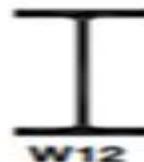


**Table 6-2 (continued)**  
**Available Strength for Members**  
**Subject to Axial, Shear,**  
**Flexural and Combined Forces**  
**W-Shapes**



$F_y = 50$  ksi  
 $F_u = 65$  ksi

W12x						Shape lb/ft	W12x						
72		65		58			72		65 <sup>†</sup>		58		
$P_n/\Omega_c$	$\phi_c P_n$	$P_n/\Omega_c$	$\phi_c P_n$	$P_n/\Omega_c$	$\phi_c P_n$		$M_{nx}/\Omega_b$	$\phi_u M_{nx}$	$M_{nx}/\Omega_b$	$\phi_u M_{nx}$	$M_{nx}/\Omega_b$	$\phi_u M_{nx}$	
Available Compressive Strength, kips													
ASD	LRFD	ASD	LRFD	ASD	LRFD	Design	ASD	LRFD	ASD	LRFD	ASD	LRFD	
632	949	572	859	509	765	0	269	405	237	356	216	324	
606	911	549	825	479	720	6	269	405	237	356	216	324	
597	898	540	812	469	705	7	269	405	237	356	216	324	
587	883	531	798	457	687	8	269	405	237	356	216	324	
576	866	521	783	445	668	9	269	405	237	356	215	323	
564	847	510	766	431	647	10	269	405	237	356	211	318	
550	827	497	747	416	625	11	268	404	237	356	207	312	
536	806	484	728	400	601	12	265	398	237	356	204	306	
521	783	470	707	384	577	13	261	392	233	350	200	301	
505	759	456	685	367	551	14	257	387	230	345	196	295	
489	735	441	663	349	525	15	254	381	226	340	192	289	
472	709	426	640	332	499	16	250	376	222	334	189	283	
455	683	410	616	314	472	17	246	370	219	329	185	278	
437	656	393	591	296	445	18	242	364	215	323	181	272	
419	629	377	567	278	418	19	239	359	212	318	177	266	
401	602	360	542	261	392	20	235	353	208	313	173	261	
384	547	327	492	227	341	22	228	342	201	302	166	249	
328	493	294	442	194	292	24	220	331	194	291	158	238	
292	440	262	394	165	249	26	213	320	186	280	151	227	
259	389	231	348	143	214	28	205	309	179	269	143	215	
226	340	202	304	124	187	30	198	297	172	259	135	203	
199	299	178	267	109	164	32	190	286	165	248	125	188	
176	265	157	236	96.7	145	34	183	275	158	237	116	174	
157	236	140	211	86.3	130	36	176	264	149	224	108	163	
141	212	126	189	77.4	116	38	167	251	139	209	102	153	
127	191	114	171	69.9	105	40	157	236	130	196	95.7	144	
115	173	103	155			42	148	223	123	185	90.5	136	
105	158	93.9	141			44	140	211	116	175	85.8	129	
96.2	145	85.9	129			46	133	200	110	166	81.6	123	
88.3	133	78.9	119			48	127	191	105	158	77.8	117	
81.4	122	72.7	109			50	121	182	100	150	74.3	112	

Properties						Limiting Unbraced Lengths, ft					
$P_n/\Omega_c$	$\phi_c P_n$	$P_n/\Omega_c$	$\phi_c P_n$	$P_n/\Omega_c$	$\phi_c P_n$	$L_p$	$L_r$	$L_p$	$L_r$	$L_p$	$L_r$
632	572	560	509	765		10.7	37.5	11.9	35.1	8.87	29.8
Available Strength in Tensile Rupture ( $A_u = 0.75A_g$ ), kips											
$P_n/\Omega_c$	$\phi_c P_n$	$P_n/\Omega_c$	$\phi_c P_n$	$P_n/\Omega_c$	$\phi_c P_n$	Area, in. <sup>2</sup>					
514	770	465	697	416	624	21.1					
Available Strength in Shear, kips											
$V_n/\Omega_c$	$\phi_c V_n$	$V_n/\Omega_c$	$\phi_c V_n$	$V_n/\Omega_c$	$\phi_c V_n$	Moment of Inertia, in. <sup>4</sup>					
106	159	94.4	142	87.8	132	$I_x$	$I_y$	$I_x$	$I_y$	$I_x$	$I_y$
Available Strength in Flexure about Y-Y Axis, kip-ft											
$M_{nx}/\Omega_b$	$\phi_u M_{nx}$	$M_{nx}/\Omega_b$	$\phi_u M_{nx}$	$M_{nx}/\Omega_b$	$\phi_u M_{nx}$	$I_{p,y}$ , in.					
123	185	107	161	81.1	122	597	195	533	174	475	107
$3.04$											
$I_x/I_y$											
1.75											
1.75											

<sup>†</sup> Shape exceeds compact limit for flexure with  $F_y = 50$  ksi.

