

## **METAL FRAMING CHANNEL**

## Cold Formed Strut

19449 Progress Dr. • Strongsville • OH • 44149 • PH: 440-878-1199

## ES4002T3 STANDARD, ES4002T3EH SLOTTED

1-5/8" x 2" 12 Gauge

**Part No:** ES4002T3 **Weight:** 288lbs /100 Ft. **Part No:** ES4002T3EH **Weight:** 272lbs /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 - ES4002T3 & ES4002T3EH						
	X-X Axis			Y-Y Axis		
Area of	Moment of	Section	Radius of	Moment of	Section	Radius of
Section	Inertia	Modulus	Gyration	Inertia	Modulus	Gyration
	(Inch <sup>4</sup> )	(Inch <sup>3</sup> )	(Inch)	(Inch <sup>4</sup> )	(Inch <sup>3</sup> )	(Inch)
0.849	0.255	0.255	0.548	0.322	0.396	0.616

BEAM LOADING ES4002T3 & ES4002T3EH						
Span (inch)	Lateral Bracing Load	Maximum Allowable Uniform Load (lbs)	Deflection at Uniform Load (lbs)	Uniform Loading Deflection		
	Reduction			Span/180 (lbs)	Span/240 (lbs)	Span/360 (lbs)
24	Factors 1.00			2,140 *	2.140 *	2.140 *
36	1.00	1,420	0.03	1.420	1,420	1,240
		-		, -	-	
48	1.00	1,070	0.20	1,070	1,040	700
60	1.00	850	0.32	850	670	450
72	0.97	710	0.46	620	460	310
84	0.95	610	0.63	450	340	230
96	0.92	530	0.81	350	260	170
108	0.90	470	1.03	280	210	140
120	-0.87	430	1.29	220	170	110
144	0.82	360	1.86	150	120	80
168	0.77	310	2.54	110	90	60
192	0.72	270	3.31	90	70	NR
216	0.67	240	4.19	70	NR	NR
240	0.62	210	5.03	60	NR	NR

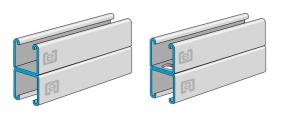
<sup>\*</sup>Load limited by spot weld shear

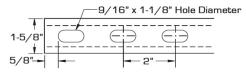
For concentrated load at center of span, divide uniform load by 2 and multiply corresponding deflection by 0.8.

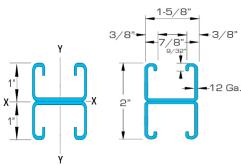
This load table is based on a solid channel section.

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.







COLUMN LOADING ES4002T3 & ES4002T3EH						
Unbraced Height (inches)	Maximum Allowable	Maximum Column Load Applied at C. G.				
	Load at Slot	K=0.65	K=0.80	K=1.0	K=1.2	
	Face (lbs)	(lbs)	(lbs)	(lbs)	(lbs)	
24	4,720	18,310	17,840	17,300	16,760	
36	4,640	17,360	16,760	15,260	13,610	
48	4,470	16,280	14,720	12,460	10,170	
60	4,230	14,590	12,460	9,610	6,980	
72	3,930	12,750	10,170	6,980	4,840	
84	3,520	10,880	7,990	5,130	3,560	
96	3,070	9,050	6,130	3,920	**	
108	2,690	7,340	4,840	3,100	**	
120	2,360	5,940	3,920	**	**	

<sup>\*\*</sup> KL r>200

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

<sup>†</sup> Bearing load may govern capacity.