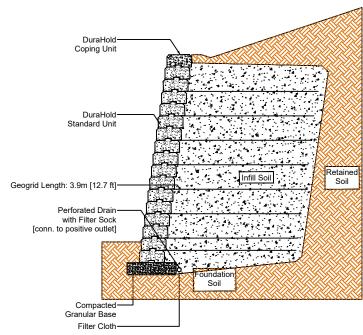
## DURA HOLD $^{\textcircled{R}}$

RETAINING WALL GEOGRID SECTION

## 5180mm (16.98ft) Site: 3H:1V Slope - Clays Infill: Granular



Design Specific Geometric Information	ation

	-		
Retaining Wall System	DuraHold w/ Geogrid	Geogrid Type and Manufacturer See Notes	
Maximum Height mm (in)	5180 (203)	Minimum Geogrid LTDS kN/m (lb/ft)	See Notes
Maximum Slope Above Wall	1V:3H	Maximum Slope Below Wall	None
Max. Surcharge Above Wall kPa (lb/sq.ft)	None	Depth of Embedment mm (in)	516 (20)
Batter of Wall	7.12 •	Compacted Base Dimension mm (in)	1228 x 305 (48 x 12)

**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 <sup>°</sup>	39 <sup>°</sup>	NR	
22 (140)	20 (127)	20 (127)	22 (140)	NR	
NR	NR	NR	NR	NR	
Placed in 150mm (6") lifts and compacted to 95% SPD.	Undisturbed dense soil or well compacted Eng. fill.	Allowable bearing cap.must exceed 150kPa (3125 psf).	Crushed Gravel (free draining) compacted to 98% SPD.	Gravel infill must be well graded, angular, free drain w/max. 8% fines	
	GW Well graded, free draining Granular 35° 22 (140) NR Placed in 150mm (6°) lifts and compacted to 95%	GW CL   GW CL   Well graded, free draining Granular Inorganic Clays   35° 28°   22 (140) 20 (127)   NR NR   Placed in 150mm (6°) iffs and compacted to 95% Undisturbed dense soil or compacted to 95%	Infill Retained Foundation   GW CL CL   Well graded, free Inorganic Clays Inorganic Clays   Jaso 28° 28°   22 (140) 20 (127) 20 (127)   NR NR NR   Placed in 150mm (6°) iffs and compacted to 95% Undisturbed dense soil or well compacted to 95% Allowable bearing cap.must exceed	Infill Retained Foundation Base   GW CL CL GW   Well graded, free draining Granular Inorganic Clays Inorganic Clays Well graded, free draining Granular   35° 28° 28° 39°   22 (140) 20 (127) 20 (127) 22 (140)   NR NR NR NR   Placed in 150mm (6°) iffs and compacted to 95% Undisturbed well compacted Allowable bearing Ca125 psb), compacted to 98%	

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.



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