

SPECIFICATIONS

FIGURE 7885
STRUT CHANNEL



1-5/8" x 1-3/8" 12 GA–HALF SLOT

FEATURES

- 1-5/8" x 1-3/8"
- 12-gauge channel
- Half slot
- Available in 20-ft. length only
- Material:
 - Pre-galvanized steel (ASTM A653 SS Grade 33, G90)
- Available finishes:
 - Pre-galvanized steel (ASTM A653 SS Grade 33, G90)
 - Green powder coat
- Standard length tolerance $\pm 1/8"$
- Load data calculated based on ANSI/AISC 360-2016



Item #	Finish	Size		Length		Gauge
		in.	mm	ft	m	
FNWST7885S12Z2S2	Pre-Galv.	1-5/8 x 1-3/8	41 x 35	20	6.096	12
FNWST7885S12G2S2	Green	1-5/8 x 1-3/8	41 x 35	20	6.096	12

SECTION PROPERTIES

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
1.72	0.500	0.123	0.159	0.496	0.206	0.253	0.642

I = Moment of Inertia S = Section Modulus r = Radius of Gyration

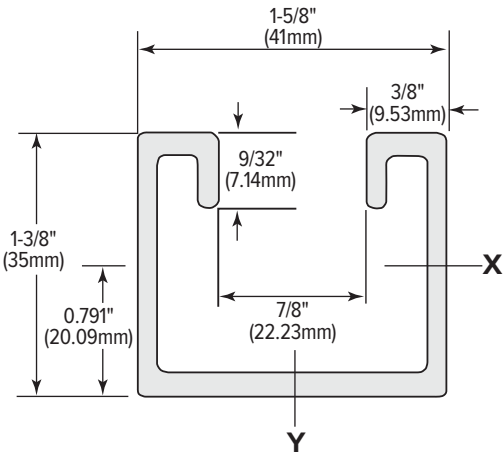
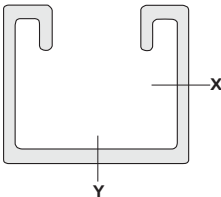


FIGURE 7885
STRUT CHANNEL



1-5/8" x 1-3/8" 12 GA–HALF SLOT



Span or Unbraced Height (in.)	Static Beam Load (X-X Axis)					Max Allowable Load at Slot Face (lbs)	Column Loading Data				Weight of Channel (lbs)
	Max Allowable Uniform Load (lbs)	Deflection at Uniform Load (in.)	Uniform Load at Deflection				Max Column Load				
			Span/180 Deflection (lbs)	Span/240 Deflection (lbs)	Span/360 Deflection (lbs)		k=.65 (lbs)	k=.80 (lbs)	k=1.0 (lbs)	k=1.2 (lbs)	
12	2660	0.02	2660	2660	2660	3450	11080	10810	10390	9940	1.8
18	1770	0.04	1770	1770	1770	3310	10450	9940	9220	8510	2.6
24	1330	0.07	1330	1330	1330	3140	9700	8980	8060	7220	3.5
30	1060	0.10	1060	1060	860	2960	8930	8060	7030	6140	4.4
36	890	0.15	890	890	600	2780	8170	7220	6140	5260	5.3
42	760	0.20	760	660	440	2600	7470	6480	5400	4510	6.2
48	670	0.26	670	500	340	2430	6840	5830	4750	3890	7.0
60	530	0.41	430	320	220	2110	5760	4750	3710	3010	8.8
72	440	0.59	300	220	150	1830	4870	3890	3010	2340	10.6
84	380	0.81	220	160	110	1600	4130	3260	2470	**	12.3
96	330	1.06	170	130	80	1410	3550	2790	1890	**	14.1
108	300	1.34	130	100	70	1230	3100	2340	**	**	15.8
120	270	1.65	110	80	50	1070	2740	1890	**	**	17.6
144	220	2.38	70	60	40	**	1990	**	**	**	21.1
168	190	3.23	50	40	30	**	**	**	**	**	24.6
180	180	3.71	50	40	NR	**	**	**	**	**	26.4
192	170	4.22	40	30	NR	**	**	**	**	**	28.2
216	150	5.35	NR	NR	NR	**	**	**	**	**	31.7
240	130	6.60	NR	NR	NR	**	**	**	**	**	35.2

NR = Not Recommended
** Not recommended - KL/r exceeds 200

NOTE: 1. 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%. 2. The section properties (excluding quality) are in the absence of holes.