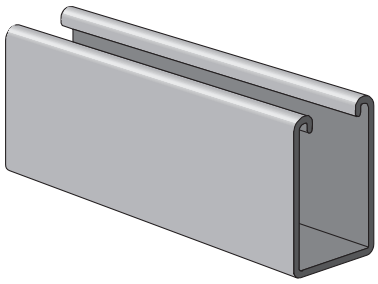
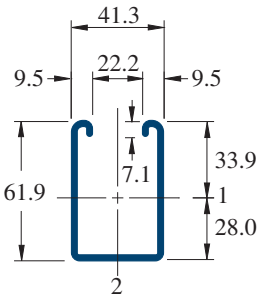
UBS INDUSTRIES

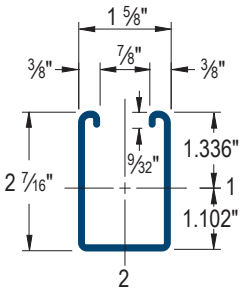
SUBMITTAL SHEETS

CH5500

2-7/16" x 1-5/8" - 12 Gauge Channel
Wt/100 Ft: 247 Lbs







Materials & Finishes: PG

Lengths: 10' & 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
CH5500	24	3,270	0.04	3,270	3,270	3,270
	36	2,180	0.09	2,180	2,180	2,180
	48	1,640	0.15	1,640	1,640	1,420
	60	1,310	0.24	1,310	1,310	910
	72	1,090	0.34	1,090	950	630
	84	940	0.47	930	700	470
	96	820	0.61	710	530	360
	108	730	0.78	560	420	280
	120	650	0.95	460	340	230
	144	550	1.39	320	240	160
	168	470	1.89	230	170	120
	192	410	2.46	180	130	90
	216	360	3.07	140	110	70
	240	330	3.86	110	90	60

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
CH5500	24	4,640	13,840	12,570	10,840	9,190
	36	3,970	11,050	9,190	7,030	5,370
	48	3,180	8,420	6,390	4,620	3,630
	60	2,550	6,250	4,620	3,450	2,780
	72	2,120	4,790	3,630	2,780	2,260
	84	1,810	3,890	3,010	2,330	1,910
	96	1,580	3,290	2,580	2,020	1,650
	108	1,400	2,860	2,260	1,770	1,440
	120	1,270	2,530	2,020	1,580	**
	144	1,060	2,070	1,650	**	**
	168	920	1,750	1,380	**	**

Elements of Section

Channel No.	Area of Section in^2	Axis 1-1			Axis 2-2		
		I in^4	s in^3	r in	I in^4	s in^3	r in
CH5500	0.726	0.522	0.390	0.848	0.334	0.411	0.679

Project Information:		Approval Stamp:
Project:		
Date:	**Phone:**	
Architect / Engineer:		
Contractor:		
Address:		
Notes 1:		