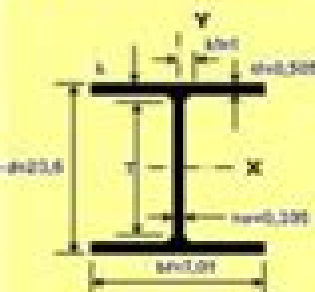
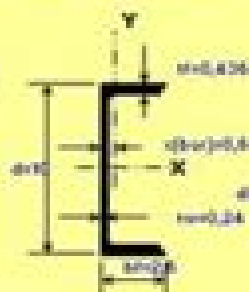


AISC 13th Edition MEMBER DIMENSION AND PROPERTIES VIEWER

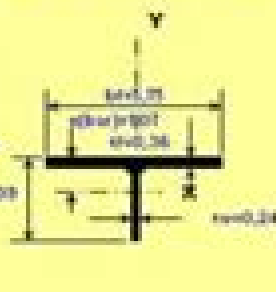
W, S, M, HP Shapes



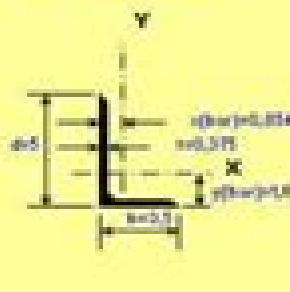
C, MC Shapes



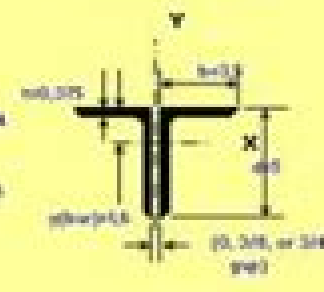
WT, ST, MT Shapes



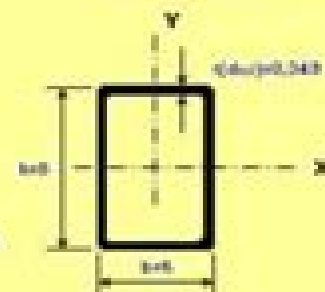
Single Angles



Double Angles



Rectangular HSS



W24X55		
A	58.2	in ²
d	23.8	in
tw	0.395	in
tf	1.01	in
tr	0.505	in
Wt.d	5.01	in
Wt.f	1.4375	in
Wt.r	1	in
T	20.75	in
g	5.3	in
Wt.g	15	in
Wt.h	6.34	in
Wt.i	14.8	in
Wt.j	1050	in
Wt.k	94	in
Wt.l	3.5	in
Wt.m	104	in
Wt.n	6.3	in
Wt.o	1.34	in
Wt.p	13.3	in
Wt.q	1.71	in
Wt.r	23.1	in
Wt.s	1.8	in
Wt.t	3050	in
Wt.u	52.5	in
Wt.v	35.8	in
Wt.w	13.3	in
Wt.x	55.1	in

C10X15.3		
A	4.48	in ²
d	10	in
tw	0.24	in
tf	2.8	in
tr	0.435	in
Wt.d	1	in
T	9	in
g	1.5	in
Wt.g	0.665	in
Wt.h	0.58	in
Wt.i	15.3	in
Wt.j	0.756	in
Wt.k	61.3	in
Wt.l	13.5	in
Wt.m	3.87	in
Wt.n	15.8	in
Wt.o	2.87	in
Wt.p	1.5	in
Wt.q	0.79	in
Wt.r	0.634	in
Wt.s	0.54	in
Wt.t	0.334	in
Wt.u	0.285	in
Wt.v	23.74	in
Wt.w	4.15	in
Wt.x	0.884	in

WT5X19		
A	5.24	in ²
d	5.890	in
tw	0.245	in
tf	5.750	in
tr	0.365	in
Wt.d	0.6400	in
T	0.9375	in
g	2.75	in
Wt.g	15.00	in
Wt.h	1.890	in
Wt.i	21.200	in
Wt.j	0.55	in
Wt.k	1.72	in
Wt.l	1.85	in
Wt.m	1.875	in
Wt.n	3.00	in
Wt.o	0.882	in
Wt.p	1.75	in
Wt.q	1.55	in
Wt.r	1.32	in
Wt.s	3.05	in
Wt.t	0.837	in
Wt.u	0.52	in
Wt.v	0.807	in
Wt.w	1.22	in
Wt.x	2.75	in
Wt.y	0.835	in

L3X3-50X5/8		
A	3.95	in ²
d	3	in
tw	3.5	in
tf	0.375	in
tr	0.825	in
Wt.d	0.25	in
T	1.75	in
g	2.50	in
Wt.g	1.590	in
Wt.h	1.800	in
Wt.i	4.050	in
Wt.j	0.533	in
Wt.k	3.5	in
Wt.l	1.15	in
Wt.m	1.800	in
Wt.n	0.854	in
Wt.o	2.500	in
Wt.p	0.505	in
Wt.q	1.14	in
Wt.r	0.67	in
Wt.s	0.725	in
Wt.t	0.455	in
Wt.u	0.943	in
Wt.v	0.5	in
Wt.w	0.217	in
Wt.x	1.54	in
Wt.y	0.600	in

