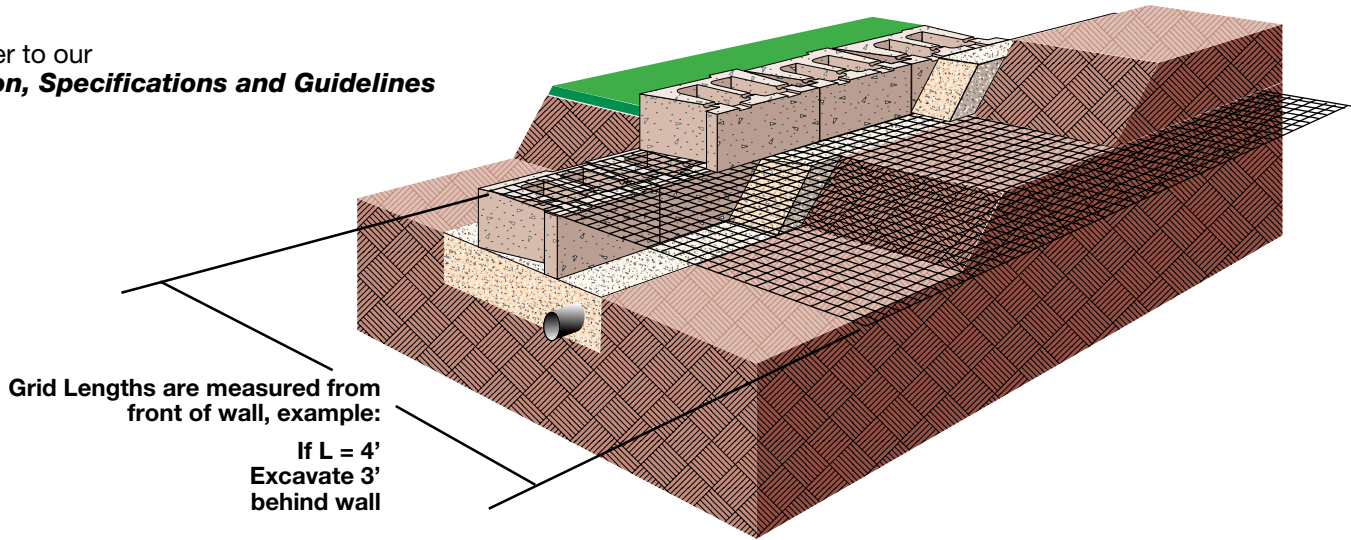


StoneWall[®] SELECT[®]

Miragrid Tables for Reinforced Soil Walls Sample Designs

Please refer to our
Installation, Specifications and Guidelines
brochure.



Notes:

1. Sample design is to be used for preliminary design only. In all situations, the final as built design should be performed by a qualified engineer using actual design conditions for the proposed site.

2. Definitions:

H' = exposed height,
H = total height,
H_{gp} = height of the grid placement as measured from the bottom of the retaining wall and
L = the length of grid as measured from the front of the retaining wall.

3. Sample designs have been prepared exclusively for the use of Miragrid 3XT geogrid.

4. Minimum factors of safety: 1.5 for internal reinforcement rupture and pullout, 1.5 for external sliding, and 2.0 for external overturning and bearing capacity. No provision or analysis included for global stability.

5. Miragrid 3XT must extend to the front face shell of the StoneWall SELECT unit.

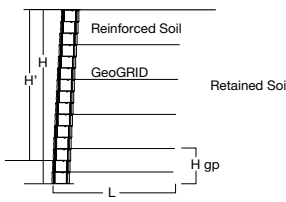
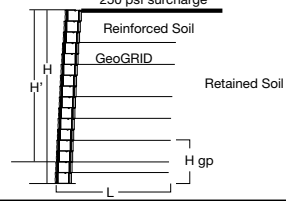
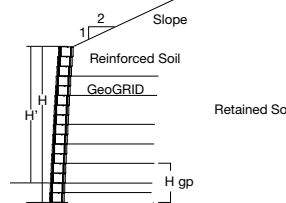
6. Sample designs require adequate drainage provisions for wall fill and back fill.

