



Table 1-1 (continued)
W Shapes
Dimensions

Shape	Area, <i>A</i> in. ²	Depth, <i>d</i> in.	Web			Flange				Distance				
			Thickness, <i>t_w</i> in.	<i>L_w</i> 2 in.	Width, <i>b_f</i> in.	Thickness, <i>t_f</i> in.	<i>k</i>		<i>k₁</i> in.	<i>T</i> in.	Work- able Gage in.			
							<i>K_{ser}</i>	<i>K_{ser}</i>						
W16×100	29.5	17.0	17	0.585	⁵ / ₁₆	⁵ / ₁₆	10.4	10 ⁵ / ₁₆	0.985	1	1.39	1 ¹ / ₂	1 ¹ / ₂	5 ¹ / ₂
>89	26.2	16.8	16 ³ / ₄	0.525	¹ / ₂	¹ / ₂	10.4	10 ⁵ / ₁₆	0.875	⁷ / ₈	1.28	1 ¹ / ₂	1 ¹ / ₂	
>77	22.6	16.5	16 ¹ / ₂	0.455	⁵ / ₁₆	¹ / ₂	10.3	10 ⁵ / ₁₆	0.760	³ / ₄	1.16	1 ¹ / ₂	1 ¹ / ₂	
>67 ^c	19.7	16.3	16 ¹ / ₂	0.395	³ / ₄	³ / ₄	10.2	10 ⁵ / ₁₆	0.665	1 ¹ / ₂	1.07	1 ¹ / ₂	1	
W16×57	16.8	16.4	16 ³ / ₄	0.430	³ / ₄	¹ / ₂	7.12	7 ¹ / ₂	0.715	1 ¹ / ₂	1.12	1 ¹ / ₂	⁷ / ₈	3 ¹ / ₂ ^d
>50 ^e	14.7	16.3	16 ¹ / ₂	0.380	³ / ₄	³ / ₄	7.07	7 ¹ / ₂	0.630	³ / ₄	1.03	1 ¹ / ₂	1 ¹ / ₂	
>45 ^e	13.3	16.1	16 ¹ / ₂	0.345	³ / ₄	³ / ₄	7.04	7	0.565	³ / ₄	0.967	1 ¹ / ₂	1 ¹ / ₂	
>40 ^e	11.8	16.0	16	0.305	³ / ₄	³ / ₄	7.00	7	0.505	¹ / ₂	0.907	1 ¹ / ₂	1 ¹ / ₂	
>36 ^e	10.6	15.9	15 ⁷ / ₈	0.295	³ / ₄	³ / ₄	6.99	7	0.430	³ / ₄	0.832	1 ¹ / ₂	³ / ₄	
W16×31 ^e	9.13	15.9	15 ⁷ / ₈	0.275	¹ / ₂	¹ / ₂	5.53	5 ¹ / ₂	0.440	³ / ₄	0.842	1 ¹ / ₂	³ / ₄	3 ¹ / ₂
>26 ^{e,f}	7.68	15.7	15 ⁷ / ₈	0.250	¹ / ₂	¹ / ₂	5.50	5 ¹ / ₂	0.345	³ / ₄	0.747	1 ¹ / ₂	³ / ₄	3 ¹ / ₂
W14×730 ^h	215	22.4	22 ⁵ / ₈	3.07	3 ³ / ₄	1 ¹ / ₂	17.9	17 ¹ / ₂	4.91	4 ¹ / ₂	5.51	6 ³ / ₄	2 ³ / ₄	3-7 ¹ / ₂ -3 ³ / ₄
>665 ^h	196	21.6	21 ¹ / ₂	2.83	2 ⁵ / ₈	1 ¹ / ₂	17.7	17 ¹ / ₂	4.52	4 ¹ / ₂	5.12	5 ¹ / ₂	2 ³ / ₄	3-7 ¹ / ₂ -3 ³ / ₄
