

W-, S-, C-, and MC-Shapes



Basic Design Values

1

This reference is based upon simplifying assumptions and arbitrarily selected limitations. Direct use of the 2022 AISC Specification (ANSI/AISC 360-22) may be less constrained and less conservative.

W-, C-, and MC-Shapes	ASTM A992/A992M	F_y 50 ksi	F_u 65 ksi
S-Shapes	ASTM A572/A572M Grade 50	50 ksi	65 ksi

Condition			ASD	LRFD	Related Info
Tension			$0.6F_u A_g \leq 0.5F_u A_n$	$0.9F_u A_g \leq 0.75F_u A_n$	For A_n see AISC Specification Equation D3-1.
Bending	Major Axis	$L_b \leq L_p$	$0.66F_y S_x$	$0.99F_y S_x$	$L_p = \frac{300r_f}{\sqrt{F_y}}$ See Note 1.1. L_p and strength when $L_b > L_p$ are given in the AISC Manual.
		$L_p < L_b \leq L_r$	Use linear interpolation between L_p and L_r		
		$L_b = L_r$	$0.42F_y S_x$	$0.63F_y S_x$	
	Minor Axis		$0.9F_y S_y$	$1.35F_y S_y$	
Shear (in major axis)			$0.4F_u A_w$	$0.6F_u A_w$	See Note 1.2.
Compression	$L_c/r \leq 800/\sqrt{F_y}$		$0.6F_u A_g (0.658)^P$	$0.9F_u A_g (0.658)^P$	$P = \frac{F_y (L_c/r)^2}{286,000}$ See Note 1.3.
	$L_c/r > 800/\sqrt{F_y}$		$\frac{150,000 A_g}{(L_c/r)^2}$	$\frac{226,000 A_g}{(L_c/r)^2}$	

Notes

- 1.1 Multiply equations given for strong axis with $L_b \leq L_p$ or weak axis, by values in parentheses for W21×48 (0.99), W14×90 (0.97), W12×65 (0.98), W10×12 (0.99), W8×10 (0.99), W6×15 (0.94), and W6×8.5 (0.98).
- 1.2 Multiply equations given by 0.9 for W44×230, W40×149, W36×135, W33×118, W30×90, W24×55, W16×26, and W12×14 and all C- and MC-shapes. In weak axis, equations can be adapted by using $A_w = 1.8b_f t$.
- 1.3 Not applicable to slender shapes. For slender shapes, use A_n from AISC Specification Section E7 in place of A_g . For C- and MC- shapes, see AISC Specification Section E4.

Aisc Design Guide 16

**Jay Shen,Bulent Akbas,Onur
Seker,Mahmoud Faytarouni**



Aisc Design Guide 16:

AI-Based Optimized Design of Structural Frames Won-Kee Hong, 2024-10-16 This book introduces an auto design based optimization for building frames using an artificial neural network ANN based Lagrange method and novel genetic algorithm GA The work of great mathematician Joseph Louis Lagrange and ANNs are merged to identify parameters that optimize structural frames of reinforced concrete prestressed concrete and steel frames subject to one or more design constraints New features for enhancing conventional GA are also demonstrated to optimize structural frames New features for optimizing multiple design targets of the building frames are highlighted while design requirements imposed by codes are automatically satisfied Chapters provide readers with an understanding of how both ANN based and novel GA based structural optimization can be implemented in holistically optimizing designated design targets for building structural frames guiding readers toward more rational designs that is consistent with American Institute of Steel Construction AISC and American Concrete Institute ACI standards ANN based holistic designs of multi story frames in general and reinforced concrete prestressed concrete and steel frames in particular are introduced This book suits structural engineers architects and graduate students in the field of building frame designs and is heavily illustrated with color figures and tables

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 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 EASEC16 Chien Ming Wang,Vinh Dao,Sritawat Kitipornchai,2020-12-22 This book presents articles from The 16th East Asian Pacific Conference on Structural Engineering and Construction 2019 held in Brisbane Australia It provides a forum for professional engineers academics researchers and contractors to present recent research and developments in structural engineering and construction *Proceedings of the Canadian Society of Civil Engineering Annual Conference 2022* Rishi Gupta,Min Sun,Svetlana Brzev,M. Shahria Alam,Kelvin Tsun Wai Ng,Jianbing Li,Ashraf El Damatty,Clark Lim,2023-08-05 This book comprises the proceedings of the Annual Conference of the Canadian Society of Civil Engineering 2022 The contents of this volume focus on specialty conferences in construction environmental hydrotechnical materials structures transportation engineering etc This volume will prove a valuable resource for those in academia and industry Structural Design Guide to AISC Specifications for Buildings Paul F. Rice,Edward S. Hoffman,1976 **Proceedings of the Indian Structural Steel Conference 2020 (Vol. 2)** Mahendrakumar Madhavan,James S. Davidson,N. Elumalai Shanmugam,2023-08-22 This book comprises the select peer reviewed proceedings of the Indian Structural Steel Conference ISSC 2020 The topics cover state of the art and state of the practice in structural engineering and latest research in structural modeling and design Novel analytical computational and experimental techniques proposal of new structural systems innovative methods for maintenance rehabilitation and monitoring of existing structures and investigation of the properties of engineering materials as related to structural behavior are presented in the book This book will be very useful for structural engineers researchers and consultants interested in sustainable materials and steel construction **PPI PE Civil Study Guide, 17th Edition** Michael R. Lindeburg,2022-09-30 Maximize your efficiency while studying for the PE Civil CBT exam by pairing the PE Civil Study Guide with Michael R Lindeburg s PE Civil Reference Manual PE Civil Study Guide Seventeenth Edition provides a strategic and targeted approach to exam preparation so that you gain a competitive edge With hundreds of entries containing helpful explanations derivations of equations and exam tips the Study Guide connects the NCEES exam specifications for all five PE Civil exams to the NCEES Handbook approved design standards and PPI s civil reference manuals The Study Guide is

