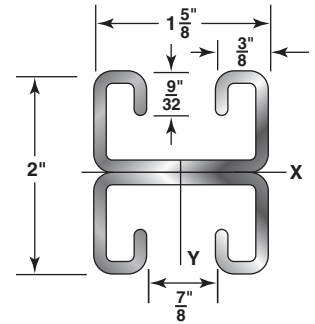
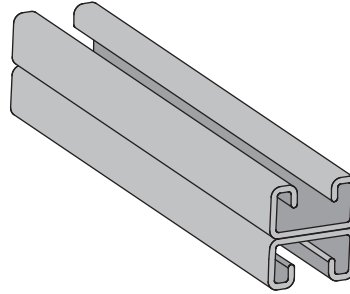


## H-152-A

2" X 1<sup>5</sup>/<sub>8</sub>"  
12 Gauge Back-to-Back  
wt./100 ft. - 298#

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



## Specifications

### GENERAL

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

### WELDING

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

### LENGTH INFORMATION

H-STRUT Channels are produced and stocked in 10' and 20' lengths with a tolerance of  $\pm 1/8$ ". 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 & 316) . . . . .ASTM A-240
- Other materials and specifications available on request.

### FINISHES

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

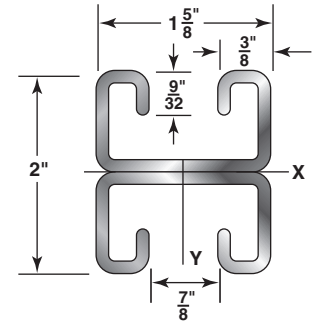
- Hot Dipped Galvanized. . . . .ASTM A-123
- Zinc Trivalent Chromium. . . . .ASTM B-633-85
- Powder Coated Supr-Green. . . . .ASTM B-117
- PVC Coating 40 ML Thickness - Available Upon Request

## H-152-A

2" X 1<sup>5</sup>/<sub>8</sub>"  
 12 Gauge Back-to-Back  
 wt./100 ft. - 298# (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-152-A	2.98	0.846	0.261	0.261	0.555	0.323	0.397	0.618



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

Span or Unbraced Height (In)	Static Beam Load (X-X Axis)						Max. Allowable Load at Slot Face (Lbs)	Column Loading Data			
	Max Allowable Uniform Load (Lbs)	Deflection at Uniform Load (In)	Uniform Load at Deflection					Max. Column Load Applied at C.G.			
			Span/180 Deflection (Lbs)	Span/240 Deflection (Lbs)	Span/360 Deflection (Lbs)	Weight of Channel (Lbs)		k=.65 (Lbs)	k=.80 (Lbs)	k=1.0 (Lbs)	k=1.2 (Lbs)
12	2,110 *	0.01	2,110 *	2,110 *	2,110 *	3.0	4,840	19,220	18,990	18,660	18,320
18	2,110 *	0.03	2,110 *	2,110 *	2,110 *	4.5	4,740	18,700	18,320	17,820	17,370
24	2,110 *	0.05	2,110 *	2,110 *	2,110 *	6.0	4,630	18,150	17,670	17,110	16,660
30	1,750	0.08	1,750	1,750	1,750	7.5	4,510	17,630	17,110	16,550	15,320
36	1,460	0.12	1,460	1,460	1,270	8.9	4,390	17,170	16,660	15,320	13,700
42	1,250	0.16	1,250	1,250	930	10.4	4,230	16,790	15,830	13,980	12,010
48	1,090	0.20	1,090	1,070	710	11.9	4,050	16,320	14,790	12,580	10,310
60	880	0.32	880	680	460	14.9	3,660	14,660	12,580	9,760	7,140
72	730	0.46	630	480	320	17.9	3,260	12,860	10,310	7,140	4,960
84	630	0.63	470	350	230	20.9	2,870	11,010	8,160	5,250	3,640
96	550	0.82	360	270	180	23.8	2,490	9,210	6,280	4,020	**
108	490	1.04	280	210	140	26.8	2,170	7,510	4,960	3,170	**
120	440	1.28	230	170	110	29.8	1,910	6,090	4,020	**	**
144	360	1.84	160	120	80	35.8	**	4,230	**	**	**
168	310	2.51	120	90	60	41.7	**	3,100	**	**	**
180	290	2.88	100	80	50	44.7	**	**	**	**	**
192	270	3.27	90	70	NR	47.7	**	**	**	**	**
216	240	4.14	70	NR	NR	53.6	**	**	**	**	**
240	220	5.12	60	NR	NR	59.6	**	**	**	**	**

# Bearing Load may limit load

NR = Not Recommended

\* Load limited by spot weld shear

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

Notes

- 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 (1/8 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"/> <b>Approved</b>	<b>Signature:</b>	<b>Remarks:</b>
<input type="checkbox"/> <b>Approved as Noted</b>		
<input type="checkbox"/> <b>Not Approved</b>		