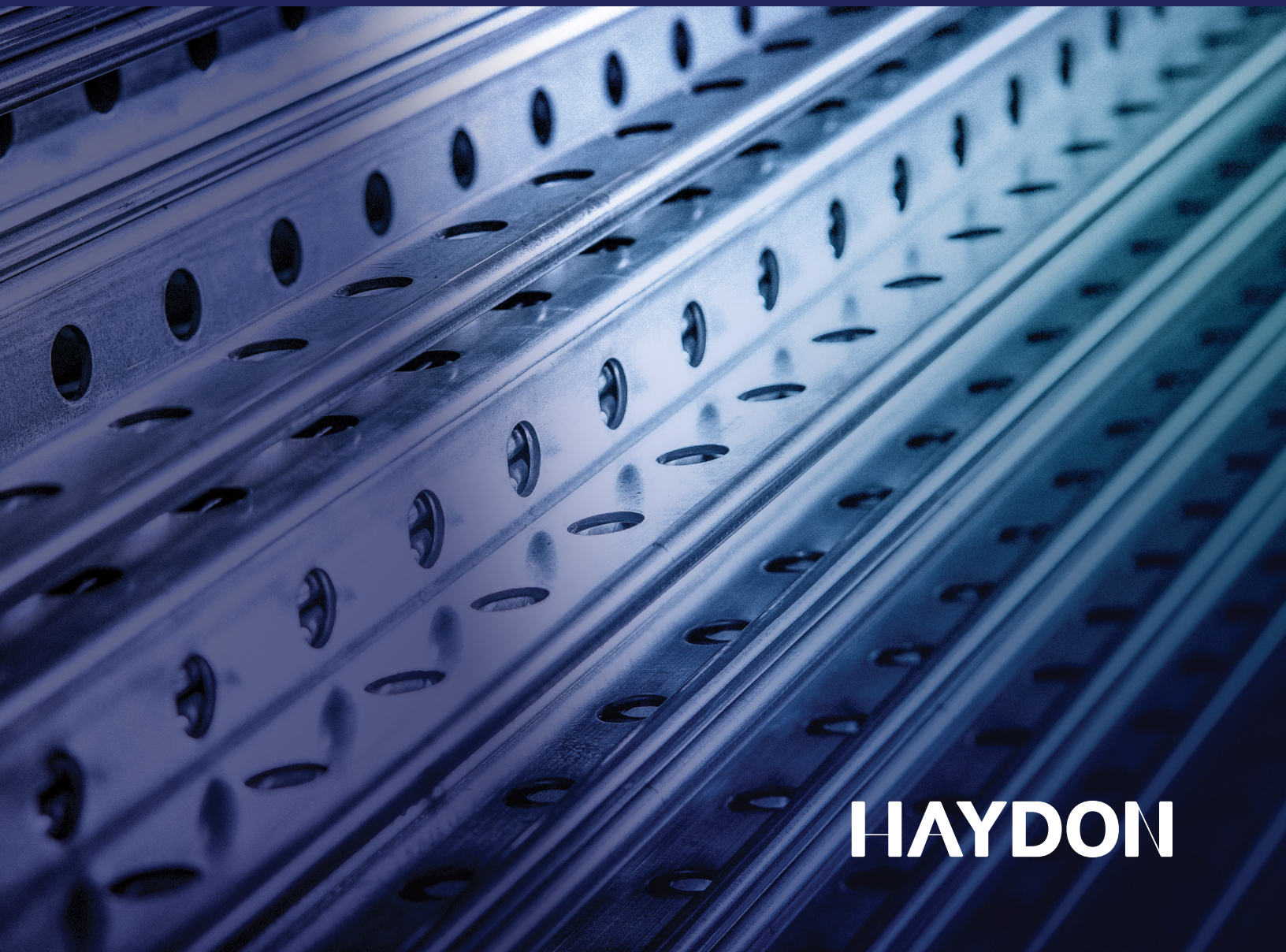
JANUARY 2025 | NO. 19

H-STRUT® Engineering Catalog



HAYDON

PROUDLY MANUFACTURING WITH ONLY US-MADE STEEL COILS

HAYDON

US-Owned, US-Based National Steel Channel Manufacturer

Haydon Corporation is a US-owned, US-based national manufacturer of high-quality metal framing, rooftop support and baseboard heating systems for various commercial, residential, infrastructure and industrial construction applications. A committed family company, Haydon provides a local supplier's personal and flexible approach with a national leader's broad capabilities and reach.

With a dedicated and knowledgeable team and manufacturing locations in California, New Jersey, Ohio and Texas, Haydon is strategically positioned to provide exceptional service to the market. Committed to the highest ethical standards, the people-first culture is the heart of who Haydon is and how we do business. Through unwavering customer partnerships and continuous improvement since its establishment in 1956, Haydon's product offerings have evolved to meet customer and market needs. From the manufacturing floor and beyond, Haydon seeks to realize untapped potential and promises to bring the spark to create lasting community impact, solve real problems in the construction industry and generate positive sustainable change. To learn more visit **haydoncorp.com**.

Products Overview

H-STRUT® Metal Framing

Available in a series of sizes and welded combinations to meet all structural requirements, the H-Strut Metal Framing System provides a firm anchorage to the building structure or any other type of support applications including walls, ceilings and floors. The H-Strut Metal Framing System can also be custom cut to meet the job's specific needs to ensure the system is strong and fit for the application.

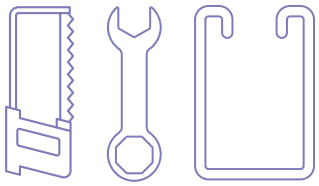
Fittings & Accessories

Available in domestically manufactured or imported solutions, Haydon offers a wide range of fittings and accessories designed to enhance the versatility and efficiency of our H-Strut channel. Our catalog includes everything from pipe and conduit clamps to beam clamps, brackets and specialty hangers, providing secure and flexible solutions for mounting and stabilizing various components. With a variety of sizes, styles and finishes available, our fittings support a range of applications across electrical, mechanical and other construction projects. Engineered for durability, these fittings are ideal for both light- and heavy-duty use, ensuring compatibility with our full line of strut products.

H-BLOCK® Rooftop Supports

It's the cost-effective solution that is compatible with most rooftop materials and configurations and provides robust support to the largest rooftops, grounds, tunnels, crosswalks, bridges and specialty OEM applications. The rooftop support base is weather resistant and made with 100% recycled tires for long-term sustainability. They come pre-assembled or custom configured for easy handling and installation, so no need for special tools or other large equipment.

A Saw, A Wrench and H-STRUT®



The H-Strut Metal Framing System offers a complete line of strut channel and fittings designed to be used in a wide variety of construction applications. The broad range of material and coating options allows it to be used in many indoor or outdoor applications, and also in many harsh and chemical environments.

The system is also designed to be used on rooftops with our H-BLOCK® bases to support piping, ducts, walkways, mezzanines, guardrails and more. The H-Strut system is also ideal for a multitude of OEM applications, including scaffolding, conveyors, electronic enclosures, automotive parts and more.

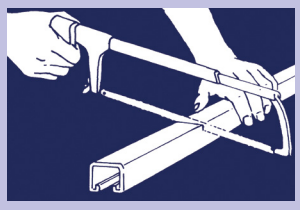
No Drilling, No Welding, No Special Tools

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

With H-Strut channel and fittings, support systems can be quickly erected in unlimited configurations to meet all your requirements. The H-Strut system can be used for trapeze supports, MEP supports, ceiling grids, support frames, racks, DIY projects, seismic bracing and much more. H-Strut concrete inserts can also be anchored into concrete, providing an embedded continuous channel for flush mounting to floors, walls or ceilings.

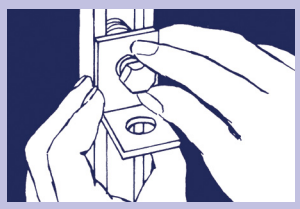
This catalog is intended to show the standard H-Strut line of strut channel, fittings and accessories. Haydon also provides many other products, coatings, assemblies, kits, customized parts and services that are not included in this catalog. Please reach out to Haydon if you have any special requests.

Our engineering department would be happy to assist you with any technical support, design guidance or other questions that you may have. Please visit our website at **haydoncorp.com** or email us at **engineering@haydoncorp.com**.

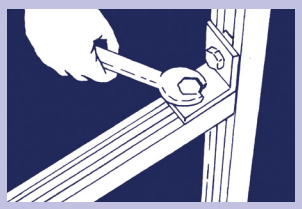


1. Fabrication with H-Strut is simple and fast. First, cut the strut channel to the desired length with a saw or shear cutter.

2. Next, insert the channel nut into the channel slot and turn clockwise 90°. A spring nut will hold itself in place. The nut may be slid to any desired location along the entire length of the channel allowing total adjustability.



3. Select the desired fitting for your assembly, position its hole over the channel nut and insert a cap screw.



4. Finally, tighten the screw using a torque wrench or torque driver to the specified installation torque. This causes the channel nut's serrated teeth to bite into the channel lips, creating a strong, structural connection.

HAYDON

H-STRUT® Engineering Catalog

January 2025 | No. 19

1-800-242-9366
contactus@haydoncorp.com
haydoncorp.com

Tel: 973-904-0800 (local)
Fax: 973-904-0016 (fax)

Locations

California

1627 Army Court
Stockton, CA 95206

New Jersey

415 Hamburg Turnpike
Wayne, NJ 07470

Ohio

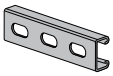
4847 Gray Lane
Stow, OH 44224

Texas

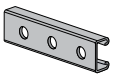
1139 West Carrier Parkway
Grand Prairie, TX 75050

Pictorial Index

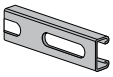
Channel



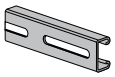
H-172-OS 29
Channel w/ Slots
Size: 7/8" x 1 5/8" x 12 GA
9/16" x 1 1/8" Slots on 2" Centers



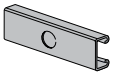
H-172-RS 29
Channel w/ Holes
Size: 7/8" x 1 5/8" x 12 GA
9/16" Holes on 1 7/8" Centers



H-172-OS2.5 29
Channel w/ Slots
Size: 7/8" x 1 5/8" x 12 GA
11/16" x 2 1/2" Slots on 4" Centers

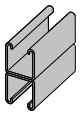


H-172-OS3 29
Channel w/ Long Slots
Size: 7/8" x 1 5/8" x 12 GA
13/32" x 3" Slots on 4" Centers

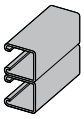


H-172-KO 29
Channel w/ Knockouts
Size: 7/8" x 1 5/8" x 12 GA
7/8" Knockouts on 6" Centers

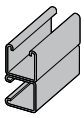
Welded Channel



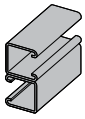
Suffix A 31
Welded Channel
Welded Back-to-Back



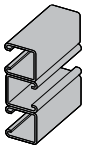
Suffix B 31
Welded Channel
Welded Side-to-Side



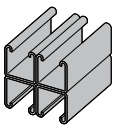
Suffix C 31
Welded Channel
Welded Side-to-Back



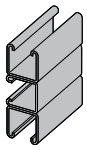
Suffix D 31
Welded Channel
Welded Side-to-Opposite-Side



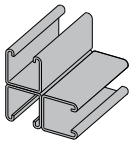
Suffix D3 31
Welded Channel
Welded Side-to-Opp.-
Side-to-Opp.-Side



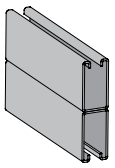
Suffix A4 31
Welded Channel
Welded Back-to-Back
Quad



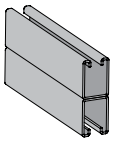
Suffix C3 31
Welded Channel
Welded Back-to-Side-to-Back



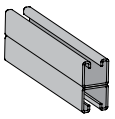
Suffix CA3 31
Welded Channel
Welded Back-to-Side-to-Back



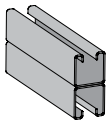
H-112-A 32
Welded Channel
Size: 6 1/2" x 1 5/8" x 12 GA
Two Pcs. Welded Back-to-Back



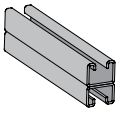
H-122-A 33
Welded Channel
Size: 4 7/8" x 1 5/8" x 12 GA
Two Pcs. Welded Back-to-Back



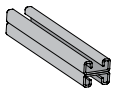
H-132-A 34
Welded Channel
Size: 3 1/4" x 1 5/8" x 12 GA
Two Pcs. Welded Back-to-Back



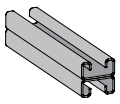
H-134-A 35
Welded Channel
Size: 3 1/4" x 1 5/8" x 14 GA
Two Pcs. Welded Back-to-Back



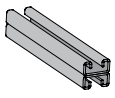
H-142-A 36
Welded Channel
Size: 2 3/4" x 1 5/8" x 12 GA
Two Pcs. Welded Back-to-Back



H-162-A 37
Welded Channel
Size: 1 5/8" x 1 5/8" x 12 GA
Two Pcs. Welded Back-to-Back

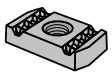


H-164-A 38
Welded Channel
Size: 1 5/8" x 1 5/8" x 14 GA
Two Pcs. Welded Back-to-Back

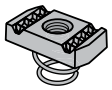


H-172-A 39
Welded Channel
Size: 1 3/4" x 1 5/8" x 12 GA
Two Pcs. Welded Back-to-Back

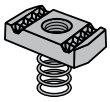
Channel Nuts & Hardware



N-800 Series 42
Without Spring
Use with all 1 5/8" wide channel

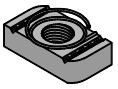


N-810 Series 42
Short Spring
Use with H-164, H-172



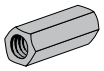
N-820 Series 42
Regular Spring
Use with H-132, H-134, H-142

N-830 Series 42
Long Spring
Use with H-112, H-122

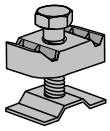


TSN-800 Series 42
Top Spring
Use with all 1 5/8" wide channel

All-Thread Rod 43



Rod Couplers 43



N-8700 43
Seismic Rod Stiffener

Pipe & Conduit Clamps

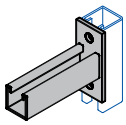
Flat Plates

Angle Brackets

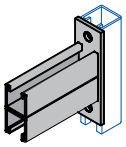
Specialty Fittings

Beam Clamps

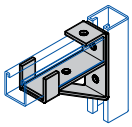
Brackets



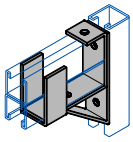
T-610 76
Single Channel Bracket



T-611 76
Double Channel Bracket

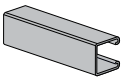


T-615 76
Single Channel
Bracket Support

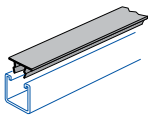


T-616 76
Double Channel
Bracket Support

Electrical

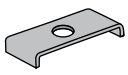


Surface Metal Raceways 79
H-132 & H-132-KO

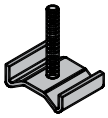


C-900 80
Closure Strip

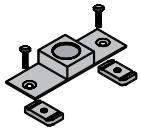
E-502 80
Aluminum Wire Stud



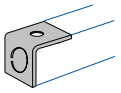
E-503 80
Fluorescent
Fixture Nut



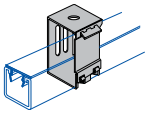
E-503-SN 80
Fixture Stud Nut



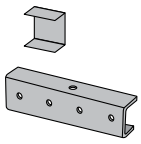
E-501 81
Conduit Connector Plate



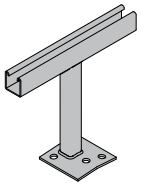
E-504 83
Conduit End Cap



E-505 84
Snap-Type
Raceway Hanger

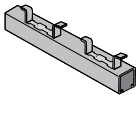


E-510 85
Four Hole Splice Clevis
with Splice Clip

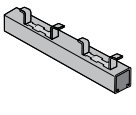


PS-7000 Series 86
Pole Separator

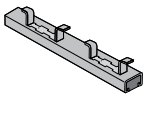
Concrete Inserts & Accessories



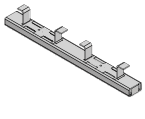
H-132-IN 88
Concrete Insert



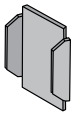
H-142-IN 89
Concrete Insert



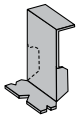
H-164-IN 90
Concrete Insert



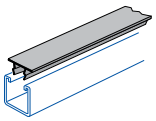
H-172-IN 91
Concrete Insert



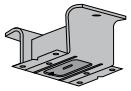
1000 Series 92
End Cap



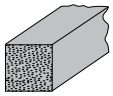
1001 Series 92
End Cap



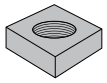
C-900P 92
Plastic Closure Strip



H-1200 92
Spot Insert

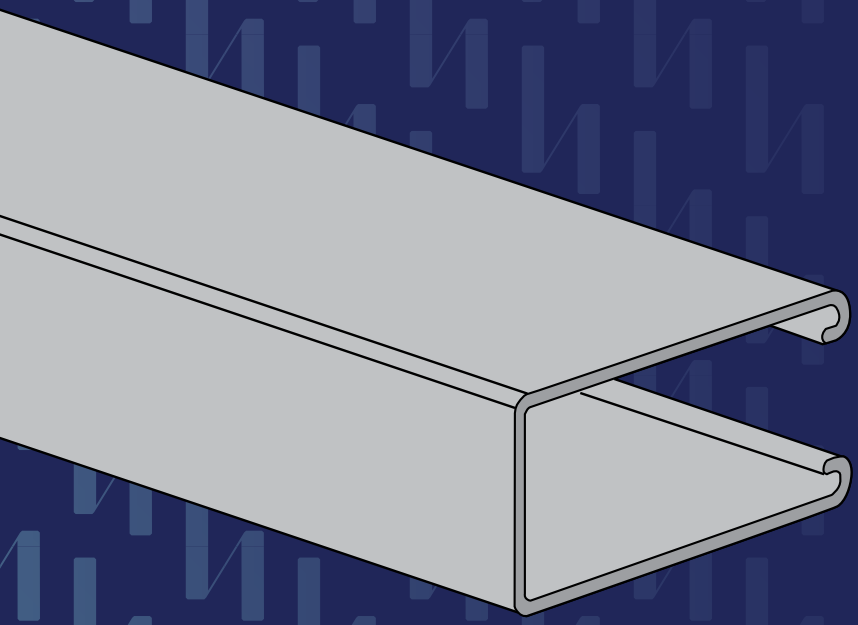


Foam Filler 92



N-1200 92
Square Nut for Spot Insert

Channel



SPECIFICATIONS

General

H-STRUT® channels are manufactured from high quality, domestically sourced structural steel and roll formed into shape. These products comply with MFMA-4 standards, and beam and column load tables are calculated in accordance with the AISI North American Specification for the Design of Cold-Formed Steel Structural Members, 2016 Edition.

Length Information

H-Strut channels are produced in standard 10' and 20' lengths with a tolerance of ±⅛". Other lengths are available upon request.

Loading Data

1. Load capacities in this section include a safety factor (to the yield strength) of 1.68 for beam loads and 1.80 for column loads.
2. When calculating load at center of span, multiply load from table by 0.5 and deflection by 0.8.
3. When calculating beam and column loads for aluminum, multiply by 33%.

Material

H-Strut channels are produced from prime structural metals covered by the following specifications.

- Pre-Galvanized Steel . . . . . ASTM A653 SS Grade 33, G90
- Plain Steel . . . . . ASTM A1011 SS Grade 33
- Stainless Steel (Type 304 or 316/316L) . . . . . ASTM A240
- Aluminum (Type 6063-T6) . . . . . ASTM B221

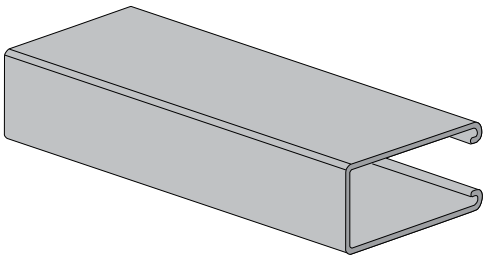
Other materials and specifications are available upon request.

Finishes

H-Strut is available in the following finishes. Other finishes may be available upon request.

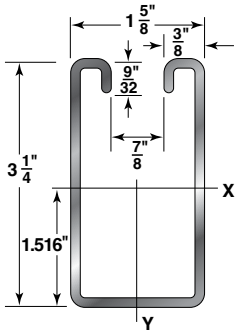
- Pre-Galvanized Steel . . . . . ASTM A653 SS Grade 33, G90
- Hot-Dip Galvanized . . . . . ASTM A123
- Zinc Trivalent Chromium (ZTC) . . . . . ASTM B633
- Powder-Coated

H-112



3 1/4" X 1 5/8"
12 Gauge Channel
Weight/100 ft - 313 lbs

H-112 is Haydon's strongest channel profile. At twice the height of the standard 1 5/8" channel, it offers a large load capacity for heavy-duty applications. This product is commonly used for heavy loads, long spans and columns. It is available "slotted" or with several other pre-punched hole and weld configurations.



Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-112	3.13	0.897	1.114	0.643	1.115	0.434	0.535	0.696	1.516

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

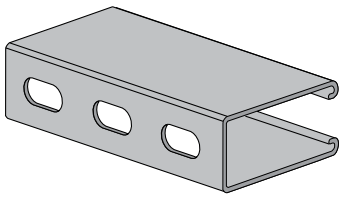
Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	5,350	0.03	5,350	5,350	5,350	6.3	5,750	16,860	15,170	12,820	10,560	1.00
36	3,570	0.07	3,570	3,570	3,570	9.4	4,800	13,110	10,560	7,580	5,600	0.95
48	2,670	0.12	2,670	2,670	2,670	12.5	3,660	9,500	6,800	4,740	3,610	0.86
60	2,140	0.18	2,140	2,140	1,910	15.7	2,850	6,620	4,740	3,400	2,660	0.77
72	1,780	0.26	1,780	1,780	1,330	18.8	2,290	4,930	3,610	2,660	2,130	0.68
84	1,530	0.36	1,530	1,470	980	21.9	1,910	3,900	2,910	2,200	1,780	0.60
96	1,330	0.47	1,330	1,120	750	25.0	1,630	3,220	2,450	1,880	1,540	0.53
108	1,190	0.59	1,180	890	590	28.2	1,440	2,750	2,130	1,660	1,360	0.48
120	1,070	0.73	960	720	480	31.3	1,290	2,410	1,880	1,480	**	0.44
144	890	1.05	660	500	330	37.6	1,080	1,940	1,540	**	**	0.39
168	760	1.43	490	370	240	43.8	940	1,640	1,310	**	**	0.36
192	660	1.85	370	280	190	50.1	**	1,420	**	**	**	0.33
216	590	2.36	300	220	150	56.3	**	**	**	**	**	0.31
240	530	2.90	240	180	120	62.6	**	**	**	**	**	0.29

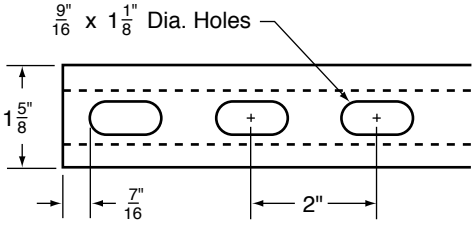
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

Notes:

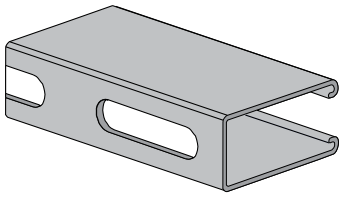
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:
   - OS by 88%
   - OS2.5 by 86%
   - OS3 by 90%
   - RS (9/16 holes) by 88%
   - KO by 82%

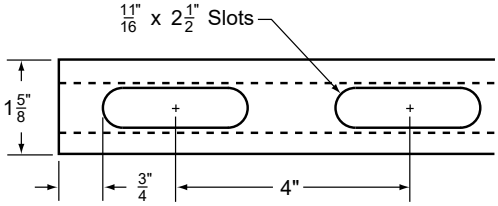
H-112-OS (Weight/100 ft - 308 lbs)



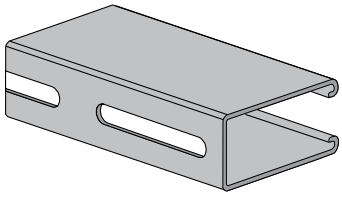


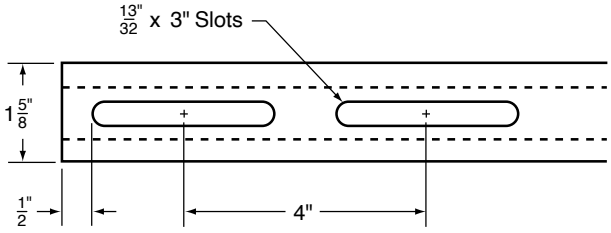
H-112-OS2.5 (Weight/100 ft - 299 lbs)



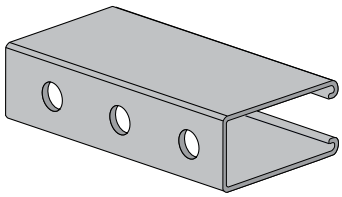


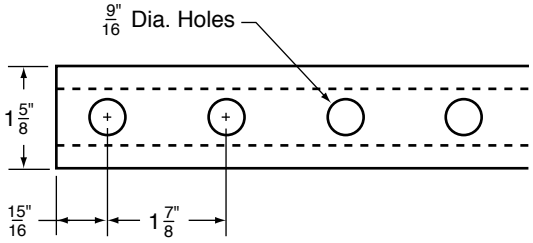
H-112-OS3 (Weight/100 ft - 298 lbs)



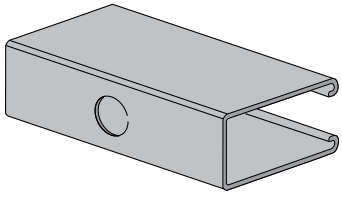


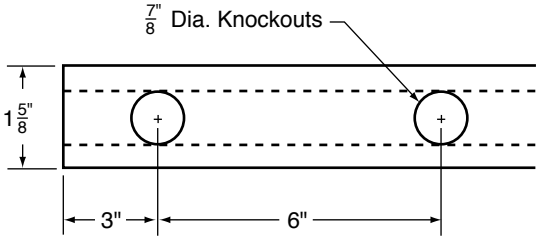
H-112-RS (Weight/100 ft - 308 lbs)



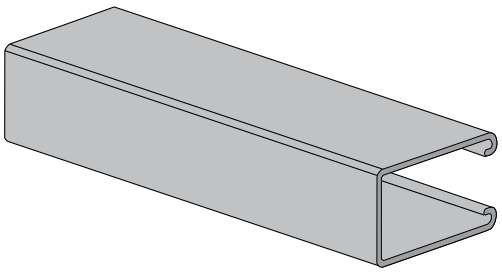


H-112-KO (Weight/100 ft - 313 lbs)



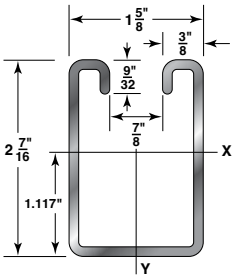


H-122



$2\frac{7}{16}$" X $1\frac{5}{8}$"
12 Gauge Channel
Weight/100 ft - 254 lbs

H-122 is a heavy-duty channel capable of carrying heavy loads. This product is commonly used for heavy applications and supporting over long spans. It is available “slotted” or with several other pre-punched hole and weld configurations.



Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-122	2.54	0.728	0.532	0.403	0.855	0.336	0.414	0.68	1.117

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

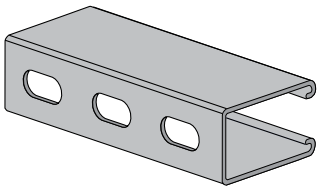
Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	3,350	0.04	3,350	3,350	3,350	5.1	4,740	13,860	12,580	10,820	9,150	1.00
36	2,230	0.09	2,230	2,230	2,230	7.6	4,110	11,040	9,150	6,960	5,290	0.98
48	1,670	0.15	1,670	1,670	1,430	10.2	3,300	8,370	6,310	4,550	3,570	0.91
60	1,340	0.24	1,340	1,340	910	12.7	2,670	6,170	4,550	3,390	2,720	0.85
72	1,110	0.34	1,110	950	640	15.2	2,250	4,710	3,570	2,720	2,210	0.80
84	950	0.47	930	700	470	17.8	1,940	3,820	2,950	2,280	1,870	0.75
96	830	0.61	710	540	360	20.3	1,710	3,220	2,520	1,970	1,620	0.71
108	740	0.77	560	420	280	22.9	1,550	2,800	2,210	1,740	1,420	0.68
120	670	0.96	460	340	230	25.4	1,410	2,480	1,970	1,550	**	0.65
144	550	1.36	320	240	160	30.5	1,190	2,030	1,620	**	**	0.59
168	470	1.85	230	170	120	35.6	1,020	1,720	1,360	**	**	0.54
192	410	2.41	180	130	90	40.6	**	1,480	**	**	**	0.50
216	370	3.09	140	110	70	45.7	**	**	**	**	**	0.47
240	330	3.78	110	90	60	50.8	**	**	**	**	**	0.44

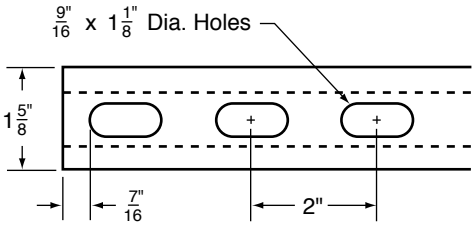
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

Notes:

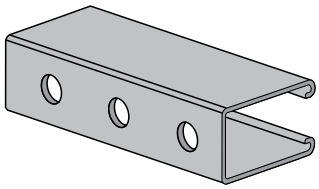
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:
   - OS by 88%
   - RS ($\frac{9}{16}$ holes) by 88%
   - OS2.5 by 86%
   - OS3 by 90%
   - KO by 82%

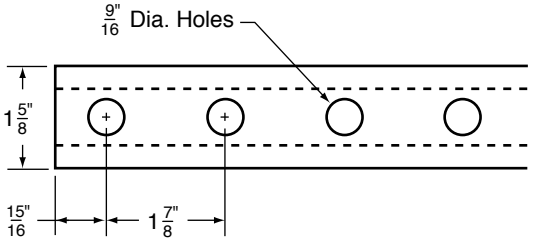
H-122-OS (Weight/100 ft - 249 lbs)



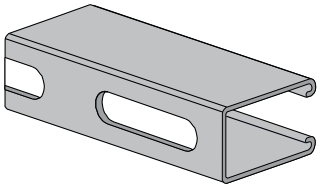


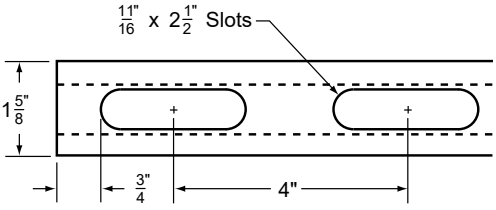
H-122-RS (Weight/100 ft - 249 lbs)



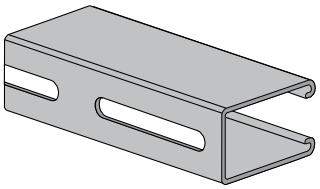


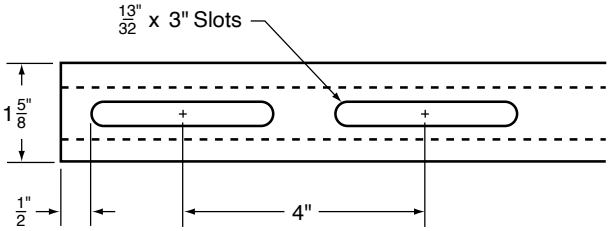
H-122-OS2.5 (Weight/100 ft - 240 lbs)



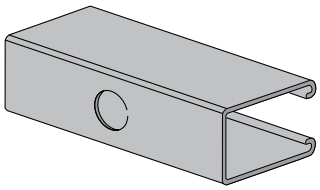


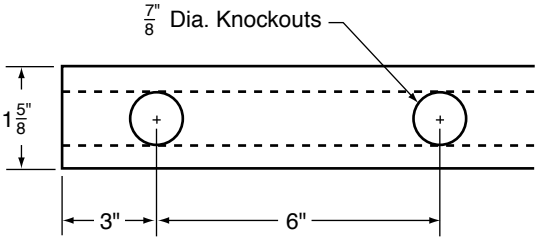
H-122-OS3 (Weight/100 ft - 239 lbs)



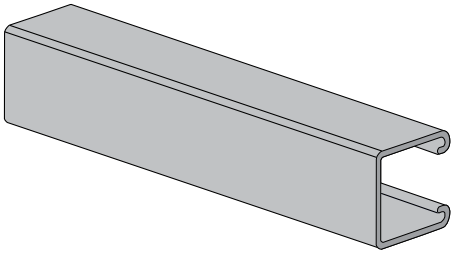


H-122-KO (Weight/100 ft - 254 lbs)





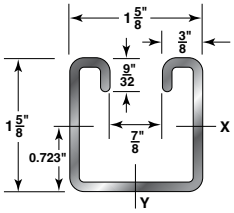
H-132



1 5/8" X 1 5/8"
12 Gauge Channel
Weight/100 ft - 194 lbs

H-132 strut is the most common, and typically the standard, 12 gauge channel specified for numerous applications. Sometimes known as “deep” strut, it is commonly used for MEP supports, trapeze, seismic bracing and many other applications. It is available “slotted” or with several other pre-punched hole and weld configurations.

