



NOTES:

- Wall Height (H) is the total height from top to bottom.
- Minimum wall embedment is 6" (150mm) or Height/20.
- Subsurface soils must be capable of supporting wall system.
- Unit core fill is 3/4" (20mm) clean crushed stone.
- Leveling pad is crushed stone base material.
- All backfill materials are compacted to 95% max. density.
- Finished grade must provide positive drainage.
- The symbol 5.0° indicates location and length of geogrid as measured from the connection pins to the end of the geogrid.

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► GRAVITY WALL TABLES

DESIGN CHARTS



NEAR VERTICAL WALL (Minimum setback per unit)

STANDARD UNITS

MAX. HGT.	BACKSLOPE			
Soil Type	Level	4H:1V	3H:1V	2H:1V
Sand/Gravel	5.2′	4.7′	4.6′	4.1′
	(1.6m)	(1.5m)	(1.4m)	(1.2m)
Silty Sand	4.7′	4.3'	4.1′	3.6′
	(1.4m)	(1.3m)	(1.2m)	(1.1m)
Silt/Lean Clay	4.4′	3.9′	3.7′	2.9′
	(1.3m)	(1.2m)	(1.1m)	(0.9m)

► COMPAC UNITS

MAX. HGT.	BACKSLOPE			
Soil Type	Level	4H:1V	3H:1V	2H:1V
Sand/Gravel	2.9′	2.6′	2.5′	2.3′
	(0.9m)	(0.8m)	(0.8m)	(0.7m)
Silty Sand	2.6′	2.4′	2.3′	2.0′
	(0.8m)	(0.7m)	(0.7m)	(0.6m)
Silt/Lean Clay	2.4′	2.1′	2.0′	1.7′
	(0.7m)	(0.6m)	(0.6m)	(0.5m)



ONE INCH SETBACK WALL (1" min. setback per unit) (25mm)

STANDARD UNITS

MAX. HGT.	BACKSLOPE			
Soil Type	Level	4H:1V	3H:1V	2H:1V
Sand/Gravel	6.8′	6.2′	5.9′	5.3′
	(2.1m)	(1.9m)	(1.8m)	(1.6m)
Silty Sand	6.1′	5.5′	5.2′	4.4′
	(1.9m)	(1.7m)	(1.6m)	(1.3m)
Silt/Lean Clay	5.3′	4.5′	4.1′	3.2′
	(1.6m)	(1.4m)	(1.2m)	(1.0m)

COMPAC UNITS

MAX. HGT.	BACKSLOPE			
Soil Type	Level	4H:1V	3H:1V	2H:1V
Sand/Gravel	3.8′	3.4'	3.3'	2.9′
	(1.2m)	(1.0m)	(1.0m)	(0.9m)
Silty Sand	3.4′	3.0′	2.9′	2.4'
	(1.0m)	(0.9m)	(0.9m)	(0.7m)
Silt/Lean Clay	3.0′	2.7′	2.5′	2.1′
	(0.9m)	(0.8m)	(0.8m)	(0.6m)

Notes: Calculations assume a unit weight of 120 lbs/cf (19kN/sqm) for all soil types. Assumed f angles for earth pressure calculations are: Sand/Gravel=34°, Silty Sand=30°, and Sandy Silt/Lean Clay=26°. Non critical structures with SF>1.5. No surcharge loadings are included. Surcharges or special loading conditions will reduce maximum wall heights. Sliding calculations assume a 6" (150mm) crushed stone levelling pad as compacted foundation material. The information provided is for preliminary design use only. A qualified professional should be consulted. Keystone accepts no liability for the improper use of these tables.

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DESIGN CHARTS



► GRAVITY WALL TABLES



(Minimum setback per unit)

MINI UNITS

MAX. HGT.	BACKSLOPE			
Soil Type	Level	4H:1V	3H:1V	2H:1V
Sand/Gravel	2.7′	2.5′	2.4′	2.1′
	(0.8m)	(0.7m)	(0.7m)	(0.6m)
Silty Sand	2.5′	2.2′	2.1'	1.8′
	(0.8m)	(0.7m)	(0.6m)	(0.5m)
Silt/Lean Clay	2.3'	2.0′	1.9′	1.6′
	(0.7m)	(0.6m)	(0.6m)	(0.5m)

MINI UNITS

MAX. HGT.	BACKSLOPE			
Soil Type	Level	4H:1V	3H:1V	2H:1V
Sand/Gravel	4.0′	3.9′	3.8′	3.6′
	(1.5m)	(1.3m)	(1.2m)	(1.1m)
Silty Sand	3.5′	3.4′	3.3'	2.9′
	(1.2m)	(1.1m)	(1.0m)	(0.9m)
Silt/Lean Clay	3.0'	2.9′	2.8′	2.2′
	(1.1m)	(0.9m)	(0.8m)	(0.7m)

(1" min. setback per unit) (25mm)

▶ INTERMEDIATE UNITS

MAX. HGT.	BACKSLOPE			
Soil Type	Level	4H:1V	3H:1V	2H:1V
Sand/Gravel	3.4′	3.1′	2.9′	2.6′
	(1.0m)	(0.9m)	(0.9m)	(0.8m)
Silty Sand	3.0′	2.7′	2.5′	2.2′
	(0.9m)	(0.8m)	(0.8m)	(0.7m)
Silt/Lean Clay	2.7′	2.4′	2.2′	1.9′
	(0.8m)	(0.7m)	(0.6m)	(0.5m)

Notes: Calculations assume a unit weight of 120 lbs/cf (19kN/sqm) for all soil types. Assumed f angles for earth pressure calculations are: Sand/Gravel=34°, Silty Sand=30°, and Sandy Silt/Lean Clay=26°. Non critical structures with SF>1.5. No surcharge loadings are included. Surcharges or special loading conditions will reduce maximum wall heights. Sliding calculations assume a 6" (150mm) crushed stone levelling pad as compacted foundation material. The information provided is for preliminary design use only. A qualified professional should be consulted. Keystone accepts no liability for the improper use of these tables.

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