



CATEGORY

**STRUT &
THREADED ROD**

AMMO ITEM #

U-1-5/8-12-PG-BTB

Company: _____
Job: _____ #Item: _____
Notes: _____

Strut Channels

OVAL SLOTTED, DEEP, BACK TO BACK

**FEATURES**

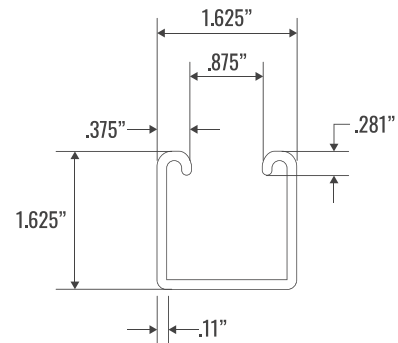
- Proudly Made in the USA
- Effective Properties incorporate
- Strength increase from Cold Forming
- Safety Factor for Beams is 1.67
- Safety Factor for Columns is 1.80

STANDARD MATERIAL

- Steel A1003 Grade 50

CERTIFICATION

- AISI S240-20



AMMO#	PHYSICAL PROPERTIES								
	SIZE	WEB DEPTH	FLANGE	RETURN	AREA (in ²)	WEIGHT (plf)	GAUGE	PKG	UPC
U-1-5/812PG10BTB	10'	1.625"	1.625"	.375"	1.1078	3.7665	12	15	840526242801
U-1-5/8-12-PG20BTB	20'	1.625"	1.625"	.375"	1.1078	3.7665	12	15	840526231034

STRUT

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SPAN	MAX. ALLOW UNIFORM (FULLY BRACED) plf	MAX. ALLOW. UNIFORM LOAD (plf)	BEAM LOADING				MAX ALLOWABLE MOMENT AT SPAN (lb-ft)
			DE FECTION AT MAX LOAD (in)	MAX UNIFORM LOAD AT DE FECTION (PLF)			
				L/180	L/240	L/360	
24"	3841	3842	0.10	1239.60	1239.60	850.04	620
36"	1707	1708	0.22	503.73	377.79	251.86	620
48"	960	902	0.39	212.51	159.38	106.25	620
60"	615	539	0.59	108.80	81.60	54.40	604
72"	427	347	0.83	62.97	47.22	31.48	585
84"	314	235	1.09	39.65	29.74	19.83	566
96"	240	165	1.37	26.56	19.92	13.28	547
108"	190	118	1.68	18.66	13.99	9.33	529
120"	154	86	2.00	13.60	10.20	6.80	510
240"	38	10	5.14	1.70	1.28	0.85	328

SPAN	COLUMN LOADING	
	MAX COLUMN LOAD AT CENTER OF GRAVITY (lb)	
	K= 0.65	
24"	23.640	
36"	20.540	
48"	16.386	
60"	11.776	
72"	8.189	
84"	6.017	
96"	4.607	
108"	3.640	
120"	2.948	
144"	2.047	
240"	KL/r ₂₀₀	

GROSS PROPERTIES

- Net Area (at 0.56" Hole) (in²): _____ 1.0061
- Moment of Intertia I_y (in⁴): _____ .4746
- Section Modulus S_y (in³): _____ .5841
- Radius of Gyration r_y: _____ .6545"
- Moment of Intertia I_x (in⁴): _____ .9628
- Section Modulus S_x (top) (in³): _____ .5924
- Radius of Gyration r_x: _____ .9782"

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