>605 ^h	178	20.9	20 ⁵ / ₈	2.60	2 ³ / ₄	1 ¹ / ₂	17.4	17 ¹ / ₂	4.16	4 ³ / ₄	4.76	5 ¹ / ₂	2 ³ / ₄	3-7 ¹ / ₂ -3 ³ / ₄
>550 ^h	162	20.2	20 ¹ / ₂	2.38	2 ³ / ₄	1 ¹ / ₂	17.2	17 ¹ / ₂	3.82	3 ¹ / ₂	4.42	5 ¹ / ₂	2 ³ / ₄	
>500 ^h	147	19.6	19 ¹ / ₂	2.19	2 ¹ / ₂	1 ¹ / ₂	17.0	17	3.50	3 ³ / ₄	4.10	4 ¹ / ₂	2 ³ / ₄	
>455 ^h	134	19.0	19	2.02	2	1	16.8	16 ⁷ / ₈	3.21	3 ³ / ₄	3.81	4 ¹ / ₂	2 ³ / ₄	
>426 ^h	125	18.7	18 ³ / ₄	1.88	1 ¹ / ₂	¹ / ₂	16.7	16 ³ / ₄	3.04	3 ³ / ₄	3.63	4 ¹ / ₂	2 ³ / ₄	
>398 ^h	117	18.3	18 ¹ / ₄	1.77	1 ¹ / ₂	³ / ₄	16.6	16 ¹ / ₂	2.85	2 ³ / ₄	3.44	4 ¹ / ₂	2 ³ / ₄	
>370 ^h	109	17.9	17 ³ / ₄	1.66	1 ¹ / ₂	1 ¹ / ₂	16.5	16 ¹ / ₂	2.66	2 ¹ / ₂	3.26	3 ¹ / ₂	2 ³ / ₄	
>342 ^h	101	17.5	17 ¹ / ₂	1.54	1 ¹ / ₂	1 ¹ / ₂	16.4	16 ¹ / ₂	2.47	2 ¹ / ₂	3.07	3 ¹ / ₂	2	
>311 ^h	91.4	17.1	17 ¹ / ₂	1.41	1 ¹ / ₂	³ / ₄	16.2	16 ¹ / ₂	2.26	2 ¹ / ₂	2.86	3 ¹ / ₂	1 ¹ / ₂	
>283 ^h	83.3	16.7	16 ³ / ₄	1.29	1 ¹ / ₂	1 ¹ / ₂	16.1	16 ¹ / ₂	2.07	2 ¹ / ₂	2.67	3 ¹ / ₂	1 ¹ / ₂	
>257 ^h	75.6	16.4	16 ³ / ₄	1.18	1 ¹ / ₂	³ / ₄	16.0	16	1.89	1 ¹ / ₂	2.49	3 ¹ / ₂	1 ¹ / ₂	
>233 ^h	68.5	16.0	16	1.07	1 ¹ / ₂	³ / ₄	15.9	15 ⁷ / ₈	1.72	1 ¹ / ₂	2.32	3	1 ¹ / ₂	
>211 ^h	62.9	15.7	15 ³ / ₄	0.980	1	¹ / ₂	15.8	15 ³ / ₄	1.56	1 ¹ / ₂	2.16	2 ³ / ₄	1 ¹ / ₂	
>193 ^h	56.8	15.5	15 ³ / ₄	0.890	³ / ₄	³ / ₄	15.7	15 ³ / ₄	1.44	1 ¹ / ₂	2.04	2 ³ / ₄	1 ¹ / ₂	
>176 ^h	51.8	15.2	15 ¹ / ₂	0.830	¹ / ₂	³ / ₄	15.7	15 ¹ / ₂	1.31	1 ¹ / ₂	1.91	2 ³ / ₄	1 ¹ / ₂	
>159 ^h	46.7	15.0	15	0.745	³ / ₄	³ / ₄	15.6	15 ¹ / ₂	1.19	1 ¹ / ₂	1.79	2 ³ / ₄	1 ¹ / ₂	
>145 ^h	42.7	14.8	14 ³ / ₄	0.680	1 ¹ / ₂	³ / ₄	15.5	15 ¹ / ₂	1.09	1 ¹ / ₂	1.69	2 ³ / ₄	1 ¹ / ₂	