2L3X3-50X5/8		
A	6.1	in ²
d	3	in
tw	3.5	in
tf	0.375	in
tr	0.825	in
Wt.d	0.5	in
T	4.50	in
g	1.55	in
Wt.g	1.6	in
Wt.h	0.98	in
Wt.i	0.93	in
Wt.j	1.33	in
Wt.k	1.46	in
Wt.l	1.55	in
Wt.m	2.51	in
Wt.n	2.50	in
Wt.o	2.56	in
Wt.p	0.663	in
Wt.q	0.7	in
Wt.r	0.736	in
Wt.s	1	in
Wt.t	0.593	in

HSS10X10		
A	9.97	in ²
d	8	in
tw	0.345	in
Wt.d	52.31	in
Wt.e	75.1	in
Wt.f	15.8	in
Wt.g	2.57	in
Wt.h	24.7	in
Wt.i	50.6	in
Wt.j	16.8	in
Wt.k	2.58	in
Wt.l	15.8	in
Wt.m	5.7625	in
Wt.n	4.7625	in
Wt.o	100	in
Wt.p	50	in
Wt.q	2.23	in

Round HSS & Pipes



Plates		
A	0.975	in ²
d	52	in
tw	15.71	in
T	6.500	in
g	0.853	in
Wt.g	0.251	in
Wt.h	0.505	in
Wt.i	54.000	in
Wt.j	5.000	in
Wt.k	3.484	in

P10X10X10		
A	1.85	in ²
O.D.	0.625	in
I.D.	1.941	in
Wt.d	0.122	in
Wt.e	0.3	in
Wt.f	28.60	in
Wt.g	55.3	in
Wt.h	15.8	in
Wt.i	2.50	in
Wt.j	20.8	in
Wt.k	136	in

Reference:
The shapes contained in this database are taken from the AISC Version 13.0 "Shapes Database" CD-ROM Version (12/2005), as well as those listed in the AISC 13th Edition Manual of Steel Construction (12/2005).

Aisc 13th Edition

Ying-Ying Zheng



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Connections in Steel Structures III Reidar Bjorhovde, André Colson, Riccardo Zandonini, 1996-05-20 This book publishes the proceedings from the Third International Workshop on Connections in Steel Structures Behaviour Strength and Design held in Trento Italy 29 31 May 1995 The workshop brought together the world's foremost experts in steel connections research development fabrication and design The scope of the papers reflects state of the art issues in all areas of endeavour and manages to bring together the needs of researchers as well as designers and fabricators Topics of particular importance include connections for composite steel concrete structures evaluation methods and reliability issues for semi rigid connections and frames and the impact of extreme loading events such as those imposed by major earthquakes The book highlights novel methods and applications in the field and ensures that designers and other members of the construction industry gain access to the new results and procedures

Steel Structures Design: ASD/LRFD Alan Williams, 2011-02-07 A COMPLETE GUIDE TO THE DESIGN OF STEEL STRUCTURES Steel Structures Design ASD LRFD introduces the theoretical background and fundamental basis of steel design and covers the detailed design of members and their connections This in depth resource provides clear interpretations of the American Institute of Steel Construction AISC Specification for Structural Steel Buildings 2010 edition the American Society of Civil Engineers ASCE Minimum Design Loads for Buildings and Other Structures 2010 edition and the International Code Council ICC International Building Code 2012 edition The code requirements are illustrated with 170 design examples including concise step by step solutions Coverage includes Steel buildings and design criteria Design loads Behavior of steel structures under design loads Design of steel structures under design loads Design of steel beams in flexure Design of steel beams for shear and torsion Design of compression members Stability of frames Design by inelastic analysis Design of tension members Design of bolted and welded connections Plate girders Composite construction

Modern Steel Construction, 2009 *AASHTO Guide Specifications for LRFD Seismic Bridge Design*, 2011 This work offers guidance on bridge design for extreme events induced by human beings This document provides the designer with information on the response of concrete bridge columns subjected to blast loads as well as blast resistant design and detailing guidelines and analytical models of blast load distribution The content of this guideline should be considered in situations where resisting blast loads is deemed warranted by the owner or designer

Principles of Structural Design Ram S. Gupta, 2014-04-22 A structural design book with a code connected focus Principles of Structural Design Wood Steel and Concrete Second Edition introduces the principles and practices of structural design This book covers the section properties design values reference tables and other design aids required to accomplish complete structural designs in accordance with the codes What's New in This Edition Reflects all the latest revised codes and standards The text material has been thoroughly reviewed and expanded including a new chapter on concrete design Suitable for combined design coursework in wood steel and concrete Includes all essential material the section properties design values reference

tables and other design aids required to accomplish complete structural designs according to the codes This book uses the LRFD basis of design for all structures This updated edition has been expanded into 17 chapters and is divided into four parts The first section of the book explains load and resistance factor design and explores a unified approach to design The second section covers wood design and specifically examines wood structures It highlights sawn lumber glued laminated timber and structural composite veneer lumber The third section examines steel structures It addresses the AISC 2010 revisions to the sectional properties of certain structural elements as well as changes in the procedure to design the slip critical connection The final section includes a chapter on T beams and introduces doubly reinforced beams Principles of Structural Design Wood Steel and Concrete Second Edition was designed to be used for joint coursework in wood steel and concrete design

