

CHAPTER 3 - TENSION MEMBERS

3.2-1

For yielding of the gross section,

$$A_g = 7(3/8) = 2.625 \text{ in.}^2, \quad P_u = F_y A_g = 36(2.625) = 94.5 \text{ kips}$$

For rupture of the net section,

$$A_e = (3/8) \left(7 - \left(1 + \frac{3}{16} \right) \right) = 2.180 \text{ in.}^2$$

$$P_u = F_u A_e = 58(2.180) = 122.3 \text{ kips}$$

a) The design strength based on yielding is

$$\phi_t P_u = 0.90(94.5) = 85.05 \text{ kips}$$

The design strength based on rupture is

$$\phi_t P_u = 0.75(122.3) = 91.73 \text{ kips}$$

The design strength for LRFD is the smaller value:

$$\phi_t P_u = 85.1 \text{ kips}$$

b) The allowable strength based on yielding is

$$\frac{P_u}{\Omega_t} = \frac{94.5}{1.67} = 56.59 \text{ kips}$$

The allowable strength based on rupture is

$$\frac{P_u}{\Omega_t} = \frac{122.3}{2.00} = 61.15 \text{ kips}$$

The allowable service load is the smaller value:

$$P_u/\Omega_t = 56.6 \text{ kips}$$

Alternate solution using allowable stress: For yielding,

$$F_t = 0.6F_y = 0.6(36) = 21.6 \text{ ksi}$$

and the allowable load is $F_t A_g = 21.6(2.625) = 56.7 \text{ kips}$

For rupture,

$$F_t = 0.5F_u = 0.5(58) = 29.0 \text{ ksi}$$

and the allowable load is $F_t A_e = 29.0(2.180) = 63.22 \text{ kips}$

The allowable service load is the smaller value = 56.7 kips

Solutions Manual Plate Theory

Baldassare Di Bartolo



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