



METAL FRAMING CHANNEL

Cold Formed Strut

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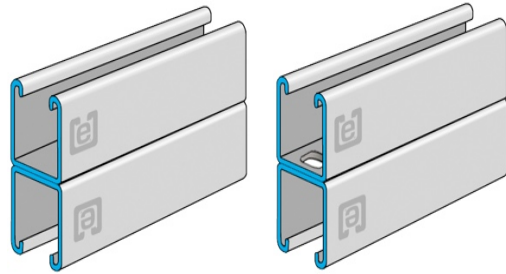
ES1502T3 STANDARD, ES1502T3EH SLOTTED

1-5/8" x 4-7/8"

12 Gauge

Part No: ES1502T3 Weight: 494lbs /100 Ft.

Part No: ES1502T3EH Weight: 484lbs /100 Ft.



ORDER BY: Part Number, Finish, Length

Material: ASTM A-653 LOW CARBON STEEL

Finish: PL - Plain

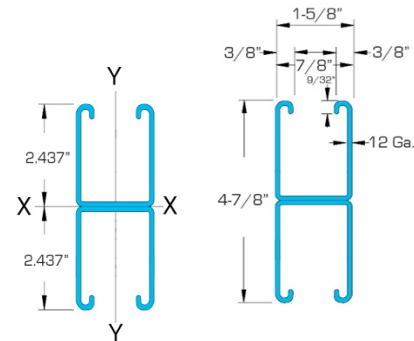
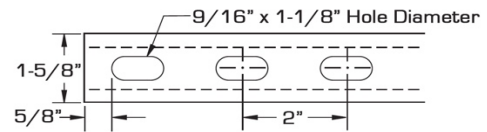
PG90 - Pre-Galvanized Grade 90

PG60 - Pre-Galvanized Grade 60

HG - Hot Dipped Galvanized

Length : 10'

(feet) 20'



ELEMENTS OF SECTION - ES1502T3 & ES1502T3EH						
Area of Section	X-X Axis			Y-Y Axis		
	Moment of Inertia (Inch ⁴)	Section Modulus (Inch ³)	Radius of Gyration (Inch)	Moment of Inertia (Inch ⁴)	Section Modulus (Inch ³)	Radius of Gyration (Inch)
1.452	2.805	1.151	1.390	0.669	0.823	0.679

BEAM LOADING ES1502T3 & ES1502T3EH						
Span (inch)	Lateral Bracing Load Reduction Factors	Maximum Allowable Uniform Load (lbs)	Deflection at Uniform Load (lbs)	Uniform Loading Deflection		
				Span/180 (lbs)	Span/240 (lbs)	Span/360 (lbs)
24	1.00	5,220 *	0.01	5,220 *	5,220 *	5,220 *
36	1.00	5,220 *	0.04	5,220 *	5,220 *	5,220 *
48	0.98	4,820	0.08	4,820	4,820	4,820
60	0.93	3,860	0.13	3,860	3,860	3,860
72	0.87	3,220	0.19	3,220	3,220	3,220
84	0.81	2,760	0.26	2,760	2,760	2,500
96	0.76	2,410	0.34	2,410	2,410	1,920
108	0.70	2,140	0.42	2,140	2,140	1,510
120	0.64	1,930	0.52	1,930	1,840	1,230
144	0.53	1,610	0.76	1,610	1,280	850
168	0.45	1,380	1.03	1,250	940	630
192	0.39	1,210	1.35	960	720	480
216	0.34	1,070	1.7	760	570	380
240	0.3	960	2.09	610	460	310

COLUMN LOADING ES1502T3 & ES1502T3EH					
Unbraced Height (inches)	Maximum Allowable Load at Slot Face (lbs)	Maximum Column Load Applied at C. G.			
		K=0.65 (lbs)	K=0.80 (lbs)	K=1.0 (lbs)	K=1.2 (lbs)
24	8,580	31,810	30,880	29,520	28,100
36	8,350	29,700	28,100	26,000	24,070
48	8,080	27,390	25,330	22,910	20,940
60	7,720	25,170	22,910	20,510	17,170
72	7,270	23,190	20,940	17,170	12,700
84	6,780	21,510	18,740	13,430	9,330
96	6,130	20,110	15,630	10,290	7,150
108	5,450	17,750	12,700	8,130	5,650
120	4,800	15,260	10,290	6,590	**
144	3,760	10,830	7,150	**	**
168	2,970	7,950	5,250	**	**

** KL_r>200

Column loads are for allowable axial loads and must be reduced for eccentric loading.

*Load limited by spot weld shear.

For concentrated load at center of span, divide uniform load by 2 and multiply corresponding corresponding deflection by 0.8.

Loads include weight of channel, which must be deducted.

Loads must be multiplied by the applicable unbraced factor located in the blue column in the chart above.