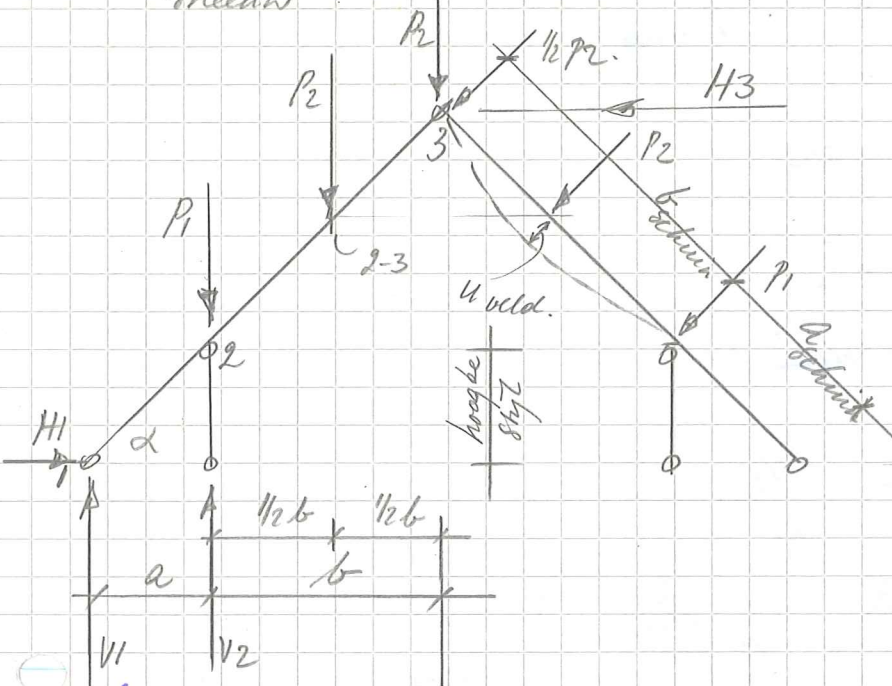


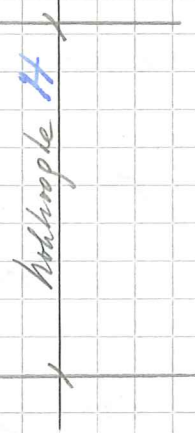
H ZADELDAK MET KNIE SCHOT FLAST EL

uigengewicht
Sneeuw

wind.



te dragen dakvlak A m'



formules belastingen uigengewicht en sneeuw

$$P_1 = \frac{a + \frac{1}{2}b}{2} \cdot \text{Gewert} \cdot A; \quad P_2 = \frac{b}{2} \cdot \text{Gewert} \cdot A$$

$$M_2 = \frac{3}{16} \cdot P_2 \cdot \frac{b^2}{(a+b)} \quad M_{2,3} = \frac{1}{4} \cdot P_2 \cdot b - \frac{M_2}{2}$$

$$V_2 = P_1 + \frac{1}{2}P_2 + \frac{M_2}{a} + \frac{M_2}{b}; \quad V_1 = \frac{1}{2}P_2 + P_1 - V_2$$

$$H_1 = (-P_1 \cdot b - P_2 \cdot \frac{1}{2}b + V_1 \cdot (a+b) + V_2 \cdot b) : H$$

$$N'_{2,3} = H_1 \cos \alpha + \frac{1}{2} \cdot P_2 \cdot \sin \alpha \quad N'_2 = N'_{2,3} \quad H_3 = H_1$$

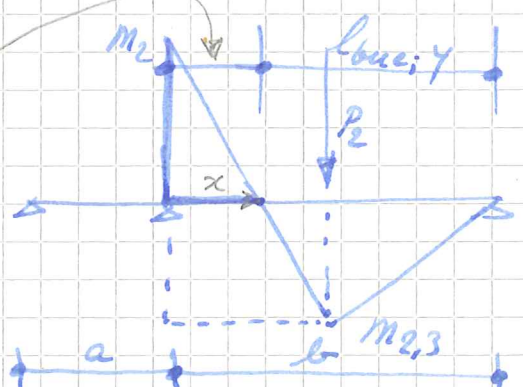
$$V_3 = \frac{1}{2} \cdot P_2 + \frac{1}{2} \cdot P_2 - \frac{M_2}{b}$$

$$u_{veld} = \frac{P_2 \cdot \cos \alpha \cdot b_{schuin}^3}{48 EJ} - \frac{M_2 \cdot b_{schuin}^2}{16 EJ}$$

$$= \left(\frac{P_2 \cdot \cos \alpha \cdot b_{schuin}}{48} - \frac{M_2}{16} \right) \cdot \frac{b_{schuin}^2 \cdot 10^8}{EJ}$$

$$l_{knieschot} = b - \frac{b \cdot M_2}{2(M_2 + M_{2,3})}$$

$$\frac{M_2}{x} = \frac{M_2 + M_{2,3}}{\frac{1}{2} \cdot b}$$



1/2

formules voor belastingsval wind.

$$P_1 = \frac{A_{\text{schuin}} + \frac{1}{2} b_{\text{schuin}}}{2} \cdot q_{\text{wind}}$$

$$P_2 = \frac{1}{2} \cdot b_{\text{schuin}} \cdot q_{\text{wind}}$$

$$M_2 = \frac{3}{16} \cdot P_2 \cdot \frac{b_{\text{schuin}}^2}{(A_{\text{schuin}} + b_{\text{schuin}})}$$

$$M_{2,3} = \frac{1}{4} \cdot P_2 \cdot b_{\text{schuin}} - \frac{M_2}{2}$$

$$V_2 = \left(P_1 + \frac{1}{2} P_2 + \frac{M_2}{A_{\text{schuin}}} + \frac{M_2}{b_{\text{schuin}}} \right) / \cos \alpha$$

$$V_1 = \underbrace{(P_1 + \frac{1}{2} P_2)}_{EV} \cdot \cos \alpha - V_2$$

$$H_3 = \frac{(P_1 \cdot A_{\text{schuin}} + P_2 \cdot (A_{\text{schuin}} + \frac{1}{2} b_{\text{schuin}})) + \frac{1}{2} P_2 \cdot (A_{\text{schuin}} + b_{\text{schuin}}) - V_2 \cdot a}{H}$$

$$N'_{2,3} = H_3 \cdot \cos \alpha \quad N'_2 = H_3 \cdot \cos \alpha$$

$$H_1 = H_3 - (P_1 + \frac{1}{2} P_2) \cdot \sin \alpha$$

$$V_3 = P_2 - \frac{M_2}{b_{\text{schuin}}}$$

$$U_{\text{veloc}} = \left(\frac{P_2 \cdot b_{\text{schuin}}}{48} - \frac{M_2}{16} \right) \cdot \frac{b_{\text{schuin}}^2 \cdot 10^8}{EJ}$$