

Revisions and Errata List
AISC Steel Design Guide 2, 2nd Printing (Printed Copy)
September 10, 2019

The following list represents corrections to the second printing (dated September 1991) of AISC Design Guide 2, *Steel and Composite Beams with Web Openings*.

Page(s)	Item
17	In Table 4.1, the 4th line, the equation for ΔA_s is revised to: $\Delta A_s = h_o t_w$
18	In Table 4.2 under the subheading <i>Calculate maximum shear capacity</i> , the equations for μ are missing a factor of 2. They should read as follows: “For the bottom tee, use... $\mu = 2P_r d_r / (V_{pb} S_b)$.” “For the top tee, use... $\mu = 2P_r d_r / (V_{pt} S_t)$.”
26	In the left column under the subheading <i>Maximum shear capacity</i> , the line beginning “Using Eq. 3-13 or Fig. A.2...” should read as follows: “Using Eq. 3-13 or Fig. A.2 with $\mu = 0$ and $v = 5.63$, $\alpha_v = 0.333$.”
27	In the right column, third full paragraph, last line, replace the equation for $\phi F_n A_{ns}$ with $\phi F_n A_{ns} = 0.75 \times 0.6 \times 58 \text{ ksi} \times \frac{3}{8} \text{ in.} \times 120 \text{ in.} = 196 \text{ kips} \geq 52.7 \text{ OK.}$
37	In the right column under the heading, <i>High moment-shear ratio</i> , the name “Clauson” should be replaced by the name, “Clawson” in the second line. Also in this paragraph, the reference, “Clauson & Darwin 1982” should be replaced with “Clawson & Darwin 1982a.”
38	In the right column, second paragraph under <i>Failure</i> , “Clawson & Darwin 1982” should be replaced with “Clawson & Darwin 1982a.”
38	In the right column, fourth paragraph under <i>Failure</i> , “Clawson & Darwin 1982” should be replaced with “Clawson & Darwin 1982a.”
39	In the left column, first paragraph under c. Shear connectors and bridging, “Donahey & Darwin 1986b” should be replaced with “Donahey & Darwin 1986.”
40	In the left column, third paragraph under h. Load and resistance factors, the following changes should be made: line 9 “83 test specimens” should be replaced with “85 test specimens” and “24 steel beams” should be replaced with “29 steel beams” line 10 “14 with rectangular openings” should be replaced with “19 with rectangular openings” line 14 “22 steel beams with reinforced openings” should be replaced with “21

steel beams with reinforced openings”

line 16 “Cooper & Snell 1977” should be replaced with “Cooper et al. 1977”

line 17 “23 composite beams with ribbed slabs and unreinforced openings”
should be replaced with “21 composite beams with ribbed slabs and
unreinforced openings”

41 In the upper left paragraph, second and third line, “Clawson & Darwin 1982” should be
replaced with “Clawson & Darwin 1982a” and “Clawson & Darwin 1983” should be
replaced with “Clawson & Darwin 1982b.”

41 In the caption for Figure 5.10, “Darwin & Donahey 1986” should be replaced with
“Donahey & Darwin 1986.”

47 In the left column, second line from the bottom, the variable “ d ” should be replaced with
the variable “ d_t .”

47 In the right column, top line, a parenthesis should be added after the $P_c d_t$ term.

51 In the first paragraph, third line, under 6.3 APPROXIMATE PROCEDURE, “ASCE
(1973)” should be replaced with “ASCE (1971).”

51 In the caption for Figure 6.1, “(ASCE 1973)” should be replaced with “(ASCE 1971).”

52 In the left column, the term “ a_o^3 ” in the numerator of the equation for θ_T should be
replaced with the term “ a_o^2 .”

52 In the right column, “ K = shape factor (29)” should be replaced with “ K = shape factor
(Knostman et al. 1977).”

53 In the right column, the equation for K_{36} should be replaced with:

$$K_{36} = -I_t^2 A_t - I_b^2 A_b - \beta_t \left(\frac{a_o^2}{6} + n_t \right) - \beta_b \left(\frac{a_o^2}{6} + n_b \right)$$

55 Under the “References” heading, add “Note: Subsequent references by the same first
author are noted by ‘_____.’”

55 In the left column, replace the reference, “_____ Tests of Composite Beams with
Web Openings,” with the following:

Clawson, William C., and Darwin, David, “Tests of Composite Beams with
Web Openings,” *ASCE Journal of the Structural Division* 108: No. ST1
(January 1982a): 145-62.

55 After the “Tests of Composite Beams with Web Openings” reference, add the following
reference:

Clawson, William C., and Darwin, David, “Strength of Composite Beams with
Web Openings,” *ASCE Journal of the Structural Division* 108: No. ST3
(March 1982b): 623-41.

55 In the right column, add the following reference above the “Donoghue, C. Michael”
reference:

Dohahey, Rex, and Darwin, David, “Web Openings in Composite Beams

with Ribbed Slabs,” *ASCE Journal of Structural Engineering* 114: No. 3
(March 1988): 518-534.