

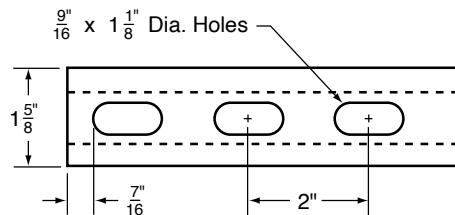
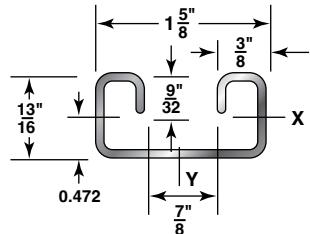
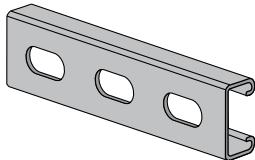
H-164-OS

$13/16$ " X $1\frac{5}{8}$ "

14 Gauge Channel

Weight/100 ft. - 98 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 strip steel into the desired channel configuration. This method produces a cross-section of uniform dimensions within a tolerance of ± 0.015 " on outside dimensions.

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.

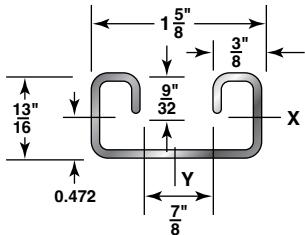
- Hot Dipped Galvanized ASTM A-123
- Powder-Coated ASTM B-117
- Zinc Trivalent Chromium (ZTC) ASTM B-633-85

H-164-OS

Section Properties

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.	X-X Axis			Y-Y Axis		
			I in ⁴	S in ³	r in.	I in ⁴	S in ³	r in.
H-164-OS	0.98	0.294	0.027	0.058	0.303	0.110	0.135	0.612

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	970	0.03	970	970	970	1.0	2,010	6,500	6,340	6,090	5,820	
18	640	0.06	640	640	520	1.5	1,890	6,120	5,820	5,410	5,010	
24	480	0.11	480	440	300	2.1	1,740	5,690	5,270	4,700	3,980	
30	390	0.17	380	280	190	2.6	1,590	5,240	4,700	3,800	2,930	
36	320	0.25	260	200	130	3.1	1,420	4,790	3,980	2,930	2,050	
42	280	0.33	190	140	100	3.6	1,250	4,200	3,270	2,170	1,510	
48	240	0.44	150	110	70	4.1	1,090	3,620	2,600	1,660	1,150	
60	190	0.68	90	70	50	5.2	830	2,520	1,660	1,060	**	
72	160	0.98	70	50	30	6.2	650	1,750	1,150	**	**	
84	140	1.34	50	40	20	7.2	**	1,280	**	**	**	
96	120	1.75	40	30	20	8.2	**	**	**	**	**	
108	110	2.21	30	20	10	9.3	**	**	**	**	**	
120	100	2.73	20	20	NR	10.3	**	**	**	**	**	
144	80	3.93	20	NR	NR	12.4	**	**	**	**	**	
168	70	5.34	NR	NR	NR	14.4	**	**	**	**	**	
180	60	6.13	NR	NR	NR	15.5	**	**	**	**	**	
192	60	6.98	NR	NR	NR	16.5	**	**	**	**	**	
216	50	8.83	NR	NR	NR	18.5	**	**	**	**	**	
240	50	10.91	NR	NR	NR	20.6	**	**	**	**	**	

Bearing Load may limit load NR = Not Recommended ** 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%
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		