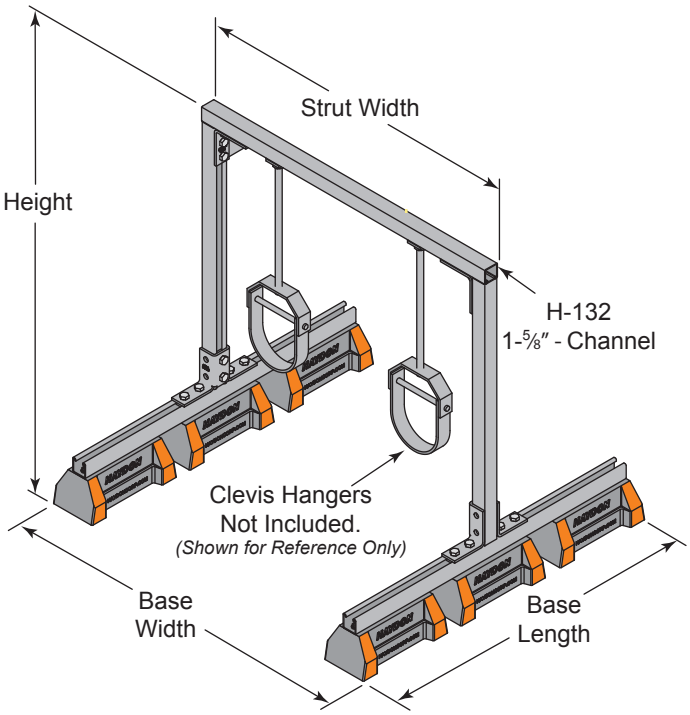
HBS-DS-DUCT SUPPORT SERIES WITH ADJUSTABLE WIDTH AND HEIGHT

Model No.	Width		Height	Base Length	No. of Bases	Weight (Lbs)	Uniform Load Capacity At Minimum Width (Lbs) *
	Minimum	Maximum					
HBS-DSAW-29-20-26-H-132-PG	19-¼" (489mm)	26-¾" (679mm)	28.813" (732mm)	10-7⁄8" (276mm)	2	29.61	1,909 *
HBS-DSAW-29-25-39-H-132-PG	24-⅞" (632mm)	39-⅞" (1013mm)				31.19	1,477 *
HBS-DS2AW-29-38-62-H-132-PG	38" (965mm)	62-⅜" (1575mm)		24" (610mm)	4	46.47	967 *
HBS-DS3AW-29-63-103-H-132-PG	62-⅜" (1584mm)	103-⅝" (2617mm)		36" (914mm)	6	66.90	589 *
HBS-DSAW-36-20-26-H-132-PG	19-¼" (489mm)	26-¾" (679mm)	36" (914mm)	10-⅞" (276mm)	2	30.61	1,909 *
HBS-DSAW-36-25-39-H-132-PG	24-⅞" (632mm)	39-⅞" (1013mm)				32.19	1,477 *
HBS-DS2AW-36-38-62-H-132-PG	38" (965mm)	62-⅜" (1575mm)		24" (610mm)	4	47.47	967 *
HBS-DS3AW-36-63-103-H-132-PG	62-⅜" (1584mm)	103-⅝" (2617mm)		36" (914mm)	6	67.90	589 *

* This load is only for the capacity of the components in this assembly. Please consult roofing manufacturer or engineer for roof load capacity

HBS-PH 36" LIGHT DUTY PIPE HANGER 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-132PG 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" (914mm)	36" (914mm)	39-3/8" (1000mm)	36" (914mm)	6	62	464 *
HBS-PH-36-48-H-132-PG		48" (1219mm)	51-3/8" (1305mm)			64	348 *
HBS-PH-36-60-H-132-PG		60" (1524mm)	63-3/8" (1610mm)			66	280 *
HBS-PH-36-72-H-132-PG		72" (1829mm)	75-3/8" (1915mm)			68	232 *

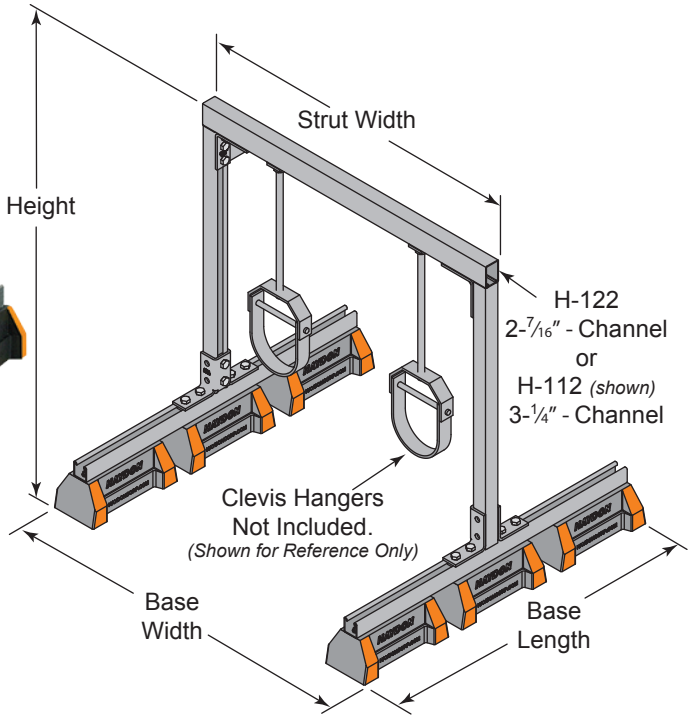
* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel.
For any other loading scenario, please consult the appropriate engineer.
Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of ½" Haydon Griplock nuts tightened to 50 ft-lbs.

HBS-PH 36" MEDIUM DUTY PIPE HANGER 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 - 2-7/16" H-122 Channel or 3-1/4" 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" (914mm)	36" (914mm)	39-3/8" (1000mm)	36" (914mm)	6	63	884 *
HBS-PH-36-48-H-122-PG		48" (1219mm)	51-3/8" (1305mm)			66	664 *
HBS-PH-36-60-H-122-PG		60" (1524mm)	63-3/8" (1610mm)			68	532 *
HBS-PH-36-72-H-122-PG		72" (1829mm)	75-3/8" (1915mm)			71	444 *

* 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 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" Haydon Griplock 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" (914mm)	36" (914mm)	39-3/8" (1000mm)	36" (914mm)	6	65	1416 *
HBS-PH-36-48-H-112-PG		48" (1219mm)	51-3/8" (1305mm)			68	1060 *
HBS-PH-36-60-H-112-PG		60" (1524mm)	63-3/8" (1610mm)			71	848 *
HBS-PH-36-72-H-112-PG		72" (1829mm)	75-3/8" (1915mm)			74	708 *

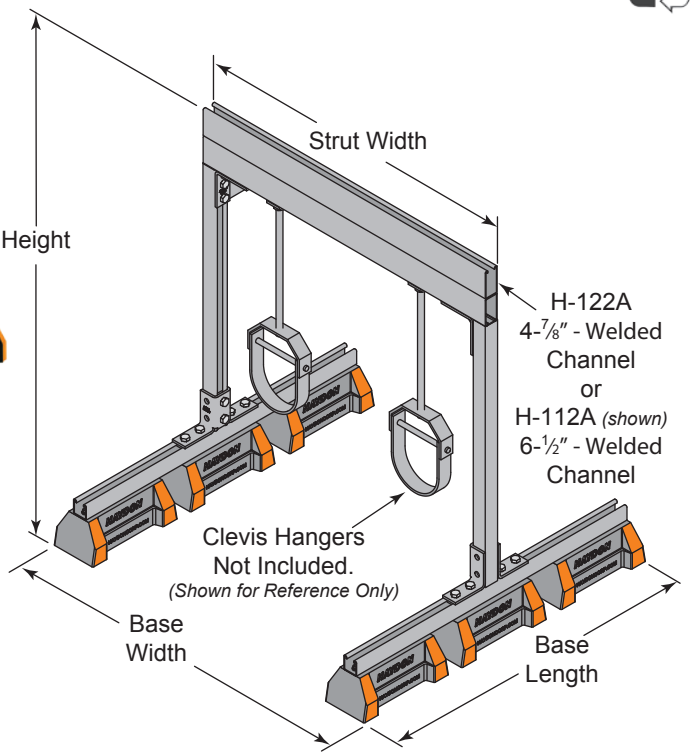
* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of ½" Haydon Griplock nuts tightened to 50 ft-lbs.

HBS-PH 36" HEAVY DUTY PIPE HANGER SUPPORT

H-112A Channel Shown

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 - 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" (914mm)	36" (914mm)	39-3/8" (1000mm)	36" (914mm)	6	70	2088 *
HBS-PH-36-48-H-122A-PG		48" (1219mm)	51-3/8" (1305mm)			75	1948 *
HBS-PH-36-60-H-122A-PG		60" (1524mm)	63-3/8" (1610mm)			80	1560 *
HBS-PH-36-72-H-122A-PG		72" (1829mm)	75-3/8" (1915mm)			84	1300 *

* 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 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" Haydon Griplock 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" (914mm)	36" (914mm)	39-3/8" (1000mm)	36" (914mm)	6	73	2756 *
HBS-PH-36-48-H-112A-PG		48" (1219mm)	51-3/8" (1305mm)			79	2756 *
HBS-PH-36-60-H-112A-PG		60" (1524mm)	63-3/8" (1610mm)			85	2580 *
HBS-PH-36-72-H-112A-PG		72" (1829mm)	75-3/8" (1915mm)			91	2148 *

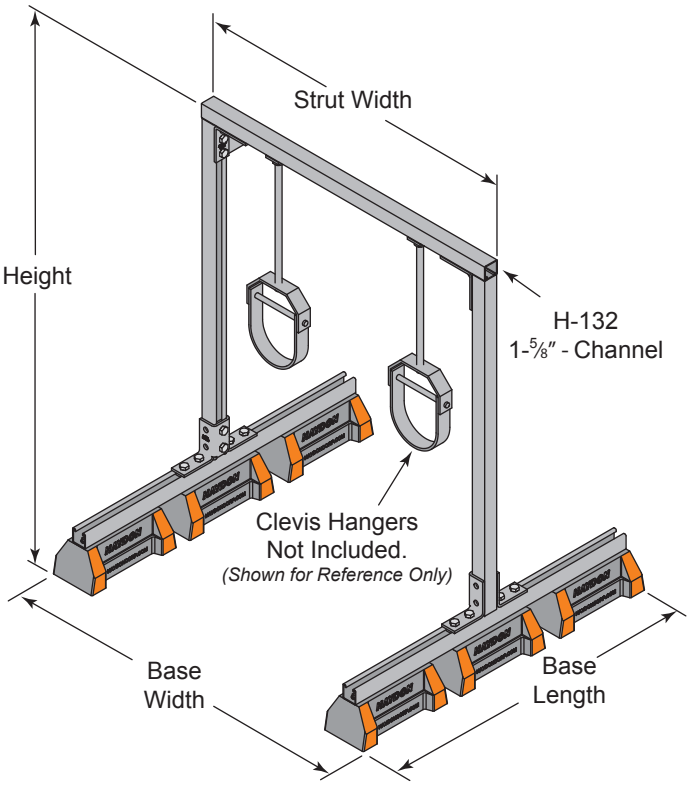
* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of ½" Haydon Griplock nuts tightened to 50 ft-lbs.

