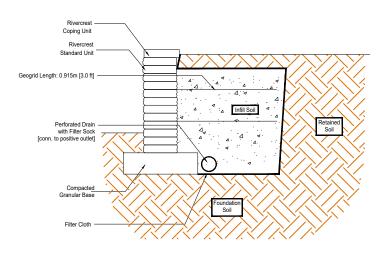
RIVERCREST[®]

RETAINING WALL GEOGRID SECTION

740mm (2.4ft) Site: Horizontal - Clays Infill: Granular



Design Specific Geometric Information

Retaining Wall System	Rivercrest w/ Geogrid	Geogrid Type	See Notes	
Maximum Height mm (in)	740 (29)	Minimum Geogrid LTDS kN/m (lb/ft)	See Notes	
Maximum Slope Above Wall	Horizontal	Maximum Slope Below Wall	None	
Max. Surcharge Above Wall kPa (lb/sq.ft)	None	Depth of Embedment mm (in) 153 (6)		
Batter of Wall	vertical	Compacted Base Dimension mm (in)	550 x 153 (22 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	13 (270)	NR	NR		
Soil Notes	to 95% SPD.	dense soil or	The allowable bearing capacity must exceed 50kPa (1050lb/sq.ft).	non frost susceptible granular soil comp-	Granular infill must be well graded, free draining w/ max 5-8% fines		

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.