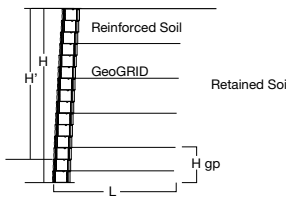
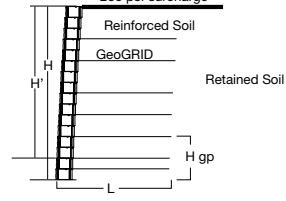
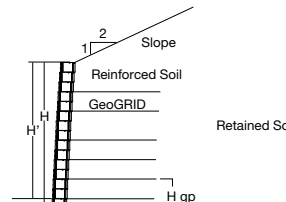
7. In Cases 2 & 3, when the top course is greater

than 4 courses from the last layer of geogrid place a L= 4' layer of grid 2 courses down from the top of the wall.

8. To the best of our knowledge the information contained herein is accurate. However, ICD Corporation cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user.

Site soils where $\phi \geq 27^\circ$ and the moist unit weight, γ , is ≤ 125 pcf. Typical for sandy clay, silty clays, clay-sand or silt-sand mixtures classified as (CL, ML, SC, SM)	Exposed Height H', (ft.)	Total Height H, (ft.)	No. of StoneWall SELECT Courses	Grid Layers	Length L, (ft.)	Layer Number Place Grid at Height H _{gp} (ft.)								
						1	2	3	4	5	6	7		
CASE 1 	3'4"	4'0"	6	2	4'0"	1'4"	2'8"							
	4'0"	4'8"	7	2	4'0"	1'4"	2'8"							
	5'4"	6'0"	9	2	5'0"	1'4"	3'4"							
	6'0"	6'8"	10	2	5'6"	1'4"	3'4"							
	8'0"	8'8"	13	3	6'6"	0'8"	2'8"	5'4"						
	8'8"	9'4"	14	4	7'0"	0'8"	2'8"	4'8"	6'8"					
10'0"	11'4"	17	6	8'0"	0'8"	2'0"	3'4"	5'4"	7'4"	9'4"				
CASE 2 	3'4"	4'0"	6	2	6'0"	0'8"	2'8"							
	4'0"	4'8"	7	2	6'6"	0'8"	2'8"							
	5'4"	6'0"	9	3	7'6"	0'8"	2'0"	4'0"						
	6'0"	6'8"	10	3	7'6"	0'8"	2'0"	4'0"						
	8'0"	8'8"	13	4	8'6"	0'8"	2'0"	4'0"	6'0"					
	8'8"	9'4"	14	5	9'0"	0'8"	2'0"	3'4"	5'4"	7'4"	6'8"	8'8"		
10'0"	11'4"	17	7	10'0"	0'8"	1'4"	2'0"	3'4"	4'8"	6'8"	8'8"			
CASE 3 	3'4"	4'0"	6	2	4'0"	0'8"	2'8"							
	4'0"	4'8"	7	2	4'0"	0'8"	2'8"							
	5'4"	6'0"	9	2	5'0"	1'4"	4'0"							
	6'0"	6'8"	10	3	5'6"	0'8"	2'8"	4'8"						
	8'0"	8'8"	13	4	7'6"	0'8"	2'0"	4'0"	6'8"					
	8'8"	9'4"	14	4	8'0"	0'8"	2'0"	4'0"	6'8"					
10'0"	11'4"	17	6	9'6"	0'8"	1'4"	2'8"	4'0"	6'0"	8'8"				

