



Table 1-1 (continued)
W-Shapes
Dimensions

Shape	Area, <i>A</i>	Depth, <i>d</i>	Web			Flange				Distance					
			Thickness, <i>t_w</i>	<i>t_w</i> / 2	Width, <i>b_f</i>		Thickness, <i>t_f</i>	<i>k</i>		<i>k₁</i>	<i>T</i>	Work- able Gage			
					in.	in.		<i>k_{max}</i>	<i>k_{min}</i>				in.	in.	
W14×132	38.8	14.7	14 ⁵ / ₁₆	0.645	⁵ / ₁₆	⁵ / ₁₆	14.7	14 ⁵ / ₁₆	1.03	1	1.63	2 ⁵ / ₁₆	1 ⁹ / ₁₆	10	5 ¹ / ₂
×120	35.3	14.5	14 ¹ / ₂	0.590	⁹ / ₁₆	⁹ / ₁₆	14.7	14 ⁵ / ₁₆	0.940	¹⁵ / ₁₆	1.54	2 ¹ / ₁₆	1 ¹ / ₂		
×109	32.0	14.3	14 ¹ / ₂	0.525	¹ / ₂	¹ / ₂	14.6	14 ¹ / ₂	0.860	³ / ₄	1.46	2 ⁵ / ₁₆	1 ¹ / ₂		
×99 ^f	29.1	14.2	14 ¹ / ₂	0.485	¹ / ₂	¹ / ₂	14.6	14 ¹ / ₂	0.780	³ / ₄	1.38	2 ¹ / ₁₆	1 ⁷ / ₁₆		
×90 ^f	26.5	14.0	14	0.440	⁷ / ₁₆	⁷ / ₁₆	14.5	14 ¹ / ₂	0.710	¹⁵ / ₁₆	1.31	2	1 ⁷ / ₁₆		
W14×82	24.0	14.3	14 ¹ / ₂	0.510	¹ / ₂	¹ / ₂	10.1	10 ¹ / ₁₆	0.855	³ / ₄	1.45	1 ¹⁵ / ₁₆	1 ¹ / ₁₆	10 ³ / ₁₆	5 ¹ / ₂
×74	21.8	14.2	14 ¹ / ₂	0.450	⁷ / ₁₆	⁷ / ₁₆	10.1	10 ¹ / ₁₆	0.785	¹³ / ₁₆	1.38	1 ⁵ / ₁₆	1 ¹ / ₁₆		
×68	20.0	14.0	14	0.415	⁷ / ₁₆	⁷ / ₁₆	10.0	10	0.720	³ / ₄	1.31	1 ⁵ / ₁₆	1 ¹ / ₁₆		
×61	17.9	13.9	13 ³ / ₈	0.375	³ / ₈	³ / ₈	10.0	10	0.645	³ / ₄	1.24	1 ¹ / ₂	1		
W14×53	15.6	13.9	13 ³ / ₈	0.370	³ / ₈	³ / ₈	8.06	8	0.660	¹¹ / ₁₆	1.25	1 ¹ / ₂	1	10 ³ / ₁₆	5 ¹ / ₂
×48	14.1	13.8	13 ³ / ₈	0.340	⁵ / ₁₆	⁵ / ₁₆	8.03	8	0.595	⁵ / ₈	1.19	1 ⁷ / ₁₆	1		
×43 ^c	12.6	13.7	13 ³ / ₈	0.305	⁵ / ₁₆	⁵ / ₁₆	8.00	8	0.530	¹ / ₂	1.12	1 ⁵ / ₁₆	1		
W14×38 ^c	11.2	14.1	14 ¹ / ₂	0.310	⁵ / ₁₆	⁵ / ₁₆	6.77	6 ³ / ₄	0.515	¹ / ₂	0.915	1 ¹ / ₄	¹³ / ₁₆	11 ⁵ / ₁₆	3 ¹ / ₂ ^d
×34 ^c	10.0	14.0	14	0.285	⁵ / ₁₆	⁵ / ₁₆	6.75	6 ³ / ₄	0.455	⁷ / ₁₆	0.855	1 ³ / ₁₆	³ / ₄		3 ¹ / ₂
×30 ^c	8.85	13.8	13 ³ / ₈	0.270	¹ / ₄	¹ / ₄	6.73	6 ³ / ₄	0.385	⁵ / ₈	0.785	1 ¹ / ₄	³ / ₄		3 ¹ / ₂
