

Neutral Temperature Layer @model

(1)
$$H_N = \sqrt{\frac{a_e A_T}{\pi}} \ln \frac{\delta T_A}{\delta T_{\text{cut}}}$$

where

H_N	true vertical depth of the Neutral Temperature Layer with reference to the Earth's surface
a_e	Local average Thermal diffusivity of the soil between Earth's surface and NTL
A_T	Period of annual temperature variation cycle: $A_T = 1$ year
δT_A	Annual average Earth's surface temperature variation in a given location based on weather reports
δT_{cut}	Temperature measurement threshold (usually $\delta T_{\text{cut}} = 0.01$ °C)

See Also

[Geology / Geothermal Temperature Field / Neutral Temperature Layer](#)

[[Geothermal Temperature Field](#)] [[Geothermal Temperature Profile](#)]

[[Geothermal Temperature Profile @model](#)]