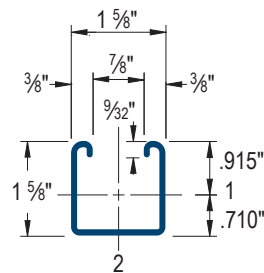
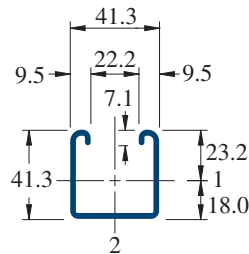
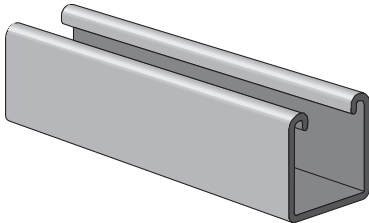


CH1000

1-5/8" x 1-5/8" - 12 Gauge Channel
Wt/100 Ft: 189 Lbs



Materials & Finishes: PG, HG, PL, AL, SS, FG

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.
[Stainless Steel: Channel	* SS304	A 240 TYPE 304	Heat resisting chromium and chromium-nickel stainless steel plate, sheet, strip for pressure vessel.
	* SS316	A 240 TYPE 316	
Aluminum: Channel	* AL	B 221 TYPE 6063 T5/T6	Aluminum alloy extruded bar, rod, wire, shape and tube.
Fiberglass: Channel	FG	Polyester and vinyl ester channels are manufactured from the pultrusion process and are color coded gray and beige respectively.	
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.	
Hot Dip Galvanized After Fabrication	HG	Components are fabricated from plain steel meeting the specification of ASTM A1011 and hot dipped galvanized after fabrication. Hot dip galvanizing is performed to the specification requirements of ASTM A123. The zinc coating is typically 2.6 MIL or 1.5 oz./sq. ft. of surface area.	
Special Coatings	PL, GOLD	Other commercially available finishes can be supplied per specification when required to protect applications.	
* These materials have different physical properties and performance characteristics. Please Contact UBS for design support.			

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
CH1000	24	1,690	0.06	1,690	1,690	1,690
	36	1,130	0.13	1,130	1,130	900
	48	850	0.22	850	760	500
	60	680	0.35	650	480	320
	72	560	0.50	450	340	220
	84	480	0.68	330	250	160
	96	420	0.89	250	190	130
	108	380	1.14	200	150	100
	120	340	1.40	160	120	80
	144	280	2.00	110	80	60
	168	240	2.72	80	60	40
	192	210	3.55	60	50	NR
	216	190	4.58	50	40	NR
	240	170	5.62	40	NR	NR

Column Loading

Channel No.	Unbraced Height In	Max. 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
CH1000	24	3,550	10,740	9,890	8,770	7,740
	36	3,190	8,910	7,740	6,390	5,310
	48	2,770	7,260	6,010	4,690	3,800
	60	2,380	5,910	4,690	3,630	2,960
	72	2,080	4,840	3,800	2,960	2,400
	84	1,860	4,040	3,200	2,480	1,980
	96	1,670	3,480	2,750	2,110	1,660
	108	1,510	3,050	2,400	1,810	**
	120	1,380	2,700	2,110	**	**
	144	1,150	2,180	1,660	**	**

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
CH1000	0.555	0.185	0.202	0.577	0.236	0.290	0.651

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%

"DS" Series - 70%

Refer to the UBS Products Catalog for loading information

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