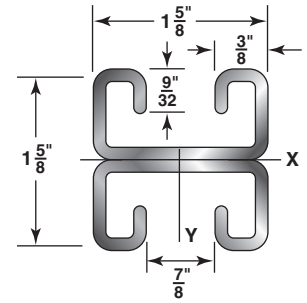
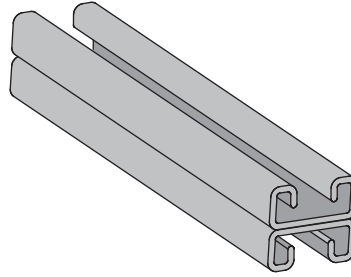


## H-162-A

1<sup>5</sup>/<sub>8</sub>" X 1<sup>5</sup>/<sub>8</sub>"

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

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



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 steel covered by the following specifications.  
(See technical section for additional information)

- Pre-Galvanized Steel . . . . .ASTM A-653
- Plain Steel . . . . .ASTM A-1011-04-SS
- Aluminum (Type 6063T6) . . . . .ASTM B-221
- Stainless Steel (Type 304 & 316L) . . . . .ASTM A-240

Other materials and specifications available on request.

### FINISHES

All H-STRUT channels are stocked in pre-galvanized and powder coated Supr-Green. Some sizes are stocked in zinc trivalent chromium, PVC or hot dipped galvanized.

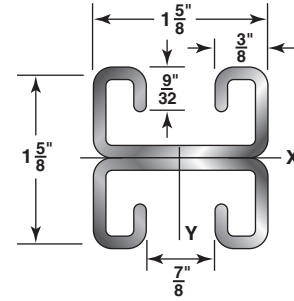
- Hot Dipped Galvanized. . . . .ASTM A-123
- Zinc Trivalent Chromium. . . . .ASTM B-633-85
- Powder Coated Supr-Green. . . . .ASTM B-117
- PVC Coating 40 ML Thickness - Available Upon Request

## H-162-A

1<sup>5</sup>/<sub>8</sub>" X 1<sup>5</sup>/<sub>8</sub>"  
 12 Gauge Back-to-Back  
 wt./100 ft. - 270# (Cont.)

### 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.
H-162-A	2.70	0.769	0.152	0.187	0.445	0.278	0.342	0.601



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

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

# Bearing Load may limit load

NR = Not Recommended

\* Load limited by spot weld shear

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

Notes

- The beam capacities shown above include the weight of the strut beam. The beam weight must be subtracted from these capacities to arrive at the net beam capacity.
- Refer to the latest Haydon Engineering Catalog in our Literature Section for reduction factors for unbraced lengths or call us 1-800-2-HAYDON.

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

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

- OS by 88%,                      OS3 by 90%,
- RS (1/16 holes) by 88%,      RS-3/4-MOD (3/4 holes) by 85%,
- KO by 82%.

Project Information			
<b>Project:</b>	<b>Notes:</b>		
<b>Address:</b>			
<b>Contractor:</b>			
<b>Engineer:</b>			
	<b>Date:</b>		
Approval			
<input type="checkbox"/> Approved <input type="checkbox"/> Approved as Noted <input type="checkbox"/> Not Approved	<b>Signature:</b>	<b>Remarks:</b>	