Section Properties



Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-132	1.94	0.559	0.19	0.211	0.583	0.239	0.294	0.653	0.723

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

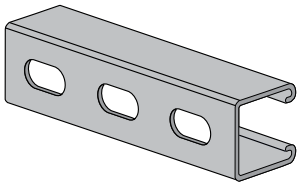
Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	1,750	0.06	1,750	1,750	1,750	3.9	3,670	10,790	9,920	8,770	7,700	1.00
36	1,170	0.13	1,170	1,170	910	5.8	3,320	8,910	7,700	6,330	5,220	1.00
48	870	0.22	870	770	510	7.8	2,900	7,210	5,930	4,600	3,720	0.98
60	700	0.35	650	490	330	9.7	2,510	5,840	4,600	3,560	2,900	0.95
72	580	0.50	450	340	230	11.6	2,200	4,740	3,720	2,900	2,360	0.93
84	500	0.69	330	250	170	13.6	1,970	3,960	3,130	2,430	1,950	0.91
96	430	0.88	260	190	130	15.5	1,760	3,400	2,700	2,080	1,650	0.89
108	390	1.14	200	150	100	17.5	1,610	2,980	2,360	1,790	**	0.87
120	350	1.40	160	120	80	19.4	1,470	2,650	2,080	**	**	0.86
144	290	2.01	110	90	60	23.3	1,230	2,140	1,650	**	**	0.83
168	250	2.75	80	60	40	27.2	**	1,770	**	**	**	0.80
192	210	3.45	60	50	NR	31.0	**	**	**	**	**	0.75
216	190	4.45	50	40	NR	34.9	**	**	**	**	**	0.68
240	170	5.46	40	NR	NR	38.8	**	**	**	**	**	0.62

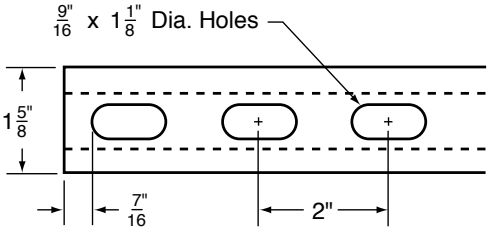
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

Notes:

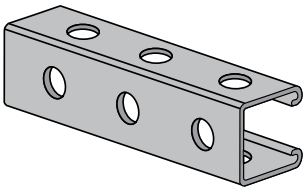
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%
3. The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:
   - OS by 88%
   - RS3 (9/16 holes) by 88%
   - RS (9/16 holes) by 88%
   - OS2.5 by 86%
   - OS3 by 90%
   - KO by 82%

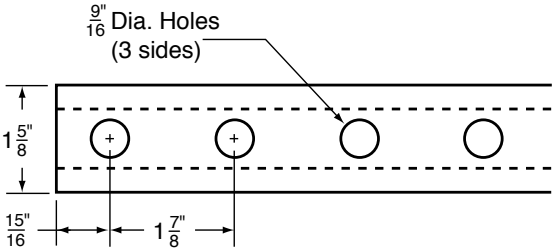
H-132-OS (Weight/100 ft - 189 lbs)



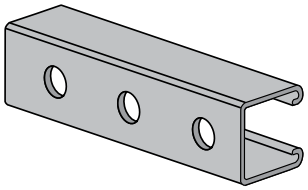


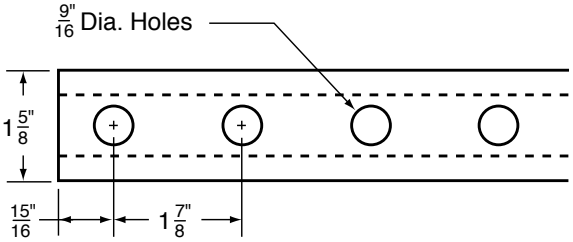
H-132-RS3 (Weight/100 ft - 179 lbs)



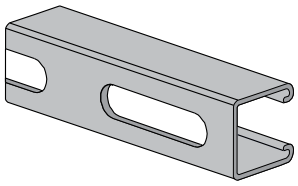


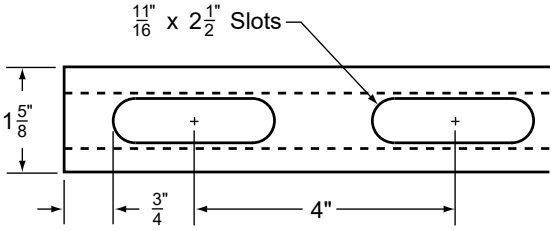
H-132-RS (Weight/100 ft - 189 lbs)



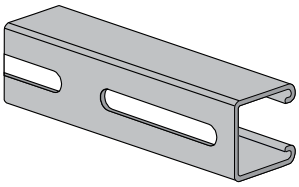


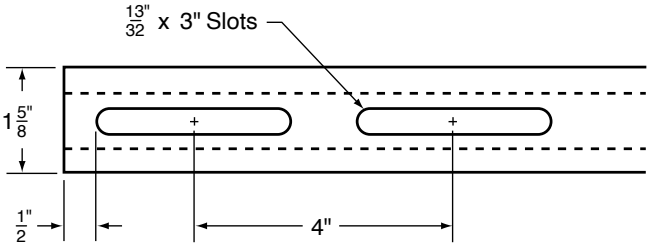
H-132-OS2.5 (Weight/100 ft - 180 lbs)



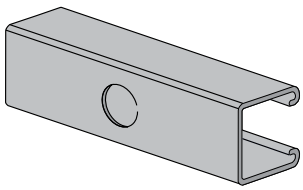


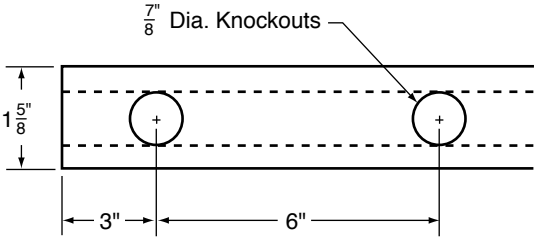
H-132-OS3 (Weight/100 ft - 179 lbs)



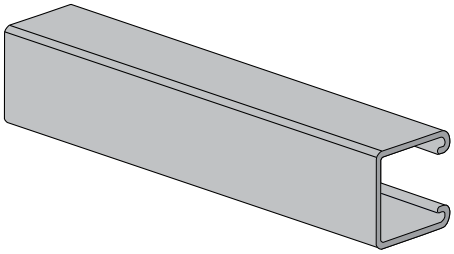


H-132-KO (Weight/100 ft - 194 lbs)





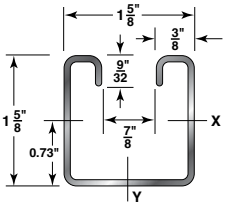
H-134



1 5/8" X 1 5/8"
14 Gauge Channel
Weight/100 ft - 145 lbs

H-134 is a medium-duty welded channel with a good strength-to-weight ratio. This product is commonly used for supporting electrical and light-duty mechnical systems. As a 14 gauge alternative to the H-132, it is available “slotted” or with several other pre-punched hole and weld configurations.

Section Properties



Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-134	1.45	0.409	0.145	0.162	0.596	0.179	0.221	0.662	0.73

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

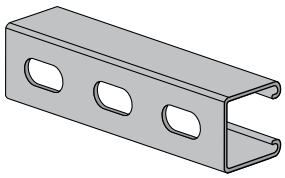
Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	1,350	0.06	1,350	1,350	1,350	2.9	2,790	7,930	7,260	6,320	5,410	1.00
36	900	0.13	900	900	690	4.4	2,460	6,440	5,410	4,180	3,190	1.00
48	670	0.23	670	580	390	5.8	1,990	4,970	3,820	2,730	2,120	0.93
60	540	0.35	500	370	250	7.3	1,620	3,730	2,730	2,010	1,600	0.88
72	450	0.51	350	260	170	8.7	1,350	2,830	2,120	1,600	1,290	0.83
84	380	0.68	250	190	130	10.2	1,160	2,280	1,740	1,330	1,080	0.78
96	330	0.89	190	150	100	11.6	1,020	1,910	1,480	1,140	920	0.74
108	300	1.15	150	120	80	13.1	920	1,650	1,290	1,000	**	0.71
120	270	1.42	120	90	60	14.5	830	1,450	1,140	**	**	0.68
144	220	2.00	90	60	40	17.4	690	1,170	920	**	**	0.62
168	190	2.74	60	50	30	20.3	**	980	**	**	**	0.57
192	160	3.44	50	40	NR	23.2	**	**	**	**	**	0.53
216	150	4.60	40	30	NR	26.1	**	**	**	**	**	0.49
240	130	5.46	30	NR	NR	29.0	**	**	**	**	**	0.46

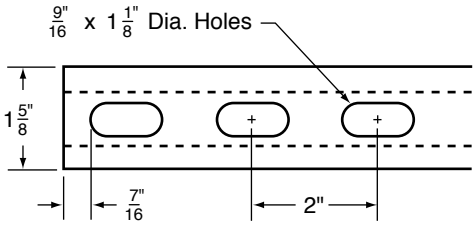
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

Notes:

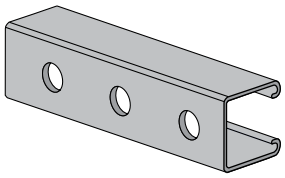
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. 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%
   - OS3 by 90%
   - KO by 82%

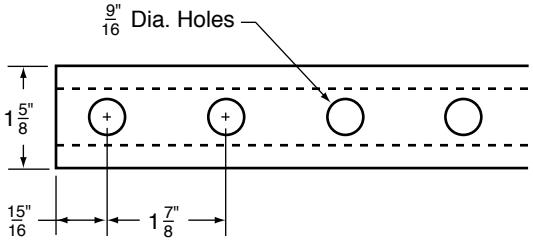
H-134-OS (Weight/100 ft - 140 lbs)



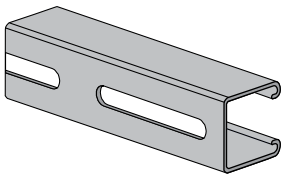


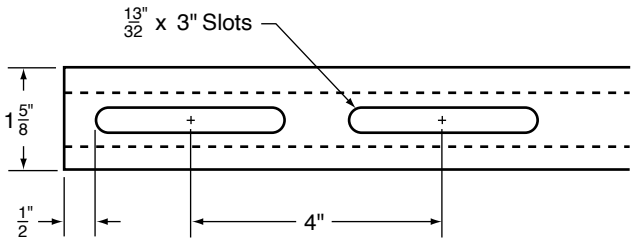
H-134-RS (Weight/100 ft - 140 lbs)



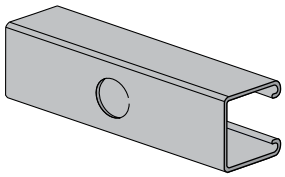


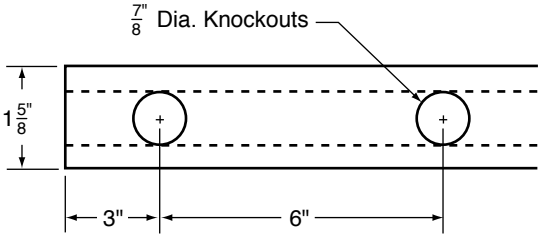
H-134-OS3 (Weight/100 ft - 130 lbs)



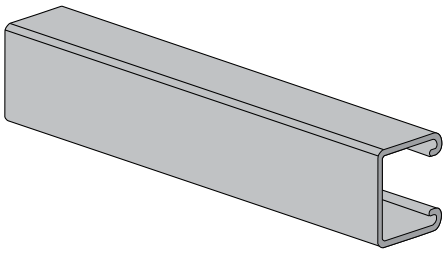


H-134-KO (Weight/100 ft - 145 lbs)





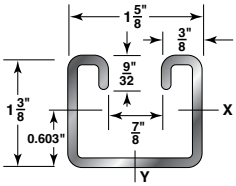
H-142



1 3/8" X 1 5/8"
12 Gauge Channel
Weight/100 ft - 176 lbs

H-142 is a medium-duty channel with a good strength-to-weight ratio. This product is commonly used for trapeze to support MEP systems. It is available “slotted” or with several other pre-punched hole and weld configurations.

Section Properties



Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-142	1.76	0.507	0.125	0.161	0.496	0.208	0.256	0.641	0.603

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

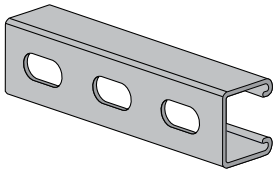
Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	1,340	0.07	1,340	1,340	1,340	3.5	3,310	9,830	9,090	8,130	7,260	1.00
36	890	0.15	890	890	590	5.3	3,030	8,250	7,260	6,140	5,220	1.00
48	670	0.26	670	500	330	7.0	2,750	6,860	5,820	4,700	3,830	1.00
60	530	0.41	430	320	210	8.8	2,450	5,740	4,700	3,660	2,970	0.99
72	440	0.58	300	220	150	10.6	2,160	4,830	3,830	2,970	2,380	0.97
84	380	0.80	220	160	110	12.3	1,940	4,070	3,220	2,470	**	0.95
96	330	1.04	170	130	80	14.1	1,750	3,500	2,750	2,080	**	0.94
108	290	1.30	130	100	70	15.8	1,580	3,060	2,380	**	**	0.93
120	260	1.59	110	80	50	17.6	1,440	2,700	2,080	**	**	0.92
144	220	2.33	70	60	40	21.1	**	2,150	**	**	**	0.86
168	190	3.19	50	40	30	24.6	**	**	**	**	**	0.79
192	160	4.01	40	30	NR	28.2	**	**	**	**	**	0.73
216	140	5.00	NR	NR	NR	31.7	**	**	**	**	**	0.66
240	130	6.37	NR	NR	NR	35.2	**	**	**	**	**	0.59

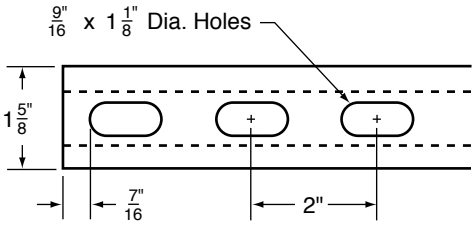
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

Notes:

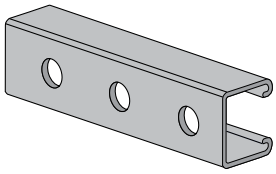
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. 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%
   - OS2.5 by 86%
   - OS3 by 90%
   - KO by 82%

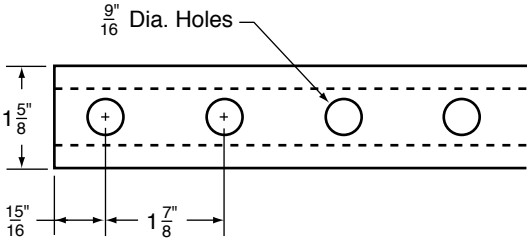
H-142-OS (Weight/100 ft - 171 lbs)



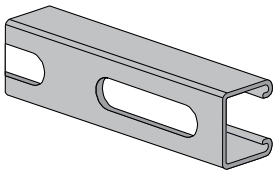


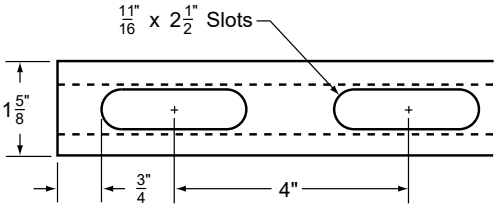
H-142-RS (Weight/100 ft - 171 lbs)



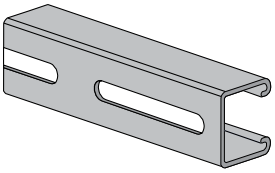


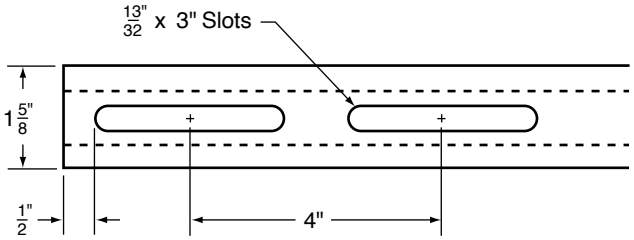
H-142-OS2.5 (Weight/100 ft - 162 lbs)



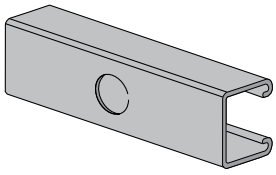


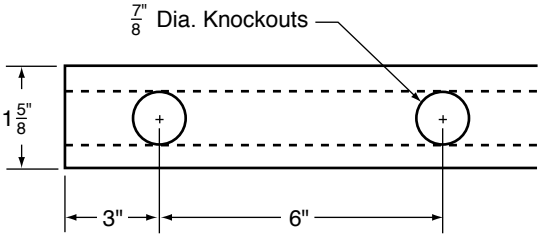
H-142-OS3 (Weight/100 ft - 161 lbs)



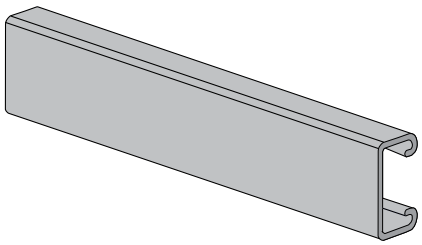


H-142-KO (Weight/100 ft - 176 lbs)





H-162



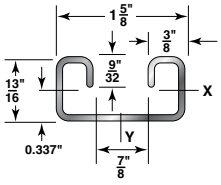
$^{13}/_{16}$" X 1 $^{5}/_{8}$"
12 Gauge Channel
Weight/100 ft - 137 lbs

H-162 is a light-duty channel well suited for many applications. This product is commonly used for trapeze to support MEP systems. It is available "slotted" or with several other pre-punched hole and weld configurations.

Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-162	1.37	0.387	0.032	0.068	0.288	0.14	0.172	0.601	0.337

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



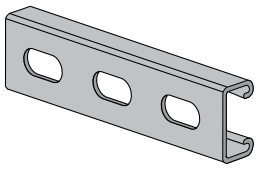
Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	560	0.11	560	520	340	2.7	2,370	7,580	7,170	6,680	6,250	1.00
36	370	0.24	310	230	150	4.1	2,250	6,740	6,250	5,670	5,110	1.00
48	280	0.43	170	130	90	5.5	2,150	6,050	5,480	4,740	4,010	1.00
60	220	0.65	110	80	60	6.9	2,000	5,430	4,740	**	**	1.00
72	180	0.92	80	60	40	8.2	1,840	4,830	4,010	**	**	1.00
84	160	1.30	60	40	30	9.6	**	4,230	**	**	**	0.98
96	140	1.70	40	30	20	11.0	**	**	**	**	**	0.95
108	120	2.08	30	30	20	12.4	**	**	**	**	**	0.91
120	110	2.61	30	20	NR	13.7	**	**	**	**	**	0.88
144	90	3.70	20	NR	NR	16.5	**	**	**	**	**	0.82
168	80	5.22	NR	NR	NR	19.2	**	**	**	**	**	0.76
192	70	6.81	NR	NR	NR	22.0	**	**	**	**	**	0.69
216	60	8.32	NR	NR	NR	24.7	**	**	**	**	**	0.63
240	50	9.51	NR	NR	NR	27.5	**	**	**	**	**	0.56

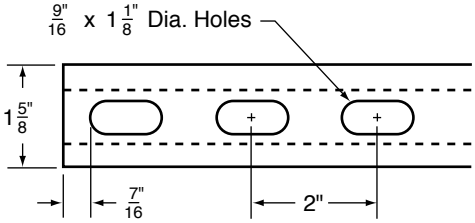
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

Notes:

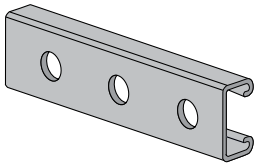
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. 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%
   - OS2.5 by 86%
   - OS3 by 90%
   - KO by 82%

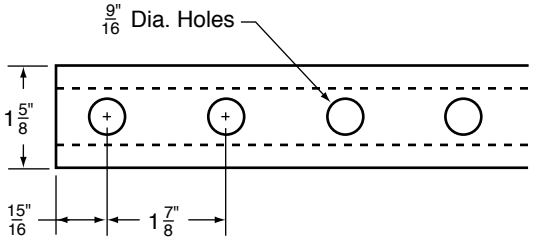
H-162-OS (Weight/100 ft - 130 lbs)



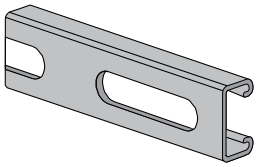


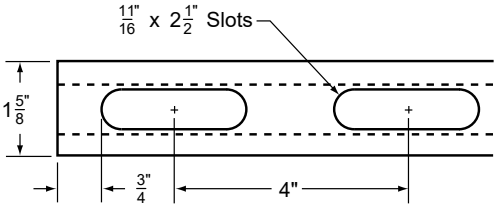
H-162-RS (Weight/100 ft - 130 lbs)



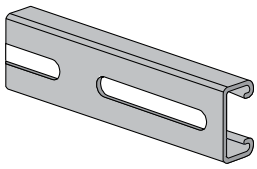


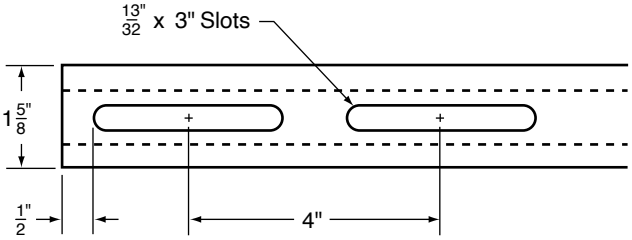
H-162-OS2.5 (Weight/100 ft - 123 lbs)



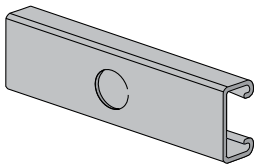


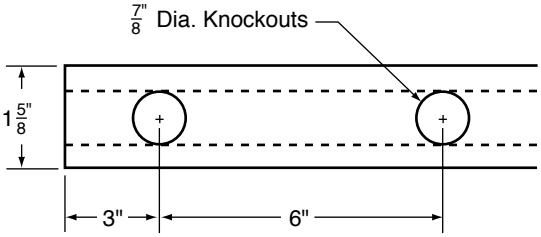
H-162-OS3 (Weight/100 ft - 120 lbs)



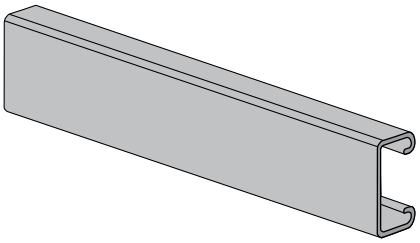


H-162-KO (Weight/100 ft - 135 lbs)





H-164



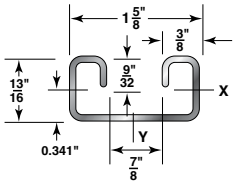
$^{13}/_{16}$" X $1\,^{5}/_{8}$"
14 Gauge Channel
Weight/100 ft - 103 lbs

H-164 is the most common channel used for supporting conduit and other electrical systems. Sometimes known as “shallow” strut, it is available “slotted” or with several other pre-punched hole and weld configurations.

Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-164	1.03	0.287	0.026	0.054	0.3	0.106	0.131	0.61	0.341

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



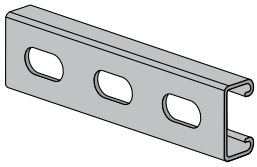
Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	450	0.11	450	410	280	2.1	1,830	5,520	5,110	4,590	4,120	1.00
36	300	0.24	250	180	120	3.1	1,690	4,650	4,120	3,530	3,050	1.00
48	220	0.42	140	100	70	4.1	1,530	3,910	3,360	2,770	2,270	1.00
60	180	0.67	90	70	40	5.2	1,410	3,320	2,770	**	**	1.00
72	150	0.96	60	50	30	6.2	1,260	2,830	2,270	**	**	0.99
84	120	1.22	50	30	20	7.2	**	2,410	**	**	**	0.96
96	110	1.67	30	30	20	8.2	**	**	**	**	**	0.92
108	100	2.16	30	20	10	9.3	**	**	**	**	**	0.88
120	90	2.67	20	20	NR	10.3	**	**	**	**	**	0.84
144	70	3.59	20	NR	NR	12.4	**	**	**	**	**	0.75
168	60	4.88	NR	NR	NR	14.4	**	**	**	**	**	0.67
192	50	6.08	NR	NR	NR	16.5	**	**	**	**	**	0.58
216	50	8.65	NR	NR	NR	18.5	**	**	**	**	**	0.49
240	40	9.49	NR	NR	NR	20.6	**	**	**	**	**	0.43

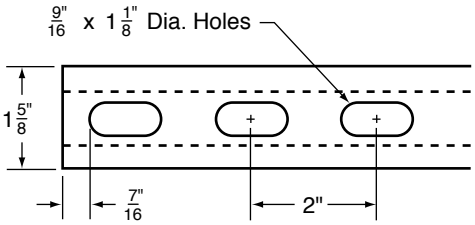
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

Notes:

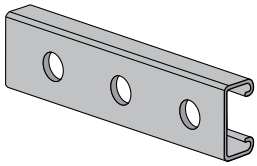
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. 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%
   - OS3 by 90%
   - KO by 82%

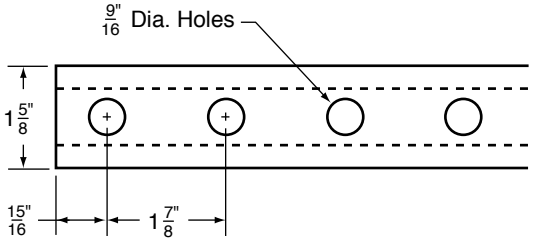
H-164-OS (Weight/100 ft - 98 lbs)



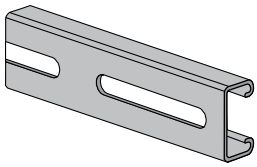


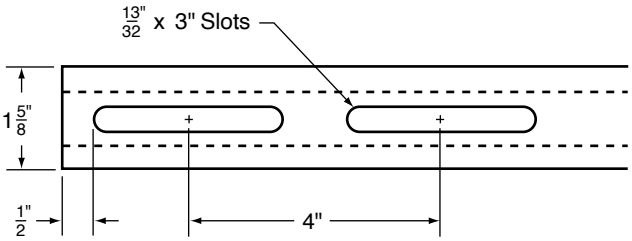
H-164-RS (Weight/100 ft - 98 lbs)



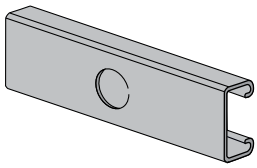


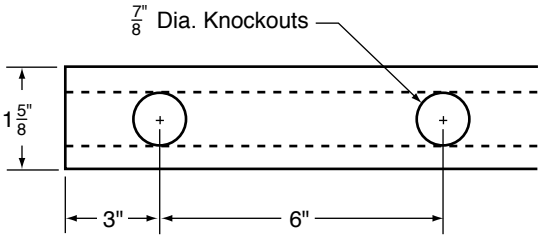
H-164-OS3 (Weight/100 ft - 94 lbs)



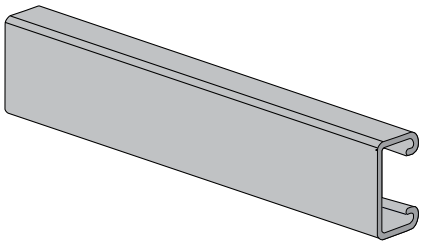


H-164-KO (Weight/100 ft - 103 lbs)





H-172



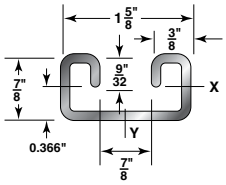
7/8" X 1 5/8"
12 Gauge Channel
Weight/100 ft - 139 lbs

H-172 is a light-duty channel well suited for many applications. This product is commonly used for trapeze to support MEP systems. It is available "slotted" or with several other pre-punched hole and weld configurations.

Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-172	1.39	0.4	0.039	0.076	0.312	0.147	0.181	0.607	0.366

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



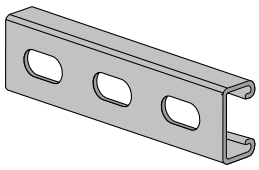
Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	630	0.10	630	630	420	2.8	2,470	7,820	7,370	6,830	6,360	1.00
36	420	0.22	370	280	190	4.2	2,340	6,900	6,360	5,720	5,140	1.00
48	310	0.39	210	160	100	5.6	2,200	6,140	5,530	4,760	4,020	1.00
60	250	0.61	130	100	70	7.0	2,080	5,480	4,760	3,840	**	1.00
72	210	0.89	90	70	50	8.3	1,930	4,860	4,020	**	**	1.00
84	180	1.21	70	50	30	9.7	**	4,250	**	**	**	0.98
96	150	1.51	50	40	30	11.1	**	3,660	**	**	**	0.95
108	140	2.00	40	30	20	12.5	**	**	**	**	**	0.92
120	120	2.35	30	30	20	13.9	**	**	**	**	**	0.89
144	100	3.39	20	20	NR	16.7	**	**	**	**	**	0.82
168	90	4.84	20	NR	NR	19.5	**	**	**	**	**	0.76
192	70	5.62	NR	NR	NR	22.2	**	**	**	**	**	0.69
216	70	8.00	NR	NR	NR	25.0	**	**	**	**	**	0.63
240	60	9.41	NR	NR	NR	27.8	**	**	**	**	**	0.56

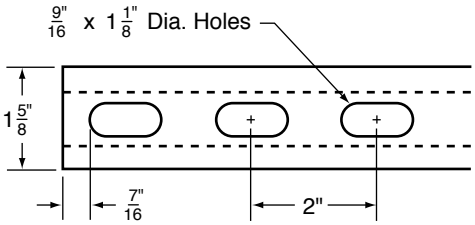
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

Notes:

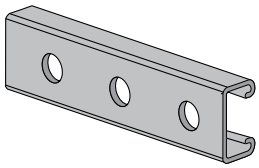
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. 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%
   - OS2.5 by 86%
   - OS3 by 90%
   - KO by 82%

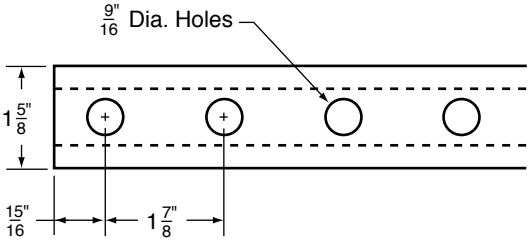
H-172-OS (Weight/100 ft - 134 lbs)



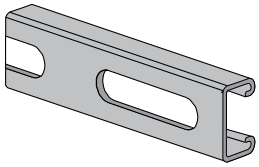


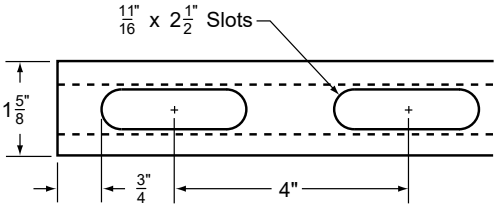
H-172-RS (Weight/100 ft - 134 lbs)



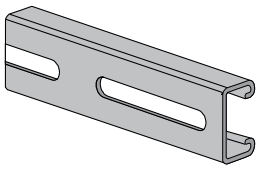


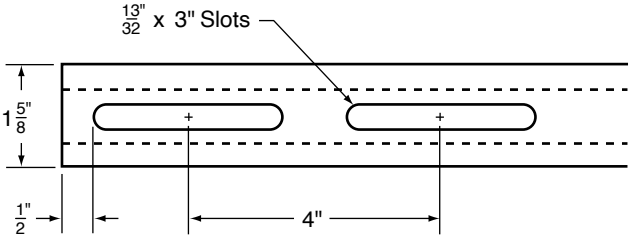
H-172-OS2.5 (Weight/100 ft - 125 lbs)



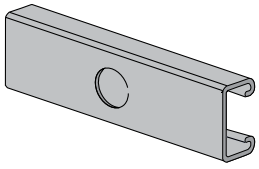


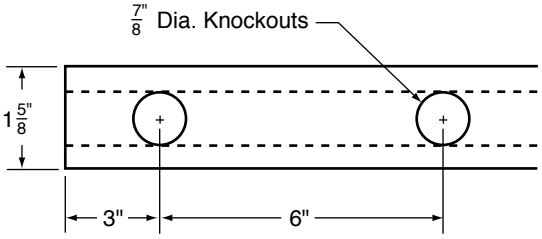
H-172-OS3 (Weight/100 ft - 124 lbs)





H-172-KO (Weight/100 ft - 139 lbs)





Pre-Punched Hole Options

H-STRUT® Channel

H-Strut Styles

OS3

$^{13}/_{32}$" x 3" Slot,
4" on Center

OS

$^{9}/_{16}$" x $1^{1}/_{8}$" Slot,
2" on Center

RS

$^{9}/_{16}$" Dia. Hole,
$1^{7}/_{8}$" on Center

KO

$^{7}/_{8}$" Dia. Knockout,
6" on Center

OS2.5 Channel

Catalog No.	Gauge	Dimensions	Wt./100 ft
H-112-OS2.5	12	$3^{1}/_{4}$ x $1^{5}/_{8}$	299
H-122-OS2.5	12	$2^{7}/_{16}$ x $1^{5}/_{8}$	240
H-132-OS2.5	12	$1^{5}/_{8}$ x $1^{5}/_{8}$	180
H-142-OS2.5	12	$1^{3}/_{8}$ x $1^{5}/_{8}$	162
H-162-OS2.5	12	$^{13}/_{16}$ x $1^{5}/_{8}$	123
H-172-OS2.5	12	$^{7}/_{8}$ x $1^{5}/_{8}$	125

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-162-OS3	12	$^{13}/_{16}$ x $1^{5}/_{8}$	120
H-164-OS3	14	$^{13}/_{16}$ x $1^{5}/_{8}$	94
H-172-OS3	12	$^{7}/_{8}$ x $1^{5}/_{8}$	124

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 $1^{5}/_{8}$	249
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-162-OS	12	$^{13}/_{16}$ x $1^{5}/_{8}$	130
H-164-OS	14	$^{13}/_{16}$ x $1^{5}/_{8}$	98
H-172-OS	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-162-KO	12	$^{13}/_{16}$ x $1^{5}/_{8}$	135
H-164-KO	14	$^{13}/_{16}$ x $1^{5}/_{8}$	103
H-172-KO	12	$^{7}/_{8}$ x $1^{5}/_{8}$	139

RS 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-162-RS	12	$^{13}/_{16}$ x $1^{5}/_{8}$	130
H-164-RS	14	$^{13}/_{16}$ x $1^{5}/_{8}$	98
H-172-RS	12	$^{7}/_{8}$ x $1^{5}/_{8}$	134

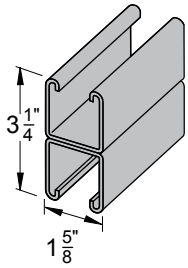
Note: Channel Fabrication Data also available in Stainless Steel, see page 94.

