

$$k_t := \text{interp} \left( y_S, x, y, \frac{d_t}{A_1} \right) = 2.647$$

$$s_1 := 40 \text{ mm}$$

$$s_2 := 30 \text{ mm}$$

$$S_1 := s_1 \cdot (A_1 - d_t) = 4600 \text{ mm}^2$$

$$S_2 := s_2 \cdot (A_1 - d_t) = 3450 \text{ mm}^2$$

$$\sigma := \frac{G_u + G_i + G_g}{2 \cdot (S_1 + S_2)} = 3.441 \frac{\text{kgf}}{\text{mm}^2}$$

$$\sigma_{max} := k_t \cdot \sigma = 9.109 \frac{\text{kgf}}{\text{mm}^2}$$