

Revision and Errata List

AISC Steel Construction Manual, 16th Edition (1st Printing)

Date: February 28, 2025

The following list represents corrections to the First Printing of the AISC *Steel Construction Manual*, 16th Edition. The Specifications found in Part 16 of the *Manual* have their own revisions and errata lists.

Page(s)	Item
1-40, 1-42	Revise “Area” units to in. ² from in. ⁴
1-134	In Table 1-21, revise the value under “Web”, “h”, “Std.” from 2-5/64 to 3-5/64
2-8	Under Safety Cables, item 2, change “walking surface” to “finished floor.”
3-78	In the S-shape figure on the left-hand side of the top of the page, change W10-S6 to S10-S6
6-106	Under Point “D” defining equations: 1) Revise “ M_D ” equation as follows (change “ Z_{cn} ” to “ Z_c ”): $M_D = F_y Z_s + F_y Z_r + 0.85 f_c' \left(\frac{Z_c}{2} \right)$ 2) Replace the “ Z_{cn} ” equation with the following: $Z_c = \frac{h_1 h_2^2}{4} - Z_s - Z_r$
6-108	In the lower right box on the page, the moment equation for point B should show “ M_B ” (not “ M_D ”).
8-15	The figure reference in the first sentence of “Elastic Method” should read “Figure 8-5(a)” instead of “Figure 8-6(a).”
8-66	The title of the table on page 8-66 is changed to: “Prequalified Welded Joints Flare-Bevel <u>Flare-V</u> Groove Welds”
9-15	Add the following limit to Equation 9-42: $\alpha_r = \frac{1}{\delta} \left[\frac{T_r}{T_c} \left(\frac{t_c}{t} \right)^2 - 1 \right] \text{ with } 0 \leq \alpha_r \leq 1.0$
9-50 to 9-51	In Table 9-3c, the heading of the first column should be “ l_{ev} ” (not “ l_{eh} ”).
10-13	The second full sentence on the page to be corrected as follows: “Values above the heavy line are governed by the limit state of block shear rupture.”
10-36	In the bottom portion of the second page of Table 10-5, under “Connection Type”, it should read: “D (3 bolts)”, “E (6 bolts)”, and “F (9 bolts)” [instead of “A (2 bolts)”, “B (4 bolts)”, and “C (6 bolts)”].

Page(s)	Item
10-49	In the <i>Dimensional Limitations</i> Section, limitation 4 should reference AISC <i>Specification</i> Table J3.4 (not Table J3.5).
10-98	The second sentence on the page to be corrected as follows: “Through-plate connections should be used when the HSS wall is classified as a slender element ($b/t \leq > 1.40\sqrt{E/F_y}$ or 33.7 for $F_y = 50$ ksi for rectangular HSS; $D/t > 0.11E/F_y$ or 63.8 for $F_y = 50$ ksi for round HSS) or does not satisfy the punching shear limit state.”
10-105	In the lower right-hand case, the groove weld symbol “S” is changed to “D” and “E” is changed to “S”.
12-7	In the definition for “a” used in Equation 12-4, revise the units from kips to in.
18-24	“Mill tolerances” should reference page 1-135 rather than 1-127.