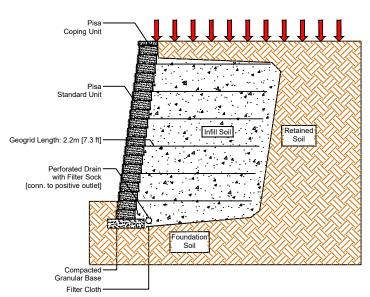


RETAINING WALL GEOGRID SECTION

2970mm (9.74ft) Site: Surcharge - Clays Infill: Granular



Design Specific Geometric Information

Retaining Wall System Pisa w/ Geogrid Pisa w/ Geogrid Geogrid Type and Manufacturer Maximum Height 2970 (11fb) Geogrid Type and Manufacturer Geogrid LTDS See Notes	ooigii opooi	no ocometre information		
Maximum Height 2970 (116) Geogrid LTDS See Notes		Pisa w/ Geogrid		See Notes
mm (in) kN/m (lb/ft)	Maximum Height mm (in)	2970 (116)		See Notes
Maximum Slope Above Wall Horizontal Maximum Slope Below Wall None		Horizontal		None
Max. Surcharge Above Wall Traffic Surcharge Depth of Embedment Inm (in) 295 (12)	Above Wall		Embedment	295 (12)
Batter of Wall 7.12 Compacted Base Dimension mm (in) 610 x 153 (24 x 6)		7.12	Base Dimension	610 x 153 (24 x 6)

Design Specific Soil Information

	Soil Region						
	Infill	Retained	Foundation	Base	Drainage		
Description (by USCS)	GW Well graded, free draining Granular	CL Inorganic Clays Low Plasticity	CL Inorganic Clays Low Plasticity	GW Well graded, free draining Granular	see infill		
Effective Internal Friction Angle	35°	28 °	28 °	39°	NR		
Moist Unit Weight kN/cu.m (lb/cu.ft)	22 (140)	20 (127)	20 (127)	22 (140)	NR		
Effective Cohesion kPa (lb/sq.ft)	NR	NR	NR	NR	NR		
Soil Notes	Placed in 150mm (6") lifts and compacted to 95 % SPD.	Undisturbed dense soil or well compacted Eng. fill.	Allowable bearing cap.must exceed 100kPa (2100 psf)	Crushed Gravel (free draining) compacted to 98 % SPD.	Gravel infill must be well graded, angular, free drair w/max. 8% fines		

NR - Not Required

Notes:

- 1. This design meets or exceeds the minimum factors of safety required by Risi Stone Systems based on the design parameters listed above. The analysis was performed as outlined in the National Concrete Masonry Association Design Manual for Segmental Retaining Walls, Third Edition. This is a typical, non site-specific Design.
- 2. No analysis of global stability, total or differential settlement, or seismic effects has been performed.
- 3. This design is only provided to illustrate the general arrangement of the SRW structure for preliminary costing and feasibility purposes only. This drawing is not for construction. A qualified Engineer must be retained to provide the Final Design prior to construction.
- 4. Structures such as handrails, guardrails, fences, terraces, and site conditions such as water applications, drainage and soil conditions, additional live and dead loads, etc., have significant effects on the wall design and have not been taken into account in this typical section. When accounted for in the Final Design, other conditions and elements may result in additional design measures (geogrid, drainage, etc) and cost.
- 5. For geogrid reinforced structures, a minimum Long Term Allowable Design Strength of 14 kN/m was assumed.

Contact your manufacturer or Risi Stone Systems for a list of approved geogrid reinforcements.



Engineering design by RisiStone Inc.