Welded Channel

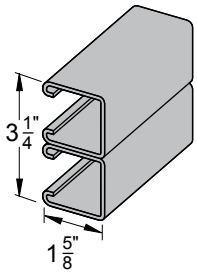
Welded Combinations

All H-STRUT® channels are available welded together in a back-to-back (Suffix A) configuration. The H-132 channel is available welded in all of the configurations below and other channels may be available upon request.

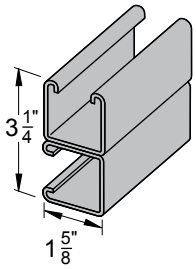
Suffix A



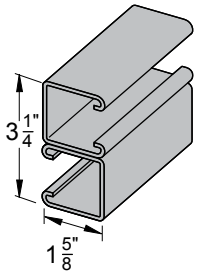
Suffix B



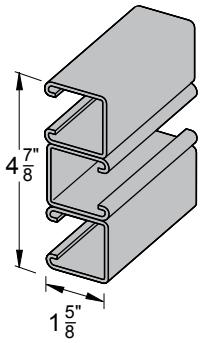
Suffix C



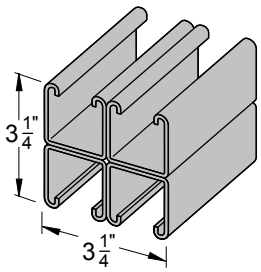
Suffix D



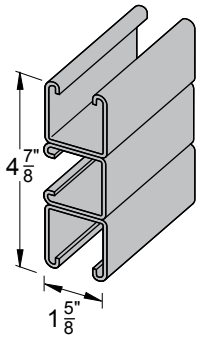
Suffix D3



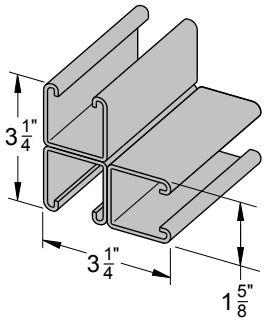
Suffix A4



Suffix C3

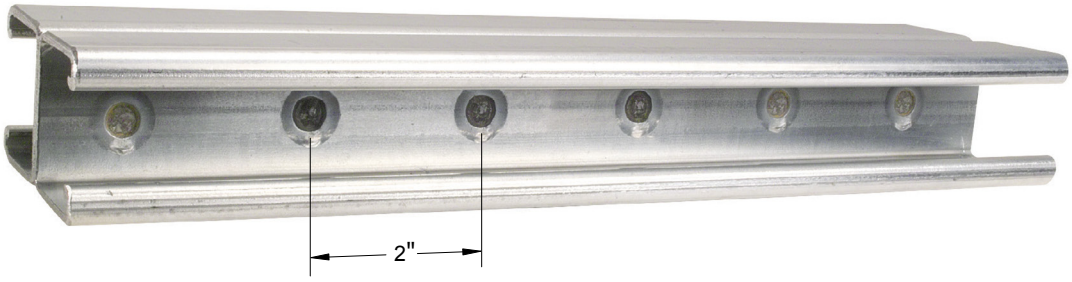


Suffix CA3



Slotted channels are available in many of the weld configurations above.

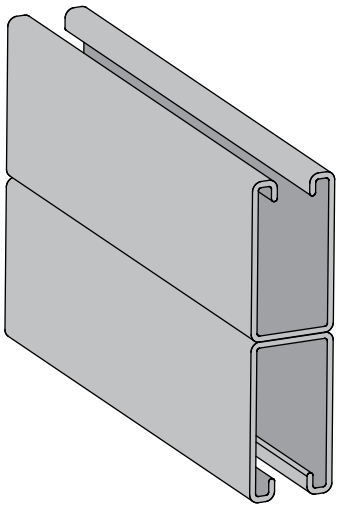
The standard weld spacing is 2" inches on center. Welding may vary depending on configuration (above) and hole/slot spacing.

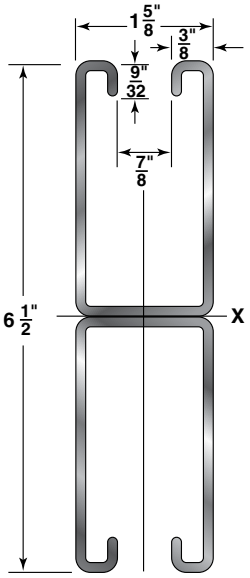


H-112-A

6 1/2" X 1 5/8"
12 Gauge Back-to-Back
Weight/100 ft - 626 lbs

H-112-A is Haydon's strongest back-to-back welded channel. This product is commonly used for heavy loads, long spans and columns.





Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-112-A	6.26	1.794	6.351	1.954	1.882	0.869	1.069	0.696	0

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

Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	6,850 *	0.01	6,850 *	6,850 *	6,850 *	12.5	10,770	39,250	38,040	36,210	34,230	1.00
36	6,850 *	0.02	6,850 *	6,850 *	6,850 *	18.8	10,440	36,450	34,230	31,150	28,170	1.00
48	6,850 *	0.05	6,850 *	6,850 *	6,850 *	25.0	9,760	33,200	30,140	26,310	23,000	0.96
60	6,510	0.10	6,510	6,510	6,510	31.3	8,930	29,880	26,310	22,260	18,680	0.90
72	5,420	0.14	5,420	5,420	5,420	37.6	8,080	26,760	23,000	18,680	13,220	0.83
84	4,650	0.19	4,650	4,650	4,650	43.8	7,240	23,970	20,260	13,990	9,710	0.75
96	4,070	0.25	4,070	4,070	4,070	50.1	6,280	21,560	16,710	10,710	7,440	0.67
108	3,610	0.32	3,610	3,610	3,370	56.3	5,350	19,440	13,220	8,460	5,880	0.60
120	3,250	0.39	3,250	3,250	2,730	62.6	4,510	16,220	10,710	6,850	**	0.52
144	2,710	0.56	2,710	2,710	1,890	75.1	3,370	11,270	7,440	**	**	0.41
168	2,320	0.76	2,320	2,090	1,390	87.6	2,640	8,280	5,460	**	**	0.34
192	2,030	1.00	2,030	1,600	1,070	100.2	**	6,340	**	**	**	0.29
216	1,800	1.26	1,680	1,260	840	112.7	**	**	**	**	**	0.26
240	1,620	1.56	1,360	1,020	680	125.2	**	**	**	**	**	0.23

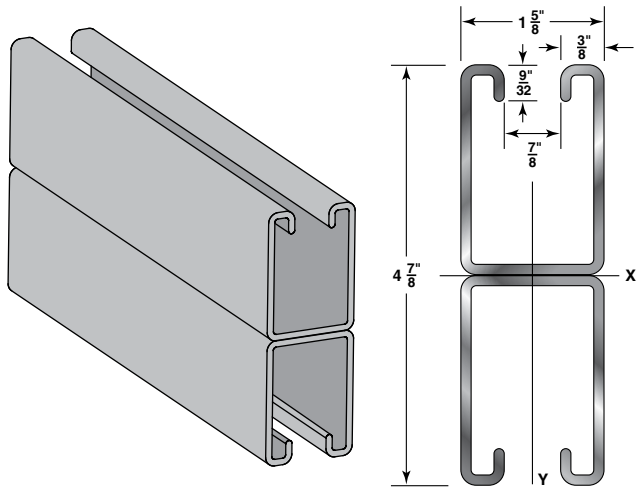
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

1. The beam weight must be subtracted from the above 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%
   - OS2.5 by 86%
   - OS3 by 90%
   - KO by 82%

H-122-A

4 7/8" X 1 5/8"
12 Gauge Back-to-Back
Weight/100 ft - 508 lbs

H-122-A is a heavy-duty welded channel capable of carrying heavy loads. This product is commonly used for heavy applications and supporting over long spans.



Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-122-A	5.08	1.456	2.882	1.182	1.407	0.673	0.828	0.68	0

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

Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	5,200 *	0.01	5,200 *	5,200 *	5,200 *	10.2	8,710	31,890	30,960	29,580	28,140	1.00
36	5,200 *	0.04	5,200 *	5,200 *	5,200 *	15.2	8,470	29,760	28,140	25,990	24,010	1.00
48	4,920	0.08	4,920	4,920	4,920	20.3	8,080	27,410	25,310	22,820	20,770	0.98
60	3,940	0.13	3,940	3,940	3,940	25.4	7,490	25,140	22,820	20,330	17,260	0.92
72	3,280	0.19	3,280	3,280	3,280	30.5	6,940	23,110	20,770	17,260	12,790	0.86
84	2,810	0.26	2,810	2,810	2,530	35.6	6,450	21,360	18,830	13,510	9,390	0.81
96	2,460	0.33	2,460	2,460	1,930	40.6	5,760	19,910	15,720	10,360	7,190	0.75
108	2,180	0.42	2,180	2,180	1,530	45.7	5,040	17,840	12,790	8,180	5,680	0.69
120	1,970	0.52	1,970	1,860	1,240	50.8	4,400	15,340	10,360	6,630	**	0.63
144	1,640	0.75	1,640	1,290	860	61.0	3,360	10,890	7,190	**	**	0.52
168	1,400	1.02	1,260	950	630	71.1	2,620	8,000	5,280	**	**	0.43
192	1,230	1.33	970	730	480	81.3	**	6,130	**	**	**	0.37
216	1,090	1.68	760	570	380	91.4	**	**	**	**	**	0.33
240	980	2.08	620	460	310	101.6	**	**	**	**	**	0.29

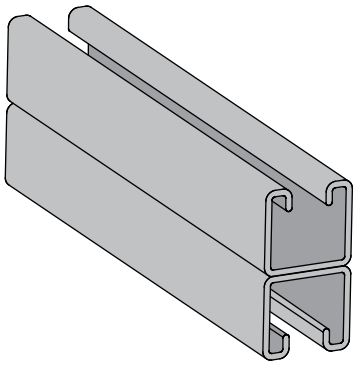
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

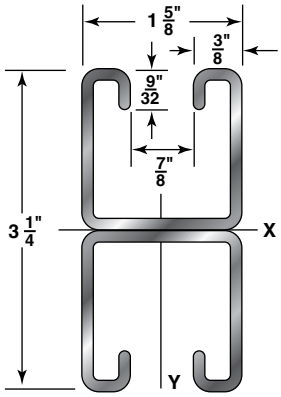
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. 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%
   - OS2.5 by 86%
   - OS3 by 90%
   - KO by 82%

H-132-A

3 1/4" X 1 5/8"
12 Gauge Back-to-Back
Weight/100 ft - 388 lbs

H-132-A is the most common and standard welded back-to-back channel and is used for numerous applications. This product allows for attachment to both the top and bottom of the strut. It is most commonly used for MEP supports, trapeze, seismic bracing, columns and long spans.





Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-132-A	3.88	1.118	0.965	0.594	0.929	0.477	0.587	0.653	0

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

Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	3,500 *	0.02	3,500 *	3,500 *	3,500 *	7.8	6,590	24,430	23,750	22,820	21,910	1.00
36	3,290	0.07	3,290	3,290	3,290	11.6	6,430	22,940	21,910	20,690	19,660	1.00
48	2,470	0.13	2,470	2,470	2,470	15.5	6,290	21,480	20,320	18,830	16,310	1.00
60	1,970	0.19	1,970	1,970	1,660	19.4	5,960	20,240	18,830	15,670	12,530	0.96
72	1,640	0.28	1,640	1,640	1,150	23.3	5,530	19,140	16,310	12,530	9,060	0.92
84	1,410	0.38	1,410	1,270	850	27.2	5,070	17,110	13,770	9,590	6,660	0.88
96	1,230	0.50	1,230	970	650	31.0	4,560	15,040	11,320	7,340	5,100	0.84
108	1,090	0.63	1,020	770	510	34.9	4,030	12,990	9,060	5,800	4,030	0.80
120	980	0.77	830	620	410	38.8	3,550	11,030	7,340	4,700	**	0.76
144	820	1.12	580	430	290	46.6	2,810	7,720	5,100	**	**	0.69
168	700	1.52	420	320	210	54.3	**	5,670	**	**	**	0.61
192	610	1.98	320	240	160	62.1	**	4,340	**	**	**	0.54
216	540	2.49	260	190	130	69.8	**	**	**	**	**	0.47
240	490	3.10	210	160	100	77.6	**	**	**	**	**	0.43

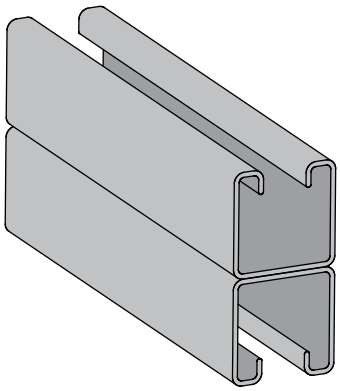
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

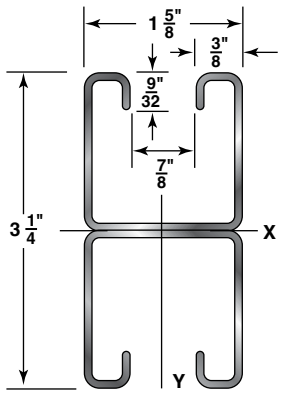
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. 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%
   - OS2.5 by 86%
   - OS3 by 90%
   - KO by 82%

H-134-A

3 1/4" X 1 5/8"
14 Gauge Back-to-Back
Weight/100 ft - 290 lbs

H-134-A is a medium-duty welded channel with a good strength-to-weight ratio. This product is commonly used for supporting electrical and light-duty mechanical systems.





Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-134-A	2.90	0.818	0.726	0.447	0.942	0.359	0.442	0.662	0

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

Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	2,160 *	0.02	2,160 *	2,160 *	2,160 *	5.8	4,930	17,950	17,430	16,660	15,850	1.00
36	2,160 *	0.06	2,160 *	2,160 *	2,160 *	8.7	4,790	16,760	15,850	14,630	13,480	1.00
48	1,860	0.13	1,860	1,860	1,860	11.6	4,600	15,440	14,230	12,790	11,580	0.99
60	1,480	0.19	1,480	1,480	1,250	14.5	4,240	14,140	12,790	11,320	9,350	0.93
72	1,240	0.28	1,240	1,240	870	17.4	3,970	12,950	11,580	9,350	6,820	0.88
84	1,060	0.38	1,060	950	640	20.3	3,630	11,930	10,250	7,210	5,010	0.82
96	930	0.50	930	730	490	23.2	3,230	11,070	8,470	5,520	3,830	0.76
108	820	0.63	770	580	390	26.1	2,830	9,690	6,820	4,360	3,030	0.71
120	740	0.78	620	470	310	29.0	2,460	8,260	5,520	3,530	**	0.65
144	620	1.13	430	320	220	34.8	1,880	5,810	3,830	**	**	0.54
168	530	1.53	320	240	160	40.6	**	4,270	**	**	**	0.45
192	460	1.98	240	180	120	46.4	**	3,270	**	**	**	0.39
216	410	2.51	190	140	100	52.2	**	**	**	**	**	0.34
240	370	3.11	160	120	80	58.0	**	**	**	**	**	0.30

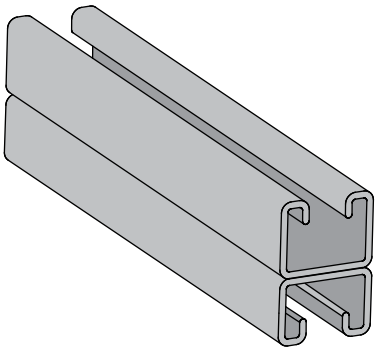
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

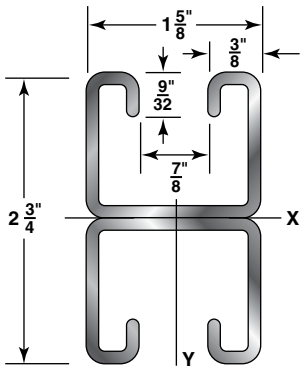
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. 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%
   - OS2.5 by 86%
   - OS3 by 90%
   - KO by 82%

H-142-A

2 3/4" X 1 5/8"
12 Gauge Back-to-Back
Weight/100 ft - 352 lbs

H-142-A is a medium-duty welded channel capable of top and bottom attachment. This product is commonly used for trapeze to support MEP systems.





Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-142-A	3.52	1.014	0.618	0.449	0.781	0.417	0.513	0.641	0

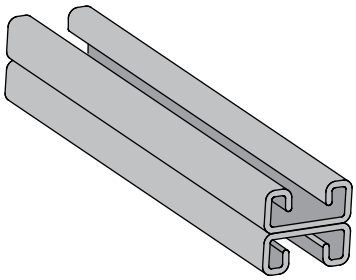
I = Moment of Inertia S = Section Modulus r = Radius of Gyration

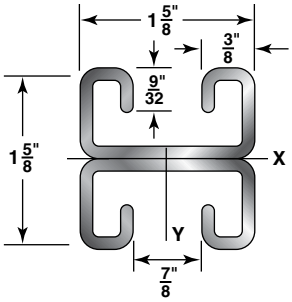
Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	2,960 *	0.03	2,960 *	2,960 *	2,960 *	7.0	5,920	22,100	21,500	20,700	19,970	1.00
36	2,490	0.08	2,490	2,490	2,490	10.6	5,790	20,800	19,970	19,020	17,990	1.00
48	1,870	0.15	1,870	1,870	1,660	14.1	5,690	19,630	18,750	16,870	14,530	1.00
60	1,490	0.23	1,490	1,490	1,060	17.6	5,410	18,680	16,870	13,940	11,050	0.98
72	1,240	0.33	1,240	1,110	740	21.1	5,000	17,150	14,530	11,050	7,920	0.94
84	1,070	0.45	1,070	810	540	24.6	4,620	15,270	12,190	8,380	5,820	0.91
96	930	0.59	830	620	410	28.2	4,160	13,350	9,950	6,420	4,460	0.88
108	830	0.75	660	490	330	31.7	3,670	11,470	7,920	5,070	**	0.84
120	740	0.91	530	400	270	35.2	3,240	9,680	6,420	4,110	**	0.81
144	620	1.32	370	280	180	42.2	2,570	6,750	4,460	**	**	0.75
168	530	1.79	270	200	140	49.3	**	4,960	**	**	**	0.68
192	460	2.33	210	160	100	56.3	**	3,800	**	**	**	0.62
216	410	2.95	160	120	80	63.4	**	**	**	**	**	0.55
240	370	3.65	130	100	NR	70.4	**	**	**	**	**	0.50

NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

1. The beam weight must be subtracted from the above 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%
   - OS2.5 by 86%
   - OS3 by 90%
   - KO by 82%

H-162-A





1 5/8" X 1 5/8"
12 Gauge Back-to-Back
Weight/100 ft - 270 lbs

H-162-A is a light-duty welded channel capable of top and bottom attachment in a 1 5/8" tall product. This product is commonly used for trapeze to support MEP systems.

Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-162-A	2.70	0.773	0.152	0.187	0.444	0.28	0.344	0.601	0

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

Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	1,560	0.06	1,560	1,560	1,560	5.4	4,240	16,570	16,120	15,120	13,990	1.00
36	1,040	0.14	1,040	1,040	730	8.1	4,080	15,260	13,990	12,130	10,180	1.00
48	780	0.25	780	610	410	10.8	3,840	13,390	11,480	8,900	6,510	1.00
60	620	0.39	520	390	260	13.5	3,480	11,320	8,900	6,000	4,170	1.00
72	520	0.56	360	270	180	16.2	3,060	9,220	6,510	4,170	2,890	1.00
84	440	0.76	270	200	130	18.9	2,580	7,230	4,780	3,060	**	0.99
96	390	1.00	200	150	100	21.6	2,210	5,550	3,660	**	**	0.97
108	340	1.24	160	120	80	24.3	1,880	4,380	2,890	**	**	0.95
120	310	1.55	130	100	70	27.0	**	3,550	**	**	**	0.93
144	260	2.25	90	70	50	32.4	**	**	**	**	**	0.89
168	220	3.02	70	50	NR	37.8	**	**	**	**	**	0.86
192	190	3.90	50	NR	NR	43.2	**	**	**	**	**	0.82
216	170	4.97	NR	NR	NR	48.6	**	**	**	**	**	0.78
240	150	6.01	NR	NR	NR	54.0	**	**	**	**	**	0.75

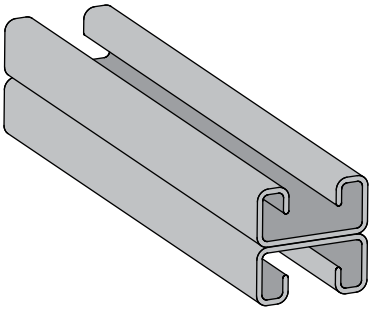
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

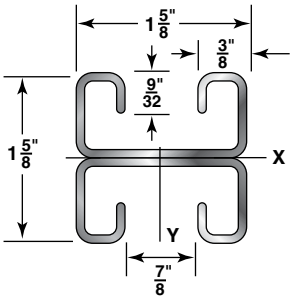
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. 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%
   - OS2.5 by 86%
   - OS3 by 90%
   - KO by 82%

H-164-A

1 5/8" X 1 5/8"
14 Gauge Back-to-Back
Weight/100 ft - 206 lbs

H-164-A is the most common welded back-to-back channel used for electrical supports and other light-duty applications. This product allows for attachment to both the top and bottom of the strut.





Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-164-A	2.06	0.573	0.118	0.145	0.454	0.213	0.262	0.61	0

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

Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	1,070 *	0.06	1,070 *	1,070 *	1,070 *	4.1	3,220	12,210	11,790	11,260	10,480	1.00
36	800	0.14	800	800	560	6.2	3,110	11,320	10,480	9,140	7,730	1.00
48	600	0.25	600	480	320	8.2	2,930	10,050	8,680	6,800	5,040	1.00
60	480	0.39	410	300	200	10.3	2,670	8,560	6,800	4,650	3,230	0.99
72	400	0.56	280	210	140	12.4	2,320	7,030	5,040	3,230	2,240	0.97
84	340	0.75	210	160	100	14.4	1,950	5,580	3,710	2,370	**	0.94
96	300	0.99	160	120	80	16.5	1,670	4,300	2,840	**	**	0.91
108	260	1.23	130	90	60	18.5	1,410	3,400	2,240	**	**	0.88
120	240	1.55	100	80	50	20.6	**	2,750	**	**	**	0.86
144	200	2.23	70	50	40	24.7	**	**	**	**	**	0.80
168	170	3.02	50	40	30	28.8	**	**	**	**	**	0.75
192	150	3.97	40	NR	NR	33.0	**	**	**	**	**	0.69
216	130	4.90	NR	NR	NR	37.1	**	**	**	**	**	0.64
240	120	6.21	NR	NR	NR	41.2	**	**	**	**	**	0.59

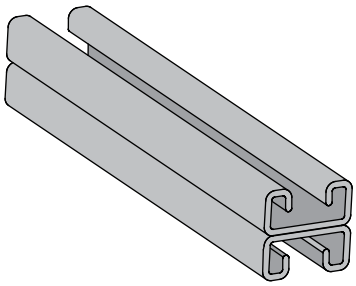
NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

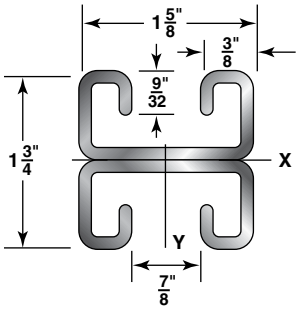
1. The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
2. Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%.
3. 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%

H-172-A

1 3/4" X 1 5/8"
12 Gauge Back-to-Back
Weight/100 ft - 278 lbs

H-172-A is a light-duty welded channel capable of top and bottom attachment. This product is commonly used for trapeze to support MEP systems.





Section Properties

Catalog No.	Wt.	Area	X-X Axis			Y-Y Axis			dy
			I	S	r	I	S	r	
	lbs/ft	in^2	in^4	in^3	in	in^4	in^3	in	in
H-172-A	2.78	0.799	0.185	0.211	0.481	0.295	0.363	0.607	0

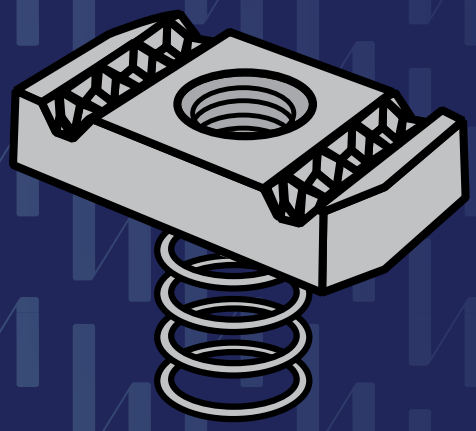
I = Moment of Inertia S = Section Modulus r = Radius of Gyration

Span or Unbraced Height	Static Beam Loading (X-X Axis)					Weight of Channel	Column Loading Data					Unbraced Length Factor
	Max Allowed Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection				Max Allowed Load at Slot Face	Max Column Load Applied at C.G.				
			Span/180	Span/240	Span/360			k=0.65	k=0.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
24	1,760	0.06	1,760	1,760	1,760	5.6	4,440	17,180	16,750	16,050	15,020	1.00
36	1,170	0.13	1,170	1,170	880	8.3	4,300	16,170	15,020	13,300	11,460	1.00
48	880	0.23	880	740	500	11.1	4,090	14,470	12,690	10,220	7,850	1.00
60	700	0.36	640	480	320	13.9	3,780	12,540	10,220	7,290	5,060	1.00
72	580	0.52	440	330	220	16.7	3,390	10,530	7,850	5,060	3,510	1.00
84	500	0.71	320	240	160	19.5	2,920	8,570	5,810	3,720	**	0.98
96	440	0.93	250	190	120	22.2	2,520	6,740	4,450	2,850	**	0.96
108	390	1.17	200	150	100	25.0	2,170	5,320	3,510	**	**	0.94
120	350	1.44	160	120	80	27.8	1,880	4,310	2,850	**	**	0.92
144	290	2.07	110	80	60	33.4	**	2,990	**	**	**	0.88
168	250	2.83	80	60	40	38.9	**	**	**	**	**	0.84
192	220	3.72	60	50	NR	44.5	**	**	**	**	**	0.80
216	190	4.57	NR	NR	NR	50.0	**	**	**	**	**	0.76
240	170	5.61	NR	NR	NR	55.6	**	**	**	**	**	0.72

NR indicates not recommended | * indicates uniform load limited by weld shear | ** indicates KL/r > 200

1. The beam weight must be subtracted from the above 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%
   - KO by 82%
   - OS3 by 90%
   - RS-3/4-MOD (3/4 holes) by 85%

Channel Nuts & Hardware



SPECIFICATIONS

General

Haydon offers a wide range of channel nuts and other hardware to connect the many parts of the H-STRUT® system. These fasteners are available in a range of sizes and options to accommodate many different applications. H-Strut channel nuts are case hardened and designed to provide a high-strength, bolted connection between products. They also aid in easy installation with a self-locking feature inside the channel and are available with various springs to hold themselves in place.

Material

H-Strut channel nuts are manufactured from mild steel bars conforming to ASTM A576, A1011, A36, A675 or equivalent. The nuts are case hardened to ensure a high-strength connection. Select sizes may be available in stainless steel upon request.

Finish

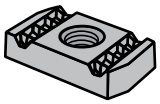
Standard finish for H-Strut channel nuts and hardware is electrogalvanized conforming to ASTM B633. Other finishes may be available upon request.

Ordering

For channel nuts, use the tables to select the correct nut for the channel and thread being used.

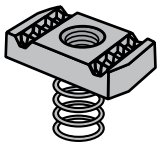
For other hardware, use the tables to specify the desired thread size, length, size and finish.

Channel Nuts



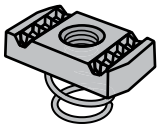
Without Spring

Catalog No.	Thread Size	Thickness	Wt./100 Pcs.	Use With
N-800	1/4"-20	1/4"	6	All H-STRUT® Channel
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-112, H-122, H-132, H-134, H-142
N-804	5/8"-11	7/16"	20	
N-805	3/4"-10	7/16"	18	
N-806	5/8"-11	3/8"	14	All H-Strut Channel
N-807	3/4"-10	3/8"	14	
N-808	5/16"-18	3/8"	7	
N-809	7/8"-9	7/16"	16	All except H-162 & H-164



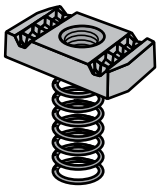
Regular Spring

Catalog No.	Thread Size	Thickness	Wt./100 Pcs.	Use With
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	



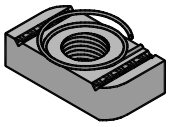
Short Spring

Catalog No.	Thread Size	Thickness	Wt./100 Pcs.	Use With
N-810	1/4"-20	1/4"	7	H-164, 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	



Long Spring

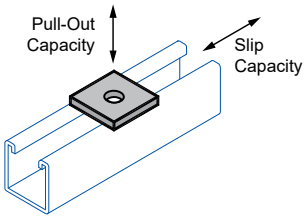
Catalog No.	Thread Size	Thickness	Wt./100 Pcs.	Use With
N-830	1/4"-20	1/4"	7	H-112, H-122
N-831	3/8"-16	3/8"	10	
N-832	1/2"-13	3/8"	10	
N-833	1/2"-13	1/2"	13	



Top Spring

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

Standard finish: Electrogalvanized

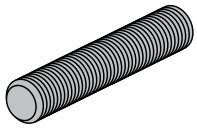


Load Capacities and Installation Torques

	Channel	Thread Size	Slip Capacity (lbs)	Pull-Out Capacity (lbs)	Installation Torque (ft-lbs)
12 Gauge	H-112, H-122, H-132, H-142, H-162, H-172	1/4"-20	300	450	6
		5/16"-18	500	800	11
		3/8"-16	800	1,000	19
	H-112, H-122, H-132	1/2"-13	1,500	2,000	50
	H-142, H-162, H-172	1/2"-13	1,500	1,500	50
14 Gauge	H-134, H-164	1/4"-20	300	450	6
		5/16"-18	400	750	11
		3/8"-16	600	1,000	19
		1/2"-13	1,000	1,400	50

Minimum safety factor = 3.0

Threaded Fasteners



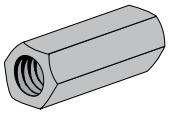
All-Thread Rod

Catalog No.	Thread Size	Wt./100 Ft.
TR 1/4	1/4"-20	12
TR 3/8	3/8"-16	30
TR 1/2	1/2"-13	54
TR 5/8	5/8"-11	85
TR 3/4	3/4"-10	125
TR 7/8	7/8"-9	169
TR 1	1"-8	220

Standard finish: Electrogalvanized

Other finishes available upon request.

Length: 6', 10' & 12'

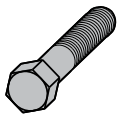


Rod Couplers

Catalog No.	Thread Size	Length	Wt./100 Pcs.
RC 1/4	1/4"-20	7/8"	2
RC 3/8	3/8"-16	1 3/4"	9
RC 1/2	1/2"-13	1 3/4"	11
RC 5/8	5/8"-11	2 1/8"	18
RC 3/4	3/4"-10	2 1/4"	28

Standard finish: Electrogalvanized

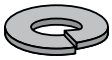
Other Common Hardware for the H-STRUT® System



Hex Head Cap Screws

Hex Nuts

Flat Washers



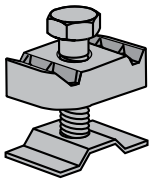
Lock Washers

Seismic Rod Stiffener

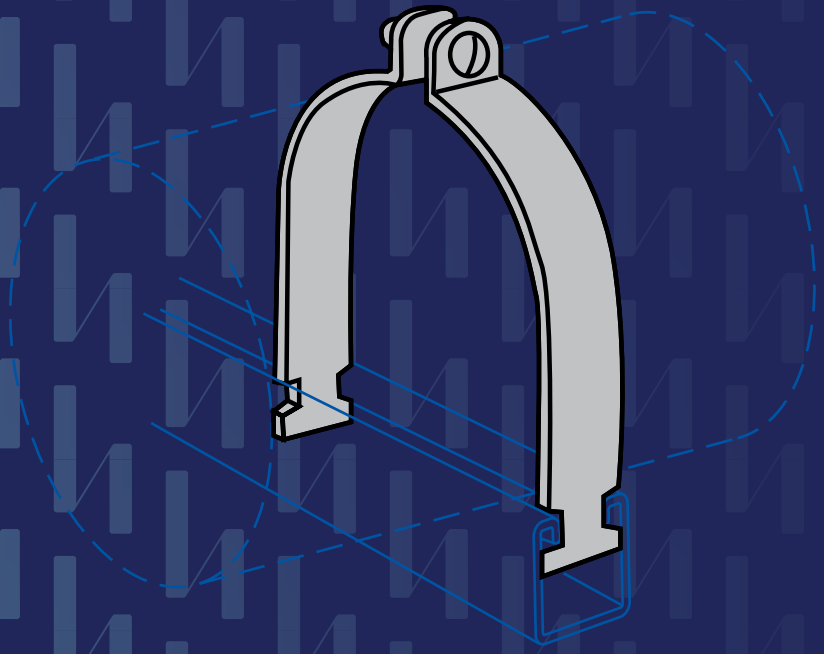
Seismic Rod Stiffener

Catalog No.	Threaded Rod Size	Wt./100 Pcs.
N-8700	3/8"-5/8"	16

Standard finish: Electrogalvanized



Pipe & Conduit Clamps



SPECIFICATIONS

General

H-STRUT® pipe clamps are designed to clamp and support piping, electrical conduit and tubes from $^{3}/_{8}$" to 8" sizes. These clamps are easy to install and are compatible with any $1^{5}/_{8}$" wide H-Strut channel.