W14×26 ^c	7.69	13.9	13 ³ / ₈	0.255	¹ / ₄	¹ / ₄	5.03	5	0.420	⁷ / ₁₆	0.820	1 ¹ / ₄	³ / ₄	11 ⁵ / ₁₆	2 ¹ / ₂ ^d
×22 ^c	6.49	13.7	13 ³ / ₈	0.230	¹ / ₄	¹ / ₄	5.00	5	0.335	⁵ / ₁₆	0.735	1 ¹ / ₄	³ / ₄	11 ⁵ / ₁₆	2 ¹ / ₂ ^d
W12×336 ^b	98.9	16.8	16 ⁷ / ₈	1.78	1 ¹ / ₂	⁷ / ₈	13.4	13 ³ / ₈	2.96	2 ⁵ / ₁₆	3.55	3 ³ / ₈	1 ¹¹ / ₁₆	9 ³ / ₈	5 ¹ / ₂
×305 ^b	89.5	16.3	16 ³ / ₄	1.63	1 ¹ / ₄	1 ³ / ₈	13.2	13 ¹ / ₄	2.71	2 ¹¹ / ₁₆	3.30	3 ³ / ₈	1 ⁵ / ₈		
×279 ^b	81.9	15.9	15 ⁷ / ₈	1.53	1 ¹ / ₂	³ / ₄	13.1	13 ¹ / ₄	2.47	2 ⁷ / ₈	3.07	3 ³ / ₈	1 ⁵ / ₈		
×252 ^b	74.1	15.4	15 ³ / ₄	1.40	1 ¹ / ₄	1 ¹ / ₈	13.0	13	2.25	2 ³ / ₄	2.85	3 ³ / ₈	1 ¹ / ₂		
×230 ^b	67.7	15.1	15	1.29	1 ¹ / ₄	1 ¹ / ₈	12.9	12 ³ / ₄	2.07	2 ⁵ / ₈	2.67	2 ⁵ / ₈	1 ¹ / ₂		
×210	61.8	14.7	14 ³ / ₄	1.18	1 ³ / ₈	⁵ / ₈	12.8	12 ³ / ₄	1.90	1 ⁵ / ₈	2.50	2 ⁵ / ₈	1 ¹ / ₂		
×190	56.0	14.4	14 ¹ / ₂	1.06	1 ¹ / ₈	⁷ / ₈	12.7	12 ¹ / ₂	1.74	1 ⁵ / ₈	2.33	2 ⁵ / ₈	1 ¹ / ₂		
×170	50.0	14.0	14	0.960	¹³ / ₁₆	¹ / ₂	12.6	12 ¹ / ₂	1.56	1 ⁵ / ₈	2.16	2 ⁵ / ₈	1 ¹ / ₂		
×152	44.7	13.7	13 ³ / ₄	0.870	⁷ / ₈	⁷ / ₈	12.5	12 ¹ / ₂	1.40	1 ⁵ / ₈	2.00	2 ⁵ / ₈	1 ¹ / ₂		
×136	39.9	13.4	13 ¹ / ₂	0.790	¹³ / ₁₆	⁷ / ₈	12.4	12 ¹ / ₂	1.25	1 ⁵ / ₈	1.85	2 ¹ / ₈	1 ¹ / ₂		
×120	35.2	13.1	13 ¹ / ₂	0.710	¹¹ / ₁₆	⁷ / ₈	12.3	12 ¹ / ₂	1.11	1 ⁵ / ₈	1.70	2	1 ¹ / ₂		
×106	31.2	12.9	12 ³ / ₄	0.610	⁵ / ₈	⁵ / ₈	12.2	12 ¹ / ₂	0.990	1	1.59	1 ⁵ / ₈	1 ¹ / ₂		
×96	28.2	12.7	12 ³ / ₄	0.550	⁷ / ₁₆	⁷ / ₈	12.2	12 ¹ / ₂	0.900	⁷ / ₈	1.50	1 ¹³ / ₁₆	1 ¹ / ₂		
×87	25.6	12.5	12 ¹ / ₂	0.515	¹ / ₂	¹ / ₂	12.1	12 ¹ / ₂	0.810	¹³ / ₁₆	1.41	1 ¹¹ / ₁₆	1 ¹ / ₂		
×79	23.2	12.4	12 ¹ / ₂	0.470	¹ / ₂	¹ / ₂	12.1	12 ¹ / ₂	0.735	³ / ₄	1.33	1 ⁵ / ₈	1 ¹ / ₂		
×72	21.1	12.3	12 ¹ / ₂	0.430	⁷ / ₁₆	¹ / ₂	12.0	12	0.670	¹⁵ / ₁₆	1.27	1 ⁵ / ₈	1 ¹ / ₂		
×65 ^c	19.1	12.1	12 ¹ / ₂	0.390	³ / ₄	⁷ / ₈	12.0	12	0.605	³ / ₄	1.20	1 ¹ / ₂	1		

