

H-132

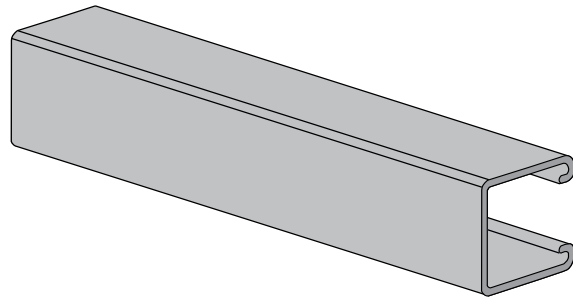
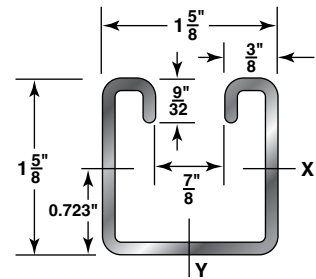
Insert custom dimensions

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.



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 ANSI 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 $\pm 1/8$ ". 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 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.

(See the technical section for additional information.)

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

Other materials and specifications are available upon request.

Finishes

H-Strut is available in powder-coated and zinc trivalent. Other finishes are available upon request.

- Hot-Dip Galvanized ASTM A123
- Zinc Trivalent Chromium (ZTC) ASTM B633
- Powder Coated

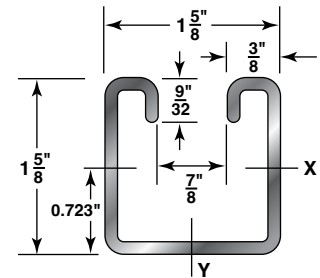


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Section Properties

Catalog No.	Wt. lbs/ft	Area in ²	X-X Axis			Y-Y Axis			dy in
			I in ⁴	S in ³	r in	I in ⁴	S in ³	r 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 Load (X-X Axis)						Max. Allowable Load at Slot Face	Column Loading Data				Unbraced Length Factor
	Max Allow- able Uniform Load	Deflection at Uniform Load	Uniform Load at Deflection					Max. Column Load Applied at C.G.				
			Span/180	Span/240	Span/360	Weight of Channel		k=.65	k=.80	k=1.0	k=1.2	
in	lbs	in	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	lbs	
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	**	1,790	**	**	**	0.80
192	210	3.45	60	50	NR	31.0	**	**	**	**	**	0.75
216	190	4.55	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:

- The beam weight must be subtracted from the above capacities to arrive at the net beam capacity.
- Allowable beam loads are based on a uniformly loaded, simply supported beam. For capacities of a beam loaded at midspan at a single point, multiply the beam capacity by 50% and deflection by 80%
- The above chart shows beam capacities for strut without holes. For strut with holes, multiply by the following:
 - OS by 88%
 - OS3 by 90%
 - RS (9/16 holes) by 88%
 - RS3 (9/16 holes) by 88%
 - RS-2MOD (9/16 holes) by 88%
 - KO by 82%
- Refer to the latest Haydon Engineering Catalog for reduction factors for unbraced lengths, or contact us at engineering@haydoncorp.com or 1-800-242-9366.

PROJECT INFORMATION			
Project:		Notes:	
Address:			
Contractor:			
Engineer:	Date:		
APPROVAL			
☐ Approved ☐ Approved as Noted ☐ Not Approved		Signature: _____ Remarks: _____	

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