Material

H-Strut pipe clamps are manufactured from the following material:

- Steel (Standard) . . . . . ASTM A1011 or equivalent
- Stainless Steel (Type 304 or 316/316L) . . . . . ASTM A240
- Aluminum Clamps 5052H32 . . . . . ASTM B209

Finishes

H-Strut standard steel pipe clamps are available in the following finishes. Electrogalvanized is recommended for indoor applications and Hot-Dip Galvanized is recommended for outdoor applications.

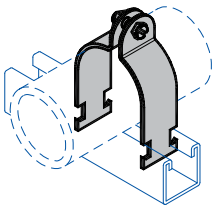
- Electrogalvanized. . . . . ASTM B633
- Hot-Dip Galvanized . . . . . ASTM A123 or A153

Ordering

Specify catalog number, size, material and finish.

C-1100

Electrical Mechanical Tubing (EMT) Clamps



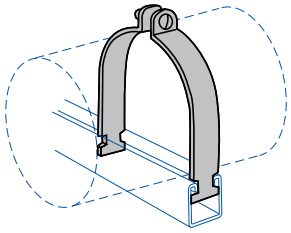
Trade Size	O.D. Size	Steel Ga.	Wt./100 Pcs.	Std. Pkg.
1/2"	0.706	16	11	100
3/4"	0.922	16	12	100
1"	1.163	14	15	100
1 1/4"	1.510	14	18	100
1 1/2"	1.740	12	29	50
2"	2.197	12	33	50

Standard finish: Electrogalvanized. Other finishes available upon request.

Ordering: Specify figure number and pipe size.

C-1104

Universal Clamps



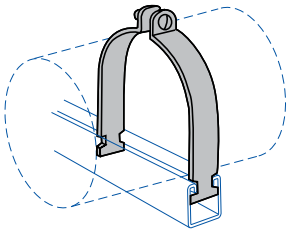
Nominal Size	O.D. Range Min./Max.	Wt./100 Pcs.	Std. Pkg.
3/8"	0.557 to 0.675	12	100
1/2"	0.706 to 0.840	13	100
3/4"	0.922 to 1.050	14	100
1"	1.163 to 1.315	18	100
1 1/4"	1.510 to 1.660	21	50
1 1/2"	1.740 to 1.900	23	50
2"	2.197 to 2.375	25	50

Standard finish: Electrogalvanized. Other finishes available upon request.

Ordering: Specify figure number and pipe size.

C-1102

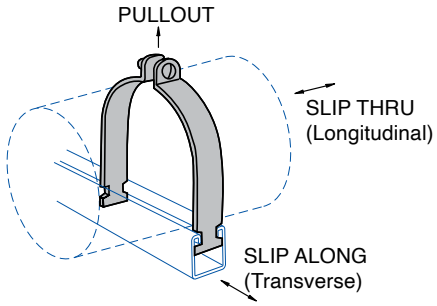
Rigid Conduit (RMC/GRC) Clamps



Trade 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"	10.750	10	143	Bulk

Standard finish: Electrogalvanized. Other finishes available upon request.

Ordering: Specify figure number and pipe size.



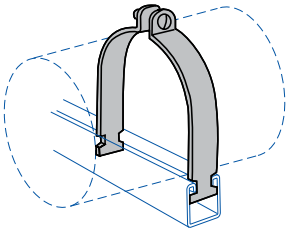
Trade Size	Design Loads *		
	Slip Thru (lbs)	Slip Along (lbs)	Pullout (lbs)
1/2"	213	77	907
3/4"	142	169	992
1"	131	174	806
1 1/4"	354	150	1,160
1 1/2"	335	336	1,564
2"	405	506	1,572
2 1/2"	287	548	1,610
3"	496	452	1,317
3 1/2"	434	531	1,490
4"	518	576	1,505
5"	411	567	1,313
6"	406	563	1,531
8"	580	664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

* Notes:

1. Tests performed in accordance with MFMA (Metal Framing Manufacturer's Association) specifications.
2. Safety factor = 3.0.
3. Loads based on independent laboratory testing.

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
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

Standard finish: Electrogalvanized. Other finishes available upon request.

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

Standard finish: Electrogalvanized. Other finishes available upon request.

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

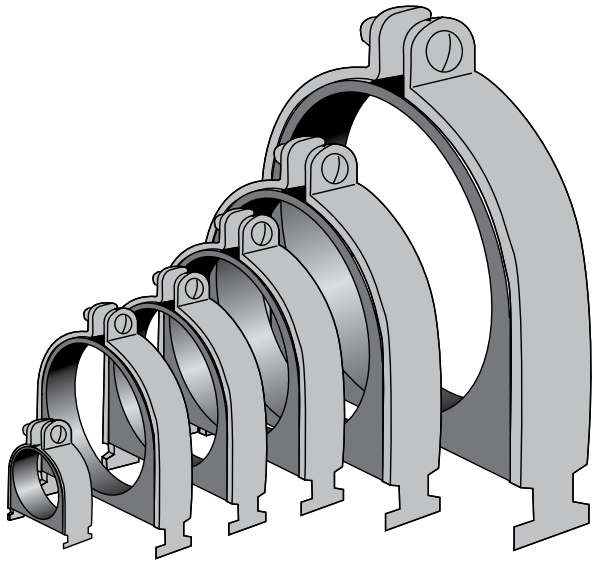
Cushion Clamps

Cushion Features

- Absorbs shock and vibration, reduces noise
- Eliminates metal to metal contact
- Usable temperature from -50°F to +275°F
- Fast and easy installation
- Resists most fuels, oil, gases, solvents
- Manufactured from a thermoplastic elastomer material

Clamp Features

- Fits all standard $1^{5}/_{8}$" channels
- Controlled squeeze design eliminates over-tightening (sizes up to $1^{3}/_{8}$")
- Nylon-insert nut used to assure a positive lock



C-1000

Cushion Clamps For Tube

Cat. No.	Tube O.D. Size	Steel Ga.	Wt./100 Pcs.	Std. Pkg.
C100025	$^{1}/_{4}$"	14	11	25
C100037	$^{3}/_{8}$"	14	12	25
C100050	$^{1}/_{2}$"	14	13	25
C100062	$^{5}/_{8}$"	14	15	25
C100075	$^{3}/_{4}$"	14	19	25
C100087	$^{7}/_{8}$"	14	21	25
C100100	1"	12	25	25
C100112	$1^{1}/_{8}$"	12	29	25
C100125	$1^{1}/_{4}$"	12	29	25
C100137	$1^{3}/_{8}$"	11	38	25
C100150	$1^{1}/_{2}$"	11	38	25
C100162	$1^{5}/_{8}$"	11	40	20
C100175	$1^{3}/_{4}$"	11	42	20
C100187	$1^{7}/_{8}$"	11	46	20
C100200	2"	11	46	10
C100212	$2^{1}/_{8}$"	11	58	10
C100237	$2^{3}/_{8}$"	11	58	10
C100262	$2^{5}/_{8}$"	12	58	10
C100300	3"	12	69	5
C100312	$3^{1}/_{8}$"	12	59	5
C100362	$3^{5}/_{8}$"	11	75	5
C100412	$4^{1}/_{8}$"	11	90	5

Standard finish: Gold zinc-dichromate electrogalvanized

Ordering: Specify catalog number.

C-2000

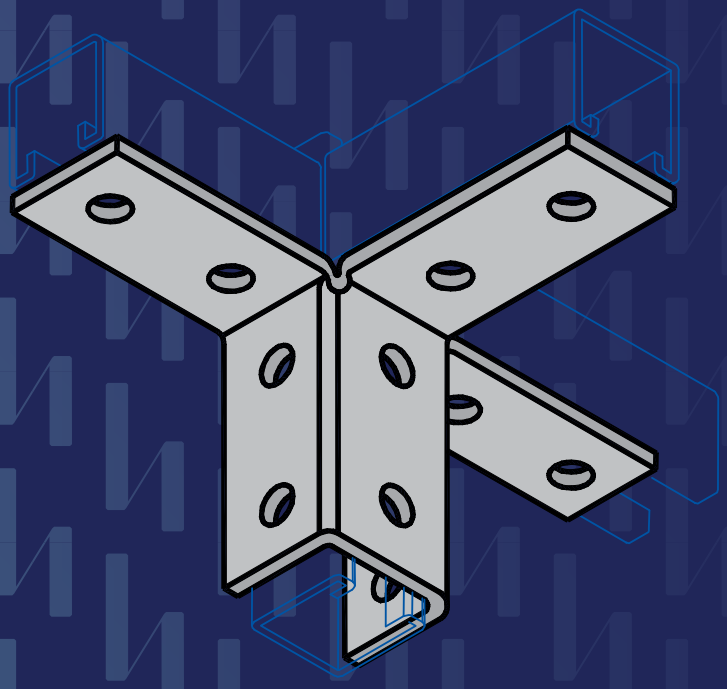
Cushion Clamps For Pipe

Cat. No.	Tube O.D. Size	Steel Ga.	Wt./100 Pcs.	Std. Pkg.
C200025	$^{1}/_{4}$"	14	12	25
C200037	$^{3}/_{8}$"	14	14	25
C200050	$^{1}/_{2}$"	14	22	25
C200075	$^{3}/_{4}$"	12	58	25
C200100	1"	11	39	20
C200125	$1^{1}/_{4}$"	11	43	20
C200150	$1^{1}/_{2}$"	11	47	20
C200200	2"	11	55	10
C200250	$2^{1}/_{2}$"	12	60	10
C200300	3"	11	76	5
C200350	$3^{1}/_{2}$"	11	94	5
C200400	4"	11	93	5
C200500	5"	11	125	5
C200600	6"	11	145	5

Standard finish: Gold zinc-dichromate electrogalvanized

Ordering: Specify catalog number.

General Fittings



SPECIFICATIONS

General

Haydon offers many types of fittings to provide structural connections with H-STRUT® channel. These fittings are available in several materials and finishes to accommodate various applications. H-Strut fittings are designed to be used with $^1/_2$" channel nuts and bolts as standard.

Material

H-Strut standard steel fittings are manufactured from steel meeting the minimum mechanical properties of ASTM A1011 SS Grade 33.

- Steel (Standard) . . . . . ASTM A1011 or equivalent
- Stainless Steel (Type 304 or 316/316L) . . . . . ASTM A240

Finishes

H-Strut standard steel fittings are available in the following finishes. Electrogalvanized, Zinc Trivalent Chromium and Supr-Green are recommended for indoor applications and Hot-Dip Galvanized is recommended for outdoor applications.

- Electrogalvanized. . . . . ASTM B633
- Hot-Dip Galvanized . . . . . ASTM A123
- Zinc Trivalent Chromium (ZTC) . . . . . ASTM B633
- Powder-Coated Supr-Green

Other materials and specifications are available upon request.

Fittings Notes

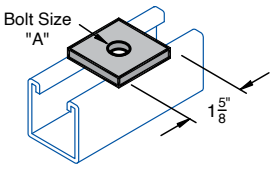
Standard dimensions unless otherwise noted:

- Steel thickness: $^1/_4$"
- Width: $1^5/_8$"
- Hole diameter: $^9/_{16}$"
- Hole spacing: $1^7/_8$" on center
- Hole spacing: $^{13}/_{16}$" from the end

Flat Plates

F-201

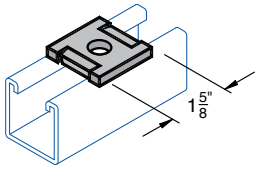
Square Washer



Catalog No.	Bolt Size (A)	Hole Size	Wt./100 Pcs.
F-201 1/4"	1/4"	5/16"	18
F-201 5/16"	5/16"	3/8"	18
F-201 3/8"	3/8"	7/16"	18
F-201 1/2"	1/2"	9/16"	17
F-201 5/8"	5/8"	11/16"	16
F-201 3/4"	3/4"	13/16"	15
F-201 7/8"	7/8"	15/16"	14

F-201-IN

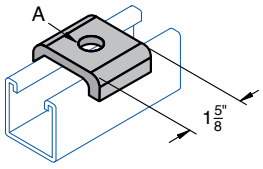
Guided Square Washer



Catalog No.	Bolt Size (A)	Hole Size	Wt./100 Pcs.
F-201-IN 3/8"	3/8"	7/16"	18
F-201-IN 1/2"	1/2"	9/16"	17

SW-201

Saddle Washer

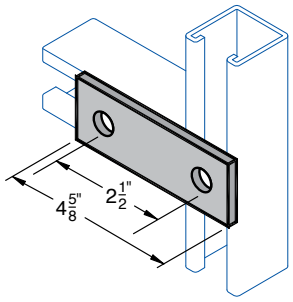


Catalog No.	Bolt Size (A)	Hole Size	Wt./100 Pcs.
SW-201-1/4"	1/4"	5/16"	14
SW-201-3/8"	3/8"	7/16"	14
SW-201-1/2"	1/2"	9/16"	14

F-202

Flat Plate Connector

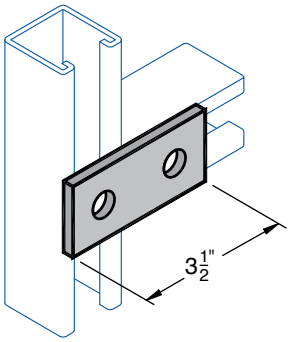
Wt. 50#/C



F-203

Two Hole Splice Plate

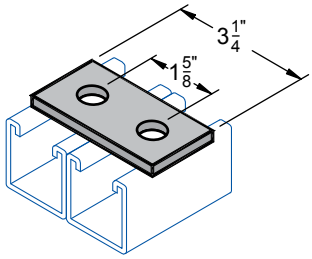
Wt. 37#/C



F-204

Splice Plate

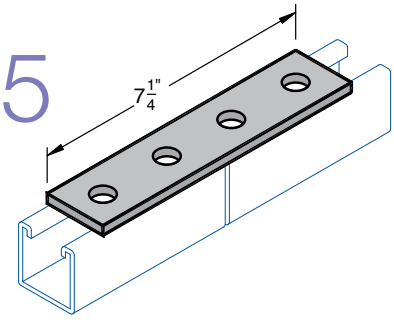
Wt. 34#/C



F-205

Four Hole Splice Plate

Wt. 76#/C



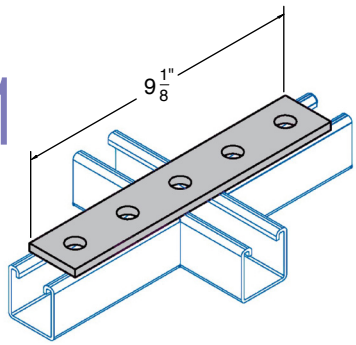
Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

Standard finish: Electrogalvanized. Other materials and finishes available upon request.

F-205-1

Five Hole Splice Plate

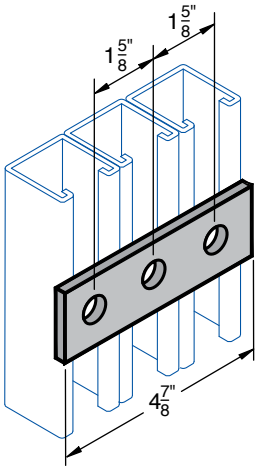
Wt. 96#/C



F-206-1

Three Hole Splice Plate

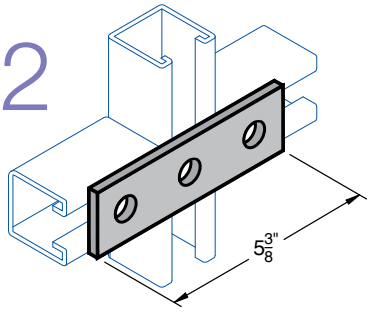
Wt. 51#/C



F-206-2

Three Hole Splice Plate

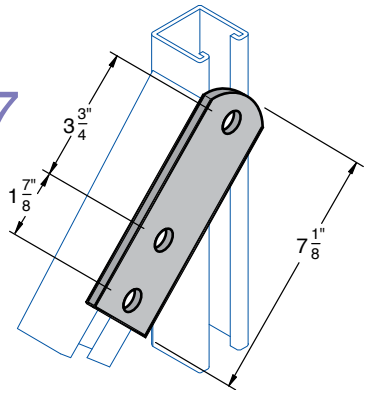
Wt. 57#/C



F-207

Three Hole Swivel

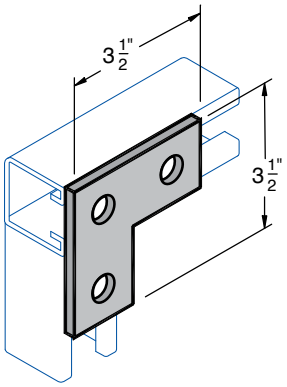
Wt. 75#/C



F-210

Three Hole Flat Angle Plate

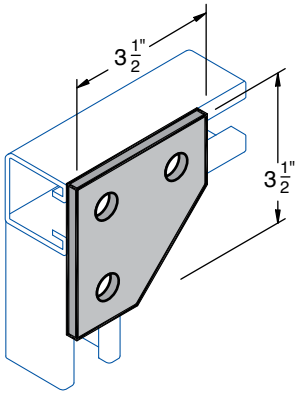
Wt. 56#/C



F-211

Three Hole Corner Connector

Wt. 69#/C



Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

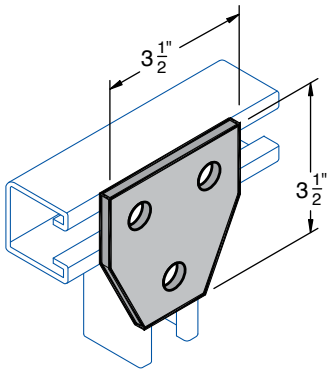
Standard finish: Electrogalvanized. Other materials and finishes available upon request.

Flat Plates

F-212

Three Hole Connection Plate

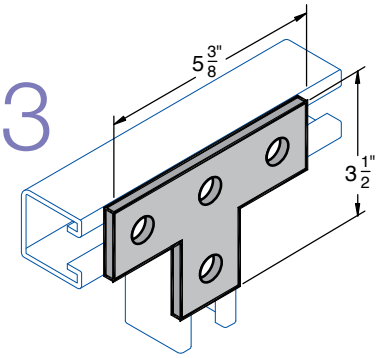
Wt. 70#/C



F-213

Four Hole Tee Plate

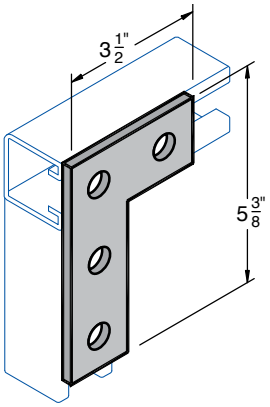
Wt. 77#/C



F-214

Four Hole Corner Joiner Plate

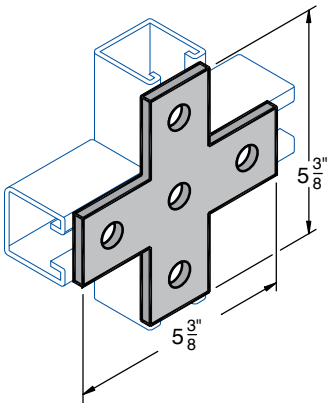
Wt. 75#/C



F-216

Cross Plate

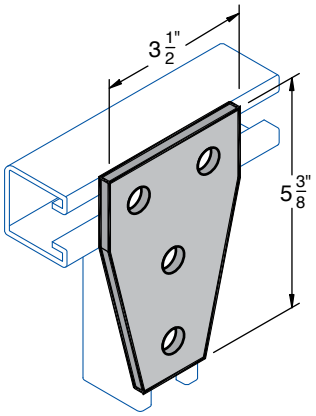
Wt. 100#/C



F-217

Four Hole Connector

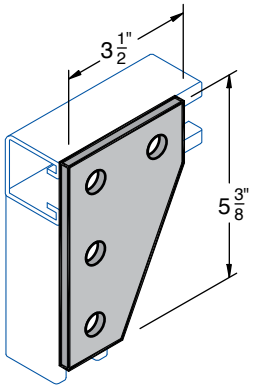
Wt. 100#/C



F-218

Four Hole Corner Connector

Wt. 101#/C



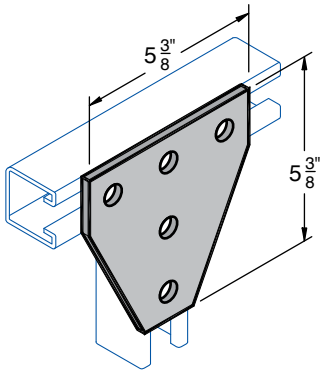
Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

Standard finish: Electrogalvanized. Other materials and finishes available upon request.

F-219

Five Hole Connector

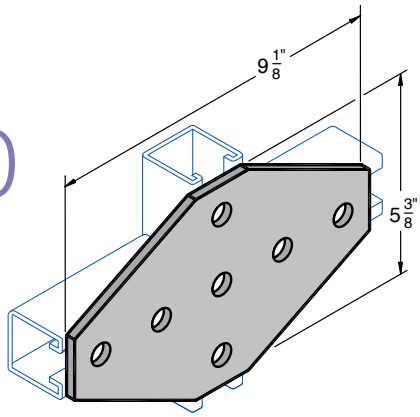
Wt. 146#/C



F-220

Seven Hole Connector

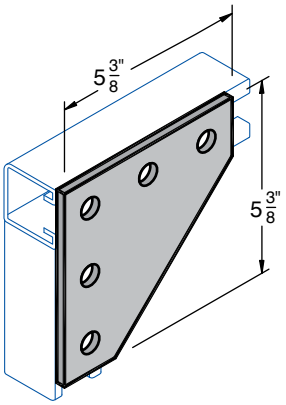
Wt. 236#/C



F-221

Flat Corner Connector

Wt. 146#/C



Standard dimensions unless otherwise noted: Thickness: $^{1}/_{4}$", Width: $1^{5}/_{8}$", Hole Diameter: $^{9}/_{16}$", Hole Spacing: $1^{7}/_{8}$" on center and $^{13}/_{16}$" from the end.

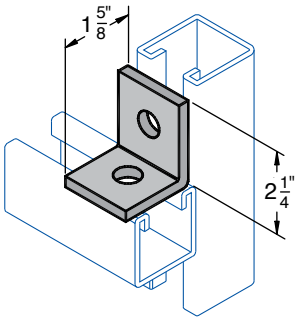
Standard finish: Electrogalvanized. Other materials and finishes available upon request.

Angle Brackets

A-301

Two Hole Corner Angle

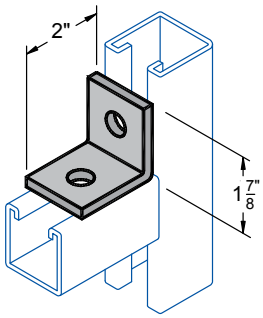
Wt. 37#/C



A-302

Connection Angle

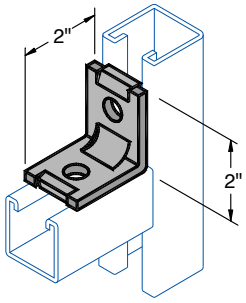
Wt. 37#/C



A-304

No-Twist Corner Angle (2 Indent)

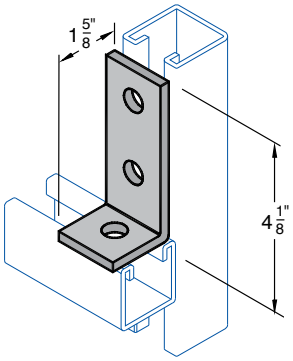
Wt. 39#/C



A-305

Three Hole 90° Bracket

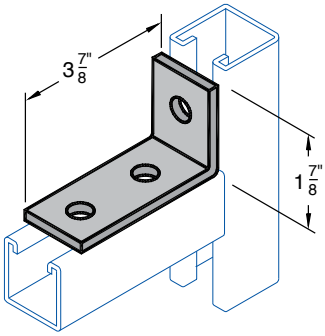
Wt. 57#/C



A-306

Three Hole Corner Connector

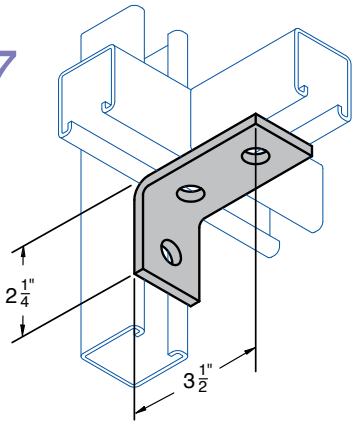
Wt. 57#/C



A-307

Three Hole Angle Bracket

Wt. 57#/C



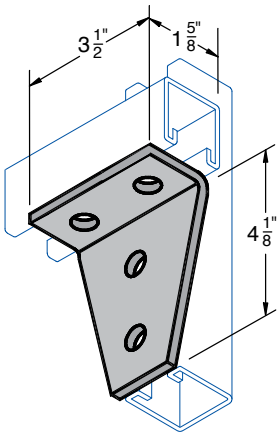
Standard dimensions unless otherwise noted: Thickness: $^{1}/_{4}$", Width: $1^{5}/_{8}$", Hole Diameter: $^{9}/_{16}$", Hole Spacing: $1^{7}/_{8}$" on center and $^{13}/_{16}$" from the end.

Standard finish: Electrogalvanized. Other materials and finishes available upon request.

A-309

Four Hole Joint Connector Angle

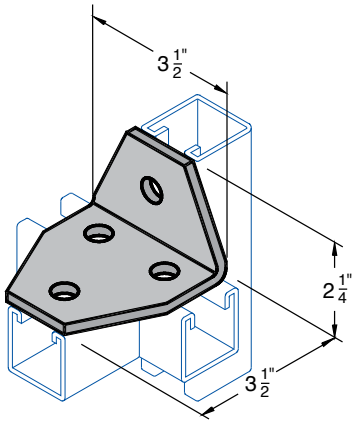
Wt. 102#/C



A-310

Four Hole Duplex Corner Angle

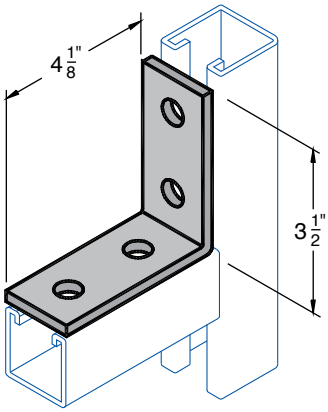
Wt. 101#/C



A-311

Four Hole Angle

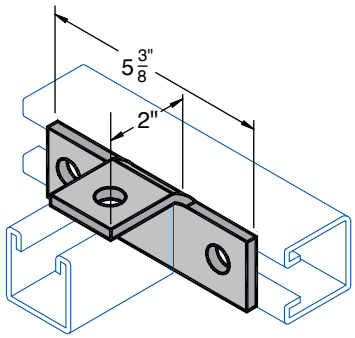
Wt. 78#/C



A-312

Four Hole 90° T-Plate Angle

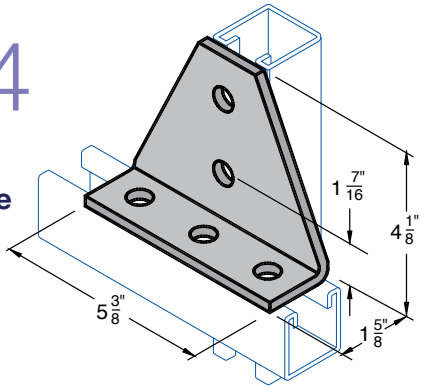
Wt. 77#/C



A-314

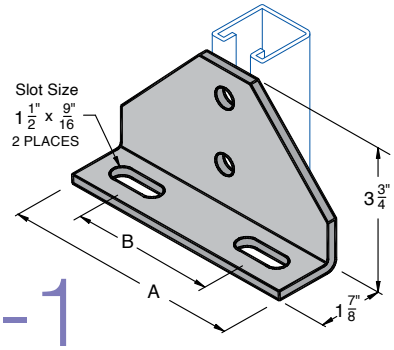
Five Hole Joint Connector Angle

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

Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

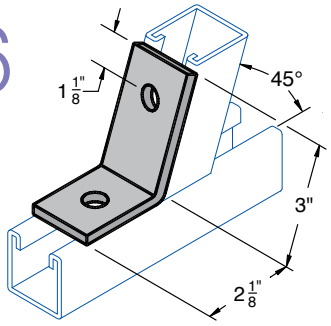
Standard finish: Electrogalvanized. Other materials and finishes available upon request.

Angle Brackets

A-316

Angle Fitting

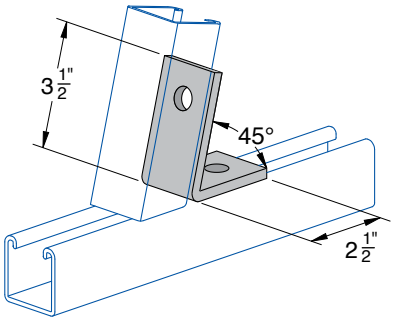
Wt. 60#/C



A-317

Two Hole Closed 45° Angle

Wt. 63#/C

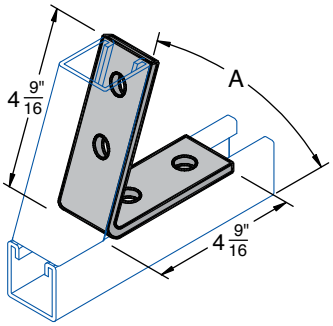


A-3174

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°

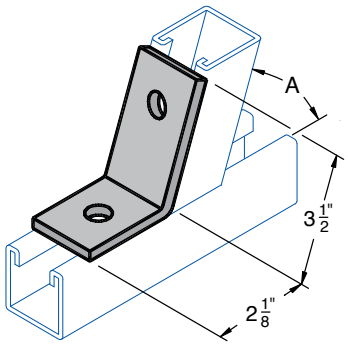


A-319

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°

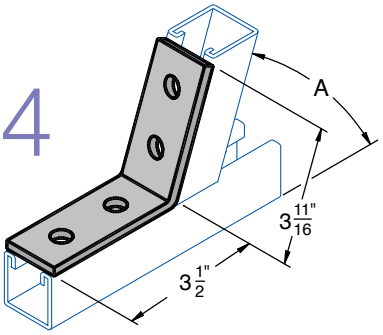


A-3194

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°



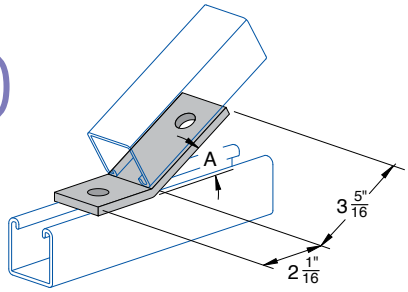
Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

Standard finish: Electrogalvanized. Other materials and finishes available upon request.

A-320

Open Angle Bracket

Wt. 59#/C



Catalog No.	A
A-320-1	30°
A-320-2	22½°

A-330-L

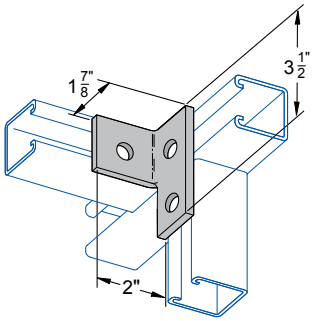
(Left hand)

A-330-R

(Right hand shown)

Three Hole 90° Angle

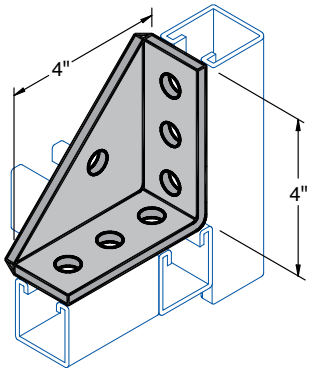
Wt. 54#/C



A-335

Universal Shelf Bracket

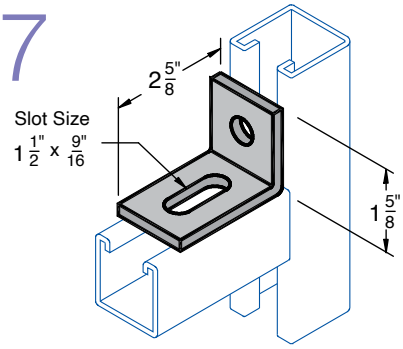
Wt. 132#/C



A-337

Slotted Angle

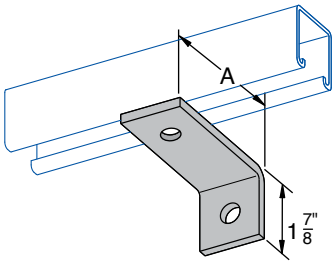
Wt. 38#/C



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

Standard dimensions unless otherwise noted: Thickness: ¼", Width: 1⅝", Hole Diameter: 9/16", Hole Spacing: 1⅞" on center and 13/16" from the end.

Standard finish: Electrogalvanized. Other materials and finishes available upon request.