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

^b Shape exceeds compact limit for flexure with $F_y = 50$ ksi.

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

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

Aisc Asd Steel Construction Manual 14th Edition

Alan Williams



Aisc Asd Steel Construction Manual 14th Edition:

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.

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.

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

Elementary Structural Analysis and Design of Buildings Dominick Pilla, 2017-09-19 This overview of the analysis and design of buildings runs from basic principles and elementary structural analysis to the selection of structural systems and materials and on to foundations and retaining structures It presents a variety of approaches and methodologies while featuring realistic design examples As a comprehensive guide and desk reference for practicing structural and civil engineers and for engineering students it draws on the author's teaching experience at The City College of New York and his work as a design engineer and architect It is especially useful for those taking the National Council of Examiners for Engineering and Surveying SE exam

Design of Structural Steel Joints Ashoke Kumar Dasgupta, 2024-12-18 This book presents a systematic method of learning how to design perfect joints for steel buildings in industrial projects It describes the types of joints details different types of jointing and covers the mechanics of joints supported by worked out examples for different situations It also includes design charts for full strength joints of all standard sections The design and details presented in this book conform to Indian codes and US standards for general building and structural steel work Features Provides details on connection design principles and applications from an application point of view Covers practical aspects and good engineering practices related to connection design Explains mechanics of joints with illustrations and sketches Includes design charts for full strength member joints of standard sections Covers worked out examples sketches with supporting calculations of all typical connections from roofs to base plates This book is aimed at professionals in civil and structural engineering steel structure design and detailing

Fundamentals of Structural Engineering Jerome J. Connor, Susan Faraji, 2016-02-10 This updated textbook provides a balanced seamless treatment of both classic analytic methods and contemporary computer based techniques for conceptualizing and designing a structure New to the second edition are treatments of geometrically nonlinear analysis and limit analysis based on nonlinear inelastic analysis Illustrative examples of nonlinear behavior generated with advanced software are included The book fosters an intuitive understanding of structural behavior based on problem solving experience for students of civil engineering and architecture who have been exposed to the basic concepts of engineering mechanics and mechanics of materials Distinct from other undergraduate textbooks the authors of Fundamentals of Structural Engineering 2 e embrace the notion that engineers reason about behavior using simple models and intuition they acquire through problem solving The perspective adopted in this text therefore develops this type of intuition by presenting extensive realistic problems and case studies together with computer simulation allowing for rapid exploration of how a structure responds to changes in geometry and physical parameters The integrated approach

employed in Fundamentals of Structural Engineering 2 e make it an ideal instructional resource for students and a comprehensive authoritative reference for practitioners of civil and structural engineering

Introduction to Structures Paul McMullin, Jonathan Price, 2016-02-12 Introduction to Structures the lead book in the Architect's Guidebook to Structures series presents structures in simple accessible fashion through beautiful illustrations worked examples and from the perspective of practicing professionals with a combined experience of over 75 years It introduces the student to and reminds the practitioner of fundamental structural design principles Beginning by introducing structural forms in nature and history the process of design and selecting structural systems and materials the book then moves onto statics mechanics of materials and structural analysis The final chapter provides guidance on preliminary structural design complete with decision criteria and design tables Edited by experienced professional structural engineers with vital contributions from practicing architects Introduction to Structures is fully illustrated contains clear step by step examples and preliminary design guidance Designed as a key textbook for introductory structures courses it is also an indispensable reference for practicing architects

