



$$R2 = P * 18/16 = 1.125P$$

$$R1 = P + R2 = 2.125P$$

$$F(fg) = 1.414P \text{ (assuming 45 degrees)}$$

Strut fg is about 8" x 48" at point 'g'

$$\text{Axial stress in strut fg at point 'g'}$$

$$= 1.414P/(8*48)$$

For $P = 700k$, $f_c = 2.58 \text{ ksi}$

STRUT AND TIE MODEL