HBS-PH 48" LIGHT DUTY PIPE HANGER 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 - 1-⅝" 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" (1219mm)	36" (914mm)	39-⅜" (1000mm)	36" (914mm)	6	66	464 *
HBS-PH-48-48-H-132-PG		48" (1219mm)	51-⅜" (1305mm)			68	348 *
HBS-PH-48-60-H-132-PG		60" (1524mm)	63-⅜" (1610mm)			70	280 *
HBS-PH-48-72-H-132-PG		72" (1829mm)	75-⅜" (1915mm)			72	232 *

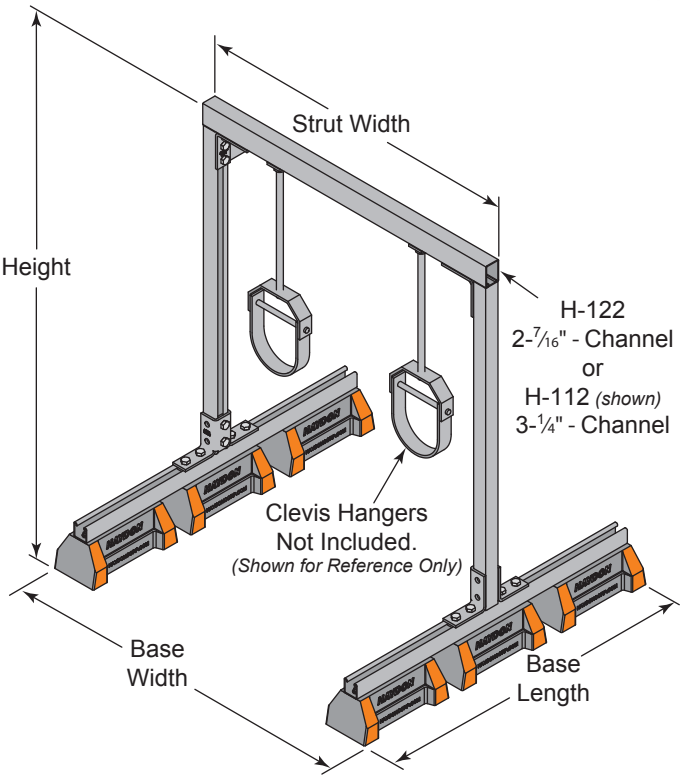
* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of ½" Haydon Griplock nuts tightened to 50 ft-lbs.

HBS-PH 48" MEDIUM DUTY PIPE HANGER SUPPORT

H-112
Channel
Shown

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 - 2-7/16" H-122 Channel or 3-1/4" 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" (1219mm)	36" (914mm)	39-3/8" (1000mm)	36" (914mm)	6	67	884 *
HBS-PH-48-48-H-122-PG		48" (1219mm)	51-3/8" (1305mm)			70	664 *
HBS-PH-48-60-H-122-PG		60" (1524mm)	63-3/8" (1610mm)			72	532 *
HBS-PH-48-72-H-122-PG		72" (1829mm)	75-3/8" (1915mm)			75	444 *

* 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 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" Haydon Griplock 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" (1219mm)	36" (914mm)	39-3/8" (1000mm)	36" (914mm)	6	69	1416 *
HBS-PH-48-48-H-112-PG		48" (1219mm)	51-3/8" (1305mm)			72	1060 *
HBS-PH-48-60-H-112-PG		60" (1524mm)	63-3/8" (1610mm)			75	848 *
HBS-PH-48-72-H-112-PG		72" (1829mm)	75-3/8" (1915mm)			78	708 *

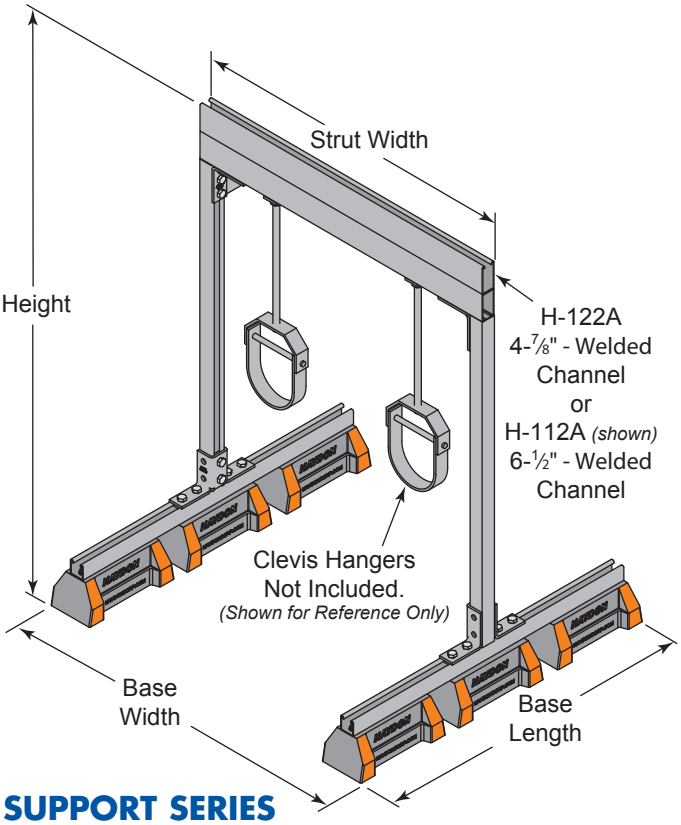
* This load is only for the capacity of the components in this assembly with the pipe hangers located at a distance 1/4 from each end of the top channel. For any other loading scenario, please consult the appropriate engineer. Please consult Roofing manufacturer or engineer for roof load capacity.

Torque Setting - All load capacities stated herein are based on the use of ½" Haydon Griplock nuts tightened to 50 ft-lbs.

HBS-PH 48" HEAVY DUTY PIPE HANGER SUPPORT

H-112A Channel Shown

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 - 4-⅞" H-122A Channel or 6-½" 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" (1219mm)	36" (914mm)	39-⅜" (1000mm)	36" (914mm)	6	74	2088 *
HBS-PH-48-48-H-122A-PG		48" (1219mm)	51-⅜" (1305mm)			79	1948 *
HBS-PH-48-60-H-122A-PG		60" (1524mm)	63-⅜" (1610mm)			83	1560 *
HBS-PH-48-72-H-122A-PG		72" (1829mm)	75-⅜" (1915mm)			88	1300 *

* 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 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" Haydon Griplock 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" (1219mm)	36" (914mm)	39-⅜" (1000mm)	36" (914mm)	6	77	2756 *
HBS-PH-48-48-H-112A-PG		48" (1219mm)	51-⅜" (1305mm)			82	2756 *
HBS-PH-48-60-H-112A-PG		60" (1524mm)	63-⅜" (1610mm)			88	2580 *
HBS-PH-48-72-H-112A-PG		72" (1829mm)	75-⅜" (1915mm)			94	2148 *

* 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 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" Haydon Griplock nuts tightened to 50 ft-lbs.

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.

Specifications

GENERAL

InstaRack is a one-piece, pre-formed solar mounting system made from durable, lightweight high-density polyethylene plastic (HDPE). It contains a UV inhibitor for durability and extended life. This durable material uses a minimum of 35% recycled content, resulting in a lower carbon footprint than conventional energy intensive aluminum racking systems. We source and manufacture our products entirely in the USA.

Sollega is compatible with most conventional crystalline solar panels on the market today. Our universal design enables the installation of modules up to 44” in width. This allows our clients flexibility when managing their existing supply chains for modules. Our prepaneling method enables the quickest installation process. The InstaRack contours to the roof and allows flexibility in the design and installation that saves time and money.

MATERIAL

High-Density Polyethylene (HDPE) Minimum 35% recycled content

BALLAST REQUIREMENTS

4" x 8" x 16" CMU (31.5 lbs each)
Based on ASTM Designation C1491 – 01a.

WIND LOAD CRITERIA

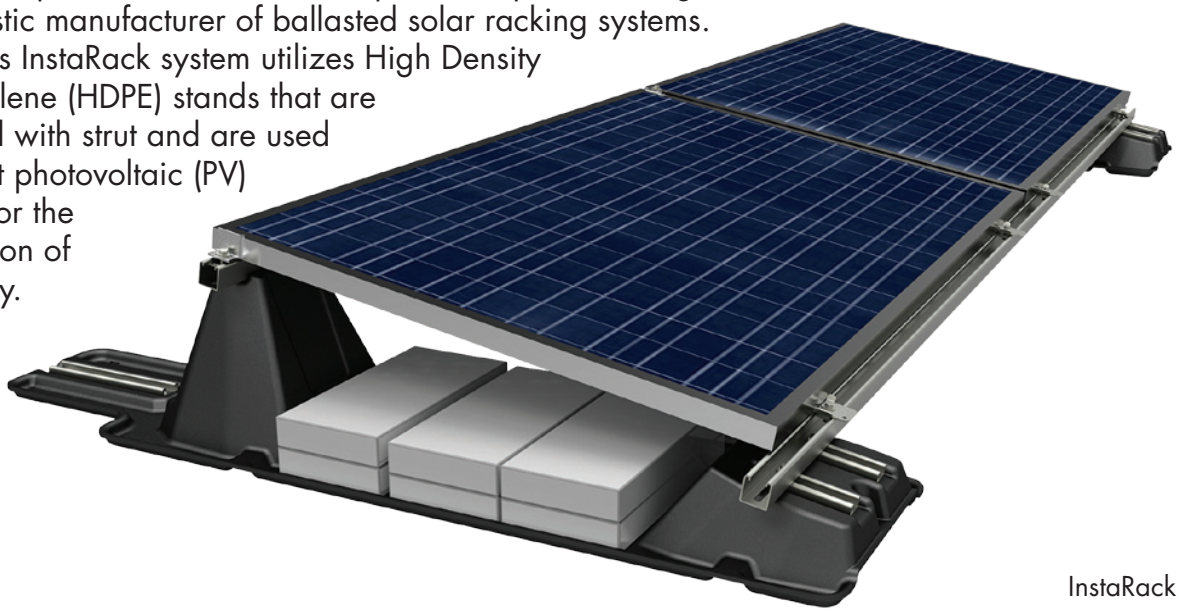
Meets ASCE 7-05 up to 120 mph

U.L. MATERIAL RATING

UL 94-HB

SOLAR RACKING SYSTEMS

Haydon is pleased to announce its partnership with Sollega, a domestic manufacturer of ballasted solar racking systems. Sollega's InstaRack system utilizes High Density Polyethylene (HDPE) stands that are attached with strut and are used to mount photovoltaic (PV) panels for the generation of electricity.



InstaRack 10°

Sollega InstaRack for Flat Roof Applications

The InstaRack ballasted solar racking system is designed to reduce labor and shipping costs for flat roof solar installations. The InstaRack is quick to install and has the least number of parts of all racking systems currently on the market. Manufactured from HDPE (high-density polyethylene) with a built-in UV inhibitor, the InstaRack is engineered to withstand years of exposure in the harshest environments. InstaRack is available in tilt angles of 10° and 15°.

Lakewood, NJ

ONE PIECE SOLUTION. NO RACKING ASSEMBLY REQUIRED

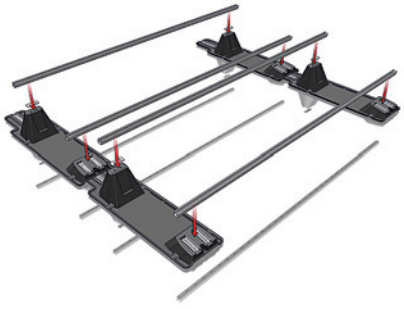
Ocean, NJ

Denver, CO

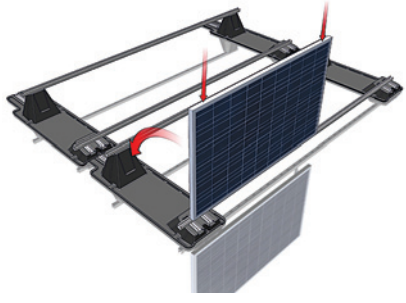
Benefits:

- Simple and Innovative Design: requires only 1 tool for assembly
- Quick Installation: 2-3 kW per person per hour
- Universal System: compatible with modules 30" - 44" in width
- Integrated Grounding: performed through strut rail with use of Wiley WEEB and jumpers
- Flexible and Stackable Design: contours to roof obstacles, low shipping cost
- Wind Tunnel Tested: in accordance with ASCE 7-05; 120 MPH Rating
- Fully Ballasted: optional mechanical attachments for seismic and high wind loads
- High Density Polyethylene (HDPE): durable, flexible, non-conductive, resistant to ultra violet light
- Made in the USA: ARRA "Buy American" compliant

1. Position InstaRacks on the project site and attach the Haydon strut with standard bolts.

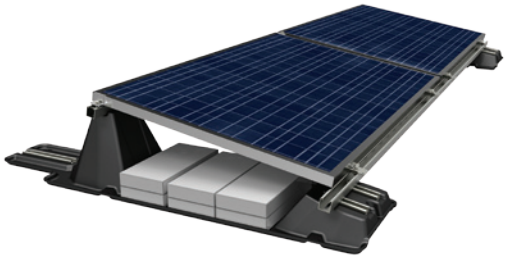


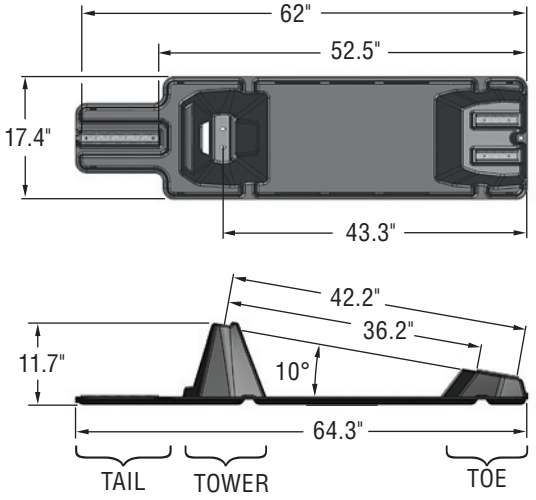
2. Attach the hinge plates to the solar module. Place it on the lower strut, which allows it to pivot and lock into place.



