

# 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 backfill resulting in downward pressure on block units for stability
- 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
- 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



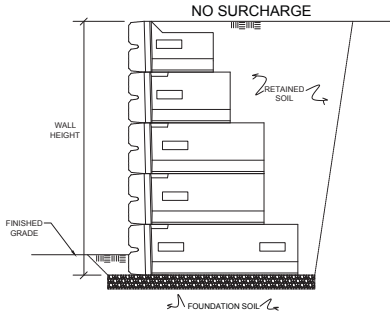
Forix is a concrete precast modular block retaining wall system, large in size yet economical in weight and possesses **UNPRECEDENTED ENGINEERING EFFICIENCY.**



**EARTH WALL PRODUCTS**

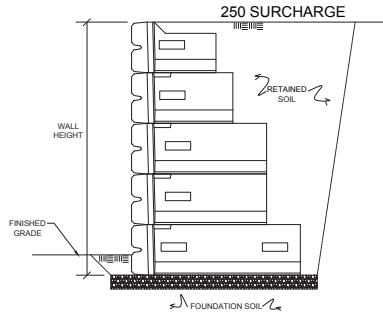
[earthwallproducts.com](http://earthwallproducts.com)

PH 678.594.3451



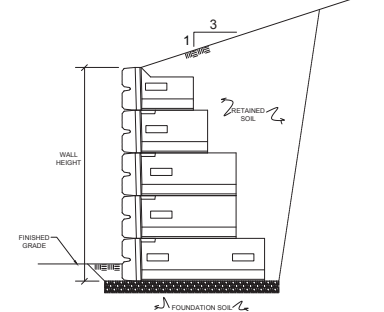
**FORIX STANDARD TYPICAL CROSS SECTION**  
No Surcharge,  $\gamma = 120$  PCF

Φ = 28" Silt/Clayey Soils					Φ = 30" Sandy Soils					Φ = 34" Gravel Soils						
Wall Height	Block Size Needed				Wall Height	Block Size Needed				Wall Height	Block Size Needed					
	30"	36"	48"	72"		30"	36"	48"	72"		30"	36"	48"	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'	1	4	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	1	10.5'	3	2	2	0	10.5'	3	2	2	0	
12.0'	1	1	1	0	5	12.0'	2	1	1	4	0	12.0'	1	1	6	0
13.5'					13.5'	2	1	2	2	2	13.5'	3	2	2	2	0
15.0'					15.0'	1	0	0	1	8	15.0'	1	0	1	8	0
16.5'					16.5'					2	2	3	2	2	0	
18.0'					18.0'					1	0	1	1	9	0	
19.5'					19.5'											
21.0'					21.0'											
22.5'					22.5'											



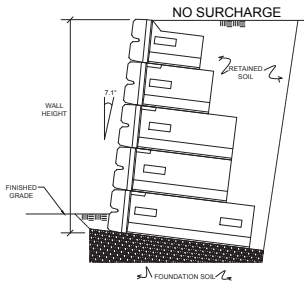
**FORIX STANDARD TYPICAL CROSS SECTION**  
250 PSF Surcharge,  $\gamma = 120$  PCF

Φ = 28" Silt/Clayey Soils					Φ = 30" Sandy Soils					Φ = 34" Gravel Soils							
Wall Height	Block Size Needed				Wall Height	Block Size Needed				Wall Height	Block Size Needed						
	30"	36"	48"	72"		30"	36"	48"	72"		30"	36"	48"	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	0	3.0'	0	2	0	0	3.0'	1	1	0	0		
4.5'	0	2	1	0	0	4.5'	0	2	1	0	0	1	2	0	0		
6.0'	0	2	1	1	0	6.0'	0	2	2	0	0	1	3	0	0		
7.5'	0	2	1	1	1	7.5'	0	2	2	1	0	1	2	2	0	0	
9.0'	0	2	1	0	2	2	9.0'	0	1	1	4	0	1	2	3	0	0
10.5'					10.5'	0	2	1	2	2	10.5'	1	2	2	2	0	
12.0'					12.0'	1	1	1	0	5	12.0'	1	2	0	5	0	
13.5'					13.5'					13.5'	1	2	2	2	2	0	
15.0'					15.0'					15.0'	1	1	1	2	5	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'							



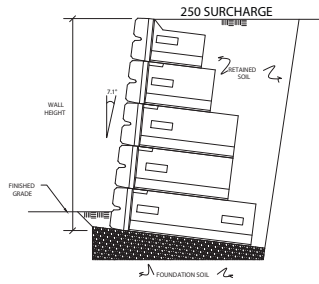
**FORIX STANDARD TYPICAL CROSS SECTION**  
3:1 Surcharge,  $\gamma = 120$  PCF

