

FORIX

Precast Modular Wall System



The unique features of the Forix retaining wall system includes:

- Triangular geometry of rear legs create an arching effect with stone backfill resulting in downward pressure on block units
- Less freight weight and manufacturing costs when compared to solid precast concrete wall units
- Various face impressions available including natural stone finish
- Capable of turning radii
- 90 degree corner unit available
- Constructible with or without cap unit, or with traffic barrier as required by site conditions
- Free draining with stone infill
- Automatic vertical alignment control by means of lugs on bottom of units
- Can be designed and constructed taller than conventional gravity height walls using polymer geogrid reinforcement, including mechanical (positive) geogrid connection

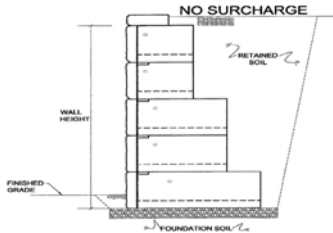
Forix is a concrete precast modular block retaining wall system, large in size yet economical in weight and possesses **UNPRECEDENTED ENGINEERING EFFICIENCY.**



EARTH WALL PRODUCTS

Marietta, GA 30064 | PH 770.378.5012

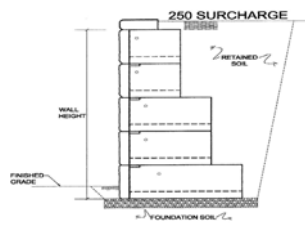
earthwallproducts.com



FORIX STANDARD TYPICAL CROSS SECTION

No Surcharge, $\gamma = 120$ PCF

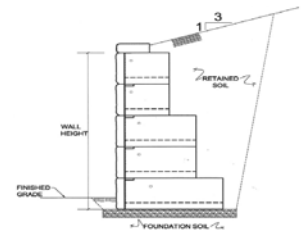
$\Phi = 28'$ Silt/Clayey Soils					$\Phi = 30'$ Sandy Soils					$\Phi = 34'$ Gravel Soils				
Wall Height	Block Size Needed				Wall Height	Block Size Needed				Wall Height	Block Size Needed			
	24"	36"	48"	60" 72"		24"	36"	48"	60" 72"		24"	36"	48"	60" 72"
1.5'	1	0	0	0	1.5'	1	0	0	0	1.5'	1	0	0	0
3.0'	2	0	0	0	3.0'	2	0	0	0	3.0'	2	0	0	0
4.5'	3	0	0	0	4.5'	3	0	0	0	4.5'	3	0	0	0
6.0'	3	1	0	0	6.0'	3	1	0	0	6.0'	4	0	0	0
7.5'	2	2	1	0	7.5'	4	1	0	0	7.5'	4	1	0	0
9.0'	2	2	1	1	9.0'	3	2	1	0	9.0'	1	5	0	0
10.5'	1	0	2	4	10.5'	3	2	1	1	10.5'	3	2	2	0
12.0'	1	1	1	0	12.0'	2	1	1	4	12.0'	1	1	6	0
13.5'					13.5'	2	1	2	2	13.5'	3	2	2	2
15.0'					15.0'	1	0	0	1	15.0'	1	0	1	8
16.5'					16.5'	2	2	3	2	16.5'	2	2	3	2
18.0'					18.0'	1	0	1	1	18.0'	1	0	1	9
19.5'					19.5'					19.5'				
21.0'					21.0'					21.0'				
22.5'					22.5'					22.5'				



FORIX STANDARD TYPICAL CROSS SECTION

250 PSF Surcharge, $\gamma = 120$ PCF

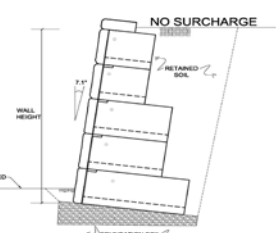
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Wall Height	Block Size Needed				Wall Height	Block Size Needed				Wall Height	Block Size Needed				
	24"	36"	48"	60" 72"		24"	36"	48"	60" 72"		24"	36"	48"	60" 72"	
1.5'	1	0	0	0	1.5'	1	0	0	0	1.5'	1	0	0	0	
3.0'	0	2	0	0	3.0'	0	2	0	0	3.0'	1	1	0	0	
4.5'	0	2	1	0	4.5'	0	2	1	0	4.5'	1	2	0	0	
6.0'	0	2	1	1	6.0'	0	2	2	0	6.0'	1	3	0	0	
7.5'	0	2	1	1	7.5'	0	2	2	1	7.5'	1	2	2	0	
9.0'	0	2	0	2	9.0'	0	1	1	4	9.0'	1	2	3	0	
10.5'					10.5'	0	2	1	2	10.5'	1	2	2	2	
12.0'					12.0'					12.0'	1	2	0	5	
13.5'					13.5'					13.5'	1	2	2	2	
15.0'					15.0'					15.0'	1	1	1	2	5
16.5'					16.5'					16.5'					
18.0'					18.0'					18.0'					
19.5'					19.5'					19.5'					
21.0'					21.0'					21.0'					
22.5'					22.5'					22.5'					



