

Berekening dakligger:

L_{system} = 1.5 m afm. 50 x 150

G_{rep}
eg dak (0.3 + 1.0) m x 0.56 kN/m² = 0.73 kN/m

Q_{rep}
nb dak (0.3 + 1.0) m x 0.61 kN/m² = 0.79 kN/m

berekening:
q_d 1.2 x 0.73 + 1.5 x 0.79 = 2.06 kN/m

$$\sigma = \frac{1/8 \times 2.06 \times 1.5^2 \times 10^6}{1/6 \times 50 \times 150^2} = 3.09 \text{ N/mm}^2 \leq \frac{17.0 \times 0.85}{1.2} = 12.04 \text{ N/mm}^2$$

$$\delta = \frac{5}{384} \times \frac{(2 \times 0.73 + 0.79) \times 1500^4}{10000 \times 1/12 \times 50 \times 150^2} = 1.05 \text{ mm} \leq 0.003 \times 1500 = 4.5 \text{ mm}$$

Berekening spant achtergevel:

schema:

