

AASHTO 2007-2010 (LRFD) Input Data

INTERNAL STABILITY

Load factor for vertical earth pressure, EV, from Table 3.4.1-2:	γ_{p-EV}	1.35	
Load factor for earthquake loads, EQ, from Table 3.4.1-1:	γ_{p-EQ}	1.00	
Load factor for live load surchrge, LS, from Figure C11.5.5-3(b): (Same as in External Stability).	γ_{p-LS}	1.75	
Load factor for dead load surchrge, ES: (Same as in External Stability).	γ_{p-ES}	1.50	
Resistance factor for reinforcement tension from Table 11.5.6-1: Geogrid:	ϕ	Static 0.90	Combined static/seismic 1.20
Resistance factor for reinforcement tension in connectors from Table 11.5.6-1: Geogrid:	ϕ	Static 0.90	Combined static/seismic 1.20
Resistance factor for reinforcement pullout from Table 11.5.6-1:	ϕ	0.90	1.20

EXTERNAL STABILITY

Load factor for vertical earth pressure, EV, from Table 3.4.1-2 and Figure C11.5.5-2: Sliding and Eccentricity	γ_{p-EV}	Static 1.00	Combined Static/Seismic γ_{p-EQ} 1.00
Bearing Capacity	γ_{p-EV}	1.35	γ_{p-EQ} 1.35
Load factor of active lateral earth pressure, EH, from Table 3.4.1-2 and Figure C11.5.5-2:	γ_{p-EH}	1.50	
Load factor of active lateral earth pressure during earthquake (does not multiply P_{AE} and P_{IR}):	$(\gamma_{p-EH})_{EQ}$	1.50	
Load factor for earthquake loads, EQ, from Table 3.4.1-1 (multiplies P_{AE} and P_{IR}):	γ_{p-EQ}	1.00	
Resistance factor for shear resistance along common interfaces from Table 11.5.6-1: Reinforced Soil and Foundation	ϕ_{τ}	Static 1.00	Combined Static/Seismic 1.00
Reinforced Soil and Reinforcement	ϕ_{τ}	1.00	1.00
Resistance factor for bearing capacity of shallow foundation from Table 11.5.6-1:	ϕ_b	Static 0.65	Combined Static/Seismic 0.65