3. Attach the module to the upper strut with inter-module and end clamps.

InstaRack10
Solar Racking





SPECIFICATIONS – InstaRack10™

Tilt Angle: 10°

Compatible Modules:
All framed modules 37.3" - 44" in width (*948mm and 1117mm*)

Row Spacing:
Maximum: 62" (*1575mm*)
Minimum: 52.5" (*1334mm*)

Weight: 12 lbs. (*5.4 kg*)

UL Material Rating: UL 94-HB

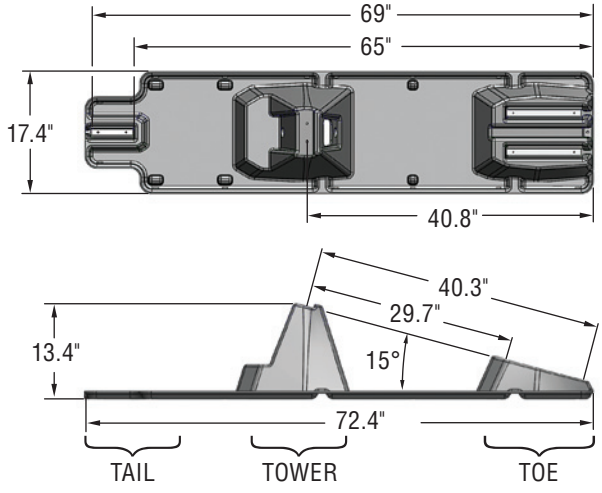
Ballast Requirements:
4" x 8" x 16" Roof Paver (31.5 lbs each) based on ASTM Designation C1491 – 01a.

Material:
High-Density Polyethylene (HDPE)
Minimum 35% recycled content

Module Orientation: Landscape

Wind Load Criteria:
Meets ASCE 7-05 up to 120 mph

InstaRack15
Solar Racking



SPECIFICATIONS – InstaRack15™

Tilt Angle: 15°

Compatible Modules:
All framed modules 30" - 42" in width (*762mm and 1067 mm*)

Row Spacing:
Maximum: 69" (*1750 mm*)
Minimum: 65" (*1650 mm*)

Weight: 17 lbs. (*7.7 kg*)

UL Material Rating: UL 94-HB

Ballast Requirements:
4" x 8" x 16" Roof Paver (31.5 lbs each) based on ASTM Designation C1491 – 01a.

Material:
High-Density Polyethylene (HDPE)
Minimum 35% recycled content

Module Orientation: Landscape

Wind Load Criteria:
Meets ASCE 7-05 up to 120 mph

This section is to provide you with information regarding the manufacturing specifications and procedures on our H-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 Haydon Corporation are committed to customer service and so we offer the services of our Engineering Department to answer any questions you may have.

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sales@haydoncorp.com

www.haydoncorp.com

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 ⅛" scribe creep.

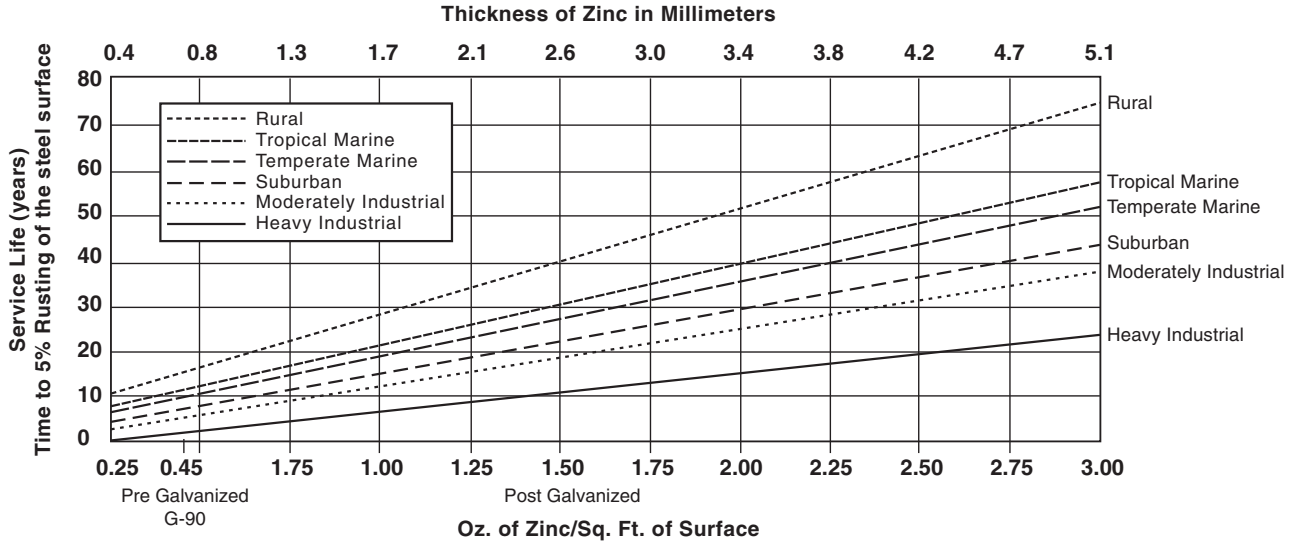
ZINC TRIVALENT CHROMIUM

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 H-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 Haydon serves.

Haydon's outstanding quality control procedures assure the end user each piece of H-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 Haydon's products.

Should you have a custom application that requires additional information, our engineering department is ready to review it.

Courtesy of American Galvanizers Association.

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).

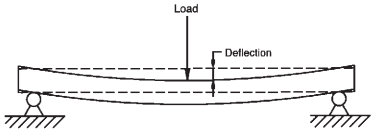
LOADING AND DEFLECTION

All beams will deflect or "sag" when a load is applied. The magnitude of the deflection is dependent on the following factors:

(a) The amount of load plus the weight of the beam itself.
(b) The manner in which the load is distributed.
(c) The method by which the beam is supported.
(d) The cross sectional shape of the beam.
(e) 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.

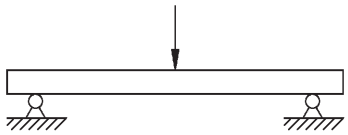
The stiffness of a beam derived from its material composition is defined by its "Modulus of Elasticity" or "E". The greater the "E" value of the beam's material, the stiffer it is, and the smaller the deflection. A material's elasticity does not necessarily relate to its strength but rather its deflection under a given load.

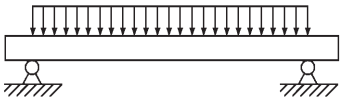


The beam capacities in this catalog include the weight of the beam itself. Therefore, the strut beam weight must be subtracted from the loading capacities given to provide the net beam capacity.

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).

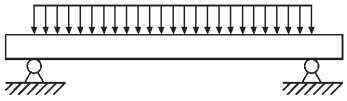


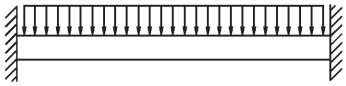


Uniform Load - A uniform load is spread evenly over the length of the beam from support to support.

TYPES OF BEAM SUPPORT CONDITIONS

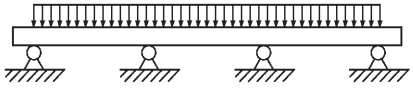
Simple Beam - A simple beam is supported at both ends by non-fixed connections which prevent vertical movement at the support point, but allow the beam to rotate or flex into a normal deflected shape. The majority of bolted metal framing connections closely approximate these conditions. The loading data presented in this catalog is based on simple beam analysis unless otherwise noted.



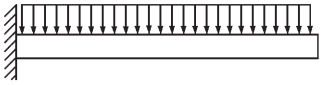


Fixed Beam - A fixed beam has rigid connections at each end that restrict the rotation of the beam and resist its deflection. The increased stiffness provided by this resistance to rotation provides a greater load capacity than that of an equivalent simple beam. A fixed-end beam would result when a channel 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:

(a) Column length - Column length is the distance between brace points.

(b) 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.

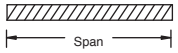
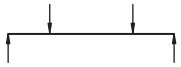
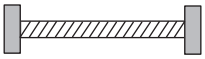
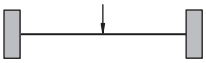
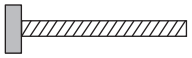
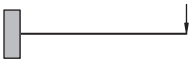
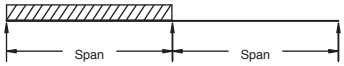
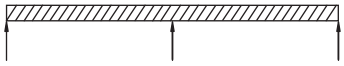
(c) Support conditions - The column end support condition is mathematically represented by its “K-factor". A pinned connection is one that prevents lateral movement, but allows rotation. A fixed connection provides restraint against both lateral movement and rotation. A free top connection is one that 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).

(d) 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.

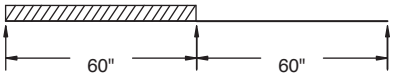
H-STRUT BEAM LOADING FORMULAS

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

EXAMPLES:

PROBLEM:
Calculate the load and corresponding deflection of the H-132 beam continuous over one support and loaded uniformly on one span.

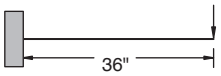


SOLUTION:

From the load table for H-132, for a 60" span, the maximum allowable load is 700 lbs. and the corresponding deflection is .35". Multiplying by the appropriate factors shown in the chart above:

LOAD = 700 lbs. x 1.3 = 910 lbs.
DEFLECTION = .35" x .92 = .322"

PROBLEM:
Calculate the load and corresponding deflection of a cantilever H-122 beam with a concentrated load on the end.