Note: Heavy line indicates  $L_c/r$  equal to or greater than 200.

# Aisc Manual Column Design Tables

**Charles G. Salmon, John Edwin  
Johnson, Faris Amin Malhas**

## **Aisc Manual Column Design Tables:**

**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

**Structural Design** James R. Underwood, Michele Chiunini, 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     *Structural Steel Design* Jack C. McCormac, 2008 The material is presented in a clear reader friendly style This best selling text has been fully updated to conform to the latest American Manual of Steel Construction Both Load and Resistance Factor Design LRFD and Allowable Stress Design ASD are now covered and calculations are worked out side by side to allow for easy identification of the different methods Use of SI units as an addition to the primary use of Inch Pound units New coverage of Lateral Torsional Bending and Hollow Structural Sections For steel design students and professionals

*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     **Building Structures** James E. Ambrose, 1993 Construction Details From Architectural Graphic Standards Eighth Edition Edited by James Ambrose A concise reference tool for the professional involved in the production of details for building construction this abridgement of the classic Architectural Graphic Standards provides indispensable guidance on standardizing detail work without having to create the needed details from scratch An ideal how to manual for the working draftsperson this convenient portable edition covers general planning and design data sitework concrete masonry metals wood doors and windows finishes specialties equipment furnishings special construction energy design historic preservation and more Construction Details also includes extensive references to additional information as well as AGS's hallmark illustrations 1991 0 471 54899 5 408 pp Fundamentals of Building Construction Materials And Methods Second Edition Edward Allen A thoughtful overview of the entire construction industry from homes to skyscrapers there's plenty here for the aspiring tradesperson or anyone else who's fascinated by the art of building Fine Homebuilding Beginning with the materials of the ancients wood stone and brick this important work is a guide to the structural systems that have made these and more contemporary building materials the irreplaceable basics of modern architecture Detailing the structural systems most widely used today heavy timber framing wood platform framing masonry loadbearing wall structural steel framing and concrete framing systems the book describes each system's historical development how the major material is obtained and processed tools and working methods as well as each system's relative

merits Designed as a primer to building basics the book features a list of key terms and concepts review questions and exercises as well as hundreds of drawings and photographs illustrating the materials and methods described 1990 0 471 50911 6 803 pp Mechanical and Electrical Equipment for Buildings Eighth Edition Benjamin Stein and John S Reynolds The book is packed with useful information and has been the architect s standard for fifty years Electrical Engineering and Electronics on the seventh edition More up to date than ever this reference classic provides valuable insights on the new imperatives for building design today The Eighth Edition details the impact of computers data processing and telecommunications on building system design the effects of new stringent energy codes on building systems and computer calculation techniques as applied to daylighting and electric lighting design As did earlier editions the book provides the basic theory and design guidelines for both systems and equipment in everything from heating and cooling water and waste fire and fire protection systems lighting and electrical wiring plumbing elevators and escalators acoustics and more Thoroughly illustrated the book is a basic primer on making comfort and resource efficiency integral to the design standard 1991 0 471 52502 2 1 664 pp

*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

**Structural Steel Designer's Handbook**

Roger Brockenbrough, Frederick Merritt, 1999-12-02 The only A Z guide to structural steel design Find a wealth of practical

techniques for cost effectively designing steel structures from buildings to bridges in Structural Steel Designer's Handbook by Roger L Brockenbrough and Frederick S Merritt The Handbook's integrated approach gives you immediately useful information about steel as a material how it's fabricated and erected how to analyze a structure to determine internal forces and moments from dead live and seismic loads how to make detailed design calculations to withstand those forces This new third edition introduces you to the latest developments in seismic design including more ductile connections and high performance steels offers an expanded treatment of welding helps you understand design requirements for hollow structural sections and for cold formed steel members and explores numerous design examples You get examples for both Load and

Resistance Factor Design LRFD and Allowable Stress Design ASD    **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 and the use of computers in structural design Specifically Load and Resistance Factor Design LRFD and Allowable Stress Design ASD are now covered

### **Structural Design Guide to AISC Specifications for**

**Buildings** Paul F. Rice,Edward S. Hoffman,1976    [Civil Engineering Reference Manual](#) Michael R. Lindeburg,1992 This manual fully prepares applicants for the civil PE exam by far the most popular of the PE disciplines Every exam subject is thoroughly covered with illustrations and practice problems to heighten the reader's understanding Also included are test taking strategies and exam information indexed

