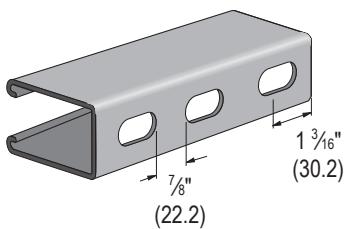


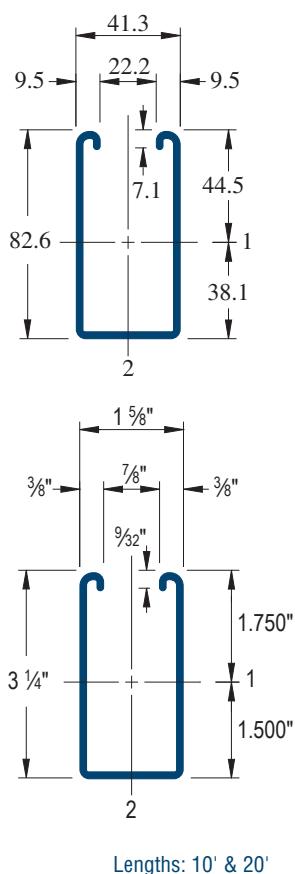
## CH5000T

3-1/4" x 1-5/8" - 12 Gauge Channel

Wt/100 Ft: 300 Lbs



Slots are  
 1 1/8" (28.6) x 1 1/16" (14.3)  
 2" (50.8) on Center



Materials &amp; Finishes: PG

Lengths: 10' &amp; 20'

Channel Material & Finish Specifications			
Desc.	Code	ASTM Designation	ASTM Description
Channel:	Use Finish Code	ASTM A1011 SS GR 33.	UBS channels are accurately and carefully cold formed to size from low-carbon strip steel.
Pre-Galvanized	PG	Components are cold-rolled from pre-galvanized sheet steel manufactured to the specification of ASTM A653 Grade 33 or ASTM A653 SS Grade 50. The pre-galvanized zinc coating to G-90 thickness, 0.75 MIL or 0.45 oz./sq. ft. of surface area.	

## Notes:

\* Load limited by spot weld shear.

\*\*  $KL/r > 200$ 

NR = Not Recommended.

For pierced channel, multiply beam loads by the following factor:

**"T" Series - 85%**

Refer to the UBS Products Catalog for loading information

## Beam Loading

Channel No.	Span In	Max. Allowable Uniform Load Lbs	Defl. at Uniform Load In	Uniform Loading at Deflection		
				Span/180 Lbs	Span/240 Lbs	Span/360 Lbs
CH5000	24	5,260	0.03	5,260	5,260	5,260
	36	3,500	0.07	3,500	3,500	3,500
	48	2,630	0.12	2,630	2,630	2,630
	60	2,100	0.18	2,100	2,100	1,920
	72	1,750	0.26	1,750	1,750	1,330
	84	1,500	0.36	1,500	1,470	980
	96	1,310	0.47	1,310	1,120	750
	108	1,170	0.59	1,170	890	590
	120	1,050	0.73	960	720	480
	144	880	1.06	670	500	330
	168	750	1.43	490	370	240
	192	660	1.88	370	280	190
	216	580	2.35	300	220	150
	240	530	2.95	240	180	120

## Column Loading

Channel No.	Unbraced Height In	Max. Allowable Load at Slot Face Lbs	Max. Column Load Applied at C.G.			
			K = 0.65 Lbs	K = 0.80 Lbs	K = 1.0 Lbs	K = 1.2 Lbs
CH5000	24	5,650	16,870	15,180	12,850	10,600
	36	4,690	13,140	10,600	7,650	5,660
	48	3,560	9,550	6,860	4,790	3,660
	60	2,730	6,680	4,790	3,450	2,710
	72	2,160	4,980	3,660	2,710	2,170
	84	1,760	3,950	2,960	2,240	1,820
	96	1,500	3,270	2,500	1,930	1,580
	108	1,310	2,800	2,170	1,690	1,390
	120	1,170	2,450	1,930	1,510	**
	144	980	1,980	1,580	**	**
	168	850	1,670	1,340	**	**

## Elements of Section

Channel No.	Area of Section in <sup>2</sup>	Axis 1-1		Axis 2-2	
		I in <sup>4</sup>	s in <sup>3</sup>	r in	I in <sup>4</sup>
CH5000	0.897	1.098	0.627	1.107	0.433

PROJECT INFORMATION:				APPROVAL STAMP:		
Project:						
Date:	Phone:					
Architect / Engineer:						
Contractor:						
Address:						
Notes 1:						