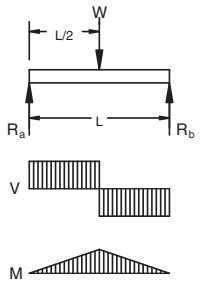
SOLUTION:

From beam load chart for H-122, for a 36" span, the maximum allowable load is 2210 lbs. and the corresponding deflection is .09". Multiplying by the appropriate factors shown in the chart above:

LOAD = 2210 lbs.x .12 = 265 lbs.
DEFLECTION = .09" x 3.20 = .288"

COMMON BEAM LOADING FORMULAS

SIMPLE BEAMS

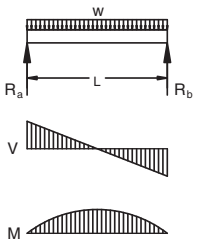


$R_a = R_b = \frac{W}{2}$

$V_{max} = \frac{W}{2}$

$M_{max} = \frac{WL}{4}$

$\triangle_{max} = \frac{WL^3}{48EI}$

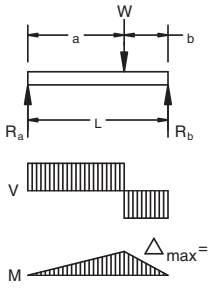


$R_a = R_b = \frac{wL}{2}$

$V_{max} = \frac{wL}{2}$

$M_{max} = \frac{wL^2}{8}$

$\triangle_{max} = \frac{5wL^4}{384EI}$



$R_a = \frac{Wb}{L}$

$R_b = \frac{Wa}{L}$

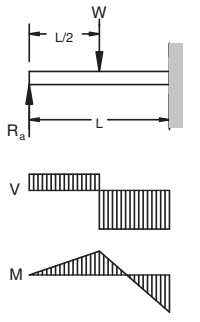
$V_{max} = \frac{Wa}{L}$

$M_{max} = \frac{Wab}{L}$

$\triangle_{max} = \frac{Wab(a+2b)\sqrt{3a(a+2b)}}{27EIL}$

$@x = \sqrt{\frac{a(a+2b)}{3}}$

BEAM FIXED AT ONE END, SUPPORTED AT OTHER



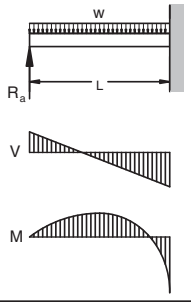
$R_a = \frac{5W}{16}$

$V_{max} = \frac{11W}{16}$

$M_{max} = \frac{5WL}{32}$

$\triangle_{max} = \frac{.009317\ WL^3}{EI}$

@x=0.447L



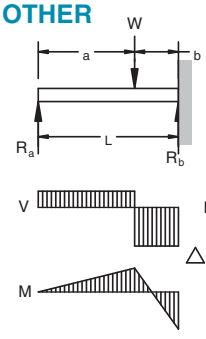
$R_a = R_b = \frac{3wL}{8}$

$V_{max} = \frac{5wL}{8}$

$M_{max} = \frac{wL^2}{8}$

$\triangle_{max} = \frac{wL^4}{185EI}$

@x=0.4215L



$R_a = \frac{Wb^2}{2L^3}(a+2L)$

$R_b = \frac{Wa}{2L^3}(3L^2-a^2)$

$M_{point\ of\ load} = R_a a$

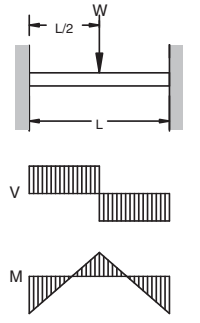
$M_{fixed\ end} = \frac{Wab}{2L^2}(a+L)$

$M_{max} = \frac{Wab}{2L^3}(L-a)^2(2L+a)$

$\triangle_{max} = \frac{Wa(L^2-a^2)}{6EI}\sqrt{\frac{a}{(2L+a)}}$

$@x = L\sqrt{\frac{a}{(2L+a)}}$

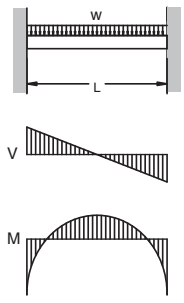
BEAM FIXED AT BOTH ENDS



$V_{max} = \frac{W}{2}$

$M_{max} = \frac{WL}{8}$

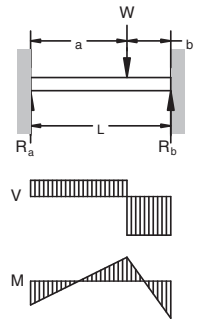
$\triangle_{max} = \frac{WL^3}{192EI}$



$V_{max} = \frac{wL}{2}$

$M_{max} = \frac{wL^2}{12}$

$\triangle_{max} = \frac{wL^4}{384EI}$



$R_a = \frac{Wb^2}{L^3}(3a+b)$

$R_b = \frac{Wa^2}{L^3}(a+3b)$

$M_a = \frac{Wab^2}{L^2}$

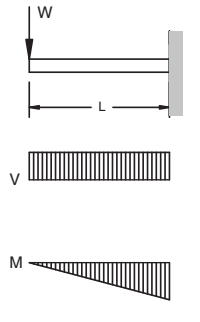
$M_b = \frac{Wa^2b}{L^2}$

$M_{max} = \frac{2Wa^2b^2}{L^3}$

$\triangle_{max} = \frac{2Wa^3b^2}{3EI(1+2a)^2}$

$@x = \frac{2aL}{L+2a}$

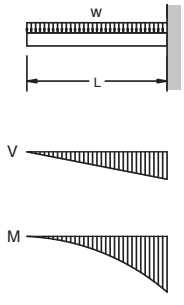
CANTILEVER BEAMS



$V_{max} = W$

$M_{max} = WL$

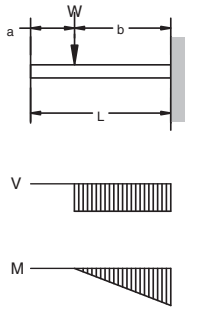
$\triangle_{max} = \frac{WL^3}{3EI}$



$V_{max} = wL$

$M_{max} = \frac{wL^2}{2}$

$\triangle_{max} = \frac{wL^4}{8EI}$



$V_{max} = W$

$M_{max} = Wb$

$\triangle_{max} = \frac{Wb^2(3L-b)}{6EI}$

R- Reaction
M-Moment
W-Concentrated Load

w-Uniform Load (Weight/Unit Length)
V-Shear
L-Length

△-Deflection
E-Modulus of Elasticity
I-Moment of Inertia

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

1-¼" 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

1-½" 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

2-½" 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

3-½" 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	0.674
Pipe - Lbs/Ft.	10.8	15.0	19.0	22.5	27.5
Water - Lbs/Ft.	5.51	4.98	4.47	4.02	3.38

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	0.75
Pipe - Lbs/Ft.	14.6	20.8	27.4	32.9	38.6
Water - Lbs/Ft.	8.66	7.89	7.06	7.33	5.62

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

20" Pipe Size - 20.0" 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 FOR PIPE HANGERS LOCATED ON 6 FT CENTERS 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 - ONE PIPE (LBS)	31	47	65	98	140	189	301	448	612
TOTAL WEIGHT PER 6 FT CENTER - TWO PIPES (LBS)	61	94	129	196	279	378	602	895	1,223
RECOMMENDED 3 FT SPAN PIPE HANGER TOP BEAM	H-132	H-132	H-132	H-132	H-132	H-132	H-122	H-112	H-112
RECOMMENDED 4 FT SPAN PIPE HANGER TOP BEAM	H-132	H-132	H-132	H-132	H-132	H-122	H-112	H-112	H-122A
RECOMMENDED 5 FT SPAN PIPE HANGER TOP BEAM	H-132	H-132	H-132	H-132	H-122	H-122	H-112	H-122A	H-122A
RECOMMENDED 6 FT SPAN PIPE HANGER TOP BEAM	H-132	H-132	H-132	H-132	H-122	H-122	H-112	H-122A	H-112A

WATER FILLED PIPE WEIGHTS FOR PIPE HANGERS LOCATED ON 8 FT CENTERS 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 - ONE PIPE (LBS)	41	63	86	130	186	252	402	597	816
TOTAL WEIGHT PER 8 FT CENTER - TWO PIPES (LBS)	82	126	172	261	372	504	803	1,194	1,631
RECOMMENDED 3 FT SPAN PIPE HANGER TOP BEAM	H-132	H-132	H-132	H-132	H-132	H-122	H-112	H-112	H-122A
RECOMMENDED 4 FT SPAN PIPE HANGER TOP BEAM	H-132	H-132	H-132	H-132	H-132	H-122	H-112	H-112	H-122A
RECOMMENDED 5 FT SPAN PIPE HANGER TOP BEAM	H-132	H-132	H-132	H-122	H-122	H-112	H-122A	H-122A	H-112A
RECOMMENDED 6 FT SPAN 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

PART NUMBER CROSS REFERENCE

H-STRUT®

From	To	Pages
UNISTRUT®	HAYDON®	167 – 169
POWER-STRUT®	HAYDON®	170 – 172
B-LINE®	HAYDON®	173 – 175
GLOBE®	HAYDON®	176 – 177
SUPERSTRUT®	HAYDON®	178 – 179

CROSS REFERENCE

The Cross Reference is a comparative part number index to other leading manufacturers of channel framing systems. The parts listed are for comparison use only and are not necessarily identical, but can be substituted for each other.

Although Haydon Corporation has made every effort to verify the interchangeablility of its products with those of its competitors, they cannot guarantee 100% that similar products are identical in every particular.

UNISTRUT	H-STRUT
004T008	C100025
006T010	C100037
008N012	C200025
008T012	C100050
010N014	C200037
010T014	C100062
012T016	C100075
014N018	C200050
014T018	C100087
016T020	C100100
017N022	C200075
018T022	C100112
020T024	C100125
021N026	C200100
022T026	C100137
024T028	C100150
026T030	C100162
027N032	C200125
028N032	C100175
030N034	C100187
030N034	C200150
032N036	C100200
034N040	C100212
038N044	C100237
038N044	C200200
042N048	C100262
046N052	C200250
050N056	C100312
056N062	C200300
058N064	C100362
064N072	C200350
066N074	C100412
072N080	C200400
089N096	C200500
106N114	C200600
M-24	H-1200
M-2506	N-1200 1/4
M-2508	N-1200 3/8
M-2510	N-1200 1/2
M-2512	N-1200 5/8
M-2523	N-1200 3/4
M-2524	N-1200 7/8
P-1000	H-132
P-1000-6KO	H-132-KO
P-1000-HS	H-132-RS
P-1000-SL	H-132-OS3
P-1000-T	H-132-OS
P-1001	H-132-A
P-1006-1420	N-820
P-1007	N-828
P-1008	N-821
P-1010	N-822
P-1012	N-804
P-1012-S	N-824
P-1023	N-805
P-1023-3	N-825
P-1024	N-809
P-1024-S	N-829
P-1026	A-302
P-1028	F-216
P-1031	F-213
P-1033	A-312
P-1036	F-210
P-1037	A-330-R
P-1038	A-330-L
P-1043-A	B-610
P-1045	A-322
P-1046-A	B-616
P-1047	B-601-3
P-1048	B-602-1
P-1049	B-602-2
P-1050	B-602-3
P-1062	F-201-5/16
P-1063	F-201-3/8
P-1064	F-201-1/2
P-1065	F-203
P-1066	F-206-2
P-1067	F-205
P-1068	A-301
P-1075	T-615
P-1100	H-134
P-1100-6KO	H-134-KO
P-1100-HS	H-134-RS
P-1100-SL	H-134-OS3
P-1100-T	H-134-OS
P-1101	H-134-A
P-1109	C-1102-3/8
P-1111	C-1102-1/2
P-1112	C-1102-3/4
P-1113	C-1102-1
P-1114	C-1102-11/4
P-1115	C-1102-11/2
P-1117	C-1102-2
P-1117	C-1101-23/8
P-1118	C-1102-21/2
P-1118	C-1101-27/8
P-1119	C-1102-3
P-1119	C-1101-31/2
P-1120	C-1102-31/2
P-1120	C-1101-4
P-1121	C-1102-4
P-1121	C-1101-41/2
P-1123	C-1102-5
P-1124	C-1102-6
P-1124	C-1101-65/8
P-1126	C-1102-8
P-1130	A-315
P-1131	A-315-1
P-1186	A-317
P-1201	M-610-1
P-1202	M-601-2
P-1203	M-601-3
P-1204	M-611-1
P-1205	M-611-2
P-1206	M-611-3
P-1207	M-611-4
P-1208	M-611-5
P-1211	C-1104-1/2
P-1212	C-1104-3/4
P-1213	C-1104-1
P-1214	C-1104-11/4
P-1215	C-1104-11/2
P-1217	C-1104-2
P-1271S	C-407
P-1272S	C-408-1/4
P-1281	A-338-1
P-1282	A-338-2
P-1283	A-338-3
P-1325	A-311
P-1326	A-306
P-1334	F-211
P-1356	F-212
P-1358	F-217
P-1359	A-309
P-1363	B-615
P-1376	B-609
P-1376-A	B-604
P-1377	B-605
P-1379-S	C-406
P-1380	F-218
P-1380-A	F-214
P-1386	C-403
P-1425	C-1100-3/4
P-1426	C-1100-1/2
P-1427	C-1100-3/4
P-1428	C-1100-1
P-1429	C-1100-11/4
P-1430	C-1100-11/2
P-1430	C-1101-13/4
P-1431	C-1100-2
P-1453	A-324
P-1454	A-325
P-1479-A	A-304-4
P-1479-B	A-340-5
P-1479-C	A-340-6
P-1479-D	A-340-7
P-1479-E	A-340-8
P-1498	A-336
P-1499	A-336-1
P-1546	A-316
P-1563	C-1107-3/8
P-1564	C-1107-1/2
P-1565	C-1107-3/4
P-1566	C-1107-1
P-1567	C-1107-11/4

