Use an L5 × 3½ × ¾

(b) $P_a = D + L = 28 + 84 = 112$ kips

Required $A_g = \frac{P_a}{F_t} = \frac{P_a}{0.6F_y} = \frac{112}{0.6(36)} = 5.19$ in.^{2}

Required $A_e = \frac{P_a}{0.5F_u} = \frac{112}{0.5(58)} = 3.86$ in.^{2}

Required $r_{min} = \frac{L}{300} = \frac{18(12)}{300} = 0.72$ in.

Try L5 × 3½ ×¾

$A_g = 5.85$ in.$^2 > 5.19$ in.^{2} (OK)

$r_{min} = r_z = 0.744$ in. > 0.72 in. (OK)

$A_n = 5.85 - 0.75(1 + 3/16) = 4.959$ in.^{2}

$A_e = A_nU = 4.959(0.80) = 3.97$ in.$^2 > 3.86$ in.^{2} (OK)

Use an L5 × 3½ × ¾

3.6-2

(a) $P_u = 1.2D + 1.6L = 1.2(100) + 1.6(50) = 200.0$ kips

Required $A_g = \frac{P_u}{0.9F_y} = \frac{200}{0.9(36)} = 6.17$ in.^{2}

Required $A_e = \frac{P_u}{0.75F_u} = \frac{200}{0.75(58)} = 4.60$ in.^{2}

Required $r_{min} = \frac{L}{300} = \frac{20 \times 12}{300} = 0.8$ in.

Try C12 × 25

$A_g = 7.34$ in.$^2 > 6.17$ in.^{2} (OK)

$r_{min} = r_y = 0.779$ in. < 0.8 in. (N.G.)

(Although this value for the radius of gyration does not quite satisfy the AISC recommendation for maximum slenderness, tensile strength is not affected by slenderness, so some leeway is permitted. Therefore, we will consider this value acceptable.)

$A_n = 7.34 - 0.387(1 + 3/16)(2) = 6.421$ in.^{2}

$U = 1 - \frac{\bar{x}}{L} = 1 - \frac{0.674}{6} = 0.8877$

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Discrete Events Simulation 6th Edition Solution Manual

A. Alan B. Pritsker

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