PPI PE Structural 16-Hour Practice Exam for Buildings, 6th Edition - 1 Year Joseph S Schuster, 2022-06-21 PE Structural 16 Hour Practice Exam for Buildings Sixth Edition offers comprehensive practice for the NCEES PE Structural SE exam This book is part of a comprehensive learning management system designed to help you pass the PE Structural exam the first time PE Structural 16 Hour Practice Exam for Buildings Sixth Edition features include The Most Realistic Practice for the PE Structural Exam Two 40 problem multiple choice breadth exams Two four essay depth exams consistent with the NCEES PE Structural exam's format and specifications Multiple choice problems require an average of six minutes to solve Essay problems can be solved in one hour Comprehensive step by step solutions for all problems demonstrate accurate and efficient problem solving approaches Solutions to the depth exams essay problems use blue text to identify the information you will be expected to include in your exam booklet to receive full credit Supplemental content uses black text to enhance your understanding of the solution process Referenced Codes and Standards AASHTO LRFD Bridge Design Specifications AASHTO 8th Ed Building Code Requirements and Specification for Masonry Structures TMS 402 602 2016 Ed Building Code Requirements for Structural Concrete ACI 318 2014 Ed International Building Code IBC 2018 Ed Minimum Design Loads for Buildings and Other Structures ASCE SEI7 2016 Ed National Design Specification for Wood Construction ASD LRFD and National Design Specification Supplement Design Values for Wood Construction NDS 2018 Ed Seismic Design Manual AISC 327 3rd Ed Special Design Provisions for Wind and Seismic with Commentary SDPWS 2015 Ed Steel Construction Manual AISC 325 15th Ed eTextbook Access Benefits Include One year of access Ability to download the entire eTextbook to multiple devices so you can study even without internet access An auto sync feature across all your devices for a seamless experience on or offline Unique study tools such as highlighting in six different colors to tailor your study experience Features like read aloud for complete hands free review

Design of Industrial Structures Ashoke Kumar Dasgupta, 2021-12-13 This book

bridges the gap between academic and professional field pertaining to design of industrial reinforced cement concrete and steel structures It covers pertinent topics on contracts specifications soil survey and design criteria to clarify objectives of the design work Further it gives out guiding procedures on how to proceed with the construction in phases at site negotiating changes in equipment and design development Safety quality and economic requirements of design are explained with reference to global codes Latest methods of analysis design and use of advanced construction materials have been illustrated along with a brief on analysis software and drafting tool

Design of Wood Structures-ASD/LRFD Donald E. Breyer, Kenneth J. Fridley, David G. Pollock, Kelly Cobein, 2014-09-05 THE DEFINITIVE WOOD STRUCTURE DESIGN GUIDE FULLY UPDATED Thoroughly revised to incorporate the latest codes and standards the seventh edition of this comprehensive resource leads you through the complete design of a wood structure following the same sequence of materials and elements used in actual design Detailed equations clear illustrations and practical design examples are featured throughout the text THIS NEW EDITION Conforms to the 2012 International Building Code IBC Addresses the new 2012 National Design Specification for Wood Construction NDS Contains dual format Allowable Stress Design Load and Resistance Factor Design ASD LRFD specifications equations and problems Includes ASCE SEI 7 10 load provisions DESIGN OF WOOD STRUCTURES ASD LRFD SEVENTH EDITION COVERS Wood buildings and design criteria Design loads Behavior of structures under loads and forces Properties of wood and lumber grades Structural glued laminated timber Beam design Axial forces and combined loading Wood structural panels Diaphragms Shearwalls Wood connections Nailed connections Bolts lag bolts and other connectors Connection details and hardware Diaphragm to shearwall anchorage Advanced topics in lateral force design

