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Anchor Bolt capacity calcs. for Casey Civil

Assume ASTM F1554 Cd. 36 A.B. $F_{uv} = 36 \text{ ksi}$ $F_{ut} = 58 \text{ ksi}$

Shear Str. $r_v = A_b (F_{uv}) = 0.4418 (36) = 15.9 \text{ k/bolt}$

$R_v = 95.4 \text{ k}$ for 6 bolts

63.6 k for 4 bolts

Tensile Str. $r_t = 0.4418 (58) = 25.63 \text{ k/bolt}$

$R_t = 153.7 \text{ k}$ for 6 bolts

102.5 k for 4 bolts

Max. vert load per reactions = -30.6 k

Max. horiz. load per reactions = $\pm 15.8 \text{ k}$

OK