^c Shape is slender for compression with $F_y = 50$ ksi.

^d The actual size, combination, and orientation of fastener components should be compared with the geometry of the cross-section to ensure compatibility.

^e Flange thickness greater than 2 in. Special requirements may apply per AISC Specification Section A3.1c.

^f Shape does not meet the A/L_w limit for shear in Specification Section G2.1a with $F_y = 50$ ksi.

Aisc Manual Steel Tables

Ram S. Gupta



Aisc Manual Steel Tables:

Steel Buildings Stanley W. Crawley, Robert M. Dillon, 1993 This volume presents the general principles of structural analysis and their application to the design of low and intermediate height building frames The text is accompanied by software for the analysis of axial forces displacement and the bending moment and the determination of shear

Handbook of Civil Engineering Calculations, Second Edition Tyler G. Hicks, S. David Hicks, 2007-05-23 Table of Contents Preface How to Use This Handbook Sect 1 Structural Steel Engineering and Design Sect 2 Reinforced and Prestressed Concrete Engineering and Design Sect 3 Timber Engineering Sect 4 Soil Mechanics Sect 5 Surveying Route Design and Highway Bridges Sect 6 Fluid Mechanics Pumps Piping and Hydro Power Sect 7 Water Supply and Stormwater System Design Sect 8 Sanitary Wastewater Treatment and Control Sect 9 Engineering Economics Index 1 **Companion to the AISC Steel Construction Manual** American Institute of Steel Construction, 2023 **The Wiley Engineer's Desk Reference** Sanford I. Heisler, 1998-04-24 The Reference of Choice for Today's Engineer Revised expanded updated and ready to use Every engineer should have a copy of the bestselling Wiley Engineer's Desk Reference the ideal all in one resource for practical engineering applications and daily problem solving Now fully updated to address the latest developments in theory and practice this brand new Second Edition balances authoritative coverage of classical engineering topics with new material on state of the art subjects such as composites lasers automatic data collection and more No other book on the market covers the broad spectrum of engineering in as concise a fashion So whether you're looking for a specific piece of data or general background knowledge this conveniently sized ready reference puts the information you need right at your fingertips Contents include Mathematics Mechanics and materials Hydraulics Structures Thermodynamics Electricity and electronics Process control Statistics and economics Energy sources Engineering practice The design process Tables and reference data *Architectural Structures* J. Wayne Place, 2007-03-16 ARCHITECTURAL STRUCTURES Architecture A highly illustrative structural design resource for architects and builders Architectural Structures provides the critical tools and know how to design and build structures that will withstand wind earthquakes and other forces This major survey of structural design is a useful guide to the fundamentals of establishing the structural concept for a building and dealing with structural issues Using diagrams models computer simulations case studies and exercises Architectural Structures provides a comprehensive narrative that makes selecting and giving shape to structures and structural elements understandable In addition to developing the necessary vocabulary to effectively work with structural engineers it helps readers gain a common sense understanding of principles and issues the complexities of the design process and useful analytic methods This exceptional volume also features Diagrams drawings and photographs supporting complex concepts Helpful case studies illustrating structural behavior and the design of structural systems Information on cost estimation and other practical issues Real world problems and solutions based on actual building structures *Structural Design* James R. Underwood, Michele

Chiuini,1998 Structural Design presents the conceptual and practical underpinnings of basic building design and technology in a single comprehensive source It provides essential coverage of the integral relationships of structural architectural form and spatial organization and an understanding of the impact of load configurations and other key determinants of design Essential principles as well as structural solutions are visually reinforced with hundreds of architectural drawings photographs and other illustrations making this book truly architect friendly Ideal for use as a general and technical reference in the design studio as a study aid for the architectural registration exam or as an office resource Structural Design is a superb companion for the architecture student and practicing professional It includes In depth coverage of steel wood reinforced concrete and masonry including lateral force generation and design Over 1 000 illustrations and photographs Real world examples sample problems and useful references throughout Conventional and SI unit systems Standard Handbook of Engineering Calculations Tyler Gregory Hicks,1995 This invaluable handbook provides engineers and technicians with more than 5 000 direct and related calculations for solving day to day problems quickly and easily The book covers 13 disciplines including civil architectural mechanical electrical electronics and nuclear engineering enabling readers to become familiar with procedures in fields apart from their own Principles of Structural Design Ram S. Gupta,2011-11-22 Anyone involved with structural design whether a student or a practicing engineer must maintain a functional understanding of wood steel and concrete design principles In covering all of these materials Principles of Structural Design Wood Steel and Concrete fills a gap that exists in the instructional resources It provides a self contained authoritative source that elaborates on the most recent practices together with the code connected fundamentals that other books often take for granted Dr Ram Gupta a professional engineer provides readers with insights garnered over a highly active 40 year international career Organized for ready reference the book is divided into four main sections Part I covers loads load combinations and specific code requirements for different types of loads It elaborates on the LRFD load resistance factor design philosophy and the unified approach to design Part II covers sawn lumber structural glued laminated timber and structural composite lumber It reviews tension compression and bending members as well as the effects of column and beam stabilities and combined forces Part III considers the steel design of individual tension compression and bending members Additionally it provides designs for braced and unbraced frames Open web steel joists and joist girders are included here as they form a common type of flooring system for steel frame buildings Part IV analyzes the design of reinforced beams and slabs shear and torsion compression and combined compression and flexure in relation to basic concrete structures This textbook presents the LRFD approach for designing structural elements according to the latest codes Written for architecture and construction management majors it is equally suitable for civil and structural engineers Steel Connection Design by Inelastic Analysis IDEA StatiCa,Mustafa Mahamid,Mark Denavit,Ali Nassiri,Halil Sezen,Martin Vild,2024-10-15 Comprehensive resource on the finite element method in structural steel connection design through verification with AISC 360 provisions Steel Connection