Structural Design for the Stage Alys Holden, Bronislaw Sammler, Bradley Powers, Steven Schmidt, 2015-02-20 The follow up to the 2000 Golden Pen Award winning Structural Design for the Stage this second edition provides the theater technician with a foundation in structural design allowing an intuitive understanding of why sets stand up It introduces the basics of statics and the study of the strength of materials as they apply to typical scenery emphasizing conservative approaches to real world examples This is an invaluable reference for any serious theatre technician throughout their career from the initial study of the fundamental concepts to the day to day use of the techniques and reference materials Now in hardcover with nearly 200 new pages of content it has been completely revised and updated to reflect the latest recommended practices of the lumber and steel industries while also including aluminum design for the first time

Civil Engineering PE All-in-One Exam Guide: Breadth and Depth, Fourth Edition Indranil Goswami, 2020-09-18 The most complete up to date Civil Engineering PE exam guide Fully updated for the latest technical standards and exam content this effective study guide contains all the information you need to pass the challenging Civil Engineering PE exam Written by a registered PE and experienced educator Civil Engineering PE All in One Exam Guide Breadth and Depth Fourth Edition features equations diagrams and study strategies along with nearly 200 accurate practice questions and solutions

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Soil Mechanics and Geotechnical Engineering D.L. Shah,A.V. Shroff,2003-01-01 Dealing with the fundamentals and general principles of soil mechanics and geotechnical engineering this text also examines the design methodology of shallow deep foundations including machine foundations In addition to this the volume explores earthen embankments and retaining structures including an investigation into ground improvement techniques such as geotextiles reinforced earth and more

PPI Structural Depth Reference Manual for the PE Civil Exam, Fifth Edition eText - 1 Year Alan Williams,2017-11-27 Comprehensive Coverage of the PE Civil Exam Structural Depth Section The Structural Depth Reference Manual for the PE Civil Exam prepares you for the structural depth section of the PE Civil exam It provides a concise yet comprehensive review of the structural depth section exam topics and highlights the most useful equations in the exam adopted codes and standards Solving methods including ASD and LRFD for steel strength design for concrete and ASD for timber and masonry are thoroughly explained Throughout the book cross references connect concepts and point you to additional relevant tables figures equations and codes More than 95 example problems demonstrate the application of concepts and equations Each chapter includes practice problems so you can solve exam like problems and step by step solutions allow you to check your solution approach A thorough index directs you to the codes and concepts you will need during the exam Topics Covered Design of Reinforced Masonry Design of Wood Structures Foundations Prestressed Concrete Design Reinforced Concrete Design Structural Steel Design Referenced Codes and Standards Building Code Requirements and Specifications for Masonry Structures and Companion Commentaries ACI 530 530 1 Building Code Requirements for Structural Concrete ACI 318 International Building Code IBC Minimum Design Loads for Buildings and Other Structures ASCE SEI7 National Design Specification for Wood Construction ASD LRFD NDS PCI Design Handbook Precast and Prestressed Concrete PCI Steel Construction Manual AISC Key Features A robust index to facilitate quick referencing during the PE Civil Exam Highlights the most useful equations in the exam adopted codes and standards Binding Paperback Publisher PPI A Kaplan Company

Civil Engineering All-In-One PE Exam Guide: Breadth and Depth, Third Edition Indranil Goswami,2015-07-06 Fully updated for the latest standards and exam content this complete guide is the only resource engineers need to pass the Civil Engineering PE Exam the first time Civil Engineering All in One PE Exam Guide Third Edition is the only resource an engineer needs to pass the PE CIVIL exam administered by the National Council of Examiners in Engineering and Surveying NCEES This exam is required by all 50 states for PE certification The book is formatted to

mirror the five subdisciplines of the exam Structural Geotechnical Water Resources Transportation and Construction and follows accepted PE syllabus content End of chapter problems and solutions help you prepare for the exam questions The third edition has been revised to include changes in design standards for reinforced concrete structural steel highway design and traffic engineering Chapters on structural engineering are expanded to help you prepare for the new Structural PE exam and a brand new chapter on Building Analysis and Design is included New chapter on Building Analysis and Design Updated for changes in codes design standards and PE syllabus End of chapter practice problems and solutions Covers all material on the NCEES PE Civil Exam Formatted as both a study tool and an on the job reference Updated structural chapters will aid those preparing for the 16 hour Structural PE Exam

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