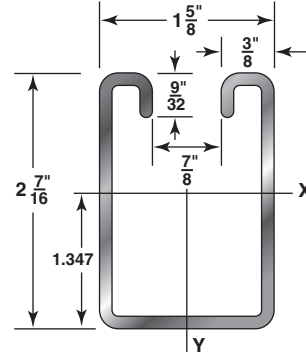
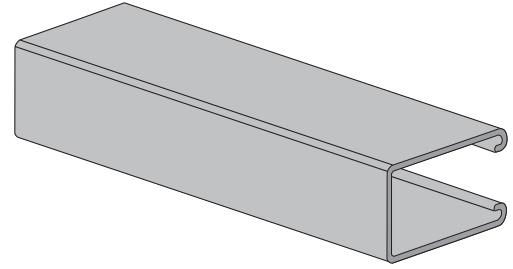


# AS-122

2<sup>7</sup>/<sub>16</sub>" X 1<sup>5</sup>/<sub>8</sub>"  
12 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.



## Specifications

### 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  $\pm 1/8$ ". 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

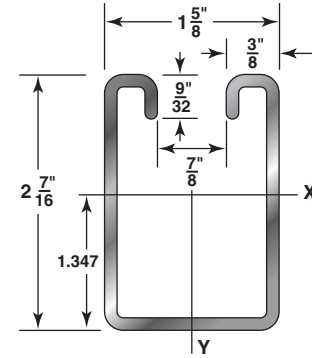
ALL-STRUT channels are produced from prime structural steel covered by the following specifications. (See technical section for additional information)

- 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

# AS-122

2<sup>7</sup>/<sub>16</sub>" X 1<sup>5</sup>/<sub>8</sub>"

12 Gauge Channel



## 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.
AS-122	2.54	0.720	0.525	0.396	0.854	0.334	0.411	0.681

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	6,640	0.01	6,640	6,640	6,640	2.5	5,050	15,940	15,530	14,880	14,140	
18	4,430	0.02	4,430	4,430	4,430	3.8	4,870	14,970	14,140	12,920	11,640	
24	3,320	0.04	3,320	3,320	3,320	5.1	4,630	13,750	12,500	10,790	9,160	
30	2,660	0.06	2,660	2,660	2,660	6.4	4,350	12,390	10,790	8,770	7,020	
36	2,210	0.09	2,210	2,210	2,210	7.6	4,030	11,000	9,160	7,020	5,360	
42	1,900	0.12	1,900	1,900	1,870	8.9	3,700	9,650	7,680	5,590	4,320	
48	1,660	0.15	1,660	1,660	1,430	10.2	3,350	8,400	6,390	4,620	3,630	
60	1,330	0.24	1,330	1,330	920	12.7	2,770	6,240	4,620	3,450	2,770	
72	1,110	0.35	1,110	960	640	15.2	2,360	4,790	3,630	2,770	2,260	
84	950	0.47	940	700	470	17.8	2,070	3,890	3,010	2,330	1,910	
96	830	0.62	720	540	360	20.3	1,850	3,290	2,580	2,020	1,650	
108	740	0.78	570	420	280	22.9	1,670	2,860	2,260	1,770	1,440	
120	660	0.97	460	340	230	25.4	1,520	2,530	2,020	1,580	**	
144	550	1.39	320	240	160	30.5	1,290	2,070	1,650	**	**	
168	470	1.89	230	180	120	35.6	1,110	1,750	1,380	**	**	
180	440	2.17	200	150	100	38.1	**	1,620	**	**	**	
192	420	2.47	180	130	90	40.6	**	1,510	**	**	**	
216	370	3.13	140	110	70	45.7	**	**	**	**	**	
240	330	3.86	110	90	60	50.8	**	**	**	**	**	

# Bearing Load may limit load

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