AS-189

MINI STRUT

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¹³/₃₂" X ¹³/₁₆" **19 Gauge Channel** wt./100 ft. - 28#

Stocked in pre-galvanized, plain, & powder coated Supr-Green in 10 ft. lengths. Other materials, finishes & lengths are available upon request.





Specifications

GENERAL

Channels are manufactured by a series of forming dies, or H-Channels are produced from prime structural steel 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

Channels are produced and stocked in 10' and 20' lengths with a tolerance of $\pm \frac{1}{8}$ ". 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

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

- □ Pre-Galvanized SteelASTM A-653
- Plain SteelASTM 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 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

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¹³/₃₂" X ¹³/₁₆" 19 Gauge Channel wt./100 ft. - 28# (Cont.)



SECTION PROPERTIES

Catalog No.	Wt./Ft. Lbs.	Area of Section Sq. In.		X-X Axis		Y-Y Axis			
			l in ⁴	S in ³	r in.	l in ⁴	S in ³	r in.	
AS-189	0.28	0.0743	0.002	0.007	0.147	0.007	0.017	0.305	

 ${\sf I} = {\sf Moment \ of \ Inertia} \qquad {\sf S} = {\sf Section \ Modulus} \qquad {\sf r} = {\sf Radius \ of \ Gyration}$

ALLOWABLE COLUMN LOADS (LBS)

Catalog No.	12"	18"	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"
AS-189	1,235	748	421	-	-	-	-	-	-	-	-	-	-

ALLOWABLE BEAM LOADS (LBS)

Cata- log No.	12"	18"	24"	30"	36"	42"	48"	60"	72"	84"	96"	108"	120"	
AS-189	109	73	54	44	36	31	27	22	18	16	14	12	11	1
	105	47	26	17	12	9	7	4	3	2	2	1	1	2
	0.052	0.117	0.208	0.325	0.469	0.638	0.833	1.302	1.875	2.551	3.332	4.218	5.207	3

Allowable Uniform Beam Load based on calculations using 25000 psi Stress. 1

Allowable Uniform Load at Maximum Deflection = L/240 of Span. 2

Beam Deflection in inch, @ 25000 psi. 3

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