Steel Structures Charles G. Salmon, John Edwin Johnson, Faris Amin Malhas, 2009 The design of structural steel members has developed over the past century from a simple approach involving a few basic properties of steel and elementary mathematics to a more sophisticated treatment demanding a thorough knowledge of structural and material behavior *Steel Structures Design and Behavior* 5 e strives to present in a logical manner the theoretical background needed for developing and explaining design requirements Beginning with coverage of background material including references to pertinent research the development of specific formulas used in the AISC Specifications is followed by a generous number of design examples explaining in detail the process of selecting minimum weight members to satisfy given conditions *Structural Stability of Steel* Theodore V. Galambos, Andrea E. Surovek, 2008-04-18 Practical guide to structural stability theory for the design of safe steel structures Not only does this book provide readers with a solid foundation in structural stability theory it also offers them a practical working knowledge of how this theory translates into design specifications for safe steel structures *Structural Stability of Steel* features detailed discussions of the elastic and inelastic stability of steel columns beams beam columns and frames alongside numerous worked examples For each type of structural member or system the authors set forth recommended design rules with clear explanations of how they were derived Following an introduction to the principles of stability theory the book covers Stability of axially loaded planar elastic systems Tangent modulus reduced modulus and maximum strength theories Elastic and inelastic stability limits of planar beam columns Elastic and inelastic instability of planar frames Out of plane lateral torsional buckling of beams columns and beam columns The final two chapters focus on the application of stability theory to the practical design of steel structures with special emphasis on examples based on the 2005 Specification for Structural Steel Buildings of the American Institute of Steel Construction Problem sets at the end of each chapter enable readers to put their newfound knowledge into practice by solving actual instability problems With its clear logical progression from theory to design implementation this book is an ideal textbook for upper level undergraduates and graduate students in structural engineering Practicing engineers should also turn to this book for expert assistance in investigating and solving a myriad of stability problems *Structural Analysis and Design of*

Tall Buildings Bungale S. Taranath, 2016-04-19 As software skills rise to the forefront of design concerns the art of structural conceptualization is often minimized Structural engineering however requires the marriage of artistic and intuitive designs with mathematical accuracy and detail Computer analysis works to solidify and extend the creative idea or concept that might have started out as a sketch on the back of an envelope From Sketches on the Back of an Envelope to Elegant Economical Buildings The Art of Structural Conceptualization Bridging the gap between the conceptual approach and computer analysis Structural Analysis and Design of Tall Buildings Steel and Composite Construction integrates the design aspects of steel and composite buildings in one volume Using conceptual thinking and basic strength of material concepts as foundations the book shows engineers how to use imperfect information to estimate the answer to larger and more complex design problems by breaking them down into more manageable pieces Written by an accomplished structural engineer this book discusses the behavior and design of lateral load resisting systems the gravity design of steel and composite floors and columns and methods for determining wind loads It also examines the behavior and design of buildings subject to inelastic cyclic deformation during large earthquakes with an emphasis on visual and descriptive analysis as well as the anatomy of seismic provisions and the rehabilitation of seismically vulnerable steel buildings Intuitive Techniques for Construction and Design The book covers a range of special topics including performance based design and human tolerance for the wind induced dynamic motions of tall buildings It also presents preliminary analysis techniques graphical approaches for determining wind and seismic loads and graphical aids for estimating unit quantity of structural steel The final chapter deals with the art of connection design Forty case studies from New York's Empire State Building to Kuala Lumpur's Petronas Towers highlight the aspects of conceptualization that are key in the design of tall and ultra tall buildings A comprehensive design reference this book guides engineers to visualize conceptualize and realize structural systems for tall buildings that are elegant and economical Ohio River Shoreline, Paducah, Kentucky Reconstruction Project United States. Office of the Assistant Secretary of the Army (Civil Works), 2012 **Simplified LRFD Bridge Design** Jai B. Kim, Robert H. Kim, Jonathan Eberle, 2013-04-08 Helping readers prepare for the civil and structural PE exam this book presents numerous design examples that serve as a comprehensive step by step guide to basic bridge design using the AASHTO LRFD Bridge Design Specifications Fifth Edition It offers a simplified explanation of load resistance factor design LRFD method based bridge design principles and lists the AASHTO reference section numbers alongside formulas and where topics are introduced to refer the reader to the primary source material This is a valuable reference for civil engineering students as well as for practicing engineers

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