

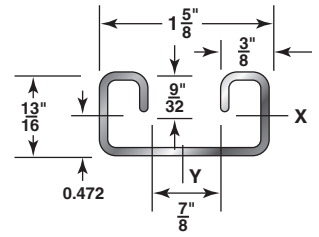
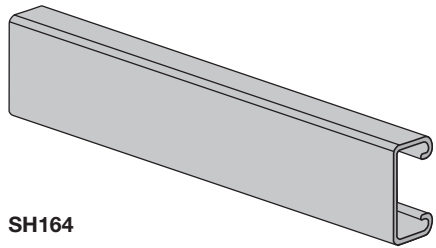


**SH164**

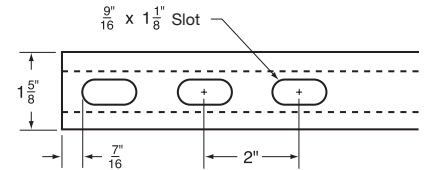
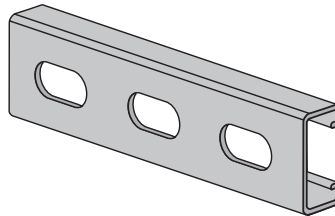
**Strut 1 3/16 x 1 5/8**

14 Gauge

SH164OS Oblong Slotted Strut is stocked in pre-galvanized and 304 Stainless Steel in 10 ft. and 20 ft. lengths. Solid Strut and other materials, finishes and lengths are available upon request.



SH164



For SH164OS, See Note 3

**SECTION PROPERTIES**

FIG. #	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.
SH164	1.03	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 STRUT, 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:**

- 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%.

- The above chart shows beam capacities for strut without holes. For oblong slotted strut, multiply by 88%.
- Refer to page 41 for reduction factors for unbraced lengths.
- Refer to page 42 for additional information on allowable loads.