

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

**IDEA StatiCa, Mustafa Mahamid, Mark
Denavit, Ali Nassiri, Halil Sezen, Martin
Vild**

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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

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- Referenced Codes and Standards
- 2015 International Building Code
- ICC A Policy on Geometric Design of Highways
- Streets AASHTO
- AASHTO Guide for Design of Pavement Structures
- AASHTO LRFD Bridge Design Specifications
- Building Code Requirements Specification for Masonry Structures
- ACI 530 Building Code Requirements for Structural Concrete
- Commentary ACI 318
- Design Construction of Driven Pile Foundations
- FHWA Design Construction of Driven Pile Foundations
- Volume I
- FHWA Design Control of Concrete Mixtures
- PCA Design Loads on Structures During Construction
- ASCE 37 Formwork for Concrete
- ACI SP 4 Foundations
- Earth Structures Design Manual
- 7 02 Geotechnical Aspects of Pavements
- FHWA Guide for the Planning Design Operation of Pedestrian Facilities
- AASHTO Guide to Design of Slabs on Ground
- ACI 360R Guide to Formwork for Concrete
- ACI 347R Highway Capacity Manual
- TRB Highway Safety Manual
- AASHTO Hydraulic Design of Highway Culverts
- FHWA LRFD Seismic Analysis Design of Transportation Geotechnical Features
- Structural Foundations Reference Manual
- FHWA Manual on Uniform Traffic Control Devices
- FHWA Minimum Design Loads for Buildings Other Structures
- ASCE SEI 7 National Design Specification for Wood Construction
- AWC Occupational Safety Health Regulations for the Construction Industry
- OSHA 1926 Occupational Safety Health Standards
- OSHA 1910 PCI Design Handbook
- Precast Prestressed Concrete
- PCI Recommended Standards for Wastewater Facilities
- TSS Roadside Design Guide
- AASHTO Soils Foundations Reference Manual
- Volume I II
- FHWA Steel Construction Manual
- AISC Structural Welding Code
- Steel AWS

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.

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

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