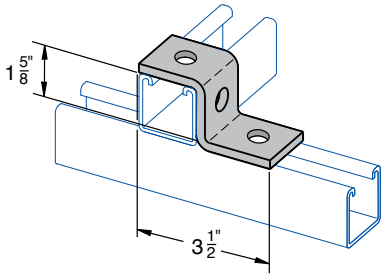
“Z” Angle Brackets

A-322

“Z” Angle

Wt. 54#/C

Use with H-132, H-134

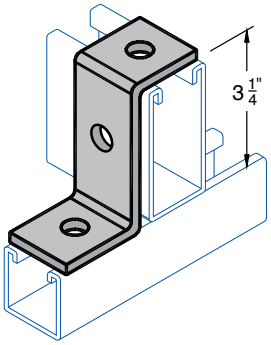


A-324

“Z” Angle

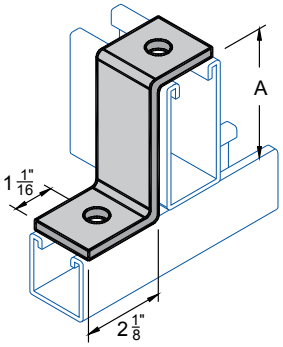
Wt. 70#/C

Use with H-112



A-323

“Z” Angle

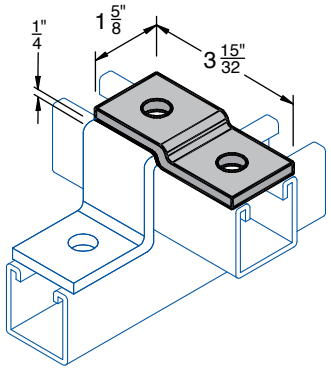


Catalog No.	A	Use With	Wt./100 Pcs.
A-323-22	$2^{7}/_{16}$"	H-122	66
A-323-42	$1^{3}/_{8}$"	H-142	53
A-323-62	$^{13}/_{16}$"	H-162, H-164	47

A-325

“Z” Angle Offset

Wt. 38#/C



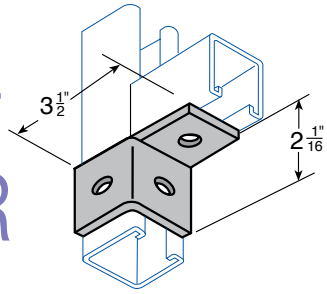
Standard dimensions unless otherwise noted: Thickness: $^{1}/_{4}$", Width: $1^{5}/_{8}$", Hole Diameter: $^{9}/_{16}$", Hole Spacing: $1^{7}/_{8}$" on center and $^{13}/_{16}$" from the end.

Standard finish: Electrogalvanized. Other materials and finishes available upon request.

Wing Fittings

A-321-L
(Left hand)

A-321-R
(Right hand shown)



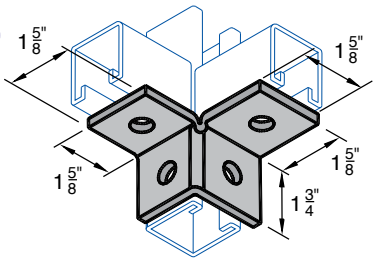
Three Hole Single Angle Connector

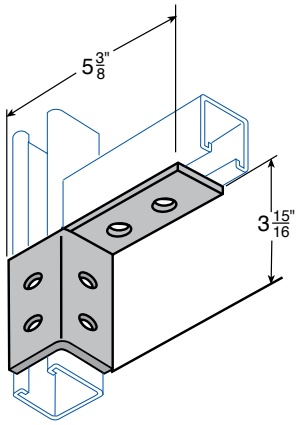
Wt. 60#/C

A-326

Four Hole Double Angle Connector

Wt. 76#/C



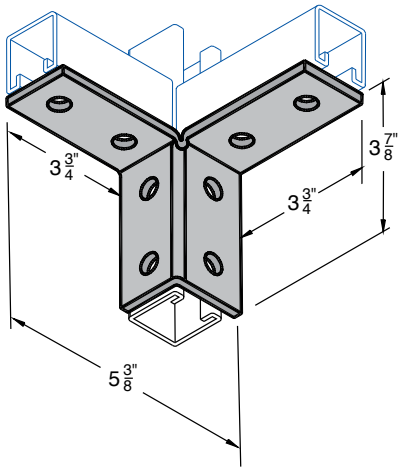


A-321-1-L
(Left hand)

A-321-1-R
(Right hand shown)

Six Hole Single Angle Connector

Wt. 119#/C



A-326-1

Eight Hole Double Angle Connector

Wt. 155#/C

Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

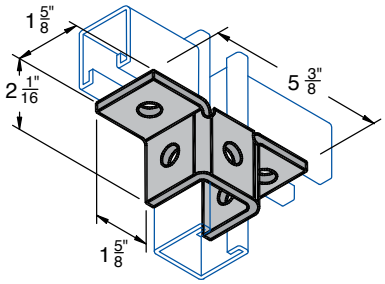
Standard finish: Electrogalvanized. Other materials and finishes available upon request.

Wing Fittings

A-327

Five Hole Double Angle Connector

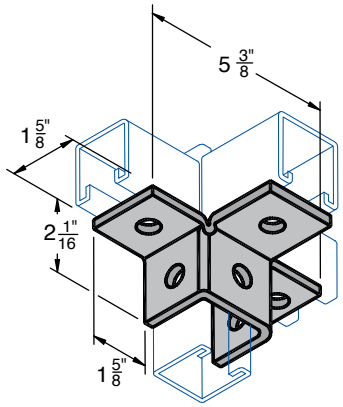
Wt. 93#/C

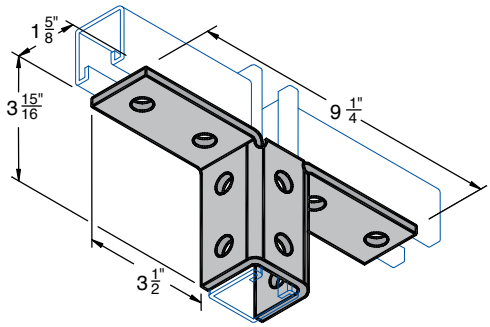


A-328

Six Hole Triple Angle Connector

Wt. 113#/C

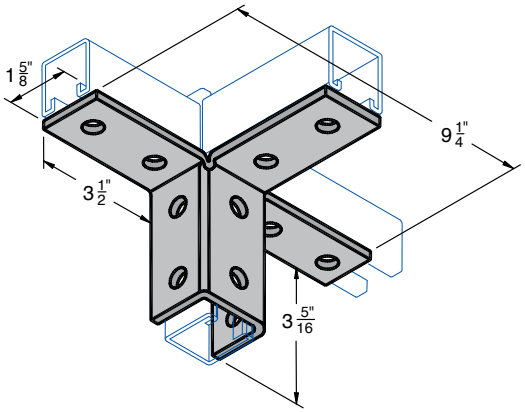




A-327-1

Ten Hole Double Angle Connector

Wt. 193#/C



A-328-1

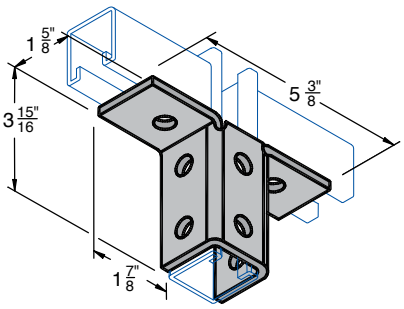
Twelve Hole Triple Angle Connector

Wt. 230#/C

A-327-2

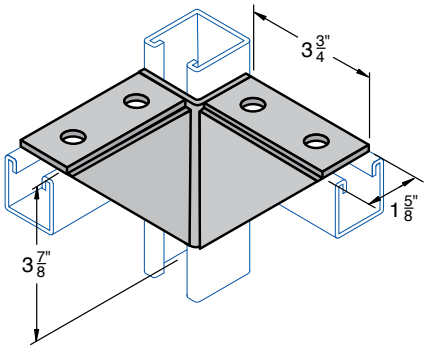
Eight Hole Double Angle Connector

Wt. 113#/C



Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

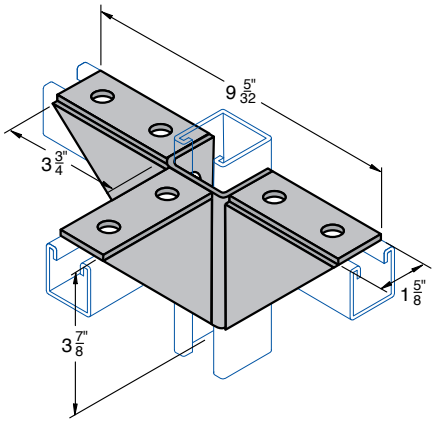
Standard finish: Electrogalvanized. Other materials and finishes available upon request.



A-329

Two Way Wing Gusset

Wt. 105#/C



A-329-1

Three Way Wing Gusset

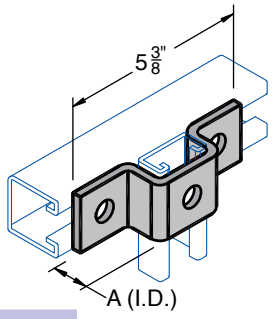
Wt. 105#/C

Standard dimensions unless otherwise noted: Thickness: $^{1}/_{4}$", Width: $1^{5}/_{8}$", Hole Diameter: $^{9}/_{16}$", Hole Spacing: $1^{7}/_{8}$" on center and $^{13}/_{16}$" from the end.
Standard finish: Electrogalvanized. Other materials and finishes available upon request.

“U” Shape Fittings

B-601

“U” Support

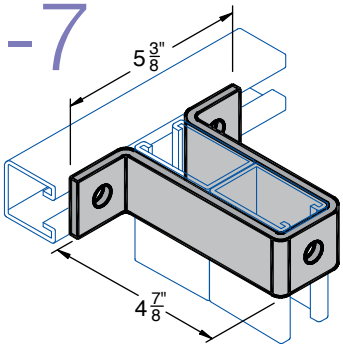


Catalog No.	A	Wt./100 Pcs.
B-601	13/16"	70
B-601-1	1"	75
B-601-2	1 3/8"	84
B-601-3	1 5/8"	85
B-601-4	2 7/16"	108
B-601-5	2 3/4"	116
B-601-6	3 1/4"	126
B-601-7	4 7/8"	157

B-601-7

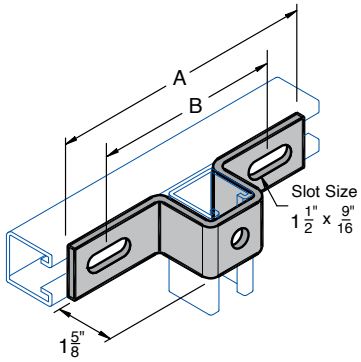
“U” Support

Wt. 157#/C



B-602

“U” Support

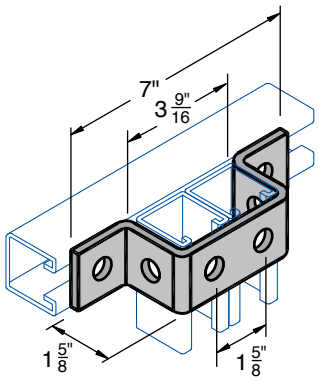


Catalog No.	A	B	Wt./100 Pcs.
B-602-1	7 1/4"	4 1/8"	103
B-602-2	8 1/2"	5 3/8"	115
B-602-3	10 3/8	7 1/4"	135

B-610

“U” Support

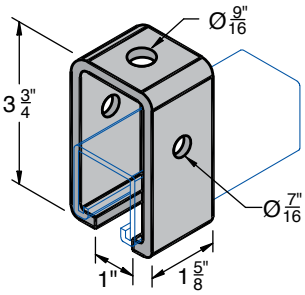
Wt. 105#/C



B-611

“U” Support

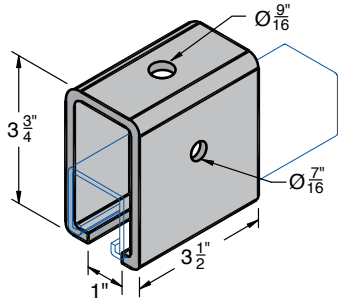
Wt. 107#/C



B-612

“U” Support

Wt. 233#/C



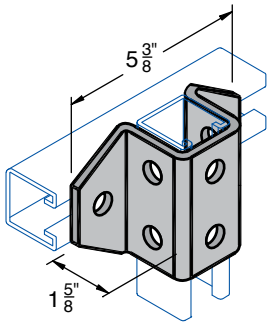
Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

Standard finish: Electrogalvanized. Other materials and finishes available upon request.

B-613

"U" Support

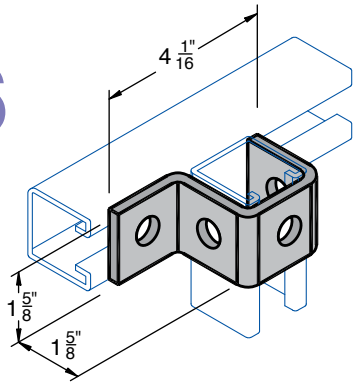
Wt. 167#/C



B-616

"U" Fitting

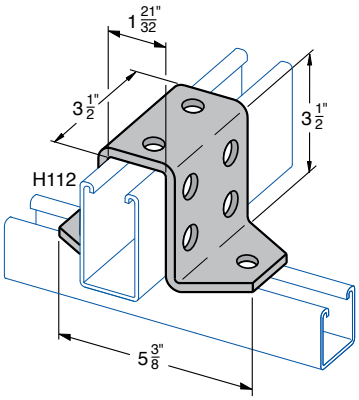
Wt. 88#/C



B-614

"U" Support

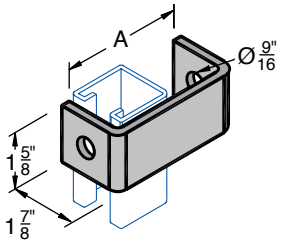
Wt. 266#/C



B-615

Clevis Connector

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



Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

Standard finish: Electrogalvanized. Other materials and finishes available upon request.

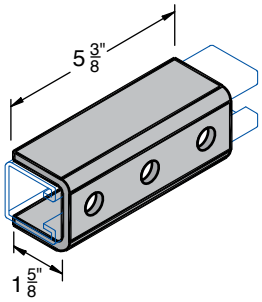
Splice Plates

B-604

Three Hole Splice Channel

Wt. 195#/C

Use with H-132, H-134

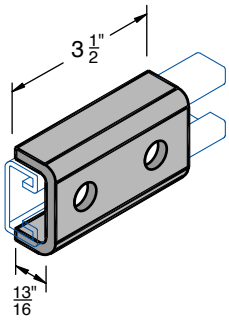


B-607

Two Hole Splice Channel

Wt. 76#/C

Use with H-162, H-164

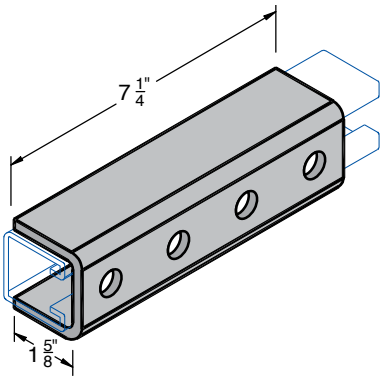


B-605

Four Hole Splice Channel

Wt. 233#/C

Use with H-132, H-134

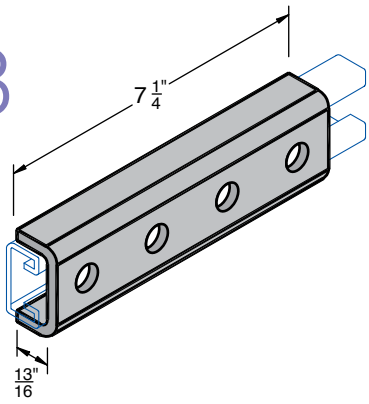


B-608

Four Hole Splice Channel

Wt. 128#/C

Use with H-162, H-164

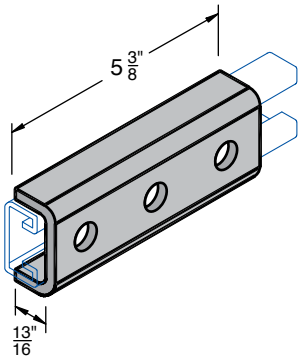


B-606

Three Hole Splice Channel

Wt. 116#/C

Use with H-162, H-164

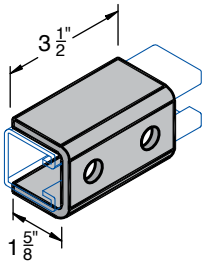


B-609

Two Hole Splice Channel

Wt. 123#/C

Use with H-132, H-134



Standard dimensions unless otherwise noted: Thickness: $^{1}/_{4}$", Width: $1^{5}/_{8}$", Hole Diameter: $^{9}/_{16}$", Hole Spacing: $1^{7}/_{8}$" on center and $^{13}/_{16}$" from the end.

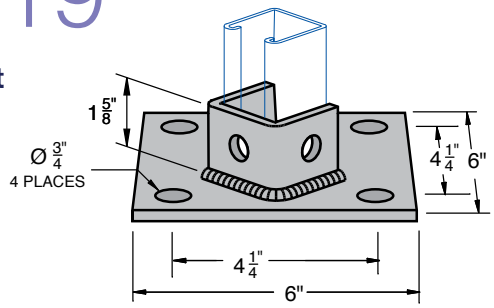
Standard finish: Electrogalvanized. Other materials and finishes available upon request.

Post Bases

B-619

Single Post Base

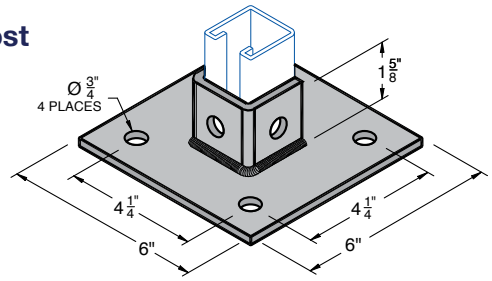
Wt. 307#/C



B-619-SQ

Single Post Base

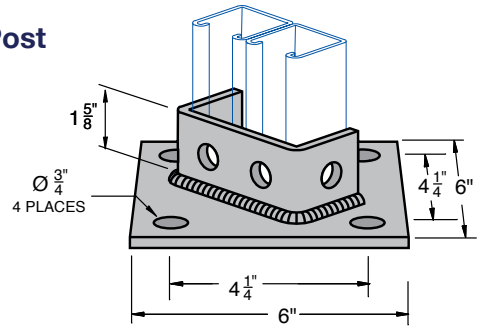
Wt. 314#/C



B-619-A

Double Post Base

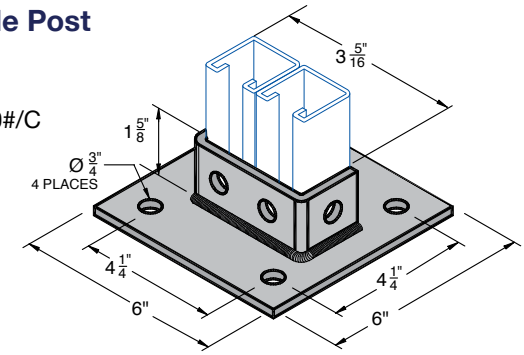
Wt. 325#/C



B-619A-SQ

Double Post Base

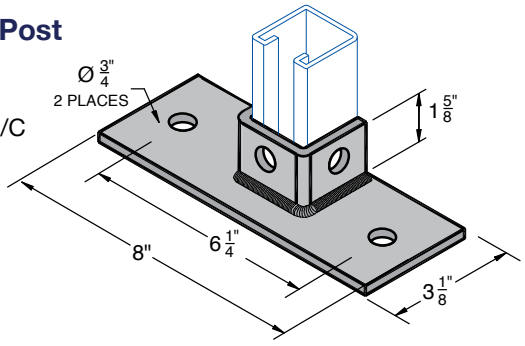
Wt. 330#/C



B-619-FL

Single Post Base

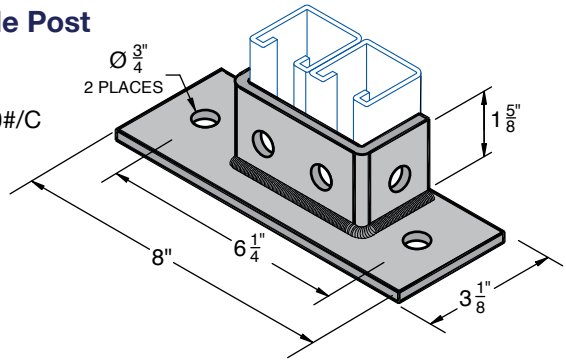
Wt. 230#/C



B-619A-FL

Double Post Base

Wt. 250#/C



Standard dimensions unless otherwise noted: Thickness: $^{1}/_{4}$", Width: $1^{5}/_{8}$", Hole Diameter: $^{9}/_{16}$", Hole Spacing: $1^{7}/_{8}$" on center and $^{13}/_{16}$" from the end.

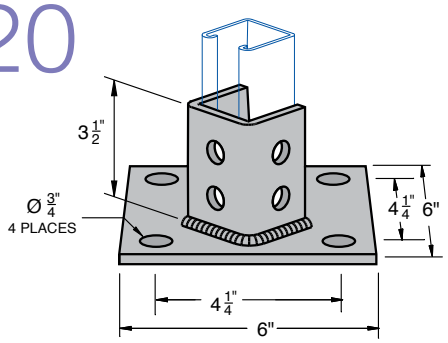
Standard finish: Electrogalvanized. Other materials and finishes available upon request.

Post Bases

B-620

Single Post Base

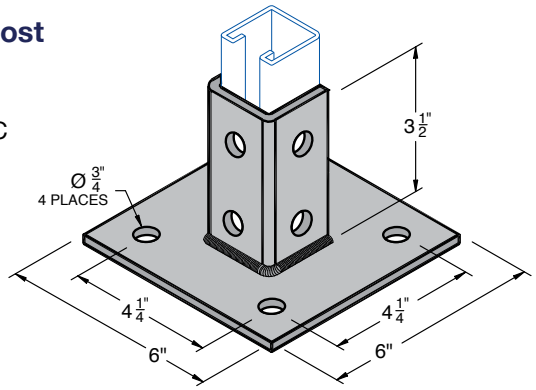
Wt. 373#/C



B-620-SQ

Single Post Base

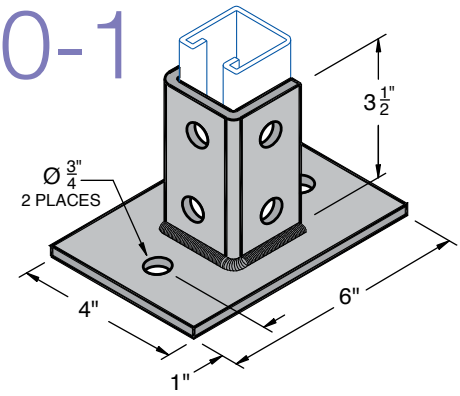
Wt. 373#/C



B-620-1

Single Post Base

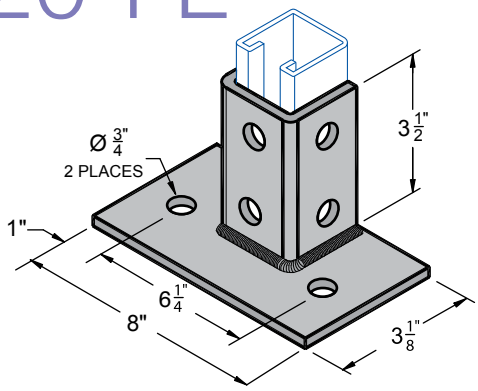
Wt. 358#/C



B-620-FL

Single Post Base

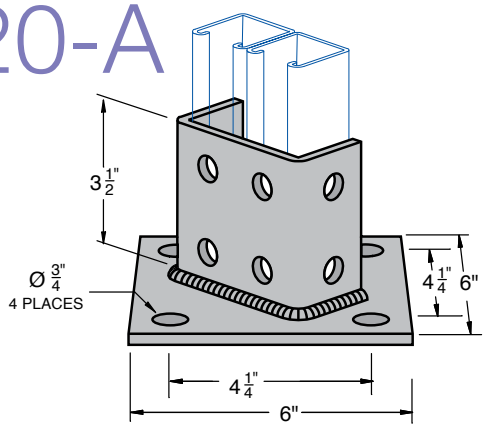
Wt. 358#/C



B-620-A

Double Post Base

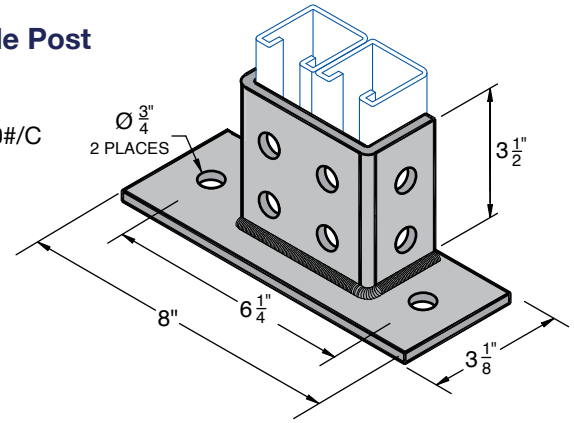
Wt. 408#/C



B-620A-FL

Double Post Base

Wt. 320#/C



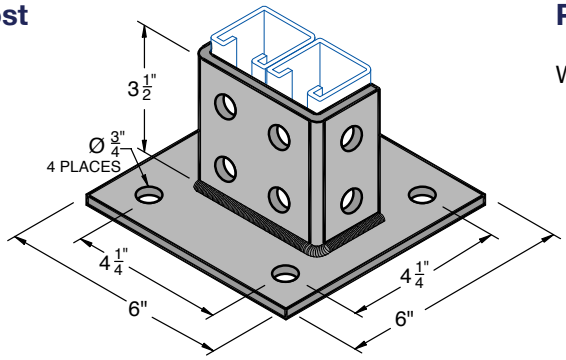
Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

Standard finish: Electrogalvanized. Other materials and finishes available upon request.

B-620A-SQ

Double Post Base

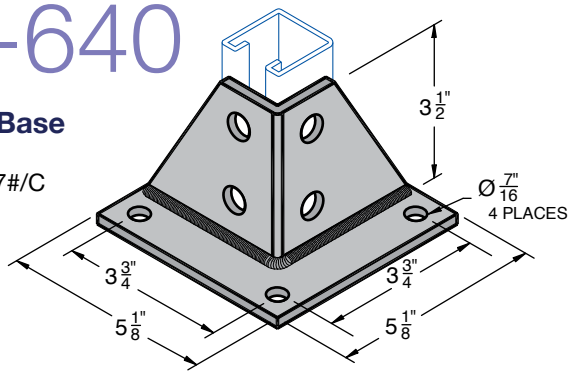
Wt. 408#/C



B-640

Post Base

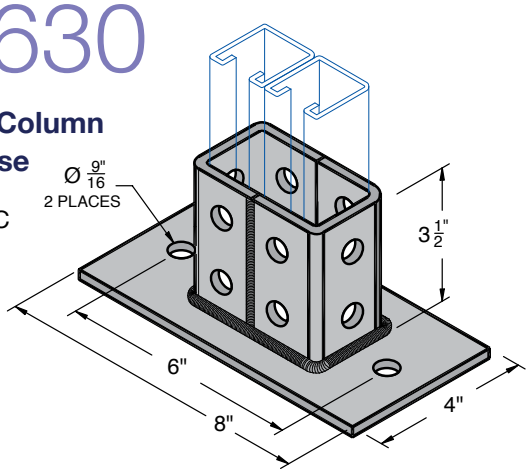
Wt. 297#/C



B-630

Double Column Post Base

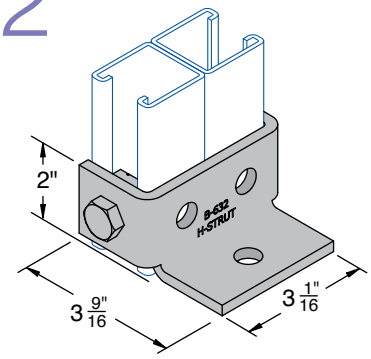
Wt. 311#/C



B-632

Double Post Base

Wt. 112#/C



Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

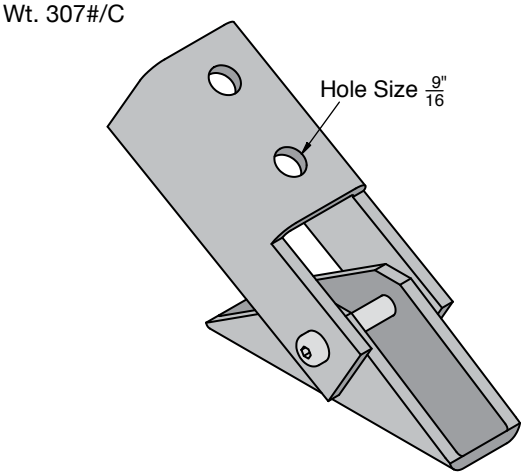
Standard finish: Electrogalvanized. Other materials and finishes available upon request.

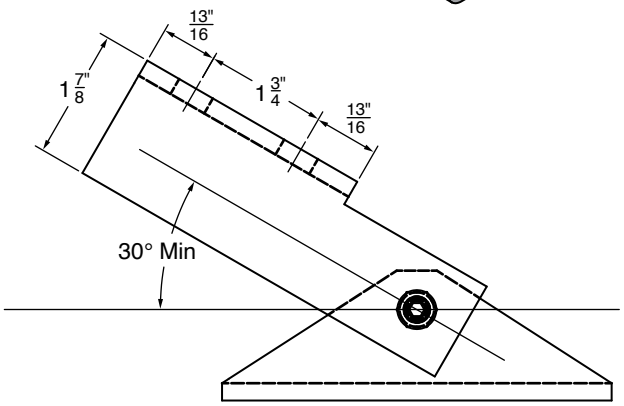
Specialty Fittings

AB-9400

Adjustable Base

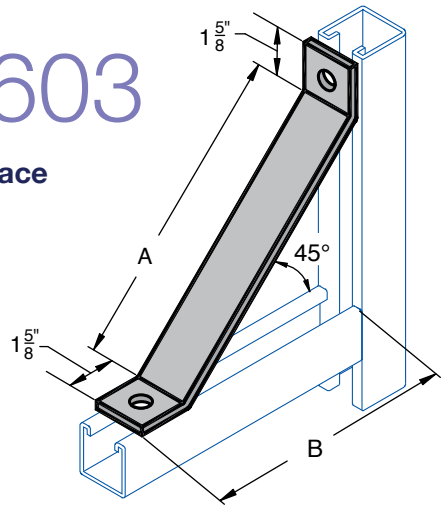
Wt. 307#/C





B-603

Knee Brace



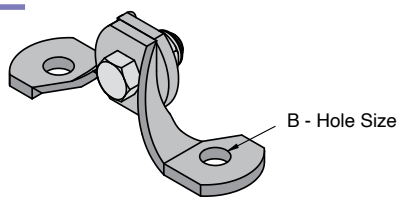
Catalog No.	A	B	Wt./100 Pcs.
B-603-1	16 5/8"	13 5/8"	232
B-603-2	12"	10 1/8"	175
B-603-3	24"	19 1/8"	317

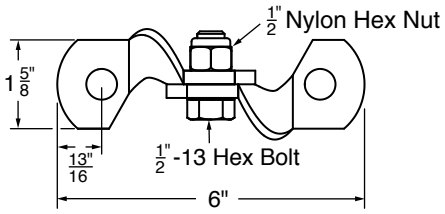
Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

Standard finish: Electrogalvanized. Other materials and finishes available upon request.

HC-208-2

Two Hole Hinge Connector

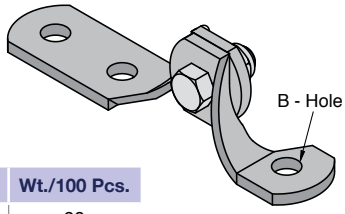


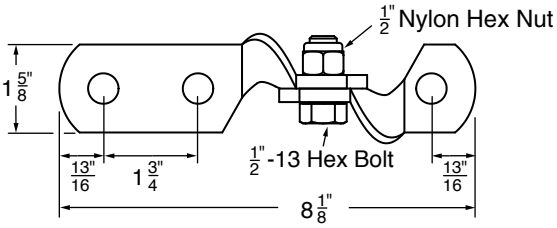


Catalog No.	Bolt Size (B)	Hole Size	Wt./100 Pcs.
HC-208-2 1/2"	1/2"	9/16"	90
HC-208-2 5/8"	5/8"	11/16"	88
HC-208-2 3/4"	3/4"	13/16"	86

HC-208-3

Three Hole Hinge Connector



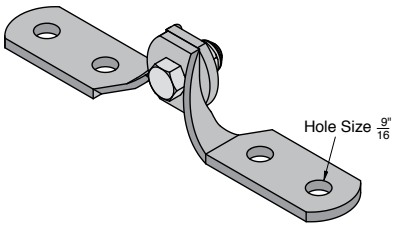


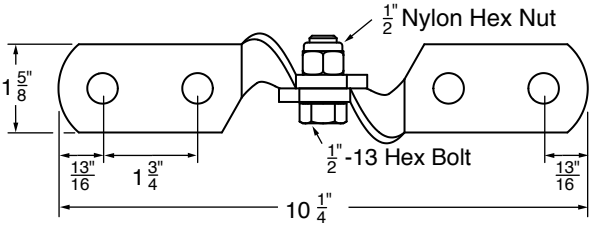
Catalog No.	Bolt Size (B)	Hole Size	Wt./100 Pcs.
HC-208-3 1/2"	1/2"	9/16"	90
HC-208-3 5/8"	5/8"	11/16"	88
HC-208-3 3/4"	3/4"	13/16"	86

HC-208-4

Four Hole Hinge Connector

Wt. 126#/C



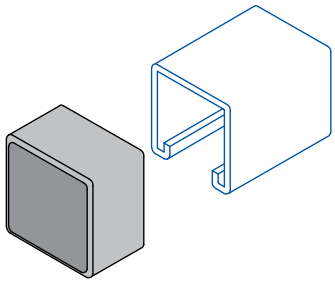


Standard dimensions unless otherwise noted: Thickness: 1/4", Width: 1 5/8", Hole Diameter: 9/16", Hole Spacing: 1 7/8" on center and 13/16" from the end.

Standard finish: Electrogalvanized. Other materials and finishes available upon request.

Specialty Fittings

Safety End Cap



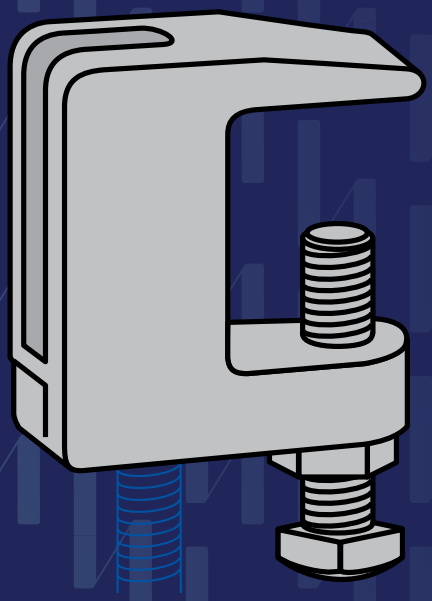
Plastic Red & White

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

Standard dimensions unless otherwise noted: Thickness: $^{1}/_{4}$", Width: $1^{5}/_{8}$", Hole Diameter: $^{9}/_{16}$", Hole Spacing: $1^{7}/_{8}$" on center and $^{13}/_{16}$" from the end.

