

$$A_n = 6.14 - 4(7/8 + 1/8)(5/16) = 4.89 \text{ in.}^2$$

From AISC Table D4.1, for 4 or more bolts per line,  $U = 0.80$

$$A_e = A_n U = 4.89(0.80) = 3.91 \text{ in.}^2 > 3.69 \text{ in.}^2 \quad (\text{OK})$$

Use 2L5 × 5 × 5/16

$$(b) \quad P_d = D + L = 30 + 90 = 120 \text{ kips}$$

$$\text{Required } A_g = \frac{P_d}{0.6F_y} = \frac{120}{0.6(50)} = 4.00 \text{ in.}^2$$

$$\text{Required } A_e = \frac{P_d}{0.5F_u} = \frac{120}{0.5(65)} = 3.69 \text{ in.}^2$$

$$\text{Required } r_{\min} = \frac{L}{300} = \frac{25 \times 12}{300} = 1.0 \text{ in.}$$

The angle leg must be at least 5 in. long to accommodate two lines of bolts (See workable gages for angles, *Manual* Table 1-7A).

Try 2L5 × 5 × 5/16

$$A_g = 6.14 \text{ in.}^2 > 4.00 \text{ in.}^2 \quad (\text{OK}) \quad r_{\min} = r_x = 1.56 \text{ in.} > 1.0 \text{ in.} \quad (\text{OK})$$

$$A_n = 6.14 - 4(7/8 + 1/8)(5/16) = 4.89 \text{ in.}^2$$

From AISC Table D4.1, for 4 or more bolts per line,  $U = 0.80$

$$A_e = A_n U = 4.89(0.80) = 3.91 \text{ in.}^2 > 3.69 \text{ in.}^2 \quad (\text{OK})$$

Use 2L5 × 5 × 5/16

### 3.6-4

(a) Load combination 2 controls:

$$P_u = 1.2D + 1.6L = 1.2(54) + 1.6(80) = 192.8 \text{ kips}$$

$$\text{Required } A_g = \frac{P_u}{0.90F_y} = \frac{192.8}{0.90(50)} = 4.28 \text{ in.}^2$$

$$\text{Required } A_e = \frac{P_u}{0.75F_u} = \frac{192.8}{0.75(65)} = 3.96 \text{ in.}^2$$

$$\text{Required } r_{\min} = \frac{L}{300} = \frac{17.5 \times 12}{300} = 0.7 \text{ in.}$$

Try C10 × 20;

$$A_g = 5.87 \text{ in.}^2 > 4.28 \text{ in.}^2 \quad (\text{OK})$$

$$r_{\min} = r_y = 0.690 \text{ in.} \approx 0.7 \text{ in.} \quad (\text{say OK})$$

# Beam 11 Edition Solution Manual

**Warren S. Wright**



## **Beam 11 Edition Solution Manual:**

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