

List of Symbols

C_u	Coefficient of uniformity
D_r	Relative density
D_{10}	Diameter of Ottawa Sand whose Percent finer is 10%
D_{60}	Diameter of Ottawa Sand whose Percent finer is 60%
e_{max}	Maximum void ratio of soil
e_{min}	Minimum void ratio of soil
E	Young's modulus
G_s	Specific gravity of soil
h	Location of total thrust
H	Thickness of backfill
$K_{o,h}$	Coefficient of earth pressure at-rest
$K_{o,h,Jaky}$	Coefficient of earth pressure at-rest in Jaky's theory
$K_{o,h,loose}$	Coefficient of earth pressure at-rest in loose sand
$K_{o,h,square}$	Coefficient of earth pressure in compacted sand by square compactor
$K_{o,h,strip}$	Coefficient of earth pressure in compacted sand by strip compactor
$K_{o,h,\alpha}$	Coefficient of earth pressure at angle of inclination rock face
α	Angle of inclination rock face
σ_1	Major principal stress
σ_3	Minor principal stress
σ_{cyc}	Compaction loading
σ_h	Effective horizontal stress
$\Delta\sigma_{h,ci}$	Peak compaction-influenced horizontal pressure
σ_n	Normal stress
σ_v	Effective vertical stress
γ	Unit weight of soil
ϕ	Angle of internal friction of soil
δ_i	Angle of interface Friction

δ_{sw} Angle of sidewall Friction

δ_w Angle of wall Friction

