

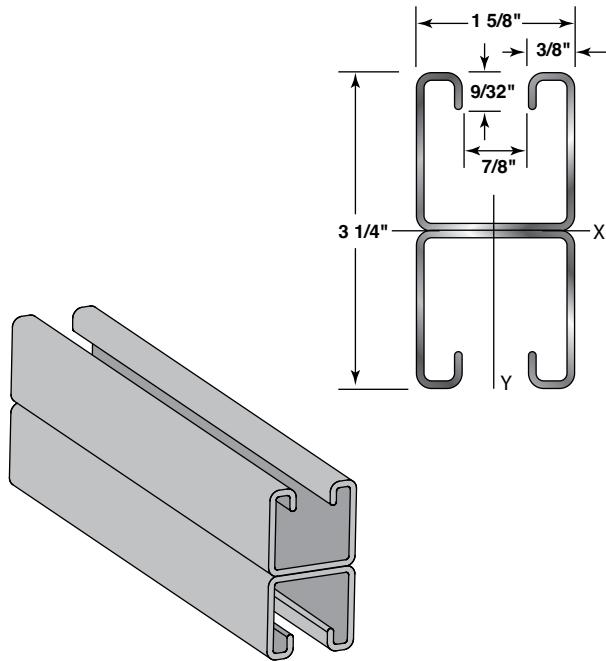
## H-132-A

**3 1/4" X 1 5/8"**

**12 Gauge Back-to-Back**

**Weight/100 ft. - 388 lbs.**

H-STRUT® channels are available in pre-galvanized, plain, powder-coated, zinc trivalent, aluminum, stainless steel 304 and 316L. Standard lengths are 10' and 20'. Other materials, finishes and lengths are available upon request.



### SPECIFICATIONS

#### General

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

#### Welding

Channel combinations of two or more elements are spot welded together to form various multiple combinations. The spot welds are placed two inches on center throughout the length of the multiple channel sections.

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

#### Material

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

(See the technical section for additional information.)

- Aluminum (Type 6063T6) ..... ASTM B-221
- Plain Steel ..... ASTM A-1011-SS33
- Pre-Galvanized Steel ..... ASTM A-653-SS33
- Stainless Steel (Type 304 & 316L) ..... ASTM A-240

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.

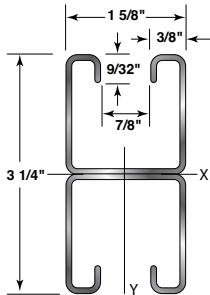
- Hot Dipped Galvanized ..... ASTM A-123
- Powder-Coated ..... ASTM B-117
- Zinc Trivalent Chromium (ZTC) ..... ASTM B-633-85

# H-132-A

## Section Properties

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

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



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

# Bearing Load may limit load | \* Load limited by spot weld shear | \*\* Not recommended - KL/r exceeds 200

### Notes:

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

2. 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%
- OS3 by 90%
- RS-3/4-MOD (9/16 holes) by 85%
- KO by 82%

4. Refer to the latest Haydon Engineering Catalog in our Literature Section for reduction factors for unbraced lengths or call us 1-800-242-9366.

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