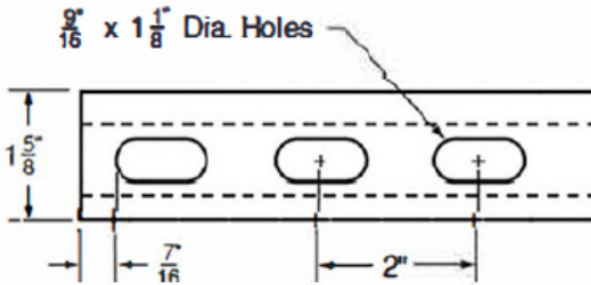
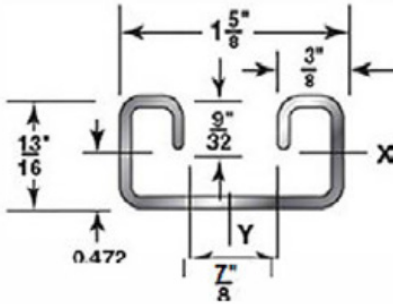
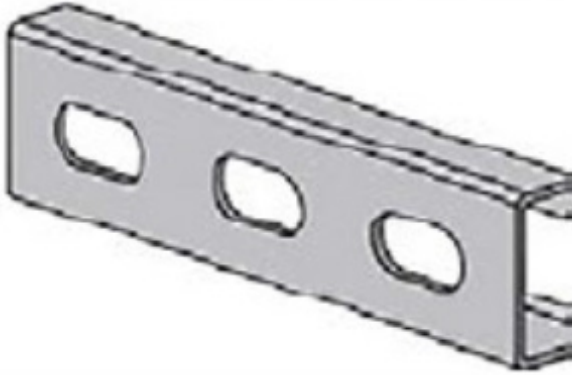


STRUT CHANNEL

14 Gauge, $1\frac{3}{16}$ " x $1\frac{5}{8}$ " | AS-164-OS



General Specification

MATERIAL	Stocked: Pre-Galvanized, Plain, Powder Coated Supr-Green, Zinc Trivalent, PVC Coated, Aluminum Upon Request: SS 304 & 316L Alloys
LENGTH	10' and 20'
QUANTITY	1 Strut Channel

Other materials, finishes and lengths are available upon request.

Compliance

PRE-GALVANIZED STEEL	ASTM A-653
PLAIN STEEL	ASTM A-1011-04-SS
ALUMINUM (TYPE 6063T6)	ASTM B-221
STAINLESS STEEL (304 & 316L)	ASTM A-240 Other
HOT DIPPED GALVANIZED	ASTM A-123
ZINC TRIVALENT CHROMIUM	ASTM B-633-85
POWDER COATED SUPR-GREEN	ASTM B-117
PVC COATED (40ML THICKNESS)	

Design, dimensions, and materials are subject to change without notice.

Specifications

PART NUMBER	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-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

STRUT CHANNEL | 14 Gauge, 1³/₁₆" x 1⁵/₈"

Load Specifications

SPAN OR UNBRACED HEIGHT (IN)	STATIC BEAM LOAD (X-X AXIS)						MAX LOAD AT SLOT FACE (LBS)	COLUMN LOADING DATA (LBS)			
	MAX UNIFORM LOAD (LBS)	DEFLECTION AT UNIFORM LOAD (LBS)	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=0.65	k=0.80	k=1.00	k=1.20
12	970	0.03	970	970	970	1.0	2010	6500	6340	6090	5820
18	640	0.06	640	640	520	1.5	1890	6120	5820	5410	5010
24	480	0.11	480	440	300	2.1	1740	5690	5270	4700	3980
30	390	0.17	380	280	190	2.6	1590	5240	4700	3800	2930
36	320	0.25	260	200	130	3.1	1420	4790	3980	2930	2050
42	280	0.33	190	140	100	3.6	1250	4200	3270	2170	1510
48	240	0.44	150	110	70	4.1	1090	3620	2600	1660	1150
60	190	0.68	90	70	50	5.2	830	2520	1660	1060	NR
72	160	0.98	70	50	30	6.2	650	1750	1150	NR	NR
84	140	1.34	50	40	20	7.2	NR	1280	NR	NR	NR
96	120	1.75	40	30	20	8.2	NR	NR	NR	NR	NR
108	110	2.21	30	20	10	9.3	NR	NR	NR	NR	NR
120	100	2.73	20	20	NR	10.3	NR	NR	NR	NR	NR
144	80	3.93	20	NR	NR	12.4	NR	NR	NR	NR	NR
168	70	5.34	NR	NR	NR	14.4	NR	NR	NR	NR	NR
180	60	6.13	NR	NR	NR	15.5	NR	NR	NR	NR	NR
192	60	6.98	NR	NR	NR	16.5	NR	NR	NR	NR	NR
216	50	8.83	NR	NR	NR	18.5	NR	NR	NR	NR	NR
240	50	10.91	NR	NR	NR	20.6	NR	NR	NR	NR	NR

NR: Not Recommended, KL/r may exceed 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. When calculating load at center of span, multiply load from table by 0.5 and deflection by 0.8.
3. When calculating beam and column loads for aluminum, multiply by 33%.
4. 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%.
5. The above chart shows beam capacities for strut without holes. For strut with OS holes, multiply by 88%.