Standard finish: Electrogalvanized. Other materials and finishes available upon request.

Beam Clamps



SPECIFICATIONS

General

Haydon's beam clamps are used to suspend the H-STRUT® system from overhead beams or vertical columns. The many options available provide a wide range of attachment options and load capacities.

Material

H-Strut fittings are manufactured from the following material:

- Steel (Standard) . . . . . ASTM A1011 or equivalent
- Stainless Steel (Type 304 or 316/316L) . . . . . ASTM A240
- Malleable Cast Iron

Finishes

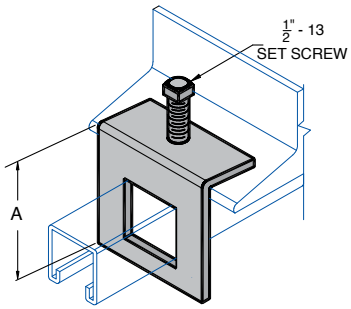
H-Strut standard steel beam clamps are available in the following finishes. Electrogalvanized is recommended for indoor applications and Hot-Dip Galvanized is recommended for outdoor applications.

- Electrogalvanized. . . . . ASTM B633
- Hot-Dip Galvanized . . . . . ASTM A123 or A153

Other materials and specifications are available upon request.

C-401

Beam Clamp

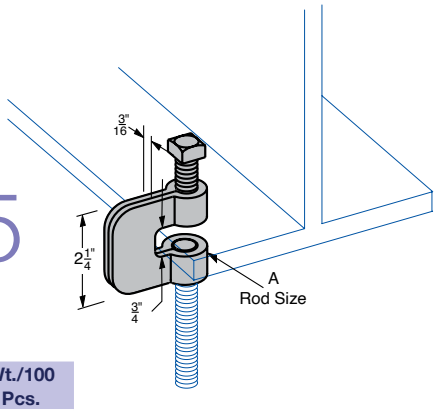


Catalog No.	Use With	A	Wt./100 Pcs.
C-401-1	H-132, H-134	3½"	107

Design Load: 450 lbs each (900 lbs total) when used in opposing pairs.

C-405

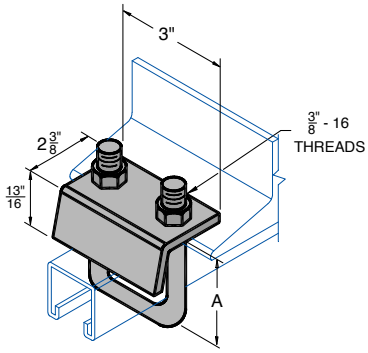
C-Clamp Steel



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

C-402

Beam Clamp



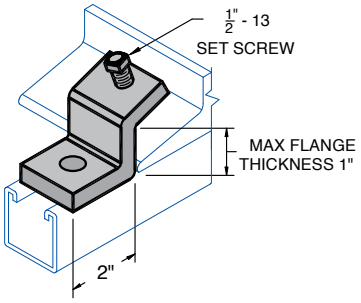
Catalog No.	A	Use With	Wt./100 Pcs.
C-402-132	3"	H-132, H-134, H-142, H-162, H-162-A, H-164, H-164-A, H-172	89
C-402-122	5"	H-112, H-122, H-132-A, H-134-A	92
C-402-112A	8 13/16"	H-112-A, H-122-A	115

Design Load: 600 lbs each (1,200 lbs total) when used in opposing pairs.

C-406

Beam Clamp

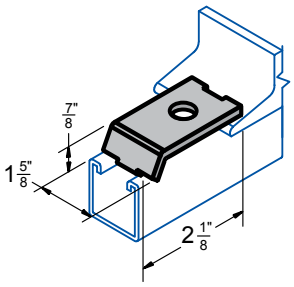
Wt. 66#/C



C-403

Beam Clamp

Wt. 30#/C



Notes:

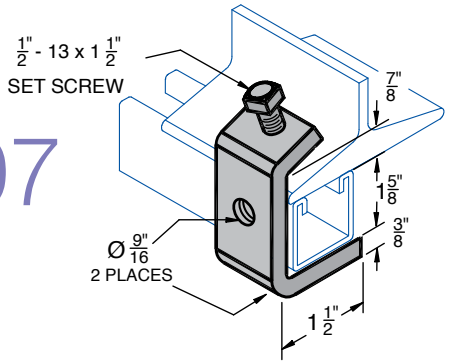
1. ½" bolt and channel nut are needed for assembly and are sold separately.
2. Design Load with 12-ga. Channel: 500 lbs each (1,000 lbs total) when used in opposing pairs.
3. Design Load with 14-ga. Channel: 400 lbs each (800 lbs total) when used in opposing pairs.

Standard finish: Electrogalvanized. Other finishes available upon request.

C-407

Beam Clamp

Wt. 92#/C

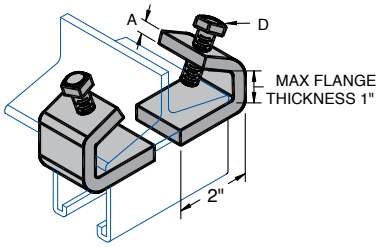


Note:

1. Design Load: 500 lbs each. Must be used in pairs.

C-408

Beam Clamp

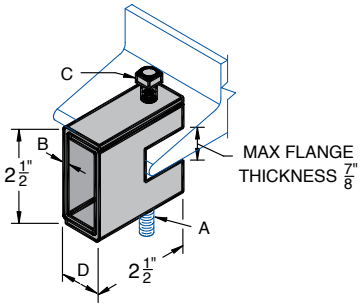


Catalog No.	A	Flange Thickness	D (Set Screw Included)	Wt./100 Pcs.
C-408-1/4"	1/4"	Up to 3/4"	3/8"-16 x 1 1/2"	41
C-408-3/8"	3/8"	Up to 3/4"	1/2"-13 x 1 1/2"	62

Standard finish: Electrogalvanized. Other finishes available upon request.

C-410

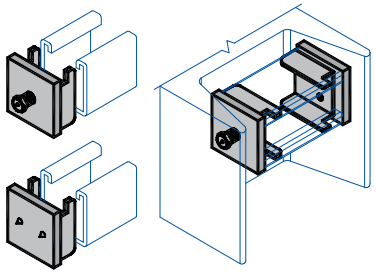
Beam Clamp



Catalog No.	A	B	C	D	Wt./100 Pcs.
C-410-1	1/4"-20	1/8"	3/8" x 1 1/2"	7/8"	67
C-410-4	3/8"-16	3/16"	1/2" x 1 1/2"	1/16"	100
C-410-5	1/2"-13	3/16"	1/2" x 1 1/2"	1/16"	100
C-410-6	1/2"-13	1/4"	1/2" x 1 1/2"	1/16"	100
C-410-7	5/8"-11	1/4"	1/2" x 1 1/2"	1/16"	130
C-410-8	5/8"-11	5/16"	5/8" x 1 1/2"	1 1/16"	160

C-412

Column Beam Clamp



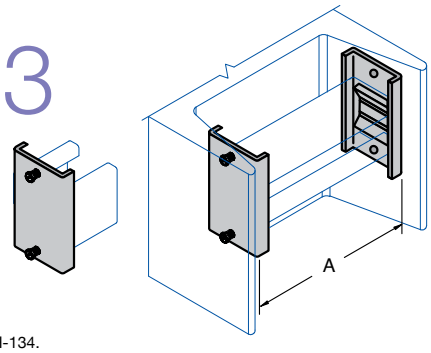
Wt. 53#/C (pair)

Notes:

1. Use only with 1 5/8" x 1 5/8" 12-ga. Channel — H-132 and 1 5/8" x 1 5/8" 14-ga. Channel — H-134
2. Sold only in pairs.

C-413

Column Beam Clamp



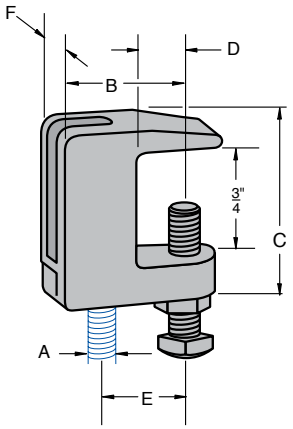
Wt. 272#/C (pair)

Notes:

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

C-420

Top Beam Clamp



Catalog No.	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"	400	30
C-420-2	1/2"	1 5/8"	1 1/2"	3/4"	1 1/4"	7/8"	500	39
C-420-3	5/8"	1 1/2"	1 1/2"	3/4"	1 3/32"	1"	500	40

Material: Malleable Iron

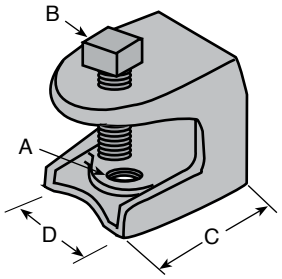
Standard finish: Plain/Electrogalvanized

Application: Recommended for use under roof installations with bar joist type construction where thickness of joist does not exceed 5/8".

Ordering: Specify part number, rod size and finish.

C-440

Electrical Beam Clamp



Catalog No.	A	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-440-3/8	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"	400	130

Material: Malleable Iron

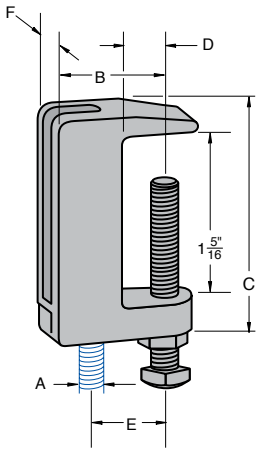
Standard finish: Electrogalvanized

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

Ordering: Specify part number and rod size.

C-430

Beam Clamp



Catalog No.	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

Material: Malleable Iron

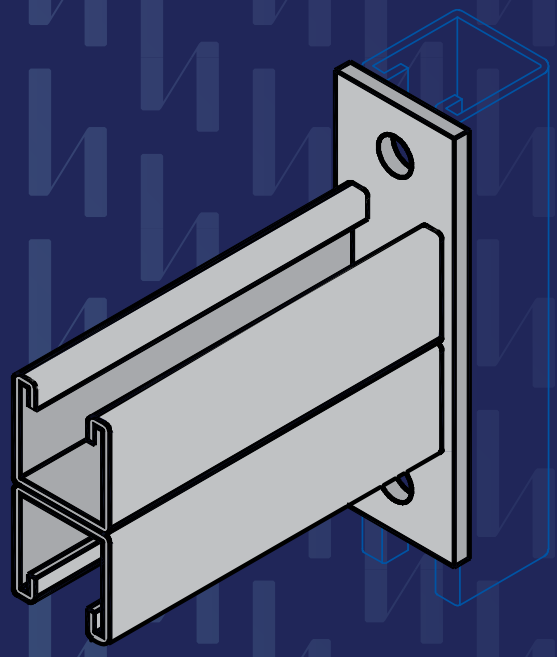
Standard finish: Electrogalvanized

Application: Recommended for use under roof installations with bar joist type construction where thickness of joist does not exceed 1 1/4".

Ordering: Specify part number, rod size and finish.

Standard finish: Electrogalvanized. Other finishes available upon request.

Brackets



SPECIFICATIONS

General

Haydon's channel brackets are available in many different lengths, sizes and finishes to accommodate various applications.

Material

H-STRUT® hanging supports are produced from our standard channels:

- Steel (Standard) . . . . . ASTM A1011 or equivalent
- Stainless Steel (Type 304 or 316/316L) . . . . . ASTM A240

Finishes

H-Strut standard brackets are available in the following finishes. Electrogalvanized is recommended for indoor applications and Hot-Dip Galvanized is recommended for outdoor applications.

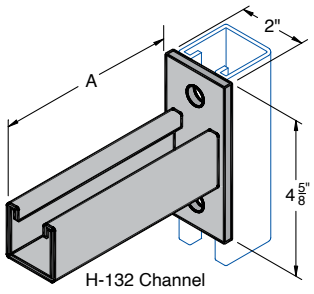
- Electrogalvanized. . . . . ASTM B633
- Hot-Dip Galvanized . . . . . ASTM A123

Other materials and specifications are available upon request.

Ordering

Specify catalog number, size, material and finish.

T-610



Single Channel Bracket

Ordering: Specify catalog number and finish.

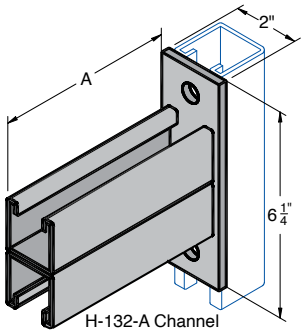
Catalog No.	A	Uniform Load Capacity (lbs)
T-610-6"	6"	1,250
T-610-12"	12"	750
T-610-18"	18"	500
T-610-24"	24"	300

Notes:

1. Loads are for bracket mounted to 12-ga. Channel with two $^1/_2$" bolts and channel nuts.

2. Safety factor = 2.5

T-611



Double Channel Bracket

Ordering: Specify catalog number and finish.

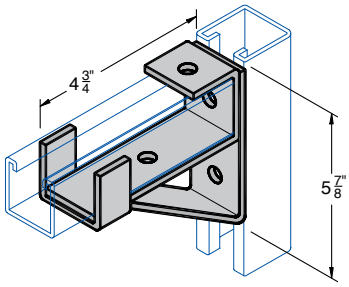
Catalog No.	A	Uniform Load Capacity (lbs)
T-611-6"	6"	2,800
T-611-12"	12"	1,620
T-611-18"	18"	1,230
T-611-24"	24"	900
T-611-30"	30"	720
T-611-36"	36"	600

Notes:

1. Loads are for bracket mounted to 12-ga. Channel with two $^1/_2$" bolts and channel nuts.

2. Safety factor = 2.5

T-615

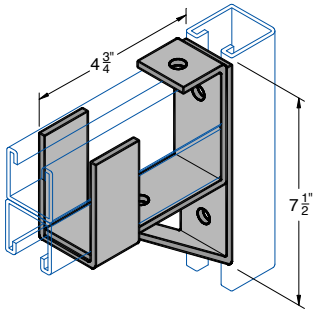


Single Channel Bracket Support

Wt. 230#/C

Use with H-132, H-134

T-616

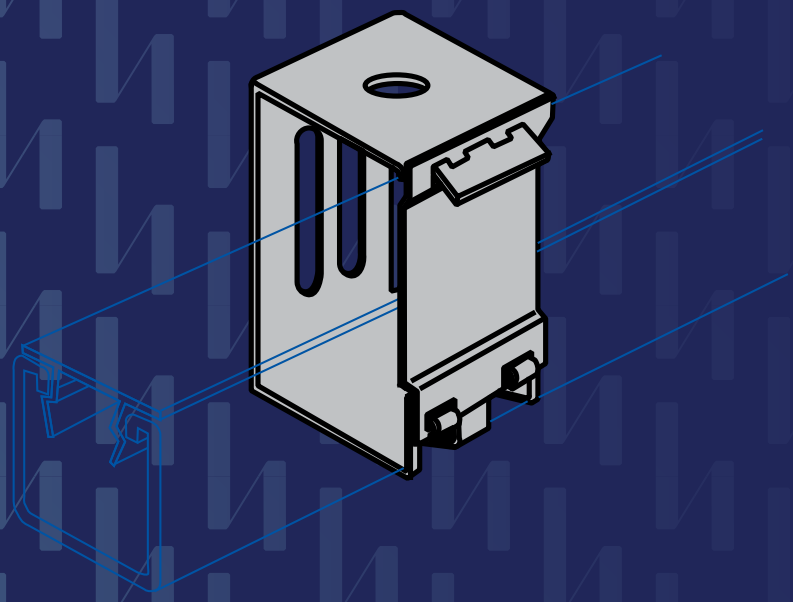


Double Channel Bracket Support

Wt. 275 #/C

Use with H-132-A, H-134-A, H-112

Electrical



SPECIFICATIONS

General

Haydon offers a UL Listed strut-type channel raceway system in accordance with the 2023 National Electrical Code (NEC / NFPA 70). This system allows Haydon's H-132 and H-132-KO standard channels to be used as the wiring raceway, as well as the support for various electrical systems.

UL Listings

- E344910: Strut-Type Channel Raceway
- E344918: Strut-Type Channel Raceway Fittings

Material

Steel channel, closure strips and accessories are manufactured from steel meeting the minimum mechanical properties of ASTM A1011 SS Grade 33.

- Steel (Standard) . . . . . ASTM A1011 or equivalent

Finishes

Channels, closure strips and accessories are available in the following finishes:

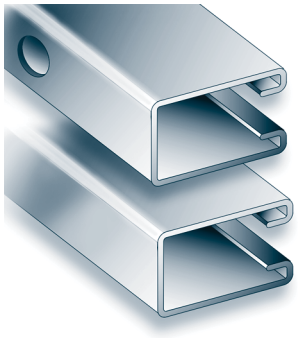
- Pre-Galvanized Steel . . . . . ASTM A653 SS Grade 33, G90
- Electrogalvanized. . . . . ASTM B633

Other materials and specifications are 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.

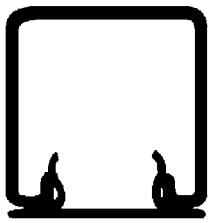
Insulation Type	Wire Size AWG	Max Number of Wires (40% Wire Fill Area)			
		H-112 H-112-KO	H-122 H-122-KO	H-132, H-134, H-132-KO, H-134-KO	H-142 H-142-KO
AVA	14	36	26	17	14
	12	29	21	14	11
	10	25	18	12	9
	8	21	15	10	8
	6	12	9	6	4
AVB, RH, RHH, RHW	14	50	37	24	19
	12	42	31	20	16
	10	36	26	17	14
	8	19	14	9	7
	6	12	9	6	4
FEP, FEPB, THHN, XHHN	14	172	126	81	67
	12	125	92	59	48
	10	80	59	38	31
	8	44	32	21	17
	6	23	17	11	9
RUH, RUW, T, TW, XHHW	14	123	90	58	47
	12	93	68	44	36
	10	70	51	33	27
	8	38	28	18	14
	6	23	17	11	9
THW	14	82	60	39	32
	12	67	49	32	26
	10	55	40	26	21
	8	27	20	13	10
	6	21	15	10	8



Knockout

Standard

The following table 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 $^1/_2$" between fixture and raceway exists.

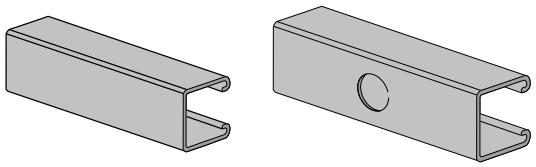


Insulation Type	Wire Size AWG	H-112 H-112-KO	H-122 H-122-KO	H-132, H-134, H-132-KO, H-134-KO	H-142 H-142-KO
AVA, AVB, FEP, FEPB, RH, RHH, RHW, RUH, THHN, THWN, THW, XHHW	14	10	10	10	10
	12	10	10	10	10
	10	8	5	5	5
	8	6	4	4	4
	6	4	4	4	3

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

H-132 & H-132-KO – $1^{5}/_{8}$" X $1^{5}/_{8}$" 12 Gauge Channel & Channel with Knockouts

(See pages 18-19)



Suitable for 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 2023 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 internal or 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.

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

Insulation Type	Wire Size AWG	No. Wires H-132, H-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, THHN, XHHN	14	81
	12	59
	10	38
	8	21
	6	11
RUH, RUW, T, TW, XHHW	14	58
	12	44
	10	33
	8	18
	6	11
THW	14	39
	12	32
	10	26
	8	13
	6	10

Table - 2

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

Table - 3

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

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

C-900

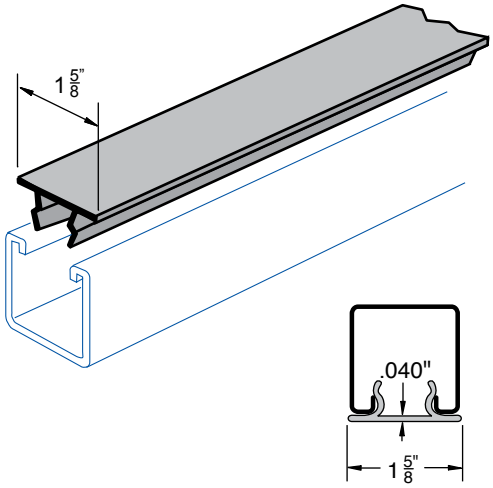
Closure Strip

Wt. 47#/C ft.

Haydon's C-900 Closure Strip is UL Listed and can be used as a cover for enclosing H-STRUT® channel for use as a Strut-Type Channel Raceway. This product easily snaps into the channel and can be inserted before or after the installation. This closure strip fits all H-Strut $1^{5}/_{8}$" wide channel sizes.

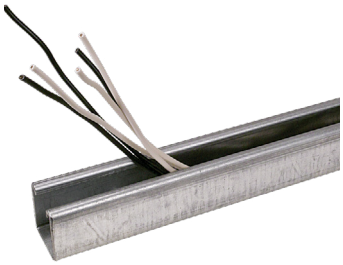
Standard length: 10'

Standard finish: Pre-Galvanized

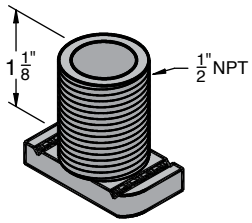


Installation

Step 1 - Place wires in the channel.



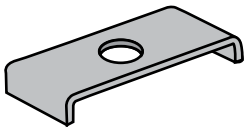
Step 2 - The C-900 Closure Strip is snapped into place to create a raceway.



E-502

Aluminum Wire Stud $^{1}/_{2}$"

Wt. 8#/C

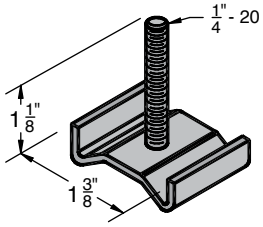


E-503

Fluorescent Fixture Nut

Wt. 2#/C
Tapped for $^{1}/_{4}$"- 20 thd.

Standard finish: Electrogalvanized



E-503-SN

Fixture Stud Nut

Wt. 4#/C
$^{1}/_{4}$"- 20 thd. x $1^{1}/_{4}$" long

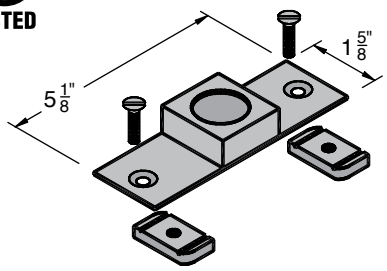
Standard finish: Electrogalvanized

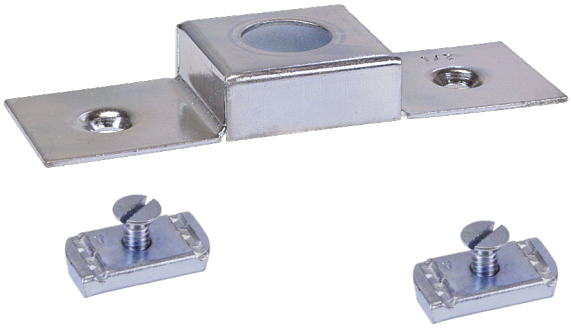
E-501

1/2" or 3/4" Conduit Connector Plate

Wt. 28#/C

Standard finish: Electrogalvanized



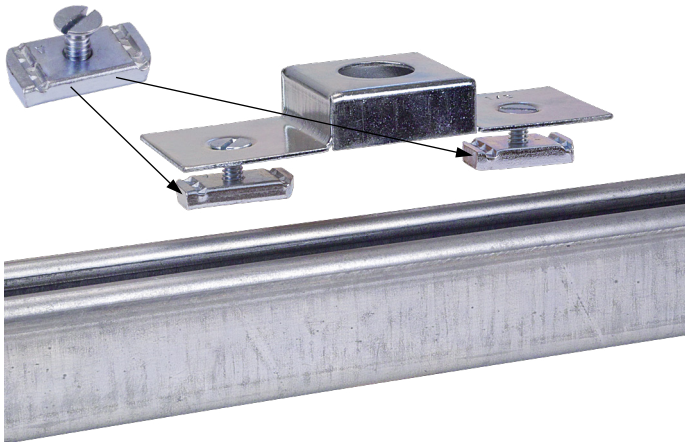


(2) 1/4-20 X 5/8" long flat head machine screws and channel nuts shown are not supplied and must be ordered separately. See page 41 of this catalog for Haydon Channel Nuts.

Channel nuts and flat head machine screws are used to fasten the connector plate to the channel. The channel nut is placed as shown (parallel to the channel) and inserted.

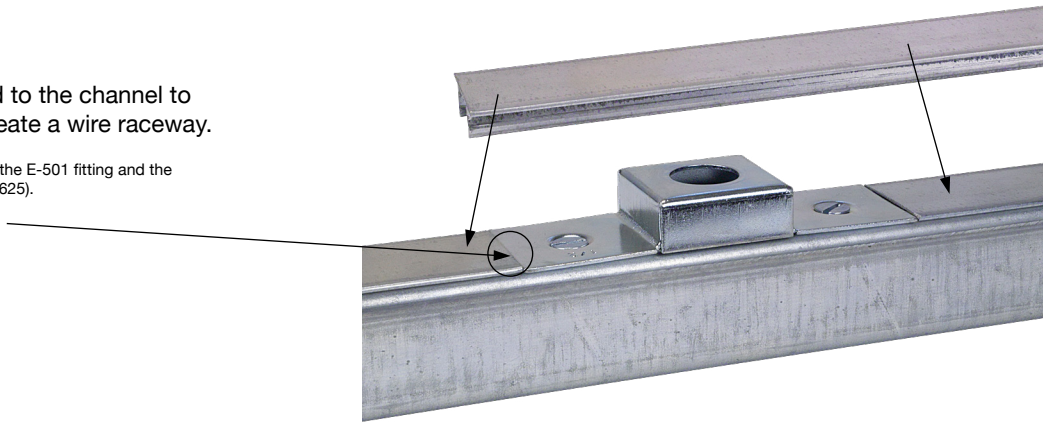
When the screw is tightened, the channel nut will rotate 90° and the teeth in the nut will bite into the channel to ensure a secure connection.

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



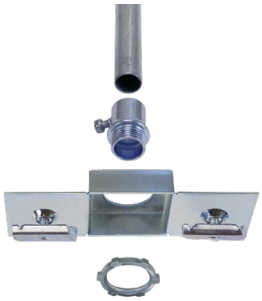
Closure strips are added to the channel to protect the wires and create a wire raceway.

Note: Be sure that the gap between the E-501 fitting and the closure strip is no more than 1/16" (.0625).

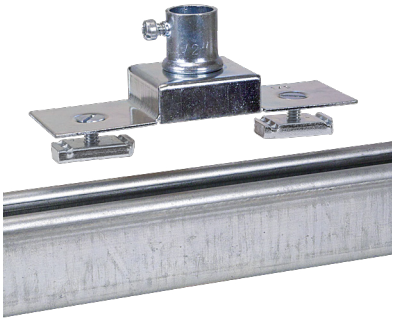


E-501 Application Examples

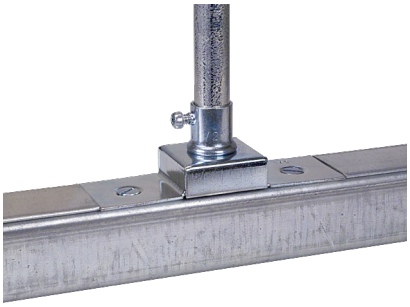
EMT Conduit



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

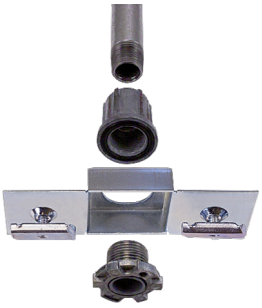


The conduit connector is added to the conduit connector plate and the subassembly is installed as shown on the previous page.

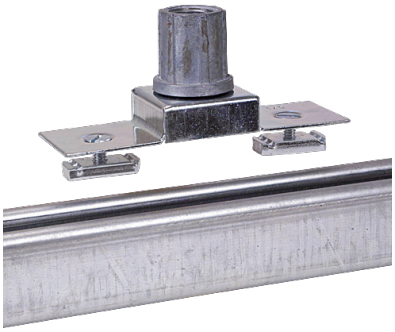


EMT conduit can now be attached to the subassembly.

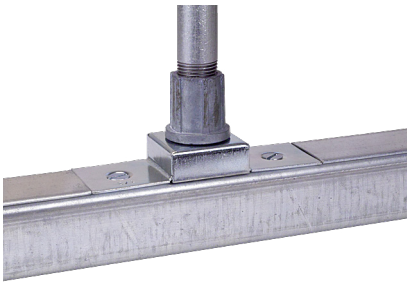
Rigid Conduit



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

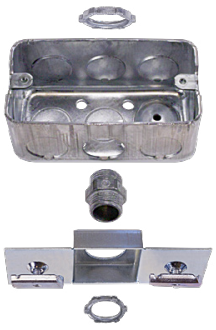


The conduit connector is added to the conduit connector plate and the subassembly is installed as shown on the previous page.

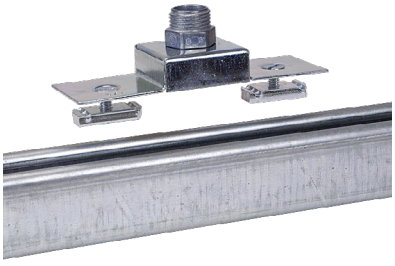


Rigid/GRC conduit can now be attached to the subassembly.

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-504

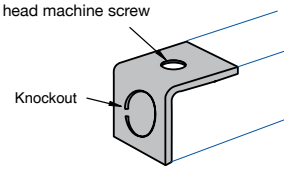
LISTED

Conduit End Cap
For 1/2" or 3/4" Conduit

Catalog No.	Conduit Size	UL Listed	For Use With	Wt./100 Pcs.
E-504-1-1/2 KO	1/2"	-	2 7/16" x 1 5/8" 12-ga. Channel – H-122	27
E-504-2-1/2 KO	1/2"	UL	1 5/8" x 1 5/8" 12-ga. Channel – H-132	24
E-504-2-3/4 KO	3/4"	UL		24
E-504-3-1/2 KO	1/2"	-	1 3/8" x 1 5/8" 12-ga. Channel – H-142	21

1/4"-20 5/8" long flat head machine screw and strut nut supplied.

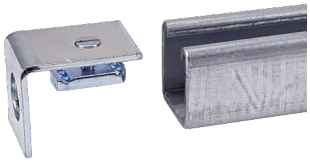
Hole for 1/4-20 x 5/8" for flat head machine screw



Installation

A channel 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 knockout is used to connect conduit as shown in the application examples.

Application Examples

EMT Conduit

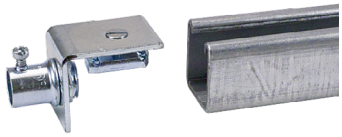
The conduit connector and associated nut are attached to the end cap prior to insertion.

Then, the end cap assembly is inserted and tightened.

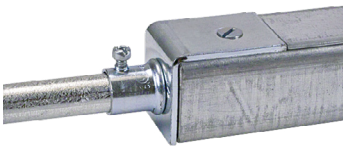
A piece of conduit is added to the conduit connector fastened by the conduit screw.

Standard UL approved parts for conduit connection are used for this example.

Insert assembly, and tighten the machine screw.



Attach the conduit.



Rigid Conduit

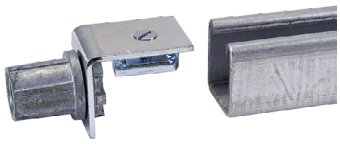
The rigid connector and associated nut are attached to the end cap prior to insertion.

Then, the end cap assembly is inserted and tightened.

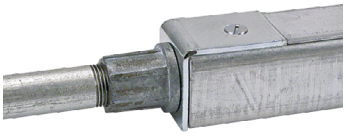
A piece of rigid conduit is threaded into the conduit connector.

Standard UL approved parts for conduit connection are used for this example.

Insert assembly, and tighten the machine screw.



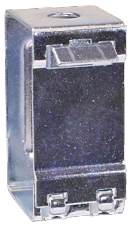
Attach the conduit.



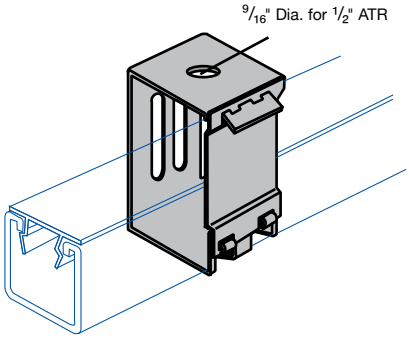
E-505

Snap-Type Raceway Hanger

Catalog No.	For Use With	UL Listed	Wt./100 Pcs.
E-505	1 5/8" x 1 5/8" 12-ga. Channel – H-132	UL	25
E-505	1 5/8" x 1 5/8" 14-ga. Channel – H-134 1 3/8" x 1 5/8" 12-ga. Channel – H-142	-	25
E-505H	3 1/4" x 1 5/8" 12 ga. Channel – H-112 2 7/16" x 1 5/8" 12-ga. Channel – H-122	-	45

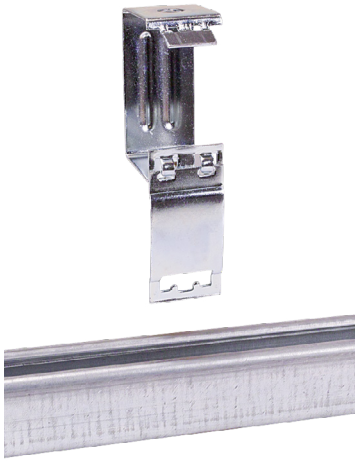


Maximum Design Load is 120 lbs. Safety factor of 3.

