

ANDAMENTO DELLE TENSIONI VERTICALI TOTALI, EFFICACI E DELLE PRESSIONI NEUTRE

Stratigrafia:

Da 0.00 a 3.00: $\gamma_1 = 14.7 \text{ [kN/m}^2\text{]}$ $h_1 = 3.00$

Da 3.00 falda freatica: $\gamma_w = 9.81 \text{ [kN/m}^2\text{]}$

Da 3.00 a 8.00: $\gamma_2 = 18.6 \text{ [kN/m}^2\text{]}$ $h_2 = 5.00$

Da 8.00 a 16.00: $\gamma_3 = 19.2 \text{ [kN/m}^2\text{]}$ $h_3 = 8.00$

Tensioni:

Tensioni verticali totali	Pressioni neutre	Tensioni verticali efficaci
$\sigma_{1,v0} = \gamma_1 \cdot h_1 = 44.1$	$u_{1,0} = 0$	$\sigma'_{1,v0} = \sigma_{1,v0} - u_{1,0} = 44.1$
$\sigma_{2,v0} = \gamma_1 \cdot h_1 + \gamma_2 \cdot h_2 = 137.1$	$u_{2,0} = \gamma_w \cdot h_2 = 49.05$	$\sigma'_{2,v0} = \sigma_{2,v0} - u_{2,0} = 88.05$
$\sigma_{3,v0} = \gamma_1 \cdot h_1 + \gamma_2 \cdot h_2 + \gamma_3 \cdot h_3 = 290.7$	$u_{3,0} = \gamma_w \cdot (h_2 + h_3) = 127.53$	$\sigma'_{3,v0} = \sigma_{3,v0} - u_{3,0} = 163.17$