

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



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

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.

Condition			ASD	LRFD	Related Info	
Tension			$0.6F_yA_g \leq 0.8F_uA_s$	$0.9F_yA_g \leq 0.75F_uA_s$	For A_s , see AISC Specification Equation D3-1.	
Bending	Major Axis	$L_b \leq L_p$	$0.6F_yS_y$	$0.9F_yS_y$	$L_p = \frac{300r_f}{\sqrt{F_y}}$ See Note 1.1. L_b and strength when $L_b > L_p$ are given in the AISC Manual.	
		$L_p < L_b \leq L_c$	Use linear interpolation between L_p and L_c .			
		$L_b = L_c$	$0.42F_yS_y$	$0.63F_yS_y$		
	Minor Axis		$0.9F_yS_y$	$1.25F_yS_y$		
Shear (in major axis)			$0.4F_yA_w$	$0.6F_yA_w$	See Note 1.2.	
Compression	$L_c/r \leq 300/\sqrt{F_y}$		$0.6F_yA_g(0.658)^2$	$0.9F_yA_g(0.658)^2$	$P = \frac{F_y(L_c/r)^2}{286,000}$ See Note 1.3.	
	$L_c/r > 300/\sqrt{F_y}$		$\frac{150,000A_g}{(L_c/r)^2}$	$\frac{226,000A_g}{(L_c/r)^2}$		

Notes

- Multiply equations given for strong axis with $L_b \leq L_p$, or weak axis, by values in parentheses for W21x48 (0.99), W14x90 (0.97), W12x65 (0.98), W10x12 (0.99), W8x10 (0.99), W6x15 (0.94), and W6x8.5 (0.98).
- Multiply equations given by 0.9 for W44x230, W40x149, W36x135, W33x118, W30x90, W24x55, W16x26, and W12x14 and all C- and MC-shapes. In weak axis, equations can be adapted by using $A_w = 1.8A_g$.
- Not applicable to slender shapes. For slender shapes, use A_w from AISC Specification Section E7 in place of A_g . For C- and MC-shapes, see AISC Specification Section E4.

Aisc Design Guide 16 Errata

Richard Bailey

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Engineering and Design ,1986 *Index to Publications Referenced in Guide Specifications for Civil Works and Military Construction* United States. Army. Corps of Engineers,1977 *Index to Publications Referenced in Guide Specifications for Civil Works and Military Construction* ,1978 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 **Engineering Journal** ,2007 **The Code of Federal Regulations of the United States of America** ,1999 The Code of Federal Regulations is the codification of the general and permanent rules published in the Federal Register by the executive departments and agencies of the Federal Government Bridge Engineering Handbook Wai-Fah Chen,Lian Duan,1999-11-04 An international team of experts has joined forces to produce the Bridge Engineering Handbook They address all facets the planning design inspection construction and maintenance of a variety of bridge structures creating a must have resource for every bridge engineer This unique comprehensive reference provides the means to review standard practices and keep abreast of new developments and state of the art practices Comprising 67 chapters in seven sections the authors present Fundamentals Provides the basic concepts and theory of bridge engineering Superstructure Design Discusses all types of bridges Substructure Design Addresses columns piers abutments and foundations Seismic Design Presents the latest in seismic bridge design Construction and Maintenance Focuses on the practical issues of bridge structures Special Topics Offers new and important information and unique solutions Worldwide Practice Summarizes bridge engineering practices around the world Discover virtually all you need to know about any type of bridge Reinforced Segmental and Prestressed Concrete Steel beam and plate girder Steel box girder Orthotropic deck Horizontally curved Truss Arch Suspension Cable stayed Timber Movable Floating Railroad Special attention is given to rehabilitation retrofit and maintenance and the Bridge Engineering Handbook offers over 1 600 tables charts and

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