TECHNICAL DATA - CROSS REFERENCE

UNISTRUT	H-STRUT
P-1568	C-1107-1 1/2
P-1569	C-1107-2
P-1570	C-1107-2 1/2
P-1571	C-1107-3
P-1572	C-1107-3 1/2
P-1573	C-1107-4
P-1579	A-310
P-1593	T-614
P-1648-S	C-410-1
P-1649-AS	C-410-3
P-1649-S	C-410-2
P-1650	C-410-4
P-1650-AS	C-410-5
P-1651-AS	C-410-7
P-1651-S	C-410-6
P-1652-S	C-410-8
P-1653-S	C-410-9
P-1704	1001-EC-1
P-1726	F-219
P-1728	A-314
P-1737	B-601-6
P-1834	B-611
P-1834-A	B-612
P-1924	F-204
P-1925	F-206-1
P-1944	M-602
P-1950	F-220
P-1964	F-201-5/8
P-1985-S	C-408-3/8
P-2008	C-1109-1/4
P-2009	C-1109-5/16
P-2010	C-1109-3/8
P-2012	C-1109-1/2
P-2014	C-1109-5/8
P-2016	C-1109-3/4
P-2018	C-1109-7/8
P-2020	C-1109-1
P-2024	C-1101-1/4
P-2025	C-1101-3/8
P-2026	C-1101-1/2
P-2027	C-1101-5/8
P-2028	C-1101-3/4
P-2029	C-1101-7/8
P-2030	C-1101-1
P-2031	C-1101-1 1/8
P-2032	C-1101-1 1/4
P-2033	C-1101-1
P-2039	C-1101-2 1/8
P-2040	C-1101-21 /4
P-2042	C-1101-2 1/2
P-2043	C-1101-25/8
P-2044	C-1101-23/4
P-2046	C-1101-3
P-2047	C-1101-3 1/8
P-2048	C-1101-3 1/4

UNISTRUT	H-STRUT
P-2049	C-1101-33/8
P-2051	C-1101-35/8
P-2052	C-1101-33/4
P-2053	C-1101-37/8
P-2055	C-1101-41/8
P-2056	C-1101-41/4
P-2057	C-1101-43/8
P-2059	C-1101-45/8
P-2060	C-1101-43/4
P-2061	C-1101-47/8
P-2062	C-1101-5
P-2063	C-1101-51/8
P-2064	C-1101-51/4
P-2065	C-1101-53/8
P-2066	C-1101-51/2
P-2067	C-1101-55/8
P-2068	C-1101-53/4
P-2069	C-1101-57/8
P-2070	C-1101-6
P-2070-61	C-1101-61/8
P-2070-62	C-1101-61/4
P-2070-63	C-1101-63/8
P-2070-64	C-1101-61/2
P-2070-66	C-1101-63/4
P-2070-67	C-1101-67/8
P-2070-70	C-1101-7
P-2070-71	C-1101-71/8
P-2070-73	C-1101-73/8
P-2070-75	C-1101-75/8
P-2070-77	C-1101-77/8
P-2070-80	C-1101-8
P-2072	B-619
P-2072-A	B-620
P-2073	B-619-A
P-2073-A	B-620-A
P-2094	A-319-1
P-2095	A-319-2
P-2096	A-319-3
P-2097	A-319-4
P-2098	A-319-5
P-2099	A-319-6
P-2101	A-320-1
P-2102	A-320-2
P-2103	A-320-3
P-2104	A-320-4
P-2223	A-326
P-2225	A-326-1
P-2227	A-328
P-2229	A-328-1
P-2231	T-612-6
P-2231-A	T-613-6
P-2232	T-612-12
P-2232-A	T-613-12
P-2235	A-313
P-2324	F-207

UNISTRUT	H-STRUT
P-2326	B-613
P-2329	B-614
P-2341	A-321
P-2343	A-321-1
P-2345	A-327
P-2347	A-327-1
P-2354-L	M-605-1-L
P-2354-R	M-605-1-R
P-2355-L	M-605-2-L
P-2355-R	M-605-2-R
P-2398S	C-411-1
P-2401S	C-411-2
P-2403S	C-411-3
P-2407	1000-EC-1
P-2452	B-603-1
P-2469	A-341
P-2471	F-201-3/4
P-2473	B-601-7
P-2484	A-335
P-2491-L	T-620-L-6
P-2491-R	T-620-R-6
P-2492-L	T-620-L-8
P-2492-R	T-620-R-8
P-2493-L	T-620-L-10
P-2493-R	T-620-R-10
P-2494-L	T-621-L-12
P-2494-R	T-621-R-12
P-2495-L	T-621-L-14
P-2495-R	T-621-R-14
P-2496-L	T-621-L-16
P-2496-R	T-621-R-16
P-2497-L	T-621-L-18
P-2497-R	T-621-R-18
P-2498-L	T-621-L-20
P-2498-R	T-621-R-20
P-2499-L	T-621-L-22
P-2499-R	T-621-R-22
P-2500-L	T-622-L-24
P-2500-R	T-622-R-24
P-2501-L	T-622-L-26
P-2501-R	T-622-R-26
P-2502-L	T-622-L-28
P-2502-R	T-622-R-28
P-2503-L	T-622-L-30
P-2503-R	T-622-R-30
P-2522	E-513
P-2536	E-501
P-2540	E-502
P-2542	T-611-12
P-2543	T-611-18
P-2544	T-611-24
P-2545	T-611-30
P-2546	T-611-36
P-2558-05	C-1108-1/2
P-2558-07	C-1108-3/4

UNISTRUT	H-STRUT
P-2558-10	C-1108-1
P-2558-12	C-1108-1 1/4
P-2558-15	C-1108-1 1/2
P-2558-20	C-1108-2
P-2558-25	C-1108-2 1/2
P-2558-30	C-1108-3
P-2558-35	C-1108-3 1/2
P-2558-40	C-1108-4
P-2558-50	C-1108-5
P-2558-60	C-1108-6
P-2626	A-304
P-2655	M-601
P-2700	T-165-12
P-2701	T-165-18
P-2702	T-165-24
P-2703	T-134-24
P-2704	T-134-30
P-2705	T-134-36
P-2706	T-132-42
P-2707	T-162-18
P-2708	T-142-24
P-2709	T-132-30
P-2710	T-132-36
P-2711	T-122-36
P-2712	T-122-42
P-2713	T-165-A-12
P-2714	T-154-A-18
P-2715	T-165-A-24
P-2716	T-134-A-24
P-2717	T-134-A-30
P-2718	T-134-A-36
P-2719	T-134-A-42
P-2720	T-162-A-18
P-2721	T-162-A-24
P-2722	T-142-A-24
P-2723	T-142-A-30
P-2724	T-132-A-36
P-2725	T-132-A-42
P-2755	E-505-H
P-2785	C-402-132
P-2786	C-402-122
P-2855	E-505
P-2867	C-412
P-2869	E-512
P-3000	H-142
P-3000-6KO	H-142-KO
P-3000-HS	H-142-RS
P-3000-SL	H-142-OS3
P-3000-T	H-142-OS
P-3001	H-142-A
P-3006-1420	N-800
P-3007	N-808
P-3008	N-801
P-3010	N-803
P-3013	N-802

UNISTRUT	H-STRUT
P-3045	A-323-42
P-3047	B-601-2
P-3184	C-900
P-3249-3270	H-142-IN
P-3280	1000-EC-2
P-3300	H-172
P-3300-6KO	H-172-KO
P-3300-HS	H-172-RS
P-3300-SL	H-172-OS3
P-3300-T	H-172-OS
P-3301	H-172-A
P-3340-3370	H-162-IN
P-3380	1000-EC-5
P-3521-50	E-504-3 1/2
P-3704	1001-EC-2
P-3922	E-510-2
P-3923	E-510-3
P-3924	E-510-5
P-3925	E-510-1
P-4006-1420	N-810
P-4007	N-818
P-4008	N-811
P-4010	N-812
P-4012	N-806
P-4012-S	N-814
P-4023	N-807
P-4023-S	N-815
P-4045	A-323-62
P-4100	H-164
P-4100-6KO	H-164-KO
P-4100-HS	H-164-RS
P-4100-SL	H-164-OS3
P-4100-T	H-164-OS
P-4101	H-164-A
P-4376	B-607
P-4376-A	B-606
P-4377	B-608
P-4704	1001-EC-4
P-5000	H-112
P-5000-6KO	H-112-KO
P-5000-HS	H-112-RS
P-5000-SL	H-112-OS3
P-5000-T	H-112-OS
P-5001	H-112-A
P-5500	H-122
P-5500-6KO	H-122-KO
P-5500-HS	H-122-RS
P-5500-SL	H-122-OS3
P-5500-T	H-122-OS
P-5501	H-122-A
P-5506-1420	N-830
P-5507	N-838
P-5508	N-831
P-5510	N-833
P-5521-50	E-510-1 1/2

UNISTRUT	H-STRUT
P-5521-75	E-504-1 3/4
P-5545	A-323-22
P-5547	B-601-4
P-6000	H-179
P-6001	H-179-A
P-6006-0832	N-861
P-6006-1024	N-863
P-6006-1032	N-862
P-6006-1420	N-864
P-6013-0832	N-841
P-6013-1024	N-843
P-6013-1032	N-842
P-6013-1420	N-844
P-7000	H-189
P-7001	H-189-A
P-7006-0832	N-851
P-7006-1024	N-853
P-7006-1032	N-852
P-7006-1420	N-854

