

# 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 Errata

**Richard Bailey**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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## **Table of Contents Aisc Design Guide 16 Errata**

1. Understanding the eBook Aisc Design Guide 16 Errata
  - The Rise of Digital Reading Aisc Design Guide 16 Errata
  - Advantages of eBooks Over Traditional Books
2. Identifying Aisc Design Guide 16 Errata
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Aisc Design Guide 16 Errata
  - User-Friendly Interface
4. Exploring eBook Recommendations from Aisc Design Guide 16 Errata
  - Personalized Recommendations
  - Aisc Design Guide 16 Errata User Reviews and Ratings
  - Aisc Design Guide 16 Errata and Bestseller Lists
5. Accessing Aisc Design Guide 16 Errata Free and Paid eBooks
  - Aisc Design Guide 16 Errata Public Domain eBooks
  - Aisc Design Guide 16 Errata eBook Subscription Services
  - Aisc Design Guide 16 Errata Budget-Friendly Options
6. Navigating Aisc Design Guide 16 Errata eBook Formats

- ePub, PDF, MOBI, and More
- Aisc Design Guide 16 Errata Compatibility with Devices
- Aisc Design Guide 16 Errata Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Aisc Design Guide 16 Errata
  - Highlighting and Note-Taking Aisc Design Guide 16 Errata
  - Interactive Elements Aisc Design Guide 16 Errata
- 8. Staying Engaged with Aisc Design Guide 16 Errata
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Aisc Design Guide 16 Errata
- 9. Balancing eBooks and Physical Books Aisc Design Guide 16 Errata
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Aisc Design Guide 16 Errata
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Aisc Design Guide 16 Errata
  - Setting Reading Goals Aisc Design Guide 16 Errata
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Aisc Design Guide 16 Errata
  - Fact-Checking eBook Content of Aisc Design Guide 16 Errata
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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