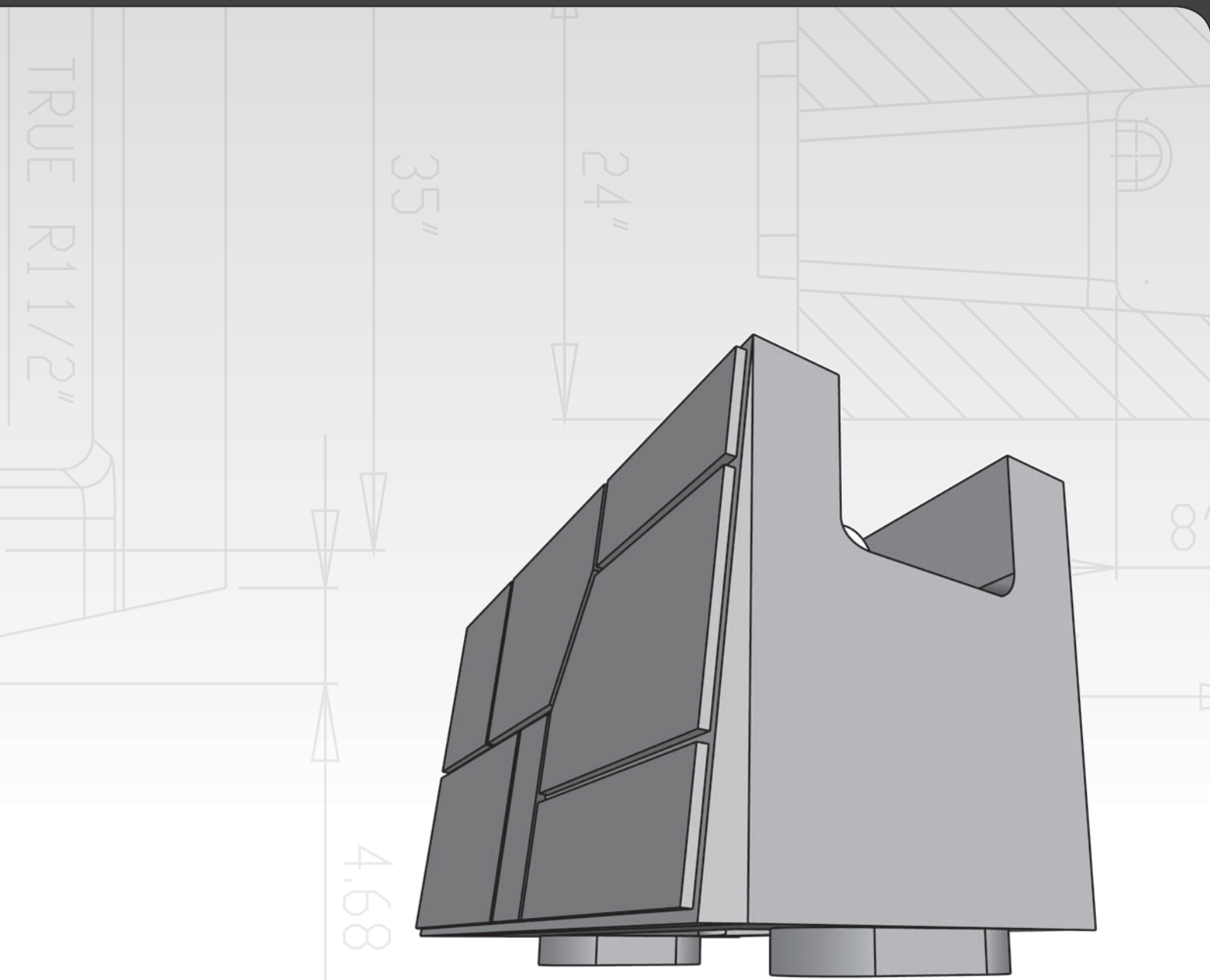