TECHNICAL DATA - CROSS REFERENCE

POWERSTRUT	H-STRUT
PS-100	H-112
PS-100-2T3	H-112-A
PS-100-EH	H-112-OS
PS-100-KO6	H-112-KO
PS-100-SL	H-112-OS3
PS-1000-1	C-1100-1
PS-1000-1/2	C-1100-1/2
PS-1000-1 1/2	C-1100-1 1/2
PS-1000-1 1/4	C-1100-1 1/4
PS-1000-2	C-1100-2
PS-1000-3/4	C-1100-3/4
PS-1000-3/8	C-1100-3/8
PS-100H	H-112-RS
PS-1100-1/2	C-1102-1/2
PS-1100-10	C-1102-10
PS-1100-1 1/2	C-1102-1 1/2
PS-1100-1 1/4	C-1102-1 1/4
PS-1100-2	C-1102-2
PS-1100-2 1/2	C-1102-2 1/2
PS-1100-3	C-1102-3
PS-1100-3/4	C-1102-3/4
PS-1100-3/8	C-1102-3/8
PS-1100-3 1/2	C-1102-3 1/2
PS-1100-4	C-1102-4
PS-1100-5	C-1102-5
PS-1100-6	C-1102-6
PS-1100-8	C-1102-8
PS-1101-1	C-1102-1
PS-1200-1	C-1101-1
PS-1200-1/2	C-1101-1/2
PS-1200-1/4	C-1101-1/4
PS-1200-1 1/2	C-1101-1 1/2
PS-1200-1 1/4	C-1101-1 1/4
PS-1200-1 1/8	C-1101-1 1/8
PS-1200-1 3/4	C-1101-1 3/4
PS-1200-1 3/8	C-1101-1 3/8
PS-1200-1 7/8	C-1101-1 7/8
PS-1200-2	C-1101-2
PS-1200-2 1/2	C-1101-2 1/2
PS-1200-2 1/4	C-1101-2 1/4
PS-1200-2 1/8	C-1101-2 1/8
PS-1200-2 3/4	C-1101-2 3/4
PS-1200-2 3/8	C-1101-2 3/8
PS-1200-2 5/8	C-1101-2 5/8
PS-1200-2 7/8	C-1101-2 7/8
PS-1200-3	C-1101-3
PS-1200-3/4	C-1101-3/4
PS-1200-3/8	C-1101-3/8
PS-1200-3 1/2	C-1101-3 1/2
PS-1200-3 1/4	C-1101-3 1/4
PS-1200-3 1/8	C-1101-3 1/8
PS-1200-3 3/4	C-1101-3 3/4
PS-1200-3 3/8	C-1101-3 3/8
PS-1200-3 5/8	C-1101-3 5/8
PS-1200-3 7/8	C-1101-3 7/8
PS-1200-4	C-1101-4
PS-1200-4 1/2	C-1101-4 1/2
PS-1200-4 1/4	C-1101-4 1/4
PS-1200-4 1/8	C-1101-4 1/8
PS-1200-4 3/4	C-1101-4 3/4
PS-1200-4 3/8	C-1101-4 3/8
PS-1200-4 5/8	C-1101-4 5/8
PS-1200-4 7/8	C-1101-4 7/8
PS-1200-5	C-1101-5
PS-1200-5/8	C-1101-5/8
PS-1200-5 1/2	C-1101-5 1/2
PS-1200-5 1/4	C-1101-5 1/4
PS-1200-5 1/8	C-1101-5 1/8
PS-1200-5 3/4	C-1101-5 3/4
PS-1200-5 3/8	C-1101-5 3/8
PS-1200-5 5/8	C-1101-5 5/8
PS-1200-5 7/8	C-1101-5 7/8
PS-1200-6	C-1101-6
PS-1200-6 1/2	C-1101-6 1/2
PS-1200-6 1/4	C-1101-6 1/4
PS-1200-6 1/8	C-1101-6 1/8
PS-1200-6 3/4	C-1101-6 3/4
PS-1200-6 3/8	C-1101-6 3/8
PS-1200-6 5/8	C-1101-6 5/8
PS-1200-6 7/8	C-1101-6 7/8
PS-1200-7	C-1107-7
PS-1200-7/8	C-1101-7/8
PS-1200-7 1/8	C-1101-7 1/8
PS-1200-7 3/8	C-1101-7 3/8
PS-1200-7 5/8	C-1101-7 5/8
PS-1200-7 7/8	C-1101-7 7/8
PS-1200-8	C-1101-8
PS-1300-1	C-1104-1
PS-1300-1/2	C-1104-1/2
PS-1300-1 1/2	C-1104-1 1/2
PS-1300-1 1/4	C-1104-1 1/4
PS-1300-2	C-1104-2
PS-1300-3/4	C-1104-3/4
PS-1300-3/8	C-1104-3/8
PS-1400-1/2	C100050
PS-1400-1/4	C100025
PS-1400-1 1/8	C100112
PS-1400-1 3/8	C100137
PS-1400-1 5/8	C100162
PS-1400-2 1/8	C100212
PS-1400-2 5/8	C100262
PS-1400-3/4	C100075
PS-1400-3/8	C100037
PS-1400-3 1/8	C100312
PS-1400-4 1/8	C100412
PS-1400-5/8	C100062
PS-1400-7/8	C100087
PS-1450-1	C-1109-1
PS-1450-1/2	C-1109-1/2
PS-1450-1/4	C-1109-1/4
PS-1450-3/4	C-1109-3/4
PS-1450-3/8	C-1109-3/8
PS-1450-5/8	C-1109-5/8
PS-1450-7/8	C-1109-7/8
PS-150	H-122
PS-150-2T3	H-122-A
PS-150-EH	H-122-OS
PS-150-H	H-122-RS
PS-150-KO6	H-122-KO
PS-150-SL	H-122-OS3
PS-200-2T3	H-132-A
PS-200-EH	H-132-OS
PS-200-SL	H-132-OS3
PS-2064	B-620-A-FL
PS-210	H-134
PS-210-2T3	H-134-A
PS-210-EH	H-134-OS
PS-210-H	H-134-RS
PS-210-KO6	H-134-KO
PS-210-SL	H-134-OS3
PS-2112	F-220
PS-2128	A-321-1
PS-2511-2	E-504-2
PS-2511-3	E-504-3
PS-2528	B-611
PS-2528-1	B-612
PS-2545	A-337
PS-2560	E-501-1/2
PS-2561	E-501-3/4
PS-2580	1000EC-6
PS-2581	E-504-1
PS-2582	E-510-1
PS-2585	1000EC-8
PS-2601	A-323-22
PS-2622	C-404
PS-2625	E-502
PS-2632	E-505
PS-2632-D	E-505-H
PS-2636	E-503-SN
PS-2637	E-503
PS-2648	B-601-4
PS-2651-A	C-402-132
PS-2651-C	C-402-122
PS-2654	C-412
PS-300	H-142
PS-300-2T3	H-142-A
PS-300-EH	H-142-OS
PS-300-H	H-142-RS
PS-300-KO6	H-142-KO
PS-300-SL	H-142-OS3
PS-3013	B-619
PS-3017 1/4	N-864
PS-3017 10-24	N-863
PS-3017 10-32	N-862
PS-3017 8-32	N-861

POWERSTRUT	H-STRUT
PS-3025	B-620-FL-1
PS-3029	B-619-A
PS-3033	B-620
PS-3060-4	A-340-4
PS-3060-5	A-340-5
PS-3060-6	A-340-6
PS-3060-7	A-340-7
PS-3060-8	A-340-8
PS-3064	B-620-A
PS-3126-1	C-1108-1
PS-3126-1/2	C-1108-1/2
PS-3126-11/2	C-1108-11/2
PS-3126-11/4	C-1108-11/4
PS-3126-2	C-1108-2
PS-3126-21/2	C-1108-21/2
PS-3126-3	C-1108-3
PS-3126-3/4	C-1108-3/4
PS-3126-31/2	C-1108-31/2
PS-3126-4	C-1108-4
PS-3126-5	C-1108-5
PS-3126-6	C-1108-6
PS-3138-1	C-1107-1
PS-3138-1/2	C-1107-1/2
PS-3138-11/2	C-1107-11/2
PS-3138-11/4	C-1107-11/4
PS-3138-2	C-1107-2
PS-3138-21/2	C-1107-21/2
PS-3138-3	C-1107-3
PS-3138-3/4	C-1107-3/4
PS-3138-3/8	C-1107-3/8
PS-3138-31/2	C-1107-31/2
PS-3138-4	C-1107-4
PS-3164	T-614
PS-3281	N-8771
PS-3373	A-335
PS-349 Series	H-142-IN
PS-400	H-152
PS-400-2T3	H-152-A
PS-400-EH	H-152-OS
PS-400-H	H-152-RS
PS-400-KO6	H-152-KO
PS-400-SL	H-152-OS3
PS-4017 1/4	N-854
PS-4017 10-24	N-853
PS-4017 10-32	N-852
PS-4017 8-32	N-851
PS-449 Series	H-152-IN
PS-500	H-164
PS-500-2T3	H-164-A
PS-500-EH	H-164-OS
PS-500-H	H-164-RS
PS-500-KO6	H-164-KO
PS-500-SL	H-164-OS3
PS-600	H-179
PS-601	F-203

POWERSTRUT	H-STRUT
PS-601	H-179-A
PS-602	F-206-2
PS-603	A-302
PS-604	A-301
PS-606	A-306
PS-607	A-311
PS-608	A-318-R
PS-609	A-318-L
PS-611	A-322
PS-612	A-323
PS-613	B-601-3
PS-614	A-310
PS-615	A-313
PS-616	B-605
PS-617	F-207
PS-619-1/2	F-201-1/2
PS-619-3/4	F-201-3/4
PS-619-3/8	F-201-3/8
PS-619-5/8	F-201-5/8
PS-624	A-317
PS-631	B-609
PS-633-15	A-320-3
PS-633-221/2	A-320-2
PS-633-30	A-320-1
PS-633-371/2	A-319-6
PS-633-45	A-316
PS-633-521/2	A-319-5
PS-633-60	A-319-4
PS-633-671/2	A-319-3
PS-633-71/2	A-320-4
PS-633-75	A-319-2
PS-633-821/2	A-319-1
PS-644	B-607
PS-645	B-606
PS-646	B-608
PS-649	E-510-2
PS-651	T-610
PS-653	1001-EC2
PS-654	1001-EC3
PS-655	1000-EC-1
PS-656	1000-EC2
PS-660	A-311
PS-661-12	T-612-12
PS-661-6	T-612-6
PS-665	A-326
PS-667	A-326-1
PS-668	A-328
PS-669	A-328-1
PS-677	B-616
PS-679	B-601-6
PS-684	C-407
PS-685	C-406
PS-686	C-403
PS-687-A	B-602-1
PS-687-B	B-602-2

POWERSTRUT	H-STRUT
PS-687-C	B-602-3
PS-689-A	A-315
PS-689-B	A-315-1
PS-693	E-510-4
PS-694	E-510-3
PS-700	H-189
PS-701	H-189-A
PS-707	C-900
PS-708	T-615
PS-710	B-601-2
PS-711	A-323-42
PS-712	F-216
PS-714	F-213
PS-715	A-312
PS-718	F-210
PS-720	A-330
PS-721	B-610
PS-724	A-305
PS-744	F-211
PS-747	F-217
PS-748	A-309
PS-750	F-218
PS-756	A-324
PS-764	A-336-1
PS-781-15°	A-3194-15°
PS-781-221/2°	A-3194-221/2°
PS-781-30°	A-3194-30°
PS-781-371/2°	A-3194-371/2°
PS-781-45°	A-3194-45°
PS-781-52 1/2°	A-3194-521/2°
PS-781-60°	A-3194-60°
PS-781-671/2°	A-3194-671/2°
PS-781-71/2°	A-3194-71/2°
PS-781-75°	A-3194-75°
PS-781-821/2°	A-3194-821/2°
PS-791	E-513
PS-793-371/2°	A-3174-371/2°
PS-793-45°	A-3174-45°
PS-793-521/2°	A-3174-521/2°
PS-793-60°	A-3174-60°
PS-793-671/2°	A-3174-671/2°
PS-793-75°	A-3174-75°
PS-793-821/2°	A-3174-821/2°
PS-806	A-304
PS-809	T-611
PS-825-L	M-605-1-L
PS-825-R	M-605-1-R
PS-835-10-L	T-620-L-10
PS-838-10-R	T-620-R-10
PS-838-12-L	T-621-L-12
PS-838-12-R	T-621-R-12
PS-838-14-L	T-621-L-14
PS-838-14-R	T-621-R-14
PS-838-16-L	T-621-L-16
PS-838-16-R	T-621-R-16

TECHNICAL DATA - CROSS REFERENCE

POWERSTRUT	H-STRUT
PS-838-18-L	T-621-L-18
PS-838-18-R	T-621-R-18
PS-838-20-L	T-621-L-20
PS-838-20-R	T-621-R-20
PS-838-22-L	T-621-L-22
PS-838-22-R	T-621-R-22
PS-838-24-L	T-621-L-24
PS-838-24-R	T-622-R-24
PS-838-26-L	T-622-L-26
PS-838-26-R	T-622-R-26
PS-838-28-L	T-622-L-28
PS-838-28-R	T-622-R-28
PS-838-30-L	T-622-L-30
PS-838-30-R	R-622-R-30
PS-838-6-L	T-620-L-6
PS-838-6-R	T-620-R-6
PS-838-8-L	T-620-L-8
PS-838-8-R	T-620-R-8
PS-854	F-219
PS-855-1	C-401
PS-858-1/2	C-410-6
PS-858-3/8	C-410-4
PS-858-5/8	C-410-8
PS-86	H-1200
PS-86-X	N-1200
PS-865-1/2	C-411-3
PS-865-3/8	C-411-2
PS-888	F-205
PS-901	1000-EC3
PS-902	1000EC-7
PS-907	C-408-1/4
PS-913	A-327-1
PS-922	A-321
PS-923	A-327
PS-926-12	B-603-2
PS-927	A-314
PS-928	A-323-62
PS-930	1000-EC5
PS-942	E-510-5
PS-978	B-601-1
PS-993	B-615
PS-998	C-408-3/8
PSLS-1/2"	N-832
PSLS-1/4"	N-830
PSLS-3/4"	N-835
PSLS-3/8"	N-831
PSLS-5/8"	N-834
PSNS-1/2"	N-802
PSNS-1/4"	N-800
PSNS-3/4"	N-805
PSNS-3/8"	N-801
PSNS-5/16"	N-808
PSNS-5/8"	N-804
PSNS-7/8"	N-809
PSRS-1/2"	N-822
PSRS-1/4"	N-820
PSRS-3/4"	N-825
PSRS-3/8"	N-821
PSRS-5/16"	N-828
PSRS-5/8"	N-824
PSRS-7/8"	N-829
PSSS-1/2"	N-812
PSSS-1/4"	N-810
PSSS-3/8"	N-811
PSSS-5/16"	N-818
PSSS-5/8"	N-814
PSTG-1/2"	TSN-802
PSTG-1/4"	TSN-800
PSTG-3/8"	TSN-801
PSTG-5/16"	TSN-808