Design by Inelastic Analysis covers the use of the finite element method in structural steel connection design. Verification with AISC 360 provisions is presented focusing on the Component Based Finite Element Method CBFEM, a novel approach that provides the global behavior and verification of resistance for the design of structural steel connections. This method is essential for fast and practical design and evaluation of connections with different levels of geometry and complexity. Detailed modeling and verification examples with references to AISC and other relevant publications are included throughout the text along with roughly 250 illustrations to aid in reader comprehension. Readers of this text will benefit from understanding at least the basics of structural design ideally through civil structural or mechanical engineering programs of study. Written by a team of six highly qualified authors, *Steel Connection Design by Inelastic Analysis* includes information on T stub connections, single plate shear connections, bracket plate connections, beam over column connections, and end plate moment connections. Bolted wide flange splice connections, temporary splice connections, and chevron brace connection in a braced frame, brace connections at beam column connection in a braced frame, and double angle simple beam to column connections. Semi rigid beam to column connections covering code design calculations and comparisons. IDEA StatiCa analysis and ABAQUS analysis. *Steel Connection Design by Inelastic Analysis* is an authoritative reference on the subject for structural engineers, Engineers of Record, EORs, fabrications specialists, and connection designers involved in the structural design of steel connections in the United States or any territory using AISC 360 as the primary design code.

Building Structures James Ambrose, Patrick Tripeny, 2011-10-18. The comprehensive reference on the basics of structural analysis and design, now updated with the latest considerations of building technology. Structural design is an essential element of the building process, yet one of the most difficult to learn. While structural engineers do the detailed consulting work for a building project, architects need to know enough structural theory and analysis to design a building. Most texts on structures for architects focus narrowly on the mathematical analysis of isolated structural components, yet *Building Structures* looks at the general concepts with selected computations to understand the role of the structure as a building subsystem without the complicated mathematics. New to this edition is a complete discussion of the LRFD method of design, supplemented by the ASD method, in addition to the fundamentals of structural analysis and design for architects. A glossary, exercise problems, and a companion website and instructor's manual. Material ideally suited for preparing for the ARE exam. Profusely illustrated throughout with drawings and photographs, and including new case studies. *Building Structures Third Edition* is perfect for nonengineers to understand and visualize structural design.

Simplified Design of Steel Structures James Ambrose, 1997. The seventh edition of *Simplified Design of Steel Structures* is an excellent reference for architects and engineers who need information about the common uses of steel for the structures of buildings. The clear and concise format benefits readers who have limited backgrounds in mathematics and engineering. This new edition has been updated to reflect changes in standards, industry technology, and construction practices, including new research in the field, examples of general building structural systems.

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Structural Analysis of Historic Buildings J. Stanley Rabun, 2000-02-21

Structural Analysis of Historic Buildings offers the most complete detailed and authentic data available on the materials calculation methods and design techniques used by architects and engineers of the nineteenth and early twentieth centuries It provides today's building professionals with information needed to analyze modify and certify historic buildings for modern use Among the many important features of this book not available in any other single volume are More than 350 line drawings and diagrams taken directly from original sources such as the Carnegie Steele Company's Pocket Companion 1893

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Structural Design Guide Edward S. Hoffman, 1996-08-31 This essential guide clearly explains the American Institute for Steel Construction AISC Load and Resistance Factor Design LRFD Specifications and Commentary enabling readers to conform with and profit from the design aids and tables in the AISC Manuals of Steel Construction Volumes I and II It provides readers with valuable specification interpretations analysis and design examples and graphs providing ready made solutions to complex code formulas Special features of this practical volume include quick and economical beam selection

tables detailed truss design examples and coefficients for shears moments and points of inflection It contains a variety of numerical examples along with discussions of material specifications The design requirements included in the LRFD specifications are arranged in an accessible manner making it easy to pinpoint the design of specific elements This single volume resource offers structural engineers essential material necessary for designing efficient structural steel buildings Engineering students in related courses will find this book invaluable for understanding and becoming acclimated with the AISC and LRFD standard design practices

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