

Revisions and Errata List

AISC Steel Design Guide 16, 1st Printing (Printed Copy)

May 13, 2025

The following list represents corrections to the first printing (dated 2002) of AISC Design Guide 16, *Flush and Extended Multiple-Row Moment End-Plate Connections*.

Page(s)

Item

- 11 In the left column, Equation 2-11 should read:

$$Q_{max,i} = \frac{w't_p^2}{4a_i} \sqrt{F_{py}^2 - 3 \left(\frac{F'_i}{w't_p} \right)^2}$$

- 11 In the left column, Equation 2-13 should read:

$$a_i = 3.682 \left(\frac{t_p}{d_b} \right)^3 - 0.085$$

- 11 In the left column, Equation 2-14 should read:

$$F'_i = \frac{t_p^2 F_{py} \left(0.85 \frac{b_p}{2} + 0.80 w' \right) + \frac{\pi d_b^3 F_t}{8}}{4 p_{f,i}}$$

- 11 In the right column, Equation 2-16 should read:

$$a_o = \left| \begin{array}{l} 3.682 \left(\frac{t_p}{d_b} \right)^3 - 0.085 \\ P_{ext} - P_{f,o} \end{array} \right|_{\min}$$

- 34 In Table 4-3, Case 1, $\phi M_n = \phi_y M_{pl} = \phi_y F_{py} t_p^2 Y$ should be $\phi M_n = \phi_b M_{pl} = \phi_b F_{py} t_p^2 Y$.

- 41 In the left column, section “4.2.2 Four-Bolt Extended Unstiffened Moment End-Plate Connection (Table 4-3)” should be replaced with “4.2.2 Four-Bolt Extended Stiffened Moment End-Plate Connection (Table 4-3).”

- 47 In the right column under *Design Procedure 1*, the expression “ $d_b = 7/8$ in.” should be replaced with “ $d_b = 5/8$ in.”

- 63 The decision diamond near the bottom of the flow chart should read:

$$\phi M_{np} \leq \frac{\phi_b M_{pl}}{1.11}$$

63 In the bottom left box of the flowchart, replace the equation with:

$$\phi M_n = \min \begin{cases} \phi M_{np} \\ \phi_b M_{pl} / 1.11 \gamma_r \end{cases}$$

65 The decision diamond near the bottom of the flow chart should read:

$$\frac{\phi_b M_{pl}}{\gamma_r} \leq \phi M_q$$