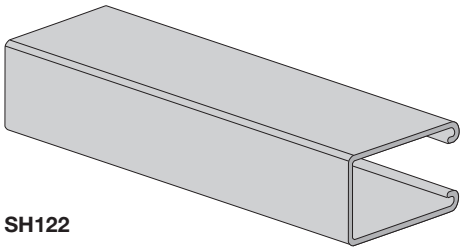
SH122

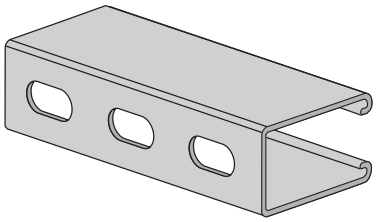
Strut 2 7/16 x 1 5/8

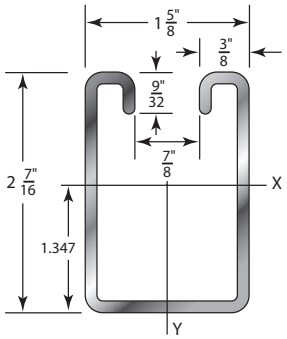
12 Gauge

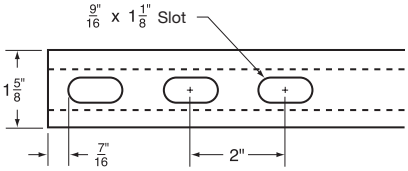
SH122OS Oblong Slotted Strut is available in pre-galvanized in 10 ft. and 20 ft. lengths. Solid Strut and other materials, finishes and lengths are available upon request.



SH122







For SH122OS, See Note 3

SECTION PROPERTIES

FIG. #	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.
SH122	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 STRUT, 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:

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 oblong slotted strut, multiply by 88%.

4. Refer to page 41 for reduction factors for unbraced lengths.

5. Refer to page 42 for additional information on allowable loads.