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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

Structural Steel Design Abi Aghayere, 2025-05-29 Essential knowledge of steel framed structure design is a cornerstone for architectural civil and structural engineers as well as for students planning careers in structural design and construction Structural Steel Design Fourth Edition delivers a comprehensive understanding of structural steel design starting with the fundamentals and progressing to the design of a complete structural system It emphasizes not just the individual steel elements or components but their integration within the broader context of the entire structure By working through the chapters and corresponding design project tasks readers will complete the design of a full steel structure allowing them to grasp the connections between discrete components and the larger system This approach reinforces the importance of seeing the big picture in structural design Encouraged by the American Institute for Steel Construction this book goes beyond traditional textbook exercises by offering real world examples project based exercises and open ended problems that challenge the reader to make decisions and navigate the iterative nature of structural design Practical details and real world end of chapter problems reflect the types of challenges encountered in professional engineering practice making this text not just an academic resource but a practical guide for aspiring engineers

Structural Steel Design Abieyuwa Aghayere, Jason Vigil, 2020-02-06 This simple practical and concise guide to structural steel design using the Load and Resistance Factor Design LRFD and the Allowable Strength Design ASD methods will equip the reader with the necessary skills for designing real world structures Following a holistic project based learning approach that bridges the gap between engineering education and professional practice the design of each building component is presented in a way such that the reader can see how each element fits into the entire building design and construction process Structural details and practical example exercises that realistically mirror what obtains in professional design practice are presented

Advances in Structures Gregory J Hancock, 2003 This volume is an outcome of the international conference on advances in structures steel concrete composite and aluminium in Sydney in 2003 It focuses on researches in composite design fire engineering light gauge construction advanced structural analysis and concrete filled tubes

Index of Specifications and Standards, **Modern Steel Construction**, 2008 Proceedings of the 11th International Conference on Behaviour of Steel Structures in Seismic Areas Federico M. Mazzolani, Vincenzo Piluso, Elide

Nastri, Antonio Formisano, 2024-06-23 This volume highlights the latest advances innovations and applications in the field of seismic design and performance of steel structures as presented by leading international researchers and engineers at the 11th International Conference on the Behaviour of Steel Structures in Seismic Areas STESSA held in Salerno Italy on July 8 10 2024 It covers a diverse range of topics such as behaviour of structural members and connections performance of structural systems mixed and composite structures energy dissipation systems self centring and low damage systems assessment and retrofitting codes and standards light gauge systems The contributions which were selected by means of a rigorous international peer review process present a wealth of exciting ideas that will open novel research directions and foster multidisciplinary collaboration among different specialists *Handbook of Structural Engineering* W.F. Chen, E.M. Lui, 2005-02-28 Continuing the best selling tradition of the Handbook of Structural Engineering this second edition is a comprehensive reference to the broad spectrum of structural engineering encapsulating the theoretical practical and computational aspects of the field The contributors cover traditional and innovative approaches to analysis design and rehabilitation New topics include fundamental theories of structural dynamics advanced analysis wind and earthquake resistant design design of prestressed structures high performance steel concrete and fiber reinforced polymers semirigid frame structures structural bracing and structural design for fire safety Steel Plate Shear Walls with Gravity Load: Theory and Design Yang Lv, 2022-02-10 This book is written by subject experts based on the recent research results in steel plate shear walls considering the gravity load effect It establishes a vertical stress distribution of the walls under compression and in plane bending load and an inclination angle of the tensile field strip The stress throughout the inclined tensile strip as we consider the effect of the vertical stress distribution is determined using the von Mises yield criterion The shear strength is calculated by integrating the shear stress along the width The proposed theoretical model is verified by tests and numerical simulations Researchers scientists and engineers in the field of structural engineering can benefit from the book As such this book provides valuable knowledge useful methods and practical algorithms that can be considered in practical design of building structures adopting a steel shear wall system **Buildings and Structures under Extreme Loads** Chiara Bedon, Flavio Stochino, Daniel Honfi, 2020-11-25 Exceptional loads on buildings and structures may have different causes including high strain dynamic effects due to natural hazards man made attacks and accidents as well as extreme operational conditions severe temperature variations humidity etc All of these aspects can be critical for specific structural typologies and or materials that are particularly sensitive to external conditions In this regard dedicated and refined methods are required for their design analysis and maintenance under the expected lifetime There are major challenges related to the structural typology and material properties with respect to the key features of the imposed design load Further issues can be derived from the need for risk mitigation or retrofit of existing structures as well as from the optimal and safe design of innovative materials systems Finally in some cases no appropriate design recommendations are

available and thus experimental investigations can have a key role within the overall process In this Special Issue original research studies review papers and experimental and or numerical investigations are presented for the structural performance assessment of buildings and structures under various extreme conditions that are of interest for design

The Paramount Role of Joints into the Reliable Response of Structures C. C. Baniotopoulos, F. Wald, 2000 A detailed presentation of the major role played by correctly designed and fabricated joints in the safe and reliable response of steel composite and timber structures The typology morphology of connections is discussed for both conventional pinned and rigid joints and semi rigid types All relevant topics are comprehensively surveyed definitions classification and influence of joint behaviour on overall structural response Also presented are the application of the component method the notion of rotational capacity the local ductility of different types of earthquake resistant structural joints as determined in cyclic experiments numerical techniques for the realistic simulation of joint response simple and moment resistant structural connections

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