

AISC 360-10 Standard – Erection and Fabrication

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The current 2010 AISC “Specification for Structural Steel Buildings” (AISC 360-10) is the controlling design standard for structural steel, as referenced in the 2012 International Building Code. This standard replaces the AISC 360-05 Standard.

Chapter M of the Standard deals with Fabrication and Erection requirements. An understanding of these requirements is essential for any structural engineer who designs using this Standard. As part of this course, you will be required to read Chapter M “Fabrication and Erection”, both the Standard and the Commentary.

The Standard is found on pages 16.1-165 through 16.1-169 and the Commentary is found on pages 16.1-445 through 16.1-449.

The Standard is available in the 14th Edition AISC Steel Construction Manual, or as a free PDF download from the AISC website at

<http://www.aisc.org/WorkArea/showcontent.aspx?id=26516>

QUIZ

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1. Weld access holes in shapes that are to be galvanized shall be _____.
 - a. ground to bright metal
 - b. drilled or punched
 - c. milled to bear
 - d. are not permitted

2. The frame of a structural steel building shall be carried up true and plumb within limits defined in the _____.
 - a. ASTM A-6 Standard
 - b. International Building Code
 - c. AISC Code of Standard Practice.
 - d. RCSC Specification

3. Camber is usually defined by _____.
 - a. a parabolic curve
 - b. points at the quarter points of the member
 - c. one mid-ordinate
 - d. the fabricator.

4. Paint _____ in bearing type connections.
 - a. which meets slip requirements is allowed.
 - b. Is prohibited.
 - c. Is permitted.
 - d. none of the above

5. The technique of welding shall be in accordance with _____.
 - a. ASTM A123
 - b. RCSC Specification
 - c. AWS D1.3
 - d. AWS D1.1