

$$f_k = \frac{\gamma_f \times \gamma_m \times N_k}{1,0 \times L_{par.1} \times e_{bloco} \times R}$$

Treinamento Alvenaria Estrutural
 Prof. Rangel Lage
 www.rangellage.com.br

$$R = \left[1 - \left(\frac{h_{ef}}{40 \times t_{ef}} \right)^3 \right] \quad h_{ef} := 3 \text{ m} \quad t_{ef} := 0,14 \text{ m}$$

$$R := 1 - \left(\frac{h_{ef}}{40 \cdot t_{ef}} \right)^3 = 0,8463$$

$$\gamma_f := 1,4 \quad \gamma_m := 2 \quad L := 2,8 \text{ m} \quad e := 0,14 \text{ m}$$

N_k

$$g_k := 60 \frac{\text{kN}}{\text{m}} \quad q_k := 30 \frac{\text{kN}}{\text{m}} \quad \gamma_{par} := 15 \frac{\text{kN}}{\text{m}} \quad e_{acab} := 0,15 \text{ m}$$

$$PP_{par} := \gamma_{par} \cdot e_{acab} \cdot h_{ef} = 6,75 \text{ m} \frac{\text{kN}}{\text{m}}$$

$$N_k := (g_k + q_k + PP_{par}) \cdot L = 270,9 \text{ kN}$$

$$f_k := \frac{\gamma_f \cdot \gamma_m \cdot N_k}{1 \cdot L \cdot e \cdot R} = 2,2865 \text{ MPa}$$

$$f_{pk} := \frac{f_k}{0,7} = 3,2665 \text{ MPa}$$

$$f_{bk} := \frac{f_{pk}}{0,8} = 4,0831 \text{ MPa} \quad \text{Com argamassa em todas as faces}$$

$$f_{bk} := \frac{f_{pk}}{0,8} = 5,1039 \text{ MPa} \quad \text{Com argamassa apenas nos cordões laterais}$$