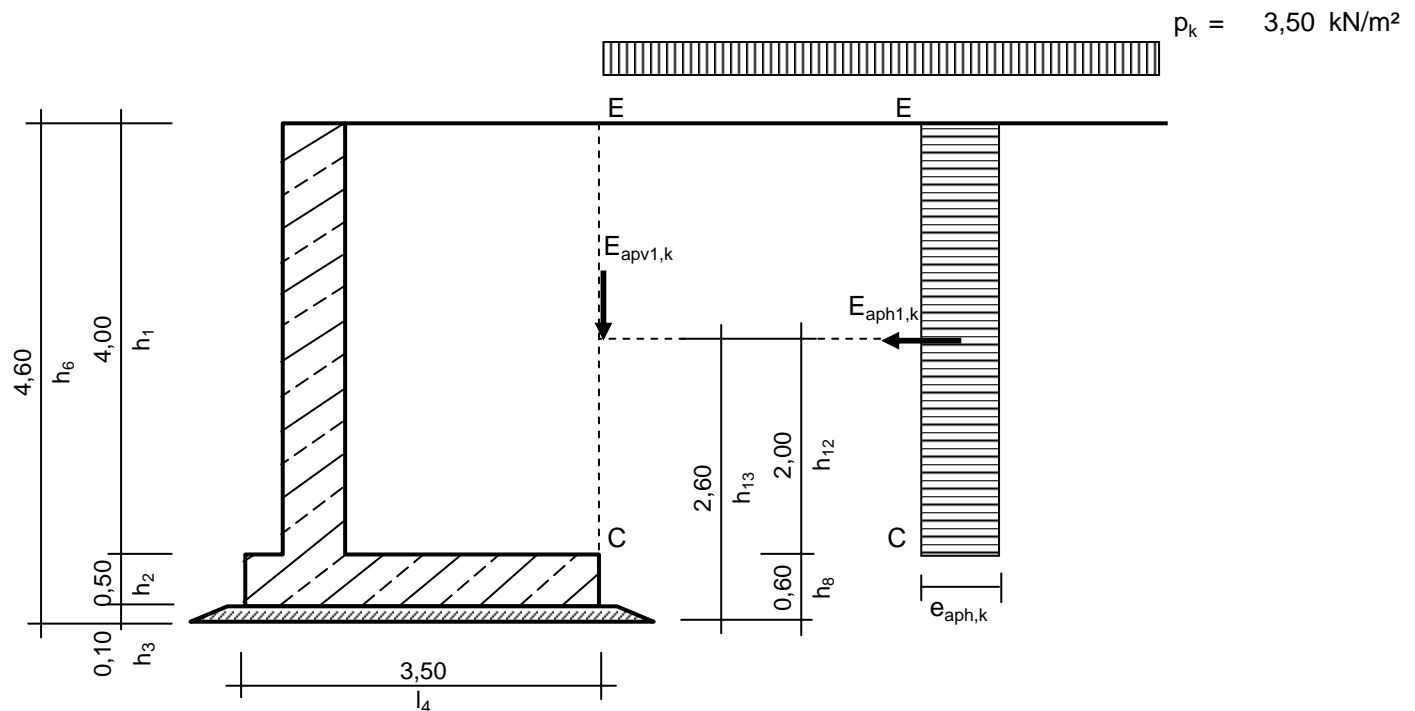


- LF 2b : Aktiver Erddruck auf den Schenkel aus großflächiger Auflast
 Laststellung 3, p_k ab Punkt "E"

(ständig, für: $\alpha = 0$, $\delta_a = \beta$)



$$\begin{aligned}
 h_8 &= h_2 + h_3 &= 0,50 + 0,10 &= 0,60 \text{ m} \\
 h_{12} &= 1/2 * h_1 &= 1/2 * 4,00 &= 2,00 \text{ m} \\
 h_{13} &= h_{12} + h_8 &= 2,00 + 0,60 &= 2,60 \text{ m}
 \end{aligned}$$

$$\begin{aligned}
 k_{agh} &= \left[\frac{\cos(\varphi_1' - \alpha)}{\cos \alpha * \left[1 + \sqrt{\frac{\sin(\varphi_1' + \delta_a) * \sin(\varphi_1' - \beta)}{\cos(\alpha - \beta) * \cos(\alpha + \delta_a)}} \right]} \right]^2 \\
 k_{agh} &= \left[\frac{\cos(30,00 - 0,00)}{\cos 0,00 * \left[1 + \sqrt{\frac{\sin(30,00 + 0,00) * \sin(30,00 - 0,00)}{\cos(0,00 - 0,00) * \cos(0,00 + 0,00)}} \right]} \right]^2 \\
 k_{agh} &= \left[\frac{0,866}{1,00 * \left[1 + \sqrt{\frac{0,500 * 0,500}{1,000 * 1,000}} \right]} \right]^2 &= 0,333 -
 \end{aligned}$$

$$k_{aph} = \frac{\cos \alpha * \cos \beta}{\cos(\alpha - \beta)} * k_{agh} = \frac{\cos 0,00 * \cos 0,00}{\cos(0,00 - 0,00)} * 0,333 = 0,333 -$$

$$e_{aph,k} = p_k * k_{aph} = 3,50 * 0,333 = 1,17 \text{ kN/m}^2$$

$$E_{aph1,k} = e_{aph,k} * h_1 = 1,17 * 4,00 = 4,67 \text{ kN/m}$$

$$E_{apv1,k} = E_{aph1,k} * \tan(\alpha + \beta) = 4,67 * \tan(0,00 + 0,00) = 0,00 \text{ kN/m}$$