POWERSTRUT	H-STRUT

B-LINE	H-STRUT
B-11	H-112
B-11-1⁄8	H-112-RS
B-11-6KO	H-112-KO
B-11-A	H-112-A
B-11-S	H-112-OS3
B-11-SH	H-112-OS
B-12	H-122
B-12-1⁄8H	H-122-RS
B-12-6KO	H-122-KO
B-12-A	H-122-A
B-12-S	H-122-OS3
B-12-SH	H-122-OS
B-22	H-132
B-22-1	H-132-IN
B-22-1⁄8H	H-132-RS
B-22-6KO	H-132-KO
B-22-A	H-132-A
B-22-S	H-132-OS3
B-22-SH	H-132-OS
B-24	H-134
B-24-1⁄8H	H-134-RS
B-24-6KO	H-134-KO
B-24-A	H-134-A
B-24-S	H-134-OS3
B-24-SH	H-134-OS
B-32	H-142
B-32-1	H-142-IN
B-32-1⁄8H	H-142-RS
B-32-6KO	H-142-KO
B-32-A	H-142-A
B-32-S	H-142-OS3
B-32-SH	H-142-OS
B-42	H-152
B-42-1	H-152-IN
B-42-1⁄8H	H-152-RS
B-42-6KO	H-152-KO
B-42-A	H-152-A
B-42-S	H-152-OS3
B-42-SH	H-152-OS
B-52-1	H-162-IN
B-54	H-164
B-54-1	H-164-IN
B-54-1-6KO	H-164-KO
B-54-1⁄8	H-164-RS
B-54-A	H-164-A
B-54-S	H-164-OS3
B-54-SH	H-164-OS
B-62	H-179
B-62-A	H-179-A
B-72	H-189
B-72-A	H-189-A
B-101	A-301
B-103	A-306
B-104	A-311
B-105	A-322
B-106	A-323
B-107	B-601-3
B-107-22-A	B-601-6
B-110	A-324
B-112	A-315
B-113	A-315-1
B-116-12	B-601-4
B-116-32	B-601-2
B-116-32-A	B-601-5
B-116-42	B-601
B-118	A-309
B-119	A-326
B-121	A-326-1
B-122	A-328
B-123	A-328-1
B-126	A-310
B-127	A-313
B-129	F-203
B-132	F-216
B-133	F-213
B-135	F-211
B-136	F-217
B-139	F-207
B-140	F-210
B-141	F-206-2
B-142	F-218
B-143	F-214
B-144	A-318
B-147	A-319-1
B-148	A-319-2
B-149	A-319-3
B-150	A-319-4
B-151	A-319-5
B-152	A-319-6
B-154	A-316
B-155	A-317
B-162	A-320-1
B-163	A-320-2
B-164	A-320-3
B-165	A-320-4
B-166-46-12	E-510-1
B-166-46-22	E-510-2
B-166-46-32	E-510-3
B-166-46-42	E-510-4
B-166-46-52	E-510-5
B-167	B-608
B-168	B-606
B-169	B-607
B-170	B-609
B-171	B-604
B-172	B-605
B-174-SH-L	T-622-L-24
B-174-SH-R	T-622-R-24
B-175-SH-L	T-622-L-26
B-175-SH-R	T-622-R-26
B-176-SH-L	T-622-L-28
B-176-SH-R	T-622-R-28
B-177-SH-L	T-622-L-30
B-177-SH-R	T-622-R-30
B-194	T-615
B-198-12	T-612-12
B-198-6	T-612-6
B-198A-12	T-613-12
B-198A-6	T-613-6
B-200	F-201-5⁄16
B-201	F-201-3⁄8
B-201	F-201-1⁄2
B-202-1	F-201-5⁄8
B-202-2	F-201-3⁄4
B-203	1000-EC-3
B-204	1000-EC-5
B-205	1000-EC-1
B-206	1000-EC-2
B-207	1001-EC-1
B-208	1001-EC-2
B-209	1001-EC-3
B-211	C-406
B-212-1⁄4	C-408-1⁄4
B-212-3⁄8	C-408-3⁄8
B-214-L	M-605-1-L
B-214-R	M-605-1-R
B-217	C-900
B-221	1000-EC-6
B-222	1000-EC-7
B-223	1000-EC-8
B-230	A-302
B-231	A-303
B-235	A-330
B-243	A-3194-71⁄2
B-244	A-3194-15
B-245	A-3194-221⁄2
B-246	A-3194-30
B-247	A-3194-371⁄2
B-248	A-3194-45
B-249	A-3194-521⁄2
B-250	A-3194-60
B-251	A-3194-671⁄2
B-252	A-3194-75
B-253	A-3194-821⁄2
B-261-12	B-603-2
B-261-165⁄8	B-603-1
B-266	B-610
B-267	A-321
B-269	A-321-1
B-271	A-327
B-273	A-327-1
B-279	B-619
B-279-FL	B-619-FL
B-279-SQ	B-619-SQ
B-280	B-620

TECHNICAL DATA - CROSS REFERENCE

B-LINE	H-STRUT
B-280-FL	B-620-FL
B-280-SQ	B-620-SQ
B-281	B-620-A
B-281-A	B-619-A
B-281-AFL	B-619-AFL
B-281-ASQ	B-619-ASQ
B-281-FL	B-620-AFL
B-281-SQ	B-620-ASQ
B-297	T-611
B-303	C-410-1
B-304	C-410-2
B-305	C-410-3
B-306	C-410-4
B-307	C-410-5
B-308	C-410-6
B-309	C-410-7
B-314	C-401
B-321-1	C-411-2
B-321-2	C-411-3
B-333-1	B-602-1
B-333-2	B-602-2
B-333-3	F-602-3
B-334	F-220
B-337	F-212
B-340	F-204
B-341	F-205
B-349	B-611
B-350	B-612
B-351-1/2	C-405-2
B-351-3/8	C-405-1
B-355	C-403
B-357	A-312
B-358	B-615
B-359	A-338-1
B-360	A-338-2
B-361	A-338-3
B-363	A-3174-82 1/2
B-364	A-3174-75
B-365	A-3174-67 1/2
B-366	A-3174-60
B-367	A-3174-52 1/2
B-368	A-3174-45
B-369	A-3174-37 1/2
B-370	T-616
B-372	A-337
B-374	A-305
B-381	M-611-1
B-382	M-611-2
B-383	M-611-3
B-384	M-611-4
B-385	M-611-5
B-392-12	E-504-1
B-392-22	E-504-2
B-392-32	E-504-3
B-393	E-502
B-398	M-616
B-407-4R	A-340-4
B-407-5R	A-340-5
B-407-6	A-340-6
B-407-7	A-340-7
B-407-8	A-340-8
B-409	T-610
B-411-12	M-610-1
B-411-15	M-610-2
B-411-18	M-610-3
B-425	B-613
B-427	C-407
B-436	E-503
B-436-S	E-502-SN
B-441-22	C-402-132
B-441-22-A	C-402-122
B-447-1/2	E-501-1/2
B-447A-3/4	E-501-3/4
B-466	E-511
B-466-S	E-512
B-496	A-336-1
B-496-1	A-336
B-514-L	M-605-2-L
B-514-R	M-605-2-R
B-519	B-614
B-526	A-325
B-528	F-201
B-532	F-219
B-533	A-314
B-557	F-206-1
B-560	M-602
B-562	M-601
B-586	A-341
B-588	B-601-7
B-613	C-412
B-616	E-505
B-616-A	E-505-H
B-619	E-513
B-751	C-404
B-844	A-335
B-2000	C-1100-3/8
B-2001	C-1100-1/2
B-2002	C-1100-3/4
B-2003	C-1100-1
B-2004	C-1100-1 1/4
B-2005	C-1100-1 1/2
B-2006	C-1100-2
B-2007	C-1102-3/8
B-2008	C-1102-1/2
B-2009	C-1102-3/4
B-2010	C-1102-1
B-2011	C-1102-1 1/4
B-2012	C-1102-1 1/2
B-2013	C-1101-23/8 OD
B-2013	C-1102-2
B-2014	C-1102-2 1/2
B-2014	C-1101-27/8 OD
B-2015	C-1102-3
B-2015	C-1101-31/2 OD
B-2016	C-1102-3 1/2
B-2016	C-1101-4 OD
B-2017	C-1102-4
B-2017	C-1101-41/2 OD
B-2018	C-1101-5 OD
B-2019	C-1102-5
B-2020	C-1102-6
B-2020	C-1101-65/8
B-2022	C-1102-8
B-2023	C-1101-1/4 OD
B-2024	C-1101-3/8 OD
B-2025	C-1101-1/2 OD
B-2026	C-1101-5/8 OD
B-2027	C-1101-3/4 OD
B-2028	C-1101-7/8 OD
B-2029	C-1101-1 OD
B-2030	C-1101-1 1/8 OD
B-2031	C-1101-1 1/4 OD
B-2032	C-1101-13/8 OD
B-2033	C-1101-1 1/2 OD
B-2034	C-1101-15/8 OD
B-2035	C-1101-13/4 OD
B-2036	C-1101-17/8 OD
B-2037	C-1101-2 OD
B-2038	C-1101-21/8 OD
B-2039	C-1101-21/4 OD
B-2041	C-1101-21/2 OD
B-2042	C-1101-25/8 OD
B-2043	C-1101-23/4 OD
B-2045	C-1101-3 OD
B-2046	C-1101-31/8 OD
B-2047	C-1101-31/4 OD
B-2048	C-1101-33/8 OD
B-2050	C-1101-35/8 OD
B-2051	C-1101-33/4 OD
B-2052	C-1101-37/8 OD
B-2054	C-1101-41/8 OD
B-2055	C-1101-41/4 OD
B-2056	C-1101-43/8 OD
B-2058	C-1101-45/8 OD
B-2059	C-1101-43/4 OD
B-2060	C-1101-47/8 OD
B-2062	C-1101-51/8 OD
B-2063	C-1101-51/4 OD
B-2064	C-1101-53/8 OD
B-2065	C-1101-51/2 OD
B-2066	C-1101-55/8 OD
B-2067	C-1101-53/4 OD
B-2068	C-1101-57/8 OD
B-2069	C-1101-6 OD
B-2070	C-1107-3/8

B-LINE	H-STRUT
B-2071	C-1107-1/2
B-2072	C-1107-3/4
B-2073	C-1107-1
B-2074	C-1107-1 1/4
B-2075	C-1107-1 1/2
B-2076	C-1107-2
B-2077	C-1107-2 1/2
B-2078	C-1107-3
B-2079	C-1107-3 1/2
B-2080	C-1107-4
B-2084	C-1109-1/4
B-2085	C-1109-5/16
B-2086	C-1109-3/8
B-2087	C-1109-1/2
B-2088	C-1109-5/8
B-2089	C-1109-3/4
B-2090	C-1109-7/8
B-2091	C-1109-1
B-2110	C-1101-61/8
B-2111	C-1101-61/4
B-2112	C-1101-63/8
B-2113	C-1101-61/2
B-2115	C-1101-63/4
B-2116	C-1101-67/8
B-2117	C-1101-7
B-2118	C-1101-71/8
B-2120	C-1101-73/8
B-2121	C-1101-75/8
B-2124	C-1101-77/8
B-2125	C-1101-8
B-2207	C-1104-3/8
B-2208	C-1104-1/2
B-2209	C-1104-3/4
B-2210	C-1104-1
B-2211	C-1104-1 1/4
B-2212	C-1104-1 1/2
B-2213	C-1104-2
B-2400	C-1108
B-2500	H-1200
BVT-025	C100025
BVT-037	C100037
BVT-050	C100050
BVT-062	C100062
BVT-075	C100075
BVT-087	C100087
BVT-112	C100112
BVT-137	C100137
BVT-162	C100162
BVT-262	C100262
BVT-312	C100312
BVT-362	C100362
BVT-412	C100412
N-223	N-828
N-223-WO	N-808
N-224	N-820
N-224-WO	N-800
N-225	N-822
N-225-WO	N-802
N-228	N-821
N-228-WO	N-801
N-255	N-824
N-255-WO	N-804
N-275	N-825
N-278	N-829
N-278-WO	N-809
N-523	N-818
N-524	N-810
N-525	N-812
N-528	N-811
N-555	N-814
N-555-WO	N-806
N-575	N-815
N-575-WO	N-807
N-621	N-861
N-621-WO	N-841
N-622	N-863
N-622-WO	N-843
N-624	N-864
N-624-WO	N-844
N-723	N-838
N-724	N-830
N-725	N-832
N-728	N-831
N-755	N-834
N-775	N-835
N-2500-1/2	N-1200-1/2
N-2500-1/4	N-1200-1/4
N-2500-3/8	N-1200-3/8
N-2500-5/8	N-1200-5/8
N-2500-7/8	N-1200-7/8
N-7221	N-851
N-7222	N-853
N-7224	N-854
TN-223	TSN-808
TN-224	TSN-800
TN-225	TSN-802
TN-228	TSN-801

