

DESIGN ASSUMPTIONS

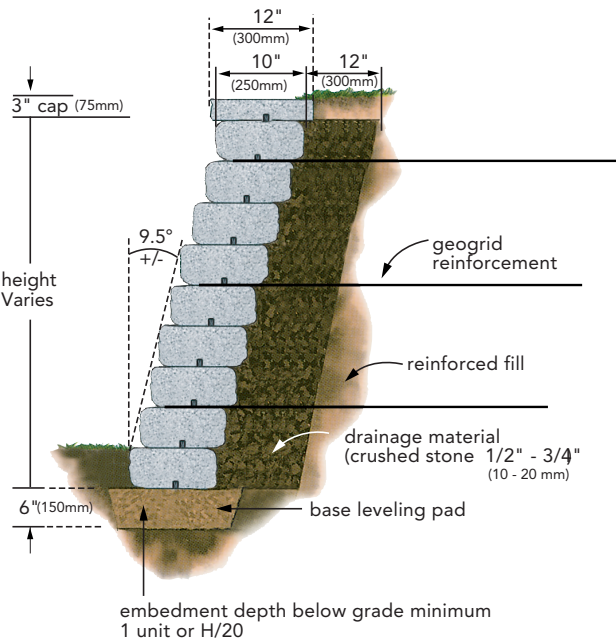
- Friction angle (PHI) for earth pressure calculations of geogrid reinforced walls is evaluated at 26°, 30° and 34° only. For other soil type analysis, refer to Keywall Software program or consult with a qualified engineer.
- Moist weight of three soil types indicated is 120 lb./ft.3 (19kN/m2).
- Sliding calculations use 6" (150mm) crushed stone leveling pad as compacted foundation material.
- All backfill materials are compacted to 95% Standard Proctor density.
- The term "vertical" is a wall built to a near vertical alignment having a slight positive setback (1° +).
- The information provided herein is for preliminary design use only. A qualified engineer should be consulted for design and analysis of structures. Keystone Retaining Wall Systems, Inc. assumes no liability for the improper use of this information.

DESIGN NOTES

For low (non-structural) landscape retaining walls, Country Manor can be constructed as a non-reinforced gravity wall as shown in the chart below. This chart is for retaining walls in the "near vertical" option. Note: use pins and construction adhesive at low border/parapet walls.

GRAVITY WALLS (maximum unreinforced wall height)				
maximum height	near vertical		9.5° +/- batter	
	level	3h:1v	level	3h:1v
sand / gravel phi= 34°	2'-0" (0.6m)	1'-6" (0.45m)	3'-0" (0.9m)	2'-6" (0.75m)
silt y sand phi = 30°	1'-6" (0.45m)	1'-6" (0.45m)	2'-6" (0.75m)	2'-0" (0.6m)
silt / lean clay phi = 26°	1'-6" (0.45m)	1'-0" (0.3m)	2'-0" (0.6m)	1'-6" (0.45m)

Reinforced Wall
SetbackDetail 9.5°±Batter



Gravity Wall
Setback Detail 9.5°± Batter

