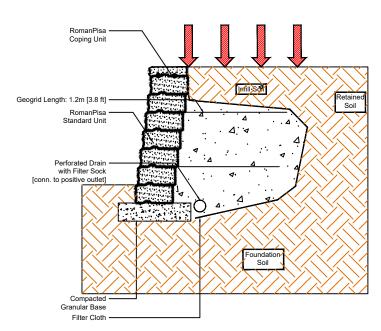
ROMAN PISA®

RETAINING WALL GEOGRID SECTION

1140mm (3.74ft) Site: Surcharge - Clays Infill: Granular



Design	Specific	Geometric	Information

Retaining Wall System	RomanPisa w/ Geogrid	Geogrid Type and Manufacturer	See Notes	
Maximum Height mm (in)	1140 (44)	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)	Traffic Surcharge 12 kPa (250 lb/sq.ft)	Depth of Embedment mm (in)	nt 153 (6)	
Batter of Wall			610 x 153 (24 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	NR	NR	NR		
Placed in 150mm (6") lifts and compacted to 95% SPD.	Undisturbed dense soil or well compacted Eng. fill.		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 Well graded, free draining Granular Inorganic Clays 35° 28° 22 (140) 20 (127) NR NR Placed in 150mm (6°) ilfs and compacted to 95% Undisturbed dense soil or compacted to 95%	GW CL CL Well graded, free draining Granular Inorganic Clays Low Plasticity Inorganic Clays 35° 28° 28° 22 (140) 20 (127) 20 (127) NR NR NR Placed in 150mm (6°) ilfs and compacted to 95% Undisturbed dense soil or well compacted Allowable bearing cap.must exceed	GW CL CL GW Well graded, free draining Granular Inorganic Clays Low Plasticity Inorganic Clays Vell graded, free Low Plasticity 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 dense soil or well compacted Allowable bearing cap.must exceed well compacted Crushed Gravel (free draining) compacted to 95%		

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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