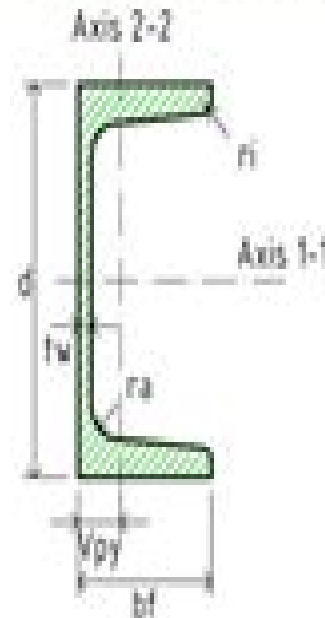
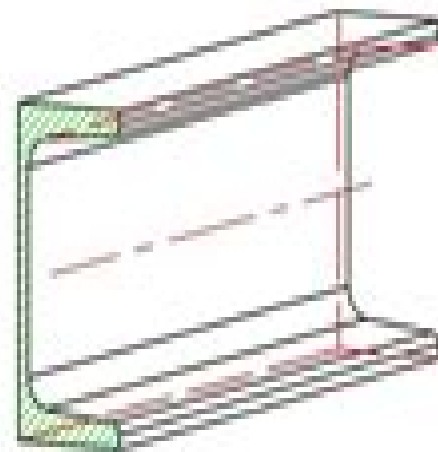


AMERICAN STANDARD CHANNELS (C-SHAPES)



- d = Depth of Section, inches
- bf = Flange Width, inches
- tf = Flange thickness, inches
- tw = Web thickness, inches
- ra, ri = Corner radius, inches
- I_x, I_y = Moment of inertia about center of gravity, inches⁴
- S_x, S_y = Section modulus, inches³
- r_x, r_y = Radius of gyration, inches
- V_{py} = Distance from neutral axis to extreme fiber, inches

Section Index	Depth	Weight per Foot	Area	Flange		Web Thickness	Corner Radius		Axis 1-1			Axis 2-2			
				Width	Thickness				I_x	S_x	r_x	I_y	S_y	r_y	V_{py}
	d		A_x	bf	tf	tw	ra	ri							
	(in)	(lb/ft)	(in ²)	(in)	(in)	(in)	(in)	(in)	(in ⁴)	(in ³)	(in)	(in ⁴)	(in ³)	(in)	(in)
C15X50	15	50.00	14.70	3.72	0.650	0.716	0.50	0.24	404.00	68.50	5.242	11.00	3.70	0.865	0.799
C15X40	15	40.00	11.80	3.52	0.650	0.520	0.50	0.24	348.00	57.50	5.431	9.17	2.23	0.882	0.778
C15X33.9	15	33.90	10.00	3.40	0.650	0.400	0.50	0.24	315.00	50.80	5.612	8.07	1.55	0.898	0.788
C12X30	12	30.00	8.81	3.17	0.501	0.510	0.38	0.17	162.00	33.80	4.288	5.12	1.69	0.762	0.674
C12X25	12	25.00	7.34	3.05	0.501	0.387	0.38	0.17	144.00	29.40	4.429	4.45	1.07	0.779	0.674
C12X20.7	12	20.70	6.08	2.94	0.501	0.282	0.38	0.17	129.00	25.60	4.606	3.86	0.74	0.797	0.698

Steel Beam With Cap Channel Properties Chart

Ying Liu



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Statics ,1910 *Materials Handling Handbook* Raymond A. Kulweic,1991-01-16 Sponsored jointly by the American Society of Mechanical Engineers and International Material Management Society this single source reference is designed to meet today s need for updated technical information on planning installing and operating materials handling systems It not only classifies and describes the standard types of materials handling equipment but also analyzes the engineering specifications and compares the operating capabilities of each type Over one hundred professionals in various areas of materials handling present efficient methods procedures and systems that have significantly reduced both manufacturing and distribution costs **Unified Design of Steel Structures** Louis F. Geschwindner,2011-12-20 Geschwindner s 2nd edition of Unified Design of Steel Structures provides an understanding that structural analysis and design are two integrated processes as well as the necessary skills and knowledge in investigating designing and detailing steel structures utilizing the latest design methods according to the AISC Code The goal is to prepare readers to work in design offices as designers and in the field as inspectors This new edition is compatible with the 2011 AISC code as well as marginal references to the AISC manual for design examples and illustrations which was seen as a real advantage by the survey respondents Furthermore new sections have been added on Direct Analysis Torsional and flexural torsional buckling of columns Filled HSS columns and Composite column interaction More real world examples are included in addition to new use of three dimensional illustrations in the book and in the image gallery an increased number of homework problems and media approach Solutions Manual Image Gallery Engineering Journal ,1998 **1996 National Steel Construction Conference** ,1996 *ICCM* ,1978 **Tubular Structures XI** JeffreyA. Packer,2017-10-02 This topical book contains the latest scientific and engineering developments in the field of tubular steel structures as presented at the 11th International Symposium and IIW International Conference on Tubular Structures The International Symposium on Tubular Structures ISTS has a long standing reputation for being the principal showcase for manufactured tubing and the prime international forum for discussion of research developments and applications in this field Various key and emerging subjects in the field of hollow structural sections are covered such as novel applications and case studies static and fatigue behaviour of connections joints concrete filled and composite tubular members earthquake resistance specification and code developments material properties and structural reliability impact resistance and brittle fracture fire resistance casting and fabrication innovations Research and development issues presented in this book are applicable to buildings bridges offshore structures entertainment rides cranes towers and various mechanical and agricultural equipment This book is thus a pertinent reference source for architects civil and mechanical engineers designers steel fabricators and contractors manufacturers of hollow sections or related construction products trade associations involved with tubing owners or developers of tubular structures steel specification committees academics and research students The conference presentations herein include two

keynote lectures the International Institute of Welding Houdremont Lecture and the ISTS Kurobane Lecture plus finalists in the CIDECT Student Papers Competition The 11th International Symposium and IIW International Conference on Tubular Structures ISTS11 took place in Qu bec City Canada from August 31 to September 2 2006 ICCM/2 Bryan R.

Noton, Metallurgical Society of AIME., 1978 **Canadian Journal of Civil Engineering** , 1985 Proceedings , 1982

Summary of Contractor Results in Support of the Refractory Metals Sheet Rolling Program D. J. Maykuth, 1966 This report summarizes the achievements on fourteen programs that were conducted in support of the Metals Sheet Rolling Program These included programs for developing practices to produce large sheets from two grades of unalloyed tungsten via powder metallurgy and arc melting respectively as well as for the Mo 0 5Ti Mo 0 5Ti 0 1Zr 0 03C TZM Cb 10W 1Zr 0 1C D 43 Cb 10W 2 5Zr Cb 752 and Ta 30Cb 7 5V alloys In addition pilot sheet rolling programs were also carried out for the Cb 27Ta 10W 1Zr FS 85 Cb 5Mo 5V 1Zr B 66 Ta 7W 3Re GE 473 and Ta 9 6W 2 4Hf 0 01C T 222 compositions **Air Service Information Circular** , 1922 Popular Mechanics , 1964-04 Popular Mechanics inspires instructs and influences readers to help them master the modern world Whether it s practical DIY home improvement tips gadgets and digital technology information on the newest cars or the latest breakthroughs in science PM is the ultimate guide to our high tech lifestyle

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