FORIX STANDARD TYPICAL CROSS SECTION

3:1 Surcharge, $\gamma = 120$ PCF

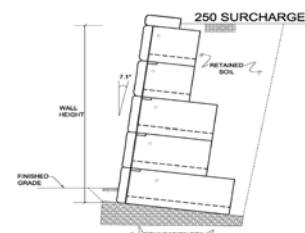
$\Phi = 28'$ Silt/Clayey Soils					$\Phi = 30'$ Sandy Soils					$\Phi = 34'$ Gravel Soils					
Wall Height	Block Size Needed				Wall Height	Block Size Needed				Wall Height	Block Size Needed				
	24"	36"	48"	60" 72"		24"	36"	48"	60" 72"		24"	36"	48"	60" 72"	
1.5'	1	0	0	0	1.5'	1	0	0	0	1.5'	1	0	0	0	
3.0'	2	0	0	0	3.0'	2	0	0	0	3.0'	2	0	0	0	
4.5'	2	1	0	0	4.5'	2	1	0	0	4.5'	2	1	0	0	
6.0'	0	1	3	0	6.0'	0	4	0	0	6.0'	3	1	0	0	
7.5'	0	0	1	4	7.5'	0	1	4	0	7.5'	2	3	0	0	
9.0'					9.0'	0	1	1	4	9.0'	3	1	2	0	
10.5'					10.5'					10.5'	2	1	4	0	
12.0'					12.0'					12.0'	2	1	2	3	0
13.5'					13.5'					13.5'	2	1	2	2	2
15.0'					15.0'					15.0'					
16.5'					16.5'					16.5'					
18.0'					18.0'					18.0'					
19.5'					19.5'					19.5'					
21.0'					21.0'					21.0'					
22.5'					22.5'					22.5'					



FORIX STANDARD TYPICAL CROSS SECTION

7.1' Batter, No Surcharge, $\gamma = 120$ PCF

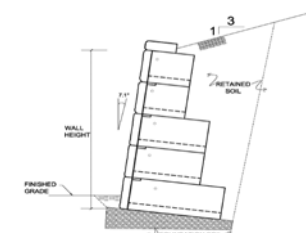
$\Phi = 28'$ Silt/Clayey Soils					$\Phi = 30'$ Sandy Soils					$\Phi = 34'$ Gravel Soils					
Wall Height	Block Size Needed				Wall Height	Block Size Needed				Wall Height	Block Size Needed				
	24"	36"	48"	60" 72"		24"	36"	48"	60" 72"		24"	36"	48"	60" 72"	
1.5'	1	0	0	0	1.5'	1	0	0	0	1.5'	1	0	0	0	
3.0'	2	0	0	0	3.0'	2	0	0	0	3.0'	2	0	0	0	
4.5'	3	0	0	0	4.5'	3	0	0	0	4.5'	3	0	0	0	
6.0'	4	0	0	0	6.0'	4	0	0	0	6.0'	4	0	0	0	
7.5'	3	2	0	0	7.5'	5	0	0	0	7.5'	5	0	0	0	
9.0'	3	3	0	0	9.0'	4	2	0	0	9.0'	4	2	0	0	
10.5'	3	3	1	0	10.5'	5	0	0	0	10.5'	4	3	0	0	
12.0'	3	1	4	0	12.0'	4	2	2	0	12.0'	1	7	0	0	
13.5'	3	2	3	1	13.5'	2	1	6	0	13.5'	4	3	2	0	
15.0'	2	1	2	5	15.0'	3	3	2	2	15.0'	2	2	6	0	
16.5'	2	2	1	4	16.5'	3	1	0	7	16.5'	4	3	2	2	
18.0'	1	1	0	5	18.0'	3	2	1	4	18.0'	3	1	1	7	
19.5'					19.5'	1	1	1	9	19.5'	4	2	3	2	
21.0'					21.0'					21.0'	3	2	1	1	7
22.5'					22.5'					22.5'	2	1	0	1	11