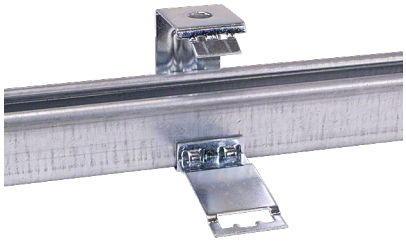


Installation

Step 1 - The hanger is opened by releasing snap.



Step 2 - The channel is placed in the hanger and the snap cover is closed.



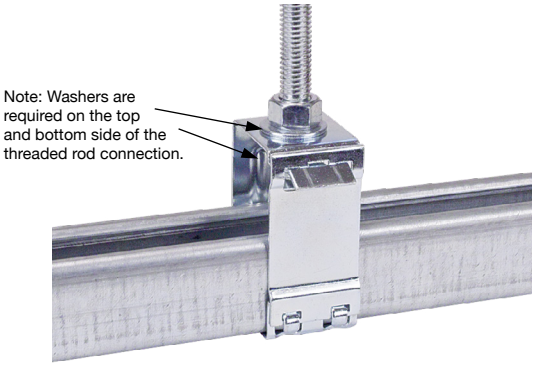
Step 3

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

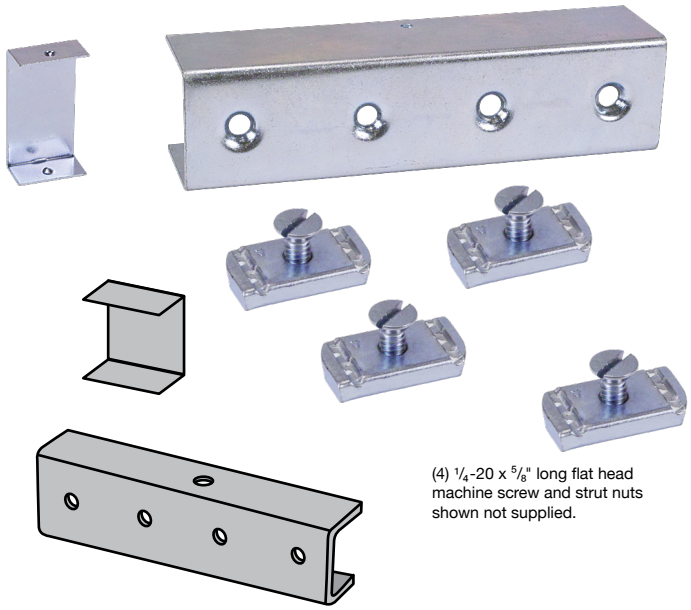
Four Hole Splice Clevis with Splice Clip

Standard finish: Electrogalvanized

Includes splice clip only on E-510-2.

Hardware not included.

Catalog No.	For Use With	UL Listed	Wt./100 Pcs.
E-510-1	$2^{7}/_{16}$" x $1^{5}/_{8}$" 12-ga. Channel – H-122	-	115
E-510-2	$1^{5}/_{8}$" x $1^{5}/_{8}$" 12-ga. Channel – H-132	UL	91
E-510-2	$1^{5}/_{8}$" x $1^{5}/_{8}$" 14-ga. Channel – H-134	-	91
E-510-3	$1^{3}/_{8}$" x $1^{5}/_{8}$" 12-ga. Channel – H-142	-	85
E-510-5	$1^{13}/_{16}$" x $1^{5}/_{8}$" 14-ga. Channel – H-164	-	71



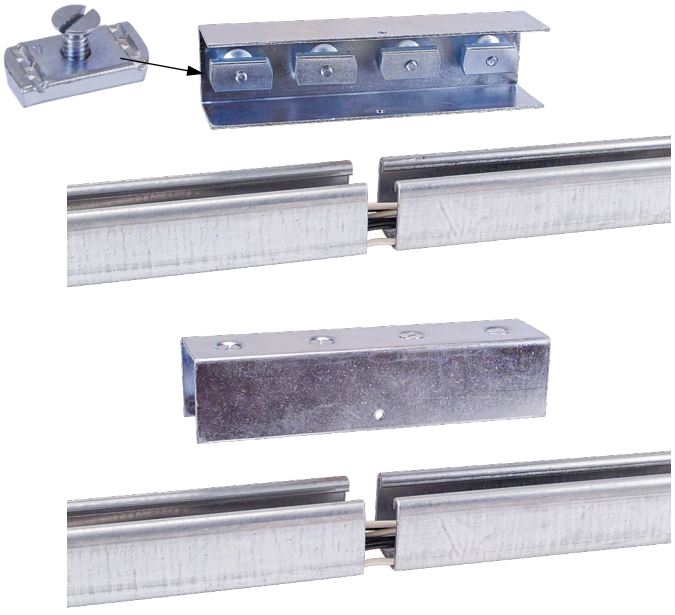
(4) $^{1}/_{4}$-20 x $^{5}/_{8}$" long flat head machine screw and strut nuts shown not supplied.

Installation

Channel 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.

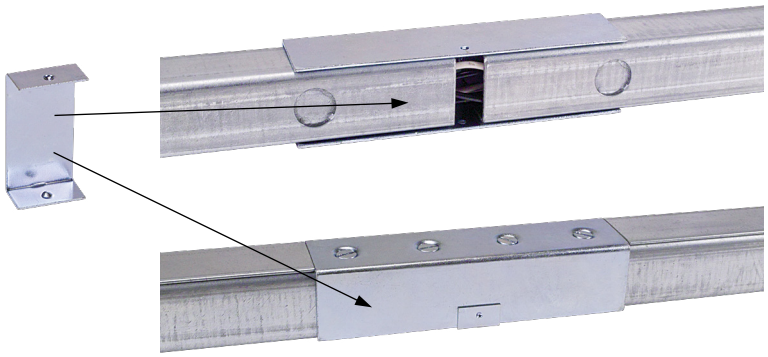
When the screw is tightened the nut will rotate 90° and the teeth in the nut will lock onto the channel to ensure a tight connection.



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 raceway.

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



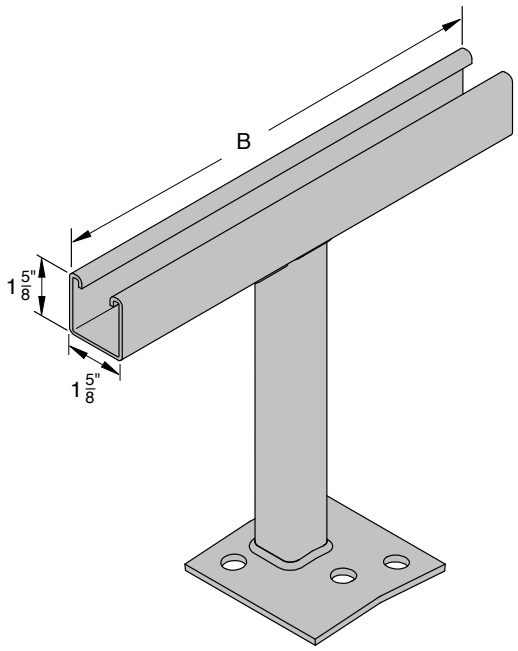
PS-7000 Series

Pole Separator
$1^5/_8$" X $1^5/_8$" X 12 Gauge Channel
11 Gauge Pole

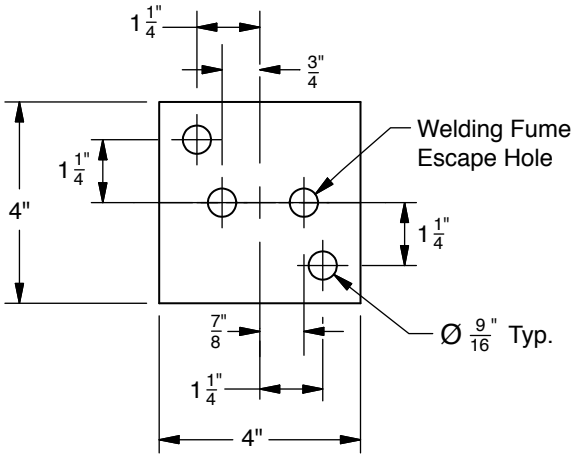
Wt./100 Pcs. - 365#

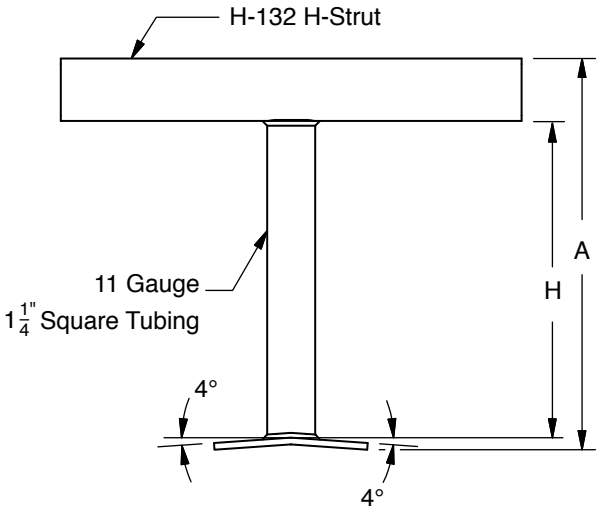
Standard finish: Electrogalvanized

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

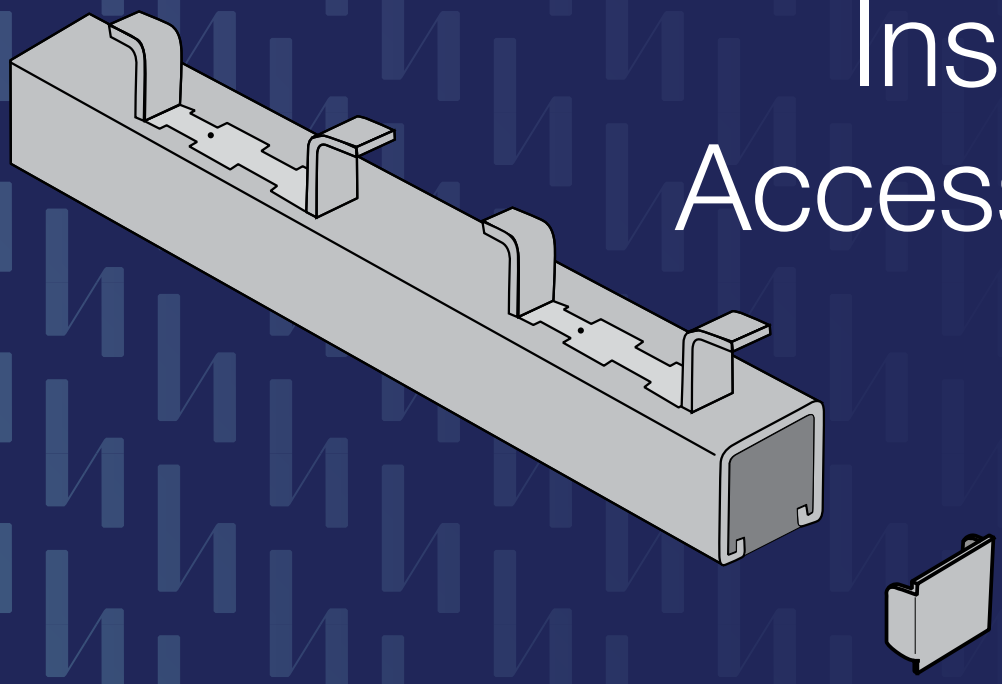


Flat Pattern Base





Concrete Inserts & Accessories



SPECIFICATIONS

General

H-STRUT® concrete inserts are designed for the attachment, anchoring or suspension of framing, piping or equipment to concrete. These inserts are easy to install to the concrete form and provide a strut channel for attachment after the concrete has hardened.

Length Information

H-Strut concrete inserts are available at a standard 20' length. Other lengths may be available upon request. The inserts can be field cut to shorter lengths.

Material

H-Strut concrete inserts and accessories are produced from prime structural metals covered by the following specifications.

- Pre-Galvanized Steel . . . . . ASTM A653 SS Grade 33, G90
- Steel (Standard) . . . . . ASTM A1011 SS Grade 33
- Stainless Steel (Type 304 or 316/316L) . . . . . ASTM A240

Other materials and specifications may be available upon request.

Finishes

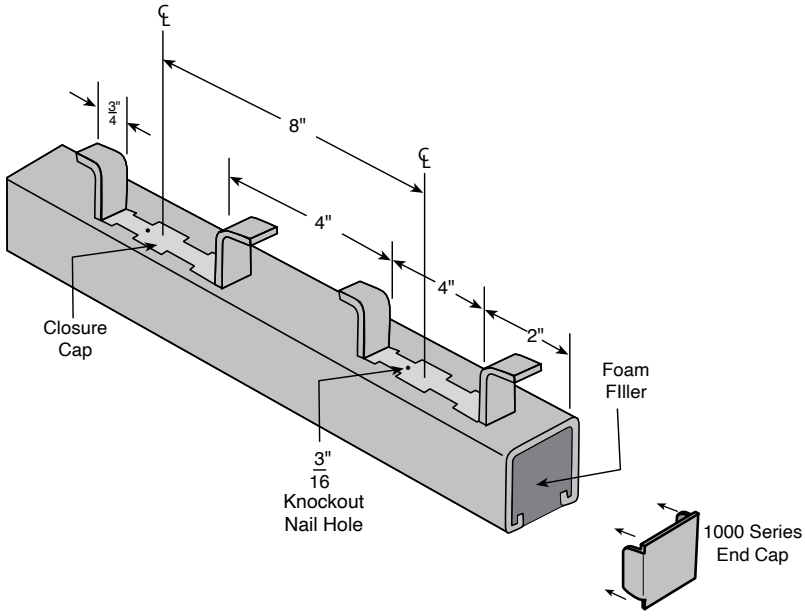
Other finishes for H-Strut concrete inserts may be available upon request.

- Electrogalvanized. . . . . ASTM B633
- Hot-Dip Galvanized . . . . . ASTM A123

H-132-IN

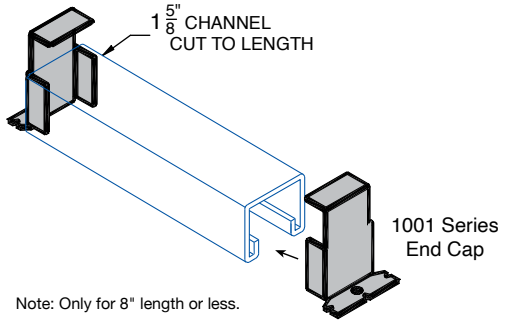
Concrete Insert
1 5/8" X 1 5/8" X 12 Gauge

H-STRUT® concrete inserts are available with a pre-galvanized finish. Other materials and finishes may be available upon request. The standard length is 20' and this product can be field cut to shorter lengths. Load capacities for shorter lengths are provided in the table below.

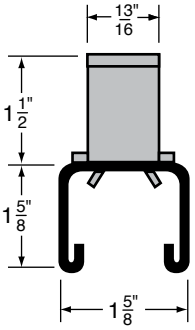


Features

- Loading data was determined through testing in accordance with MFMA standards and with a minimum safety factor of 3.0. The testing was conducted using 2,500 to 3,000 psi concrete.
- H-Strut concrete inserts are supplied with either the 1000 or 1001 series end cap and either a foam filler or plastic closure strip (C-900P) installed in the insert channel to prevent any concrete seepage.
- Inserts should be secured to forms at 16" intervals. Knockout nail holes are available as indicated on the image.
- When ordering, please indicate finish and either foam filler or plastic closure.



Note: Only for 8" length or less.



Catalog No.	Length in Inches	Wt./100 Pcs.	Max. Allowable Load Per 12" Section
H-132-IN	12	194	2,000 Lbs.
H-132-IN	18	291	2,000 Lbs.
H-132-IN	24	388	2,000 Lbs.
H-132-IN	30	485	2,000 Lbs.
H-132-IN	36	582	2,000 Lbs.
H-132-IN	48	776	2,000 Lbs.
H-132-IN	60	970	2,000 Lbs.
H-132-IN	72	1,164	2,000 Lbs.
H-132-IN	84	1,358	2,000 Lbs.
H-132-IN	96	1,552	2,000 Lbs.
H-132-IN	108	1,746	2,000 Lbs.
H-132-IN	120	1,940	2,000 Lbs.
H-132-IN	240	3,880	2,000 Lbs.

Note: Any cut length that is not divisible by 8" is only provided as a point of reference for loads.

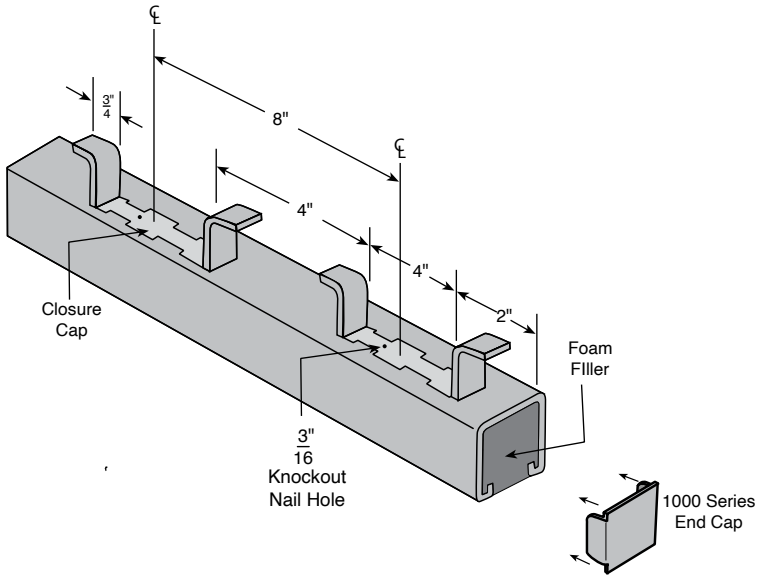
H-142-IN

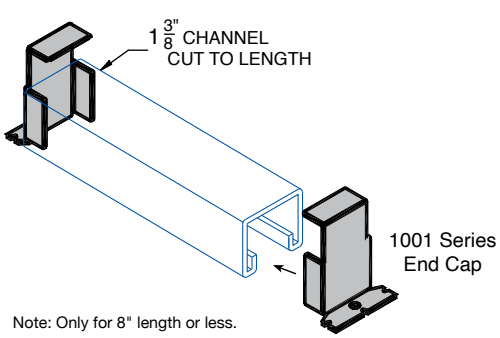
Concrete Insert
1 3/8" X 1 5/8" X 12 Gauge

H-STRUT® concrete inserts are available with a pre-galvanized finish. Other materials and finishes may be available upon request. The standard length is 20' and this product can be field cut to shorter lengths. Load capacities for shorter lengths are provided in the table below.

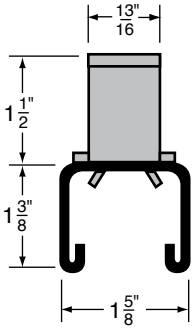
Features

- Loading data was determined through testing in accordance with MFMA standards and with a minimum safety factor of 3.0. The testing was conducted using 2,500 to 3,000 psi concrete.
- H-Strut concrete inserts are supplied with either the 1000 or 1001 series end cap and either a foam filler or plastic closure strip (C-900P) installed in the insert channel to prevent any concrete seepage.
- Inserts should be secured to forms at 16" intervals. Knockout nail holes are available as indicated on the image.
- When ordering, please indicate finish and either foam filler or plastic closure.





Note: Only for 8" length or less.



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	1,000 Lbs.
H-142-IN	8	206	1,200 Lbs.
H-142-IN	12	188	No More Than 1,800 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	1,128	
H-142-IN	84	1,316	
H-142-IN	96	1,504	
H-142-IN	108	1,692	
H-142-IN	120	1,880	
H-142-IN	240	3,760	

Note: Any cut length that is not divisible by 8" is only provided as a point of reference for loads.

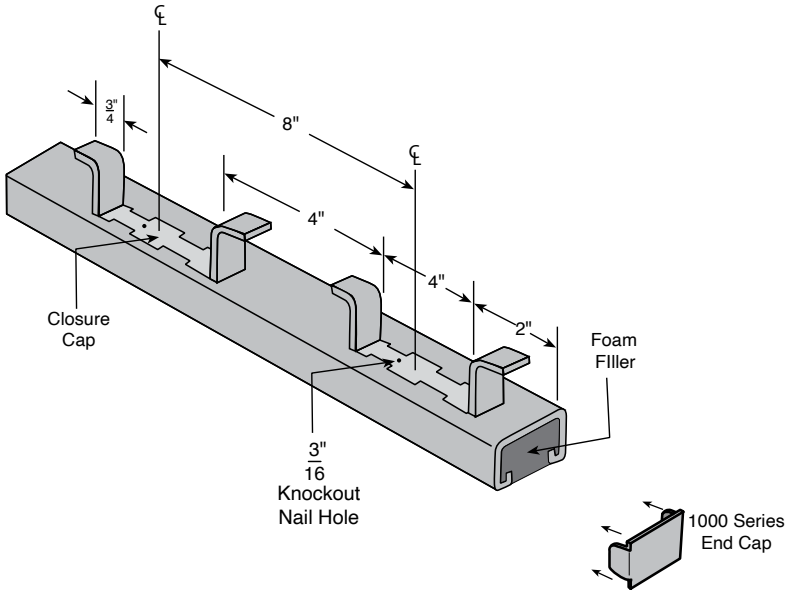
H-164-IN

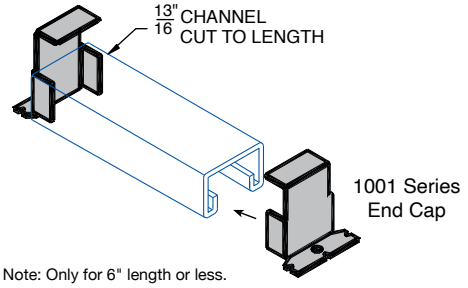
Concrete Insert
$^{13}/_{16}$" X $1^{5}/_{8}$" X 14 Gauge

H-STRUT® concrete inserts are available with a pre-galvanized finish. Other materials and finishes may be available upon request. The standard length is 20' and this product can be field cut to shorter lengths. Load capacities for shorter lengths are provided in the table below.

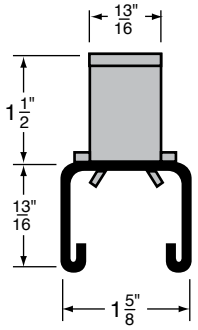
Features

- Loading data was determined through testing in accordance with MFMA standards and with a minimum safety factor of 3.0. The testing was conducted using 2,500 to 3,000 psi concrete.
- H-Strut concrete inserts are supplied with either the 1000 or 1001 series end cap and either a foam filler or plastic closure strip (C-900P) installed in the insert channel to prevent any concrete seepage.
- Inserts should be secured to forms at 16" intervals. Knockout nail holes are available as indicated on the image.
- When ordering, please indicate finish and either foam filler or plastic closure.





Note: Only for 6" length or less.



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	1,100 Lbs.
H-164-IN	12	121	No More Than 1,700 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	1,089	
H-164-IN	120	1,210	
H-164-IN	240	2,420	

Note: Any cut length that is not divisible by 8" is only provided as a point of reference for loads.

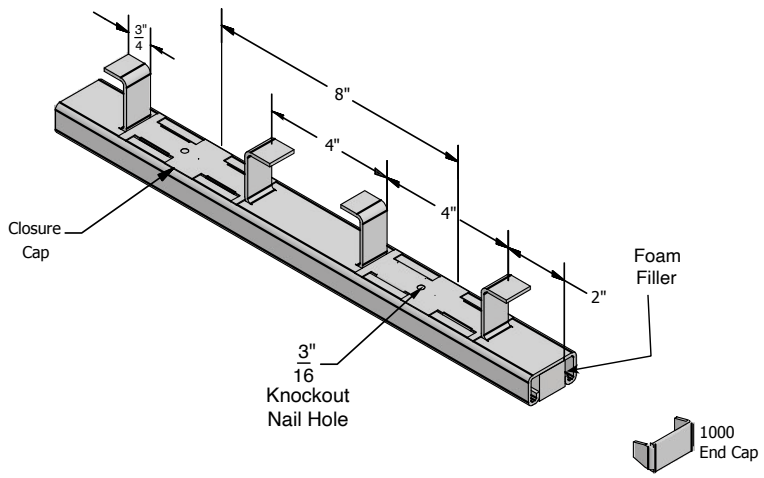
H-172-IN

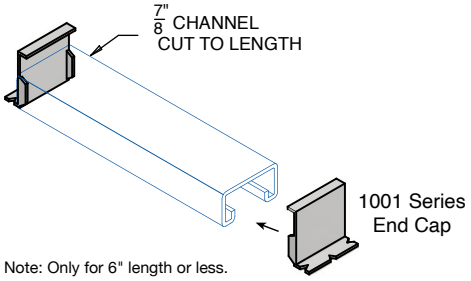
Concrete Insert
7/8" X 1 5/8" X 12 Gauge

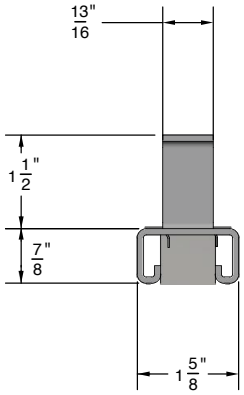
H-STRUT® concrete inserts are available with a pre-galvanized finish. Other materials and finishes may be available upon request. The standard length is 20' and this product can be field cut to shorter lengths. Load capacities for shorter lengths are provided in the table below.

Features

- Loading data was determined through testing in accordance with MFMA standards and with a minimum safety factor of 3.0. The testing was conducted using 2,500 to 3,000 psi concrete.
- H-Strut concrete inserts are supplied with either the 1000 or 1001 series end cap and either a foam filler or plastic closure strip (C-900P) installed in the insert channel to prevent any concrete seepage.
- Inserts should be secured to forms at 16" intervals. Knockout nail holes are available as indicated on the image.
- When ordering, please indicate finish and either foam filler or plastic closure.







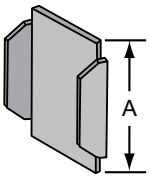
Catalog No.	Length in Inches	Wt./100 Pcs.	Max. Allowable Load
H-172-IN	3	35	450 Lbs.
H-172-IN	4	46	600 Lbs.
H-172-IN	6	70	850 Lbs.
H-172-IN	8	93	1,100 Lbs.
H-172-IN	12	139	No More Than 1,700 Lbs. Per 12" Section
H-172-IN	18	209	
H-172-IN	24	278	
H-172-IN	30	348	
H-172-IN	36	417	
H-172-IN	48	556	
H-172-IN	60	695	
H-172-IN	72	834	
H-172-IN	84	973	
H-172-IN	96	1,112	
H-172-IN	108	1,251	
H-172-IN	120	1,390	
H-172-IN	240	2,780	

Note: Any cut length that is not divisible by 8" is only provided as a point of reference for loads.

1000 Series

End Cap

The 1000 Series End Cap is used with all concrete inserts longer than 12". End caps may be ordered separately.



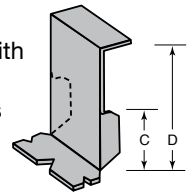
Standard finish: Electrogalvanized

Catalog No.	Use With H-Strut	A	Wt./100 Pcs. Lbs.
1000-EC-1	$1^{5}/_{8}$" x $1^{5}/_{8}$" 12-ga. Channel — H-132	$1^{5}/_{8}$"	7
1000-EC-2	$1^{3}/_{8}$" x $1^{5}/_{8}$" 12-ga. Channel — H-142	$1^{3}/_{8}$"	6
1000-EC-5	$^{13}/_{16}$" x $1^{5}/_{8}$" 14-ga. Channel — H-164	$1^{13}/_{16}$"	4
1000-EC-6	$2^{7}/_{16}$" x $1^{5}/_{8}$" 12-ga. Channel — H-122	$2^{3}/_{8}$"	16
1000-EC-7	$3^{1}/_{4}$" x $1^{5}/_{8}$" 12-ga. Channel — H-112	$3^{7}/_{32}$"	19
1000-EC-8	$1^{5}/_{8}$" x $1^{5}/_{8}$" 14-ga. Channel — H-134	$1^{5}/_{8}$"	10
1000-EC-9	$^{7}/_{8}$" X $1^{5}/_{8}$" 12-ga. Channel — H-172	$^{7}/_{8}$"	4

1001 Series

End Cap

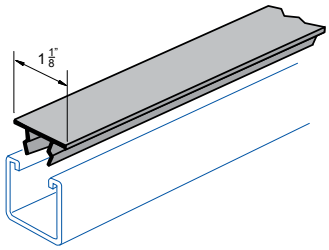
The 1001 Series Anchor End Cap is used with all inserts up to 12" in length and provides nail lugs at each end of the insert. End caps may be ordered separately.



Standard finish: Electrogalvanized

Catalog No.	Use With H-Strut	C	D	Wt./100 Pcs. Lbs.
1001-EC-1	$1^{5}/_{8}$" x $1^{5}/_{8}$" 12-ga. Channel — H-132	1.415	$3^{1}/_{8}$"	22
1001-EC-2	$1^{3}/_{8}$" x $1^{5}/_{8}$" 12-ga. Channel — H-142	1.165	$2^{7}/_{8}$"	20

C-900P



Plastic Closure Strip

Wt. .5 oz./ft.

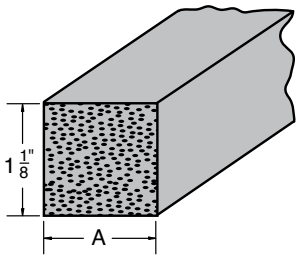
Material: High impact polystyrene plastic

Standard length: 10'

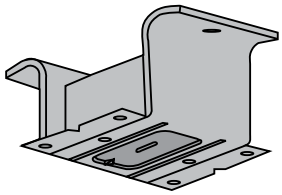
Standard colors: Black or white

Foam Filler

Catalog No.	A
H-142-IN	$1^{1}/_{4}$"
H-164-IN	$^{3}/_{4}$"



H-1200

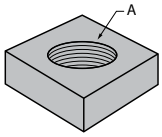


Spot Insert

Designed to be used with N-1200 spot insert nuts, a $^{7}/_{8}$" x $1^{5}/_{8}$" knockout 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.

Standard finish: Electrogalvanized

N-1200



Square Nut for Spot Insert

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

Standard finish: Electrogalvanized

Catalog No.	A	Wt./100 Pcs. Lbs.
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

Technical Data

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.

Please visit our website at **haydoncorp.com** or email us at **engineering@haydoncorp.com**.

1-800-242-9366
contactus@haydoncorp.com
haydoncorp.com

Tel: 973-904-0800 (local)
Fax: 973-904-0016 (fax)

Locations

California

1627 Army Court
Stockton, CA 95206

New Jersey

415 Hamburg Turnpike
Wayne, NJ 07470

Ohio

4847 Gray Lane
Stow, OH 44224

Texas

1139 West Carrier Parkway
Grand Prairie, TX 75050

Materials

Carbon Steel

Channels are formed from high-quality, structural grade carbon steel which has been manufactured in accordance with ASTM A1011 SS Grade 33 or ASTM A653 SS Grade 33, G90. The precision roll-forming process by which the channels are formed “cold works” the steel, increasing its mechanical properties.

Stainless Steel

Channels are formed from chromium-nickel stainless steel sheet manufactured in accordance with the ASTM A240 specification, offered in both Type 304 or 316/316L 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 B221 specifications. Aluminum is suitable for use in various corrosive environments.

Finishes

Pre-Galvanized

This is the recommended channel finish for indoor applications, paired with our electrogalvanized fittings. The steel used for channel is mill galvanized through a process of continuously passing the steel through a bath of molten zinc. This process is performed in accordance with ASTM A653, G90, providing a coating thickness of .90 ounces of zinc per square foot (total both sides).

Electrogalvanized

Fittings and hardware undergo a multi-step electrogalvanization process in accordance with ASTM B633, Type III or V. This is the recommended finish for indoor applications, paired with Pre-Galvanized channel. This provides a smooth, dry finish on all surfaces of the part, including the threads of our fasteners.

Hot-Dip Galvanized – Post Fabrication

This is the recommended finish for outdoor applications. Channel and fittings are completely immersed in a bath of molten zinc, resulting in the complete coating of all surfaces of the product, including edges and welds. This is performed in accordance with ASTM A123 or A153, with a coating weight (total both sides) of 3.0 ounces of zinc per square foot. This coating provides a thicker zinc coating for a longer service life in outdoor applications.

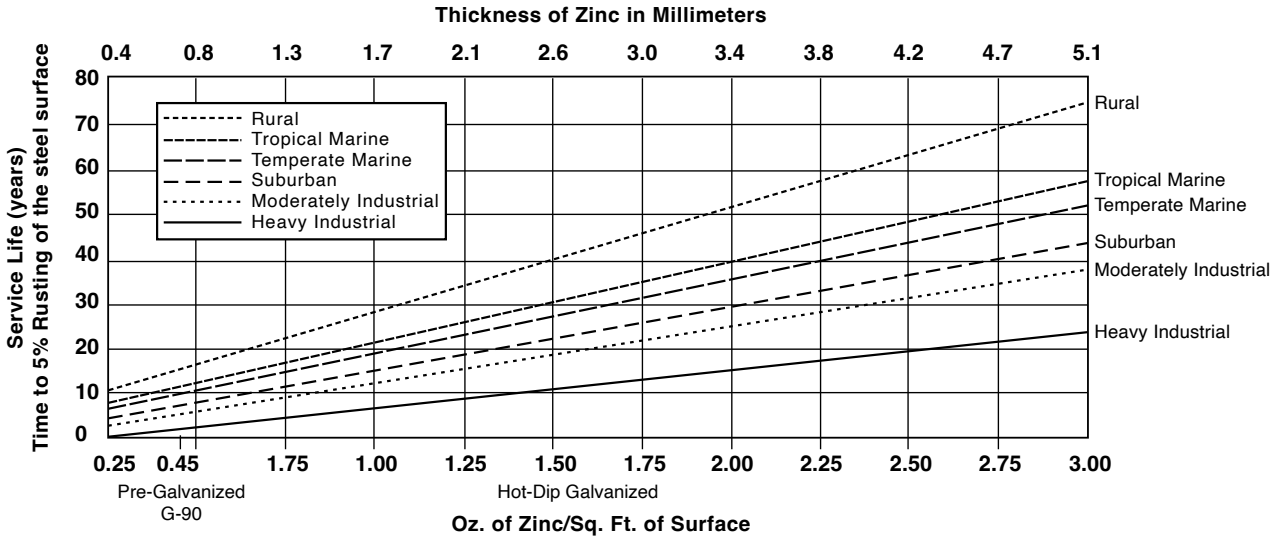
Powder Coating

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 B117 (standard practice for operating salt spray (fog) apparatus) to 500 hours with less than $^{1}/_{8}$" scribe creep.

