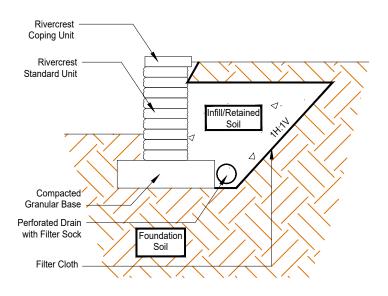
RIVERCREST®

RETAINING WALL GRAVITY SECTION

570mm (1.87ft) Site: Horizontal - Clays Infill: Granular



Retaining Wall System	Rivercrest	Geogrid Type and Manufacturer	N/A	
Maximum Height mm (in)	570(22)	Minimum Geogrid LTDS kN/m (lb/ft)	N/A	
Maximum Slope Above Wall	Horizontal	Maximum Slope Below Wall	e 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 / R	etained	Foundation	Base	Drainage		
Description (by USCS)	GP 3 /4" Angular Clearstone		CL Inorganic Clays Low Plasticity	GW Well graded, free draining Granular	see infill		
Effective Internal Friction Angle	36°		28°	39°	NR		
Moist Unit Weight kN/cu.m (Ib/cu.ft)	18 (115)		20 (127)	22 (140)	NR		
Effective Cohesion kPa (lb/sq.ft)	NR		13 (270)	NR	NR		
Soil Notes	Placed in 150mm (6in) lifts and compacted to 95% SPD.	Granular Fill placed at 1H:1V wedge	capacity must exceed 50kPa (1050lb/sg.ft).		Granular infill must be well graded, free draining w/ max 5-8% 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.