### **Structural Steel Designer's Handbook, Sixth Edition** Roger L.

Brockenbrough,2019-10-25 Publisher's Note Products purchased from Third Party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product A fully updated source for structural steel design information Thoroughly revised for the latest advances this comprehensive resource contains information essential to the design of steel structures The book lays out the fundamentals of structural steel fabrication and erection followed by detailed design methods for steel beams columns tension components roof systems and connections Design examples throughout the book clearly demonstrate how to apply complex code provisions in the field You will get clear explanations of AISC 360 16 the AASHTO Standard Specification for Structural Steel Bridges the AISI Cold Formed Steel Standards ASCE 7 16 and the 2018 IBC Structural Steel Designer's Handbook Sixth Edition covers Properties of structural steels Effects of steelmaking and fabrication Fabrication and erection Connections Building codes loads and fire protection Criteria for building design Design of building members Floor and roof systems Lateral force design Cold formed steel design Highway bridge design criteria Beam girder and truss bridges Arch and cable suspended bridges

### **Design of**

**Steel Structures** Jay Shen,Bulent Akbas,Onur Seker,Mahmoud Faytarouni,2021-04-05 A straightforward overview of the

fundamentals of steel structure design This hands on structural engineering guide provides concise easy to understand explanations of the design and behavior of steel columns beams members and connections Ideal for preparing you for the field Design of Steel Structures includes real world examples that demonstrate practical applications of AISC 360 specifications You will get an introduction to more advanced topics including connections composite members plate girders and torsion This textbook also includes access to companion online videos that help connect theory to practice Coverage includes Structural systems and elements Design considerations Tension members Design of columns AISC design requirements Design of beams Torsion Stress analysis and design considerations Beam columns Connections Plate girders Intermediate transverse and bearing stiffeners *Structural Steel Designer's Handbook* Roger L. Brockenbrough, Frederick S. Merritt, 2011-02-07 A Complete and Current Guide to Structural Steel Design Fully updated with the most recent design codes standards and specifications Structural Steel Designer's Handbook Fifth Edition provides a convenient single source of the latest information essential to the practical design of steel structures This comprehensive volume begins by covering the properties of structural steel and the fundamentals of fabrication and erection Modern structural design methods applicable to buildings and other structures such as roof systems and various types of bridges are presented Details on the design of members beams columns and tension components and of bolted and welded connections are also covered Featuring contributions from renowned engineering experts this is an invaluable working tool for structural steel designers Based on the latest design standards codes and specifications ANSI AISC 360 10 unified LRFD and ASD specification ANSI AISI S100 unified specification for cold formed members SEI ASCE 7 10 wind seismic and live loads consolidated into the International Code Council ICC International Building Code IBC AASHTO highway bridge design standards ASTM material standards AREMA railroad bridge design specifications Coverage Includes Properties of structural steels and effects of steel making and fabrication Fabrication and erection Connections Building codes loads and fire protection Criteria for building design Design of building members Floor and roof systems Lateral force design Cold formed steel design Highway bridge design criteria Railroad bridge design criteria Beam and girder bridges Truss bridges Arch bridges Cable suspended bridges

Basics of Structural Steel Design Samuel H. Marcus, 1981 *Structural Design for Engineering Technology* Jack D. Bakos, 1974 **Schaum's Outline of Structural Steel Design** Abraham J. Rokach, 1991 Confusing Textbooks Missed Lectures Tough Test Questions Fortunately for you there's Schaum's Outlines More than 40 million students have trusted Schaum's to help them succeed in the classroom and on exams Schaum's is the key to faster learning and higher grades in every subject Each Outline presents all the essential course information in an easy to follow topic by topic format You also get hundreds of examples solved problems and practice exercises to test your skills This Schaum's Outline gives you Practice problems with full explanations that reinforce knowledge Coverage of the most up to date developments in your course field In depth review of practices and applications Fully compatible with your classroom text Schaum's highlights all the important

facts you need to know Use Schaum's to shorten your study time and get your best test scores Schaum's Outlines Problem Solved 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 5e 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.

**Statics and Strength of Materials for Architecture and Building Construction** Barry Onouye, Kevin Kane, 2007  
Taking a visually oriented approach Statics and Strength of Materials for Architecture and Building Construction Third Edition presents basic structural concepts in an easily understood manner. The authors introduce structural theory without relying on calculus. Instead using building examples and illustrations to supplement the book and introduce mathematically based material in a non threatening way. This edition features many fully worked example problems a new supplemental CD ROM a section on retaining walls and clearer connections between written and visual elements. Extensive treatment of load tracing paths in an organized and heavily illustrated manner. Includes a CD containing additional problems with solutions for further practice. New section discussing the basic principles of concrete retaining walls using free body diagrams and the equations of equilibrium. Building inspectors or people training to become inspectors or plans checkers.

**Engineering Journal**, 2008 **Principles of Structural Design** W.F. Chen, E.M. Lui, 2005-10-31 Many important advances in designing high performance structures have occurred over the last several years. Structural engineers need an authoritative source of information that thoroughly and concisely covers the foundational principles of the field. Comprising chapters selected from the second edition of the best selling Handbook of Structural Engineering this book provides a tightly focused economical guide to the theoretical practical and computational aspects of structural design. Expert contributors discuss a wide variety of structures including steel aluminum timber and prestressed concrete as well as reliability based design and structures based on wind engineering.

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