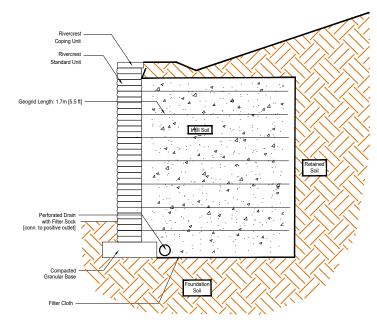
RIVERCREST[®]

RETAINING WALL GEOGRID SECTION

1767mm (5.80ft) Site: Slope - Clays Infill: Granular



| Design | Specific | Geometric | Information |
|--------|----------|-----------|-------------|
| | | | |

| Retaining Wall System | Rivercrest w/ Geogrid | Geogrid Type | See Notes | |
|--|-----------------------|---|--------------------|--|
| Maximum Height mm (in) | 1767 (70) | Minimum Geogrid LTDS kN/m (lb/ft) | See Notes | |
| Maximum Slope Above Wall | 3H:1V | Maximum Slope Below Wall | None | |
| Max. Surcharge Above Wall kPa (lb/sq.ft) | None | Depth of Embedment mm (in) | 177 (7) | |
| 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 | | | |
| GW Well graded, free draining Granular | CL Inorganic Clays Low Plasticity | CL Inorganic Clays Low Plasticity | GW Well graded, free draining Granular | see infill | | | |
| 35° | 28° | 28° | 39° | NR | | | |
| 22 (140) | 20 (127) | 20 (127) | 22 (140) | NR | | | |
| NR | NR | 13 (270) | NR | NR | | | |
| lifts and compacted to 95% SPD. | dense soil or well compacted | capacity must exceeď 50kPa (1050lb/sq.ft). | non frost susceptible granular soil comp- | Granular infill must be well graded, free draining w/ max 5-8% fines | | | |
| | GW Well graded, free draining Granular 35° 22 (140) NR Placed in 150mm (6in) ifts and compacted to 95% SPD. | GW CL Well graded, free draining Granular Inorganic Ciays 35° 28° 22 (140) 20 (127) NR NR Placed in 150mm (6in) Must be undisturbed dense soil or | GW CL CL Well graded, free draining Granuar Inorganic Clays Low Plastity Inorganic Clays Low Plastity 35° 28° 28° 22 (140) 20 (127) 20 (127) NR NR 13 (270) Placed in 150mm (6in Must be undisturbed well compacted dense soil or well compacted The allowable bearing GoKa (1050bis, ft). | GW CL GW Well graded, free draining Granular Inorganic Clays Low Plastoty Inorganic Clays Low Plastoty Well graded, free draining Granular 35° 28° 28° 39° 22 (140) 20 (127) 20 (127) 22 (140) NR NR 13 (270) NR Placed in 150mm (fin Must be undisturbed tfits and compacted dense soil or well compacted The allowable bearing Well graded, crushed, Gapacity must exceptible 60K-P (1050b/sqf), granular soil comp- | | | |

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.