FORIX STANDARD TYPICAL CROSS SECTION

7.1' Batter, 250 PSF Surcharge, $\gamma = 120$ PCF

$\Phi = 28'$ Silt/Clayey Soils					$\Phi = 30'$ Sandy Soils					$\Phi = 34'$ Gravel Soils					
Wall Height	Block Size Needed				Wall Height	Block Size Needed				Wall Height	Block Size Needed				
	24"	36"	48"	60" 72"		24"	36"	48"	60" 72"		24"	36"	48"	60" 72"	
1.5'	1	0	0	0	1.5'	1	0	0	0	1.5'	1	0	0	0	
3.0'	2	0	0	0	3.0'	2	0	0	0	3.0'	2	0	0	0	
4.5'	2	1	0	0	4.5'	2	1	0	0	4.5'	3	0	0	0	
6.0'	1	3	0	0	6.0'	2	2	0	0	6.0'	3	1	0	0	
7.5'	2	2	1	0	7.5'	1	4	0	0	7.5'	3	2	0	0	
9.0'	2	0	4	0	9.0'	2	3	1	0	9.0'	2	4	0	0	
10.5'	2	1	1	3	10.5'	2	3	2	0	10.5'	3	2	2	0	
12.0'	2	2	1	1	12.0'	2	3	2	1	12.0'	2	1	5	0	
13.5'	2	1	1	1	13.5'	2	3	2	0	13.5'	3	2	2	0	
15.0'					15.0'	0	1	0	9	15.0'	2	1	2	5	0
16.5'					16.5'	2	2	1	2	16.5'	3	2	2	2	2
18.0'					18.0'					18.0'	3	2	1	1	5
19.5'					19.5'					19.5'	1	1	1	2	8
21.0'					21.0'					21.0'					
22.5'					22.5'					22.5'					



FORIX STANDARD TYPICAL CROSS SECTION

7.1' Batter, 3:1 Surcharge, $\gamma = 120$ PCF

$\Phi = 28'$ Silt/Clayey Soils					$\Phi = 30'$ Sandy Soils					$\Phi = 34'$ Gravel Soils					
Wall Height	Block Size Needed				Wall Height	Block Size Needed				Wall Height	Block Size Needed				
	24"	36"	48"	60" 72"		24"	36"	48"	60" 72"		24"	36"	48"	60" 72"	
1.5'	1	0	0	0	1.5'	1	0	0	0	1.5'	1	0	0	0	
3.0'	2	0	0	0	3.0'	2	0	0	0	3.0'	2	0	0	0	
4.5'	3	0	0	0	4.5'	3	0	0	0	4.5'	3	0	0	0	
6.0'	3	1	0	0	6.0'	4	0	0	0	6.0'	4	0	0	0	
7.5'	3	1	1	0	7.5'	4	1	0	0	7.5'	5	0	0	0	
9.0'	0	2	4	0	9.0'	3	2	1	0	9.0'	4	2	0	0	
10.5'	3	0	1	3	10.5'	2	3	0	0	10.5'	1	6	0	0	
12.0'	2	1	1	3	12.0'	2	3	1	2	12.0'	4	2	2	0	
13.5'					13.5'	2	1	1	5	13.5'	1	1	7	0	
15.0'					15.0'					15.0'	4	1	1	4	0
16.5'					16.5'					16.5'	4	2	2	1	2
18.0'					18.0'					18.0'	2	2	2	1	5
19.5'					19.5'					19.5'	1	1	1	0	10
21.0'					21.0'					21.0'					
22.5'					22.5'					22.5'					

The soils effective friction angle and unit weight as outlined above is assumed to exist in the reinforced, retained, and foundation zones.

The information contained herein has been compiled by Earth Wall Products, LLC and to the best of our knowledge, accurately represents the Forix product use in the applications which are illustrated. Final determination of the suitability for the use contemplated and its manner of use are the sole responsibility of the user. Final structural design and analysis shall be performed by a qualified engineer.

For assistance with stamped final designs by a professional engineer call 770.378.5012.