Zinc Trivalent Chromium (ZTC)

Commonly known as the “gold” finish, channel, fittings and hardware undergo a multi-step electrogalvanization process in accordance with ASTM B633, Type VI. This is a good finish for indoor applications, especially those requiring a smooth, dry finish. This finish has a gold color, but the color will vary.

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.

Haydon's engineering department is ready to review any custom application and information when needed.

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:

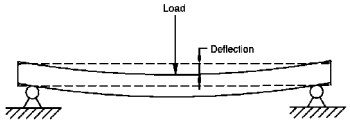
(a) The amount of load plus the weight of the beam itself.

(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.



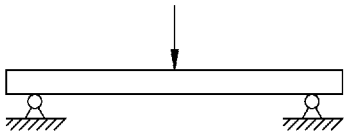
The stiffness of the beam derived from its cross sectional shape is defined by its "Moment of Inertia" or "I." The greater the "I" value of a beam, the greater its stiffness and the smaller its deflection. "I" values are given for both major axis (X-X and Y-Y). Increasing the height of the strut channel (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.

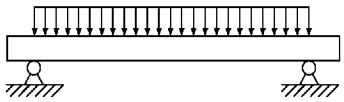
The beam capacities in this catalog include the weight of the beam itself. Therefore, the strut beam weight must be subtracted from the loading capacities given to provide the net beam capacity.

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).

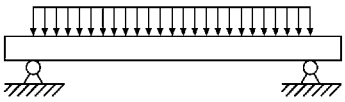


Uniform Load – A uniform load is spread evenly over the length of the beam from support to support.

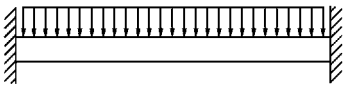


Types of Beam Support Conditions

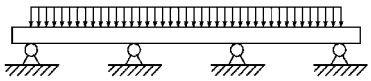
Simple Beam – A simple beam is supported at both ends by non-fixed connections which prevent vertical movement at the support point, but allow the beam to rotate or flex into a normal deflected shape. The majority of bolted metal framing connections closely approximate these conditions. The loading data presented in this catalog is based on simple beam analysis unless otherwise noted.



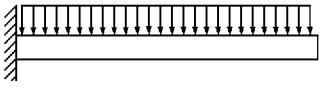
Fixed Beam – A fixed beam has rigid connections at each end that restrict the rotation of the beam and resist its deflection. The increased stiffness provided by this resistance to rotation provides a greater load capacity than that of an equivalent simple beam. A fixed-end beam would result when a channel 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 beam's capacity is the allowable stress method whereby the beam's 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 "North American 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

Torque values provided in this catalog are to ensure connections installed 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. Lubrication is not recommended for these threaded attachments. Recommended installation torque values are provided in the Channel Nuts & Hardware and Pipe & Conduit Clamps sections.

Columns

Columns are structural members that support compression loads (loads that are parallel to the length of the column). While most often vertical, any structural member that is loaded in compression, such as a diagonal brace, is considered a column.

Allowable column loading is dependent on a number of factors:

Column length – Column length is the distance between brace points.

Concentric vs. eccentric loading – Concentric loading is a load applied upon the cross-sectional center of gravity, such as a load which rests on the top of a column. An eccentric load is any load which is not concentric. A fitting bolted to a strut channel slot will impart an eccentric load to the channel. The data presented in this catalog assumes concentric loading.

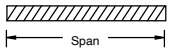
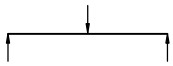
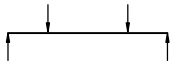
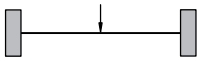
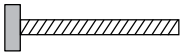
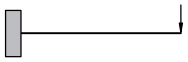
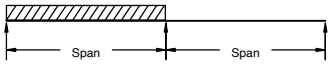
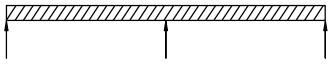
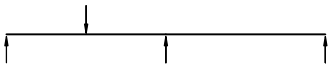
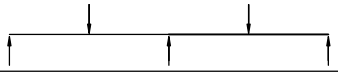
Support conditions – The column end support condition is mathematically represented by its "K-factor." A pinned connection is one that prevents lateral movement, but allows rotation. A fixed connection provides restraint against both lateral movement and rotation. A free top connection is one that is restrained against rotation but is free to move laterally. The data presented in this catalog assumes a pinned top/pinned bottom condition ("K" equals 1.0).

Cross-sectional shape – The column's cross-sectional shape is represented by its "Radius of Gyration" or "r" value. The axis with the smaller "r" value should be used for design evaluation.

In accordance with AISI "North American Specification for the Design of Cold-Formed Steel Structural Members," column load data shown in this catalog is based on 33,000 psi steel yield strength and includes a 1.80 safety factor to the 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.

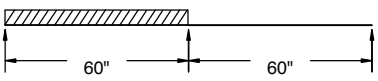
H-STRUT® Beam Loading Formulas

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:

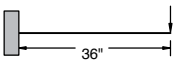
PROBLEM:
Calculate the load and corresponding deflection of the H-132 beam continuous over one support and loaded uniformly on one span.



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.

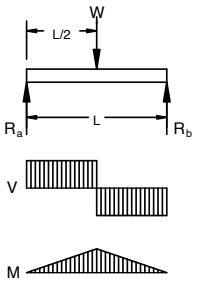


SOLUTION:
From beam load chart for H-122, for a 36" span, the maximum allowable load is 2,230 lbs. and the corresponding deflection is .09". Multiplying by the appropriate factors shown in the chart above:

LOAD = 2,230 lbs.x .12 = 267 lbs.
DEFLECTION = .09" x 3.20 = .288"

Common Beam Loading Formulas

SIMPLE BEAMS

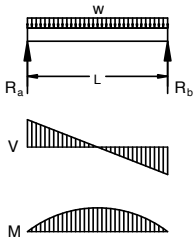


$R_a = R_b = \frac{W}{2}$

$V_{max} = \frac{W}{2}$

$M_{max} = \frac{WL}{4}$

$\triangle_{max} = \frac{WL^3}{48EI}$

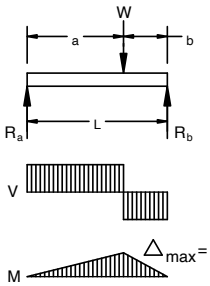


$R_a = R_b = \frac{wL}{2}$

$V_{max} = \frac{wL}{2}$

$M_{max} = \frac{wL^2}{8}$

$\triangle_{max} = \frac{5wL^4}{384EI}$



$R_a = \frac{Wb}{L}$

$R_b = \frac{Wa}{L}$

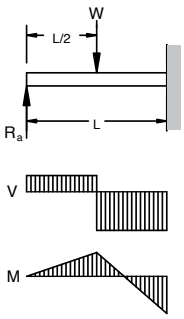
$V_{max} = \frac{Wa}{L}$

$M_{max} = \frac{Wab}{L}$

$\triangle_{max} = \frac{Wab(a+2b)\sqrt{3a(a+2b)}}{27EIL}$

$@x = \sqrt{\frac{a(a+2b)}{3}}$

BEAM FIXED AT ONE END, SUPPORTED AT OTHER



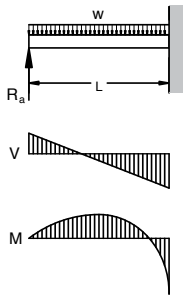
$R_a = \frac{5W}{16}$

$V_{max} = \frac{11W}{16}$

$M_{max} = \frac{5WL}{32}$

$\triangle_{max} = \frac{.009317\ WL^3}{EI}$

$@x = 0.447L$



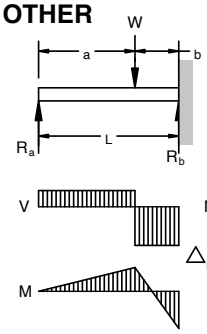
$R_a = R_b = \frac{3wL}{8}$

$V_{max} = \frac{5wL}{8}$

$M_{max} = \frac{wL^2}{8}$

$\triangle_{max} = \frac{wL^4}{185EI}$

$@x = 0.4215L$



$R_a = \frac{Wb^2}{2L^3}(a+2L)$

$R_b = \frac{Wa}{2L^3}(3L^2-a^2)$

$M_{point\ of\ load} = R_a a$

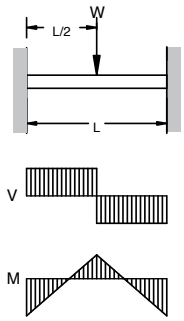
$M_{fixed\ end} = \frac{Wab}{2L^2}(a+L)$

$M_{max} = \frac{Wab}{2L^3}(L-a)^2(2L+a)$

$\triangle_{max} = \frac{Wa(L^2-a^2)}{6EI}\sqrt{\frac{a}{(2L+a)}}$

$@x = L\sqrt{\frac{a}{(2L+a)}}$

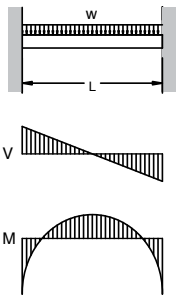
BEAM FIXED AT BOTH ENDS



$V_{max} = \frac{W}{2}$

$M_{max} = \frac{WL}{8}$

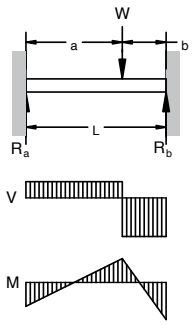
$\triangle_{max} = \frac{WL^3}{192EI}$



$V_{max} = \frac{wL}{2}$

$M_{max} = \frac{wL^2}{12}$

$\triangle_{max} = \frac{wL^4}{384EI}$



$R_a = \frac{Wb^2}{L^3}(3a+b)$

$R_b = \frac{Wa^2}{L^3}(a+3b)$

$M_a = \frac{Wab^2}{L^2}$

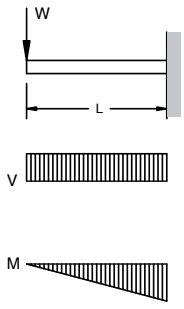
$M_b = \frac{Wa^2b}{L^2}$

$M_{max} = \frac{2Wa^2b^2}{L^3}$

$\triangle_{max} = \frac{2Wa^3b^2}{3EI(1+2a)^2}$

$@x = \frac{2aL}{L+2a}$

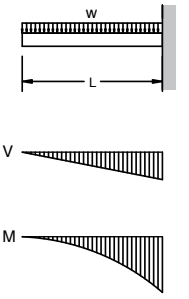
CANTILEVER BEAMS



$V_{max} = W$

$M_{max} = WL$

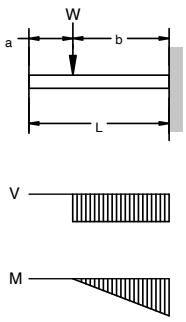
$\triangle_{max} = \frac{WL^3}{3EI}$



$V_{max} = wL$

$M_{max} = \frac{wL^2}{2}$

$\triangle_{max} = \frac{wL^4}{8EI}$



$V_{max} = W$

$M_{max} = Wb$

$\triangle_{max} = \frac{Wb^2(3L-b)}{6EI}$

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	0.25	0.358
Pipe - Lbs./Ft.	1.68	2.17	2.84	3.66
Water - Lbs./Ft.	0.37	0.31	0.23	0.12

1¼" Pipe Size - 1.660" O.D.				
Schedule No.	40	80	160	
Wall Designation	Std.	XS		XXS
Thickness - In.	0.14	0.191	0.25	0.382
Pipe - Lbs./Ft.	2.27	3	3.76	5.22
Water - Lbs./Ft.	0.65	0.56	0.46	0.27

1½" Pipe Size - 1.900" O.D.				
Schedule No.	40	80	160	
Wall Designation	Std.	XS		XXS
Thickness - In.	0.145	0.2	0.281	0.4
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

2½" 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	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	0.3	0.438	0.6
Pipe - Lbs./Ft.	7.58	10.3	14.3	18.6
Water - Lbs./Ft.	3.2	2.86	2.34	1.8

3½" 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	19	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	0.5	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.	0.28	0.432	0.562	0.718	0.864
Pipe - Lbs./Ft.	19	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	0.5	0.593	0.718	0.812	0.875	0.906
Pipe - Lbs./Ft.	24.7	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	0.5	0.593	0.718	0.843	1	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	26.1	24.6

Slotted Channel Framing

Part 1 – General

1.1. Section Includes

A. Strut channel and accessories, also known as bolted framing systems, continuous slot systems and metal framing.

B. Trapeze supports for electrical conduit, piping, ducts, cable tray, raceways and other systems.

C. Strut channel and accessories used for various mechanical, electrical and plumbing system supports.

D. Strut channel and accessories for use as a strut-type channel raceway in accordance with the national electrical code (NEC).

1.2. Reference Standards

A. AISI S100 – North American Specification for the Design of Cold-Formed Steel Structural Members

B. ASTM A653 – Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process

C. ASTM A1011 – Standard Specification for Steel, Sheet and Strip, Hot-Rolled, Carbon, Structural, High-Strength Low-Alloy, High-Strength Low-Alloy with Improved Formability and Ultra-High Strength

D. ASTM B633 – Standard Specification for Electrodeposited Coatings of Zinc or Iron and Steel

E. ASTM A123 – Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products

F. ASTM A240 – Standard Specification for Chromium and Chromium-Nickel Stainless Steel Plate, Sheet and Strip for Pressure Vessels and for General Applications

G. ASTM B221 – Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles and Tubes

H. NFPA 70 – National Electrical Code (NEC)

I. MFMA-4 – Metal Framing Standards Publication

1.3. Quality Assurance

A. Manufacturer shall have a minimum of 10 years of experience in the manufacture and supply of strut channel and accessories.

B. Manufacturer shall comply with the standards of MFMA-4, current revision.

C. When used as a raceway, products shall comply with NFPA 70 – Article 384 and carry a UL listing on necessary products.

1.4. Submittals

A. Manufacturer submittal sheets, including product information, load data, installation instructions and other specifications shall be submitted.

1.5. Delivery, Storage and Handling

A. Wherever possible, strut channel and accessories should remain in their manufacturer's packaging until ready to be used or at their final distribution location.

B. Strut channel and accessories shall be handled and transported in a manner that does not damage the product, including surface damage that can compromise the integrity of the coating.

C. Strut channel and accessories shall be stored in a climate controlled space to prevent exposure to water, high humidity, snow, dirt and other damaging elements.

Part 2 – Products

2.1. Acceptable Manufacturers

A. Haydon Corporation (H-STRUT®)

2.2. Materials & Finishes

A. PRE-GALVANIZED: Strut channel shall be manufactured using structural grade steel meeting the minimum mechanical properties of ASTM A653 SS Grade 33 with a G90 galvanized coating.

B. ELECTROGALVANIZED: Strut accessories shall be manufactured using structural grade steel meeting the minimum mechanical properties of ASTM A1011 SS Grade 33. After fabrication, products shall be electrogalvanized in accordance with ASTM B633.

C. PLAIN STEEL: Strut channel and accessories shall be manufactured using structural grade steel meeting the minimum mechanical properties of ASTM A1011 SS Grade 33.

D. HOT-DIP GALVANIZED: Strut channel and accessories shall be manufactured using structural grade steel meeting the minimum mechanical properties of ASTM A1011 SS Grade 33. After fabrication, products shall be hot-dip galvanized in accordance with ASTM A123 or A153.

E. ZINC TRIVALENT CHROMIUM: Strut channel and accessories shall be manufactured using structural grade steel meeting the minimum mechanical properties of ASTM A1011 SS Grade 33. After fabrication, products shall be electrogalvanized in accordance with ASTM B633.

F. POWDER COATED (SUPR-GREEN): Strut channel and accessories shall be manufactured using structural grade steel meeting the minimum mechanical properties of ASTM A1011 SS Grade 33. After fabrication, products shall be powder coated.

G. STAINLESS STEEL (TYPE 304): Strut channel and accessories shall be manufactured using stainless steel in accordance with ASTM A240, Type 304.

H. STAINLESS STEEL (TYPE 316): Strut channel and accessories shall be manufactured using stainless steel in accordance with ASTM A240, Type 316.

I. ALUMINUM: Strut channel shall be manufactured using aluminum in accordance with ASTM B221, Type 6063-T6. Strut accessories shall be manufactured using aluminum in accordance with ASTM B221, Type 5052-H32.

Part 3 – Execution

3.1. Examination

A. Strut channel and fittings shall be inspected upon receipt and before installation for damage to the products and coatings that could compromise the structural integrity or longevity of the products.

3.2. Installation

A. Install strut channel and accessories in accordance with the project's engineering specifications, industry standards and manufacturer's recommendations.

B. Installation torque for bolted connections using Channel Nuts:

Thread Size	Torque (Ft-Lbs)
$^{1}/_{4}$"-20	6
$^{5}/_{16}$"-18	11
$^{3}/_{8}$"-16	19
$^{1}/_{2}$"-13	50

Part Number Cross Reference

SPECIFICATIONS

Cross Reference

The following cross reference is a comparative part number index to other manufacturers of channel framing systems. The parts listed are for comparison purposes only and are not necessarily identical, but in most instances can be substituted for each other. Although Haydon has made every effort to verify the interchangeability of its products with those of other industry players, we cannot guarantee 100% that similar products are identical. For the most current part number cross reference, please see our website at **haydoncorp.com**.

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-1102-1 1/4
P-1115	C-1102-1 1/2
P-1117	C-1102-2
P-1117	C-1101-2 3/8
P-1118	C-1102-2 1/2
P-1118	C-1101-2 7/8
P-1119	C-1102-3
P-1119	C-1101-3 1/2
P-1120	C-1102-3 1/2
P-1120	C-1101-4
P-1121	C-1102-4
P-1121	C-1101-4 1/2
P-1123	C-1102-5
P-1124	C-1102-6
P-1124	C-1101-6 5/8
P-1126	C-1102-8
P-1130	A-315
P-1131	A-315-1
P-1186	A-317
P-1211	C-1104-1/2
P-1212	C-1104-3/4
P-1213	C-1104-1
P-1214	C-1104-1 1/4
P-1215	C-1104-1 1/2
P-1217	C-1104-2
P-1271S	C-407
P-1272S	C-408-1/4

UNISTRUT	H-STRUT
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-1100-1 1/4
P-1430	C-1100-1 1/2
P-1430	C-1101-1 3/4
P-1431	C-1100-2
P-1453	A-324
P-1454	A-325
P-1498	A-336
P-1499	A-336-1
P-1546	A-316
P-1579	A-310
P-1593	T-614
P-1648-S	C-410-1
P-1649-AS	C-410-3
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

UNISTRUT	H-STRUT
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-1950	F-220
P-1964	F-201-5/8
P-1985-S	C-408-3/8
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-1101-2 1/4
P-2042	C-1101-2 1/2
P-2043	C-1101-2 5/8
P-2044	C-1101-2 3/4
P-2046	C-1101-3
P-2047	C-1101-3 1/8
P-2048	C-1101-3 1/4
P-2049	C-1101-3 3/8
P-2051	C-1101-3 5/8
P-2052	C-1101-3 3/4
P-2053	C-1101-3 7/8
P-2055	C-1101-4 1/8
P-2056	C-1101-4 1/4
P-2057	C-1101-4 3/8
P-2059	C-1101-4 5/8
P-2060	C-1101-4 3/4
P-2061	C-1101-4 7/8

UNISTRUT	H-STRUT
P-2062	C-1101-5
P-2063	C-1101-5 1/8
P-2064	C-1101-5 1/4
P-2065	C-1101-5 3/8
P-2066	C-1101-5 1/2
P-2067	C-1101-5 5/8
P-2068	C-1101-5 3/4
P-2069	C-1101-5 7/8
P-2070	C-1101-6
P-2070-61	C-1101-6 1/8
P-2070-62	C-1101-6 1/4
P-2070-63	C-1101-6 3/8
P-2070-64	C-1101-6 1/2
P-2070-66	C-1101-6 3/4
P-2070-67	C-1101-6 7/8
P-2070-70	C-1101-7
P-2070-71	C-1101-7 1/8
P-2070-73	C-1101-7 3/8
P-2070-75	C-1101-7 5/8
P-2070-77	C-1101-7 7/8
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

UNISTRUT	H-STRUT
P-2235	A-313
P-2324	F-207
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-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-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-2626	A-304
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

UNISTRUT	H-STRUT
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-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
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

UNISTRUT	H-STRUT
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-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-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

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

POWERSTRUT	H-STRUT
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

POWERSTRUT	H-STRUT
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-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

POWERSTRUT	H-STRUT
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-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-3025	B-620-1
PS-3029	B-619-A
PS-3033	B-620

POWERSTRUT	H-STRUT
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-3164	T-614
PS-3373	A-335
PS-349 Series	H-142-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-601	F-203
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-633-22 1/2	A-320-2
PS-633-30	A-320-1

POWERSTRUT	H-STRUT
PS-633-37 1/2	A-319-6
PS-633-45	A-316
PS-633-52 1/2	A-319-5
PS-633-60	A-319-4
PS-633-67 1/2	A-319-3
PS-633-7 1/2	A-320-4
PS-633-75	A-319-2
PS-633-82 1/2	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-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
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-707	C-900
PS-708	T-615
PS-710	B-601-2
PS-711	A-323-42
PS-712	F-216

POWERSTRUT	H-STRUT
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-781-22 1/2°	A-3194-22 1/2°
PS-781-30°	A-3194-30°
PS-781-37 1/2°	A-3194-37 1/2°
PS-781-45°	A-3194-45°
PS-781-52 1/2°	A-3194-52 1/2°
PS-781-60°	A-3194-60°
PS-781-67 1/2°	A-3194-67 1/2°
PS-781-7 1/2°	A-3194-7 1/2°
PS-781-75°	A-3194-75°
PS-781-82 1/2°	A-3194-82 1/2°
PS-793-37 1/2°	A-3174-37 1/2°
PS-793-45°	A-3174-45°
PS-793-52 1/2°	A-3174-52 1/2°
PS-793-60°	A-3174-60°
PS-793-67 1/2°	A-3174-67 1/2°
PS-793-75°	A-3174-75°
PS-793-82 1/2°	A-3174-82 1/2°
PS-806	A-304
PS-809	T-611
PS-838-30-R	R-622-R-30
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-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-3/8"	N-831
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

B-LINE	H-STRUT
B-11	H-112
B-11-1 7/8	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 7/8H	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 7/8H	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 7/8H	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 7/8H	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-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 7/8	H-164-RS
B-54-A	H-164-A
B-54-S	H-164-OS3
B-54-SH	H-164-OS
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-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-LINE	H-STRUT
B-212-1/4	C-408-1/4
B-212-3/8	C-408-3/8
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-3194-7 1/2
B-244	A-3194-15
B-245	A-3194-22 1/2
B-246	A-3194-30
B-247	A-3194-37 1/2
B-248	A-3194-45
B-249	A-3194-52 1/2
B-250	A-3194-60
B-251	A-3194-67 1/2
B-252	A-3194-75
B-253	A-3194-82 1/2
B-261-12	B-603-2
B-261-16 5/8	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
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-LINE	H-STRUT
B-297	T-611
B-303	C-410-1
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-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-392-12	E-504-1
B-392-22	E-504-2
B-392-32	E-504-3
B-393	E-502
B-409	T-610

B-LINE	H-STRUT
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-496	A-336-1
B-496-1	A-336
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-586	A-341
B-588	B-601-7
B-613	C-412
B-616	E-505
B-616-A	E-505-H
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-1101-2 3/8 OD
B-2013	C-1102-2
B-2014	C-1102-2 1/2
B-2014	C-1101-2 7/8 OD

B-LINE	H-STRUT
B-2015	C-1102-3
B-2015	C-1101-3 1/2 OD
B-2016	C-1102-3 1/2
B-2016	C-1101-4 OD
B-2017	C-1102-4
B-2017	C-1101-4 1/2 OD
B-2018	C-1101-5 OD
B-2019	C-1102-5
B-2020	C-1102-6
B-2020	C-1101-6 5/8
B-2022	C-1102-8
B-2023	C-1101-1/4 OD
B-2024	C-1101-3/8OD
B-2025	C-1101-1/2 OD
B-2026	C-1101-5/8 OD
B-2027	C-1101-3/4 OD
B-2028	C-1101-7/8OD
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-1101-1 3/8 OD
B-2033	C-1101-1 1/2 OD
B-2034	C-1101-1 5/8 OD
B-2035	C-1101-1 3/4 OD
B-2036	C-1101-1 7/8 OD
B-2037	C-1101-2 OD
B-2038	C-1101-2 1/8 OD
B-2039	C-1101-2 1/4 OD
B-2041	C-1101-2 1/2 OD
B-2042	C-1101-2 5/8 OD
B-2043	C-1101-2 3/4 OD
B-2045	C-1101-3 OD
B-2046	C-1101-3 1/8 OD
B-2047	C-1101-3 1/4 OD
B-2048	C-1101-3 3/8 OD
B-2050	C-1101-3 5/8 OD
B-2051	C-1101-3 3/4 OD
B-2052	C-1101-3 7/8 OD
B-2054	C-1101-4 1/8 OD

B-LINE	H-STRUT
B-2055	C-1101-4 1/4 OD
B-2056	C-1101-4 3/8 OD
B-2058	C-1101-4 5/8 OD
B-2059	C-1101-4 3/4 OD
B-2060	C-1101-4 7/8 OD
B-2062	C-1101-5 1/8 OD
B-2063	C-1101-5 1/4OD
B-2064	C-1101-5 3/8 OD
B-2065	C-1101-5 1/2 OD
B-2066	C-1101-5 5/8 OD
B-2067	C-1101-5 3/4 OD
B-2068	C-1101-5 7/8 OD
B-2069	C-1101-6 OD
B-2070	C-1107-3/8
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-2110	C-1101-6 1/8
B-2111	C-1101-6 1/4
B-2112	C-1101-6 3/8
B-2113	C-1101-6 1/2
B-2115	C-1101-6 3/4
B-2116	C-1101-6 7/8
B-2117	C-1101-7
B-2118	C-1101-7 1/8
B-2120	C-1101-7 3/8
B-2121	C-1101-7 5/8
B-2124	C-1101-7 7/8
B-2125	C-1101-8
B-2207	C-1104-3/8
B-2208	C-1104-1/2
B-2209	C-1104-3/4

B-LINE	H-STRUT
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-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-WO	N-807
N-724	N-830

B-LINE	H-STRUT
N-725	N-832
N-728	N-831
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
TN-223	TSN-808
TN-224	TSN-800
TN-225	TSN-802
TN-228	TSN-801

SUPERSTRUT	H-STRUT
700-1	C-1100-1
700-1/2	C-1100-1/2
700-1 1/2	C-1100-1 1/2
700-1 1/2	C-1100-1 1/4
700-2	C-1100-2
700-3/4	C-1100-3/4
700-3/8	C-1100-3/8
701-1	C-1101-1
701-1/2	C-1101-1/2
701-1/4	C-1101-1/4
701-1 1/2	C-1101-1 1/2
701-1 1/4	C-1101-1 1/4
701-1 1/8	C-1101-1 1/8
701-1 3/4	C-1101-1 3/4
701-1 3/8	C-1101-1 3/8
701-1 7/8	C-1101-1 7/8
701-2	C-1101-2
701-2 1/2	C-1101-2 1/2
701-2 1/4	C-1101-2 1/4
701-2 1/8	C-1101-2 1/8
701-2 3/4	C-1101-2 3/4
701-2 3/8	C-1101-2 3/8
701-2 5/8	C-1101-2 5/8
701-2 7/8	C-1101-2 7/8
701-3	C-1101-3
701-3/4	C-1101-3/4
701-3/8	C-1101-3/8
701-3 1/2	C-1101-3 1/2
701-3 1/4	C-1101-3 1/4
701-3 1/8	C-1101-3 1/8
701-3 3/4	C-1101-3 3/4
701-3 3/8	C-1101-3 3/8
701-3 5/8	C-1101-3 5/8
701-3 7/8	C-1101-3 7/8
701-4	C-1101-4
701-4 1/2	C-1101-4 1/2
701-4 1/4	C-1101-4 1/4
701-4 1/8	C-1101-4 1/8
701-4 3/4	C-1101-4 3/4
701-4 3/8	C-1101-4 3/8
701-4 5/8	C-1101-4 5/8
701-4 7/8	C-1101-4 7/8
701-5	C-1101-5
701-5/8	C-1101-5/8
701-5 1/4	C-1101-5 1/4
701-5 1/8	C-1101-5 1/8
701-5 3/4	C-1101-5 3/4
701-5 3/8	C-1101-5 3/8
701-5 5/8	C-1101-5 5/8
701-5 7/8	C-1101-5 7/8
701-6	C-1101-6
701-7/8	C-1101-7/8
702-1	C-1102-1
702-1/2	C-1102-1/2
702-1 1/2	C-1102-1 1/2
702-1 1/4	C-1102-1 1/4
702-2	C-1102-2
702-3/4	C-1102-3/4
702-3/8	C-1102-3/8
702-5	C-1102-5
702-6	C-1102-6
702-8	C-1102-8
703-1	C-1104-1
703-1/2	C-1104-1/2
703-1 1/2	C-1104-1 1/2
703-1 1/4	C-1104-1 1/4
703-2	C-1104-2
703-2 1/2	C-1102-2 1/2
703-3	C-1102-3
703-3/4	C-1104-3/4
703-3 1/2	C-1102-3 1/2
703-4	C-1102-4
811-2	E-503-SN
A100-1/2	N-822
A100-1/4	N-820
A100-3/4	N-825
A100-3/8	N-821
A100-5/16	N-828
A100-5/8	N-824
A100-7/8	N-829
A208	B-605
A209	A-322
A210	B-601-3
A211	B-601-6
A212	B-610
A217	A-326-1
A716-1/4	C100025
A716-3/4	C100075
A804	1000-EC-1
A822	E-510-2
A1200-HS	H-132-OS
A1202	H-132-A
A1400	H-134
A1400-HS	H-134-OS
A1400-KO	H-134-KO
A1400-P	H-134-RS
AB100-5/16	N-808
AB201	A-301
AB202	A-302
AB203	A-306
AB205	A-311
AB206	F-203
AB207	F-206-2
AB213	A-318-L
AB214	A-318-R
AB216	A-313
AB219	F-210
AB220	F-213
AB227	A-316
AB240	F-207
AB241-1/2	F-201-1/2
AB241-3/4	F-201-3/4
AB241-3/8	F-201-3/8
AB241-5/8	F-201-5/8
AB253	F-216
AB255	F-211
AB257	F-218

SUPERSTRUT	H-STRUT
AB261	F-219
AB265	F-217
AB299	A-304
AB844	C-900
AB866	E-502
AC100-1/2	N-802
AC100-1/4	N-800
AC100-3/4	N-805
AC100-3/8	N-801
AC100-5/8	N-804
AP232	B-620
AP235	B-620-A
AW204	A-326
AW219	A-327-1
AW220	A-327
AW226	A-328
AW228	A-328-1
B209	A-323-62
B450	1001-EC3
B804	1000-EC5
B822	E-510-5
B1001/2	N-812
B1001/4	N-810
B1003/8	N-811
B1005/16	N-818
B1400	H-164
B1400-HS	H-164-OS
B1400-P	H-164-RS
C209	A-323-42
C210	B-601-2
C302	H-142-IN
C450	1001-EC2
C708U-1	C-1108-1
C708U-1/2	C-1108-1/2
C708U-1 1/2	C-1108-1 1/2
C708U-1 1/4	C-1108-1 1/4
C708U-2	C-1108-2
C708U-2 1/2	C-1108-2 1/2
C708U-3	C-1108-3
C708U-3/4	C-1108-3/4
C708U-3 1/2	C-1108-3 1/2
C708U-4	C-1108-4
C708U-5	C-1108-5
C708U-6	C-1108-6
C804	1000-EC2
C822	E-510-3
C1200	H-142
C1200-HS	H-142-OS
C1202	H-142-A
CM100-1/2	TSN-802
CM100-1/4	TSN-800
CM100-3/8	TSN-801
CZ209	A-324
E210	B-601-4
E802	E-510-1
E804	1000EC-6
E1200	H-122
E1200-HS	H-122-OS
E1200-P	H-122-RS
E1202	H-122-A
EZ209	A-323-22
H100-1/2	N-832
H100-3/8	N-831
H804	1000EC-7
H1200	H-112
H1200-HS	H-112-OS
H1200-P	H-112-RS
H1202	H-112-A
P716-1	C100112
P716-1/2	C100062
P716-1/4	C100037
P716-1 1/2	C100162
P716-1 1/4	C100137
P716-2	C100212
P716-2 1/2	C100262
P716-3	C100312
P716-3/4	C100087
P716-3/8	C100050
P716-4	C100412
S247	T-615
S248	T-614
TS272	B-611
U510	C-406
U514	C-408-1/4
U514-A	C-408-3/8
U515	C-407
U543	C-412
U560-5/8	C-410-8
X204	A-315
X207	F-205
X289	A-309
X299	A-337

Index

HAYDON

1-800-242-9366
contactus@haydoncorp.com
haydoncorp.com

STOCKTON, CA | WAYNE, NJ | STOW, OH | GRAND PRAIRIE, TX