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G-1012	H-152
G-1012-A	H-152-A
G-1012-KO	H-152-KO
G-1012-PO	H-152-RS
G-1012-SH	H-152-OS
G-1012-SL	H-152-OS3
G-1032	N-820
G-1033	N-828
G-1034	N-821
G-1035	N-822
G-1036	N-824
G-1037	N-825
G-1132	N-800
G-1133	N-808
G-1134	N-801
G-1135	N-803
G-1136	N-804
G-1137	N-805
G-1232	N-810
G-1233	N-818
G-1234	N-811
G-1235	N-812
G-1236	N-814
G-1237	N-815
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G-1336	N-806
G-1337	N-807
G-1432	N-830
G-1434	N-831
G-1435	N-833
G-1436	N-834
G-1437	N-835
G-1531	N-851
G-1532	N-852
G-1533	N-853
G-1534	N-854
G-1613	N-861
G-1619	H-179
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G-1632	N-862
G-1633	N-863
G-1634	N-864
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G-2017	F-206-2
G-2023	F-205
G-2032	F-207
G-2037	F-210
G-2042	F-213
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G-2052	F-217
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G-3006	A-302
G-3007	A-338-1
G-3013	A-337
G-3014	A-336-1
G-3018	A-304
G-3022	A-305
G-3024	A-306
G-3033	A-311
G-3040	A-312
G-3043	A-330-R
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G-3059	A-310
G-3060	A-309
G-3063	A-313
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G-3068	A-315-1
G-3072	A-318-L
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G-3087	A-326
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G-4003	B-607
G-4006	B-606
G-4007	B-604
G-4010	B-605
G-4011	B-608
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G-4022	B-602-1
G-4023	B-602-2
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G-4036	B-610
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TERMS & CONDITIONS OF SALE

These terms and conditions of sale supersede all previous listings. No order shall be binding upon us until accepted in writing by an authorized official at our home office. Goods are tendered or delivered and work is undertaken in every case only upon and subject to these terms and conditions. We shall not be liable for any delay or default in performance due to any cause arising or attributable to any event or omission beyond our reasonable control. All prices herein are suggested prices.

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Terms:

Invoices are due and payable on net 30 days basis, unless otherwise agreed to in writing. Failure to make payment when due shall entitle us to suspend further deliveries or to cancel a contract.

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Specifications and dimensions are subject to change without notice. We do not warrant the compliance of our products to specifications other than our own.

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This warranty is directed solely to those buyers purchasing our products for use in the fabrication and/or construction of products for sale to others. Nothing herein shall be construed to extend this warranty to "Consumers". Our products are warranted against defect in manufacturing for a period of one year. This warranty is limited to the replacement of defective parts, or refund of the purchase price at our discretion. This is the buyers sole and exclusive remedy and we shall not be liable for labor charges and/or other damages or expense arising from the use of defective material, for any damage, consequential or otherwise, of any kind.

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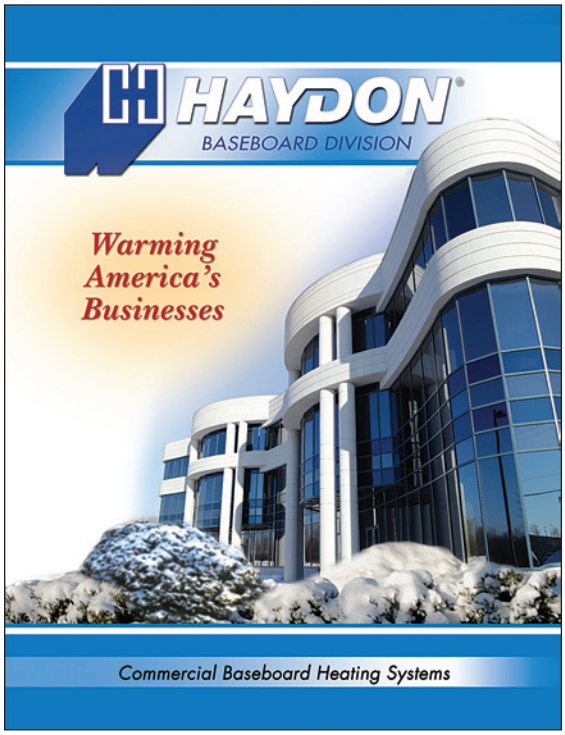

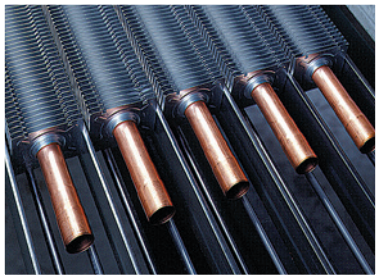

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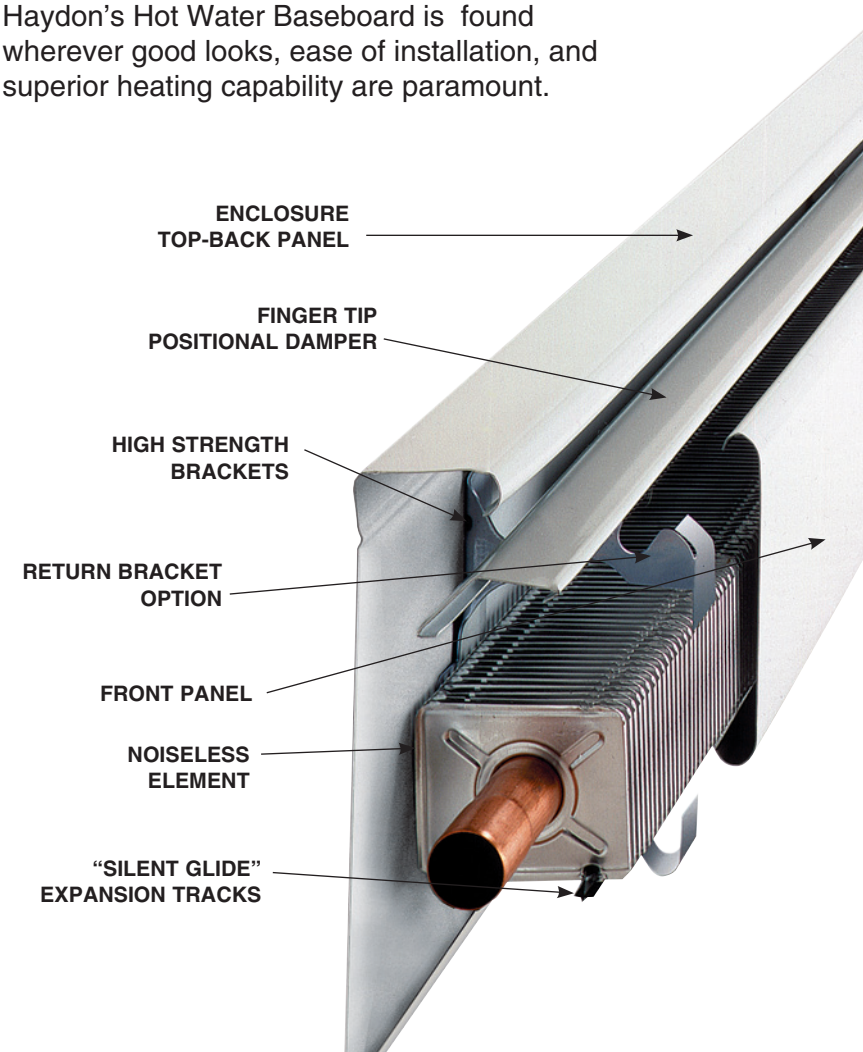

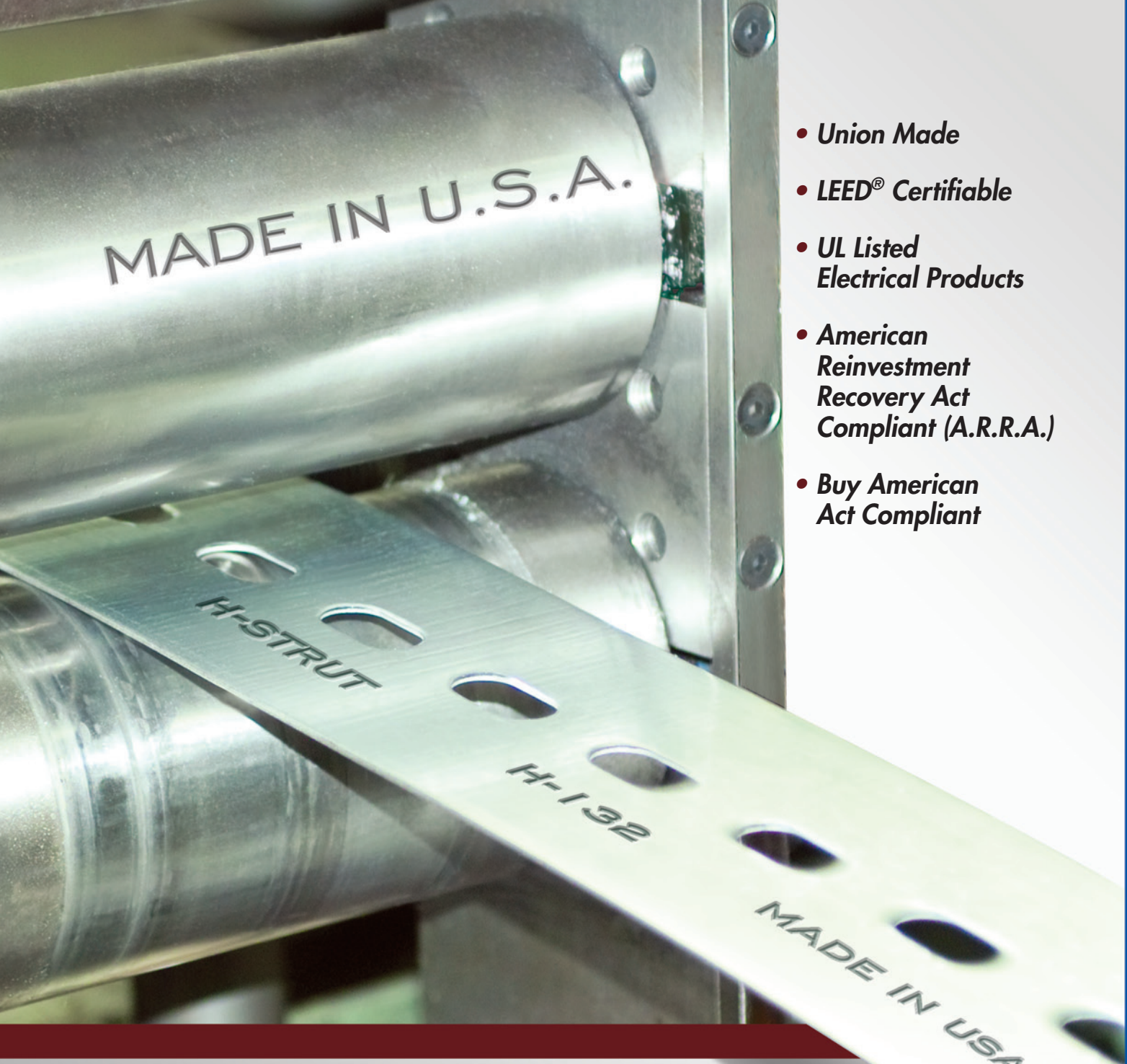

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