

Revision and Errata List
Companion to the AISC Steel Construction Manual
Volume 1: Design Examples Version 16.0
Date: June 2, 2025

The following list represents corrections to the Companion to the AISC Steel Construction Manual Volume 1: Design Examples Version 16.0.

Page(s)	Item
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IIA-149 At the end of the *Connection Selection* check, delete: “The 8-in.-long L6×4×⁵/₈ (4 in. OSL) with 5½ in. bolt gage, Connection Type B (four bolts), is acceptable.”

Under *Available Bolt Shear Strength*, revise “L6” to “Connection Type B (four bolts)”

Revise the available shear strength check to:

LRFD	ASD
$\phi R_n = 71.6 \text{ kips} > 54.8 \text{ kips}$ o.k.	$\frac{R_n}{\Omega} = 47.7 \text{ kips} > 36.5 \text{ kips}$ o.k.

IIA-150 At the end of the *Bolt Bearing and Tearout* check, insert: “The 8-in.-long L6×4×⁵/₈ (4 in. OSL) with 5½ in. bolt gage, Connection Type B (four bolts), is acceptable.”

IIA-288 In the *Available Weld Strength* check, revise “ $kl = 4$ in.” to “ $kl = 3$ in.” Revise the corresponding variables and calculations as follows:

$$k = \frac{\del{4 \text{ in.}} \ 3 \text{ in.}}{11\frac{1}{2}} \\ = \del{0.348} \ 0.261$$

$$x = \del{0.0456} \ 0.0280$$

$$a = \del{0.348} \ 0.261 + \frac{0.380 \text{ in.}}{2(11\frac{1}{2} \text{ in.})} - \del{0.0456} \ 0.0280 \\ = \del{0.319} \ 0.250$$

$$C = \del{2.19} \ 2.20$$

IIA-289 Revise the available weld strength check to:

LRFD	ASD
$\phi R_n = \phi CC_1 D l$ $= 0.75(2.20)(1.00)(3)(11\frac{1}{2} \text{ in.})$ $= 56.9 \text{ kips} > 54.0 \text{ kips}$ o.k.	$\frac{R_n}{\Omega} = \frac{CC_1 D l}{\Omega}$ $= \frac{2.20(1.00)(3)(11\frac{1}{2} \text{ in.})}{2.00}$ $= 38.0 \text{ kips} > 36.0 \text{ kips}$ o.k.

IIA-292

Revise the available connection strength check to:

LRFD	ASD
$\phi R_n = 56.9 \text{ kips} > 54.0 \text{ kips}$ o.k.	$\frac{R_n}{\Omega} = 38.0 \text{ kips} > 36.0 \text{ kips}$ o.k.