

Tressfysikk – Løsning oppgave 6.314

$$m = 75 \text{ kg}$$

$$A = 3,0 \cdot 10^{-2} \cdot 1,0 \cdot 10^{-3} [\text{m}^2] = 30,0 \cdot 10^{-6} [\text{m}^2]$$

$$p = \frac{m \cdot g}{A} = \frac{75 \cdot 9,81 \left[\frac{\text{kg} \cdot \text{m}}{\text{s}^2} \right]}{30,0 \cdot 10^{-6} [\text{m}^2]} = 245 \cdot 10^5 \left[\frac{\text{N}}{\text{m}^2} \right] = 25 [\text{MPa}]$$