Site soils where $\phi \geq 32^\circ$ and the moist unit weight, g , is ≤ 125 pcf. Typical for silty-sand, poorly graded sands, and well graded fine to medium sands (SM, SP, SW)	Exposed Height H', (ft.)	Total Height H, (ft.)	No. of StoneWall SELECT Courses	Grid Layers	Length L, (ft.)	Layer Number Place Grid at Height Hgp (ft.)									
						1	2	3	4	5	6	7			
CASE 1 	3'4"	4'0"	6	1	4'0"	2'0"									
	4'0"	4'8"	7	1	4'0"	2'0"									
	5'4"	6'0"	9	2	4'6"	1'4"	4'0"								
	6'0"	6'8"	10	2	5'0"	1'4"	4'0"								
	8'0"	8'8"	13	3	6'0"	0'8"	3'4"	6'0"							
	8'8"	9'4"	14	4	6'6"	0'8"	2'8"	4'8"	7'4"						
10'0"	11'4"	17	5	7'6"	0'8"	2'8"	4'8"	6'8"	9'4"						
CASE 2 	3'4"	4'0"	6	2	4'0"	0'8"	2'0"								
	4'0"	4'8"	7	2	5'0"	0'8"	2'8"								
	5'4"	6'0"	9	2	5'0"	1'4"	3'4"								
	6'0"	6'8"	10	3	5'6"	0'8"	2'8"	4'8"							
	8'0"	8'8"	13	4	6'6"	0'8"	2'8"	4'8"	6'8"						
	8'8"	9'4"	14	4	7'6"	0'8"	2'8"	4'8"	7'4"						
10'0"	11'4"	17	6	8'6"	0'8"	2'0"	3'4"	5'4"	7'4"	9'4"					
CASE 3 	3'4"	4'0"	6	2	4'0"	0'8"	2'8"								
	4'0"	4'8"	7	2	4'0"	0'8"	3'4"								
	5'4"	6'0"	9	2	4'6"	1'4"	4'0"								
	6'0"	6'8"	10	3	5'0"	0'8"	2'8"	4'8"							
	8'0"	8'8"	13	4	6'0"	0'8"	2'0"	4'0"	6'0"						
	8'8"	9'4"	14	4	6'6"	0'8"	2'0"	4'0"	6'8"						
10'0"	11'4"	17	6	8'0"	0'8"	1'4"	2'8"	4'0"	6'0"	8'8"					

Site soils where $\phi \geq 36^\circ$ and the moist unit weight, g , is ≤ 125 pcf. Typical for well-graded fine to coarse sands (SW) and sand-gravel mixtures (GW,GP,GM)	Exposed Height H', (ft.)	Total Height H, (ft.)	No. of StoneWall SELECT Courses	Grid Layers	Length L, (ft.)	Layer Number Place Grid at Height Hgp (ft.)									
						1	2	3	4	5	6	7			
CASE 1 	3'4"	4'0"	6	1	3'6"	2'0"									
	4'0"	4'8"	7	1	3'6"	2'0"									
	5'4"	6'0"	9	2	4'0"	1'4"	4'0"								
	6'0"	6'8"	10	2	4'0"	1'4"	4'0"								
	8'0"	8'8"	13	3	5'0"	0'8"	3'4"	6'0"							
	8'8"	9'4"	14	3	5'6"	0'8"	3'4"	6'8"							
10'0"	11'4"	17	4	6'6"	0'8"	2'8"	5'4"	8'8"							
CASE 2 	3'4"	4'0"	6	1	4'0"	2'0"									
	4'0"	4'8"	7	2	4'0"	0'8"	2'8"								
	5'4"	6'0"	9	2	5'0"	0'8"	3'4"								
	6'0"	6'8"	10	3	5'0"	0'8"	2'8"	4'8"							
	8'0"	8'8"	13	3	6'0"	0'8"	2'8"	5'4"							
	8'8"	9'4"	14	4	6'6"	0'8"	2'8"	4'8"	7'4"						
10'0"	11'4"	17	5	7'6"	0'8"	2'0"	4'0"	6'0"	8'8"	see note #7					
CASE 3 	3'4"	4'0"	6	1	3'6"	2'0"									
	4'0"	4'8"	7	1	3'6"	2'0"									
	5'4"	6'0"	9	2	4'0"	0'8"	3'4"								
	6'0"	6'8"	10	2	4'0"	1'4"	4'0"								
	8'0"	8'8"	13	3	5'0"	0'8"	3'4"	6'0"							
	8'8"	9'4"	14	4	5'6"	0'8"	2'8"	4'8"	7'4"						
10'0"	11'4"	17	5	6'6"	0'8"	2'0"	4'0"	6'0"	8'8"						

For more information contact:

StoneWall SELECT is a product of



Innovative Concrete Design
www.selecticd.com
800 / 394-4066 Toll Free
414 / 962-4065 Phone
414 / 332-9678 Fax
3934 North Ridgefield Circle, Milwaukee, WI 53211