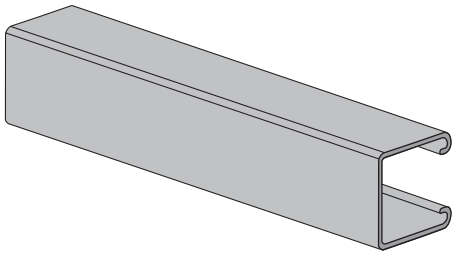
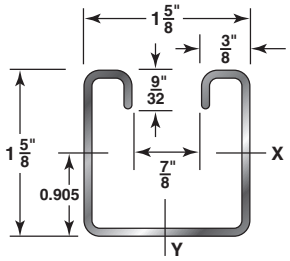
AS-134

1⅝" X 1⅝"
14 Gauge Channel

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 are available upon request.





Domestically Manufactured

Specifcations

GENERAL

ALL-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.

LENGTH INFORMATION

ALL-STRUT channels are produced and stocked in 10' and 20' lengths with a tolerance of ± ⅛".
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

ALL -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.
- ❏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

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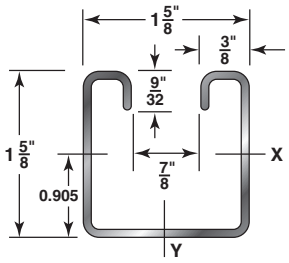

SECTION PROPERTIES

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.
AS-134	1.45	0.416	0.149	0.166	0.598	0.183	0.225	0.663

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	2,790	0.01	2,790	2,790	2,790	1.5	3,050	9,230	9,000	8,640	8,230
18	1,860	0.03	1,860	1,860	1,860	2.2	2,930	8,690	8,230	7,550	6,830
24	1,400	0.06	1,400	1,400	1,400	2.9	2,770	8,010	7,310	6,350	5,420
30	1,120	0.09	1,120	1,120	1,040	3.6	2,590	7,250	6,350	5,200	4,190
36	930	0.13	930	930	720	4.4	2,390	6,470	5,420	4,190	3,210
42	800	0.18	800	800	530	5.1	2,180	5,700	4,570	3,350	2,580
48	700	0.23	700	610	410	5.8	1,980	4,990	3,830	2,760	2,160
60	560	0.36	520	390	260	7.3	1,620	3,740	2,760	2,050	1,640
72	470	0.51	360	270	180	8.7	1,370	2,860	2,160	1,640	1,330
84	400	0.70	270	200	130	10.2	1,190	2,320	1,780	1,370	1,120
96	350	0.91	200	150	100	11.6	1,050	1,950	1,520	1,180	960
108	310	1.16	160	120	80	13.1	940	1,690	1,330	1,030	**
120	280	1.43	130	100	70	14.5	850	1,500	1,180	**	**
144	230	2.06	90	70	50	17.4	710	1,220	960	**	**
168	200	2.80	70	50	30	20.3	**	1,020	**	**	**
180	190	3.21	60	40	30	21.8	**	940	**	**	**
192	170	3.66	50	40	30	23.2	**	**	**	**	**
216	160	4.63	40	30	NR	26.1	**	**	**	**	**
240	140	5.72	30	NR	NR	29.0	**	**	**	**	**

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%,
RS (9/16 holes) by 88%,
KO by 82%,
OS3 by 90%,
RS-3/4-MOD (¾ holes) by 85%,
RS-2MOD (9/16 holes) by 88%