Φ = 28" Silt/Clayey Soils					Φ = 30" Sandy Soils					Φ = 34" Gravel Soils						
Wall Height	Block Size Needed				Wall Height	Block Size Needed				Wall Height	Block Size Needed					
	30"	36"	48"	72"		30"	36"	48"	72"		30"	36"	48"	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	0	3.0'	2	0	0	0	3.0'	2	0	0	0	
4.5'	2	1	0	0	0	4.5'	2	1	0	0	0	4.5'	2	1	0	0
6.0'	0	1	3	0	0	6.0'	0	4	0	0	0	6.0'	3	1	0	0
7.5'	0	0	1	4	0	7.5'	0	1	4	0	0	7.5'	2	3	0	0
9.0'					9.0'	0	1	1	4	0	9.0'	3	1	2	0	0
10.5'					10.5'	1	2	1	1	2	10.5'	2	1	4	0	0
12.0'					12.0'					12.0'	2	1	2	3	0	0
13.5'					13.5'					13.5'	2	1	2	2	2	0
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'						



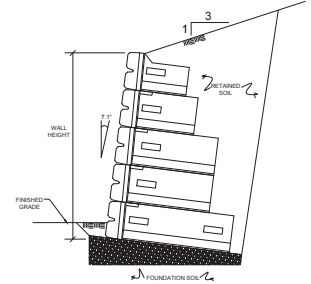
**FORIX STANDARD TYPICAL CROSS SECTION**  
7.1' Batter, No Surcharge,  $\gamma = 120$  PCF

Φ = 28" Silt/Clayey Soils					Φ = 30" Sandy Soils					Φ = 34" Gravel Soils							
Wall Height	Block Size Needed				Wall Height	Block Size Needed				Wall Height	Block Size Needed						
	30"	36"	48"	72"		30"	36"	48"	72"		30"	36"	48"	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	0	10.5'	2	5	0	0	10.5'	4	3	0	0		
12.0'	3	1	4	0	0	12.0'	4	2	2	0	12.0'	1	7	0	0		
13.5'	3	2	3	1	0	13.5'	2	1	6	0	13.5'	4	3	2	0	0	
15.0'	2	1	2	5	0	15.0'	3	2	2	0	15.0'	2	2	6	0	0	
16.5'	2	2	1	4	2	16.5'	3	1	0	7	0	16.5'	4	3	2	2	0
18.0'	1	1	0	5	5	18.0'	3	2	1	4	2	18.0'	3	1	1	7	0
19.5'					19.5'	1	1	1	1	9	19.5'	4	2	2	3	2	
21.0'					21.0'					21.0'	3	2	1	1	7	0	
22.5'					22.5'	2	1	0	1	11	22.5'	2	1	0	1	11	



**FORIX STANDARD TYPICAL CROSS SECTION**  
7.1' Batter, 250 PSF Surcharge,  $\gamma = 120$  PCF

Φ = 28" Silt/Clayey Soils					Φ = 30" Sandy Soils					Φ = 34" Gravel Soils							
Wall Height	Block Size Needed				Wall Height	Block Size Needed				Wall Height	Block Size Needed						
	30"	36"	48"	72"		30"	36"	48"	72"		30"	36"	48"	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'	2	1	0	0	6.0'	2	2	0	0	6.0'	3	1	0	0	0		
7.5'	2	2	1	0	0	7.5'	1	4	0	0	7.5'	3	2	0	0	0	
9.0'	2	0	4	0	0	9.0'	2	3	1	0	0	9.0'	2	4	0	0	0
10.5'	2	1	1	3	0	10.5'	2	3	2	0	0	10.5'	3	2	2	0	0
12.0'	2	2	1	1	2	12.0'	2	3	2	1	0	12.0'	2	1	5	0	0
13.5'	2	1	1	1	4	13.5'	2	3	2	2	0	13.5'	3	2	2	2	0
15.0'					15.0'	0	1	0	9	0	15.0'	2	1	2	5	0	
16.5'					16.5'	2	2	1	2	4	16.5'	3	2	2	2	2	
18.0'					18.0'					18.0'	3	2	1	1	5	0	
19.5'					19.5'					19.5'	1	1	1	2	8	0	
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

Φ = 28" Silt/Clayey Soils					Φ = 30" Sandy Soils					Φ = 34" Gravel Soils						
Wall Height	Block Size Needed				Wall Height	Block Size Needed				Wall Height	Block Size Needed					
	30"	36"	48"	72"		30"	36"	48"	72"		30"	36"	48"	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	0	6.0'	4	0	0	0	6.0'	4	0	0	0	
7.5'	3	1	1	0	0	7.5'	4	1	0	0	7.5'	5	0	0	0	
9.0'	0	2	4	0	0	9.0'	3	2	1	0	0	9.0'	4	2	0	0
10.5'	3	0	1	3	0	10.5'	2	2	3	0	0	10.5'	1	6	0	0
12.0'	2	1	1	1	3	12.0'	3	1	2	0	12.0'	4	2	2	0	0
13.5'					13.5'	2	1	1	5	0	13.5'	1	1	7	0	0
15.0'					15.0'	2	1	1	1	5	15.0'	4	1	1	4	0
16.5'					16.5'					16.5'	4	2	2	1	2	0
18.0'					18.0'					18.0'	2	2	2	1	5	0
19.5'					19.5'					19.5'	1	1	1	0	10	0
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 678.594.3451.