Revision and Errata List
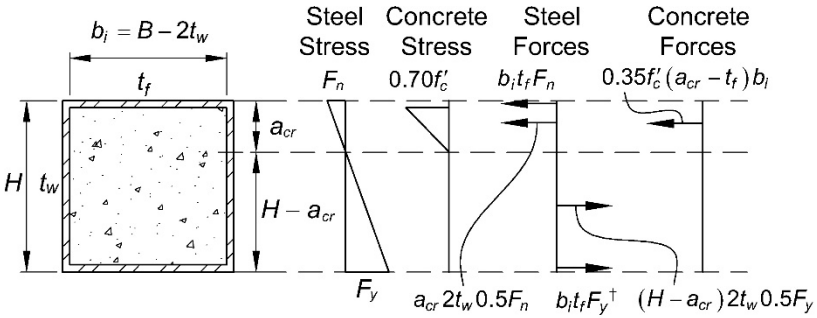## AISC *Specification for Structural Steel Buildings*, 2022 (1ˢᵗ Printing)

Date: January 23, 2025

The following list represents corrections to the First Printing of the AISC *Specifications for Structural Steel Buildings*, dated August 1, 2022.

Page(s)	Item
16.1-60	In Equation F5-1, replace M_p with M_n.
16.1-64	Replace equation numbers (F7-10) through (F7-13) with (F7-8) through (F7-11).
16.1-136	Revise the minimum bolt pretension for Group 150 M12 bolts in Table J3.1M from 72 kN to 61 kN.
16.1-153	Revise the units for M_y pertaining to Eqn. J10-7 as follows: ~~ksi (MPa)~~kip-in. (N-mm).
16.1-167	Revise the resistance factor, ϕ, for the limit state of shear yielding (punching) for branches under in-plane bending (given by Equation K4-2) from 0.90 to 0.95 (LRFD).
16.1-168	Revise the second limit of applicability for branch slenderness should be as follows: $0.05\,E/F_y \geq D_b/t_b$.
16.1-185	In Sections N4.1(b) and N4.2(b), revise "AWS D1.1/D1.1M, clause 8.1.4.2(4)" to "AWS D1.1/D1.1M, clause 8.1.4.2(5)".
16.1-241	In Section 4.2.4d(c), revise the second sentence after Equation A-4-11 as follows: "$P_e(T)$ is calculated at elevated temperature using Equation ~~I2-5~~ I2-4."
16.1-242	In Section 4.2.4d(d), revise the second sentence after Equation A-4-12 as follows: "$P_e(T)$ is calculated at elevated temperature using Equation ~~I2-5~~ I2-4."
16.1-281	In Section 7.3.1(b), revise the definition for the symbol L as follows: "$L =$ ~~height of story~~ laterally unbraced length of member, in. (mm)"
16.1-447	Replace Figure C-I3.8(c) with the following (F_{cr} revised to F_n).

Neutral axis location for force equilibrium: $a_{cr} = \dfrac{F_y H t_w + (0.35 f_c' + F_y - F_n) b_i t_f}{t_w(F_n + F_y) + 0.35 f_c' b_i}$
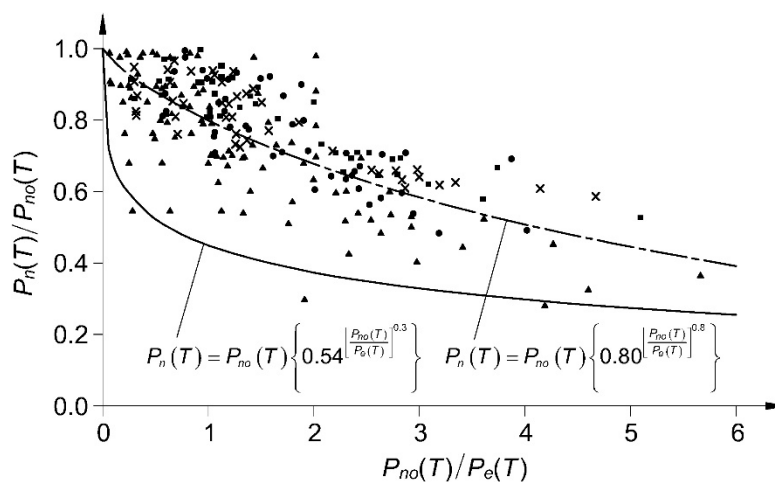
†Neglecting stress variation over flange thickness

16.1-477   Revise the caption for Figure C-J1.2 under Alternates 1 and 2 as follows: "Rolled shapes and ~~are~~ built-up shapes assembled prior to cutting the weld access hole."

16.1-615   Replace Figure C-A-4.6 with the following (the coefficient 0.45 revised to 0.54).

$$P_n(T) = P_{no}(T)\left\{0.54^{\left[\frac{P_{no}(T)}{P_e(T)}\right]^{0.3}}\right\} \qquad P_n(T) = P_{no}(T)\left\{0.80^{\left[\frac{P_{no}(T)}{P_e(T)}\right]^{0.8}}\right\}$$

- ▲ Series 1: Aspect ratio   × Series 3: Steel strength
- • Series 2: Section slenderness · Series 4: Concrete strength

$$P_{no}(T) = A_s F_y(T) + 0.85 \sum_{i=conc\_elements} f'_c(T_i) A_{ci}$$

$$P_e(T) = \frac{\pi^2 (EI)_{eff}}{L_c^2}$$

$$(EI)_{eff} = E_s(T) I_s + C_3 \sum_{i=conc\_elements} E_c(T_i) I_{ci}$$

$$C_3 = 0.45 + 3\left(\frac{A_s}{A_g}\right) \le 0.9$$

16.1-624   Revise the equation numbers in the first column of Table C-A-4.5 up by one each, so that the equations listed run from A-4-24 to A-4-32.