

ERRATA for
PE Civil: Structural Practice Exam
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Revisions are shown in red.

Question 65, p. 48:

Option B should read as follows:

- B. ASD = 21.3
LRFD = 32.1

Solution 65, p. 81:

Reference: AISC, 15th ed.

$$R_n = F_n A_b$$

$$\phi = 0.75, \Omega = 2.00$$

Equation J3-1

ASD:

$$F_{nv} = 27 \text{ ksi}$$

$$F_{nv} / \Omega = 13.5 \text{ ksi}$$

Table J3.2

$$\text{Allowable load} = 2(13.5)(0.79) = 21.33 \text{ kips}$$

LRFD:

$$\phi R_n = \phi F_{nv} A_b$$

$$\phi F_{nv} = 20.3 \text{ ksi (A307 bolts)}$$

$$\phi R_n = (20.3)(0.79)(2) = 32.07 \text{ kips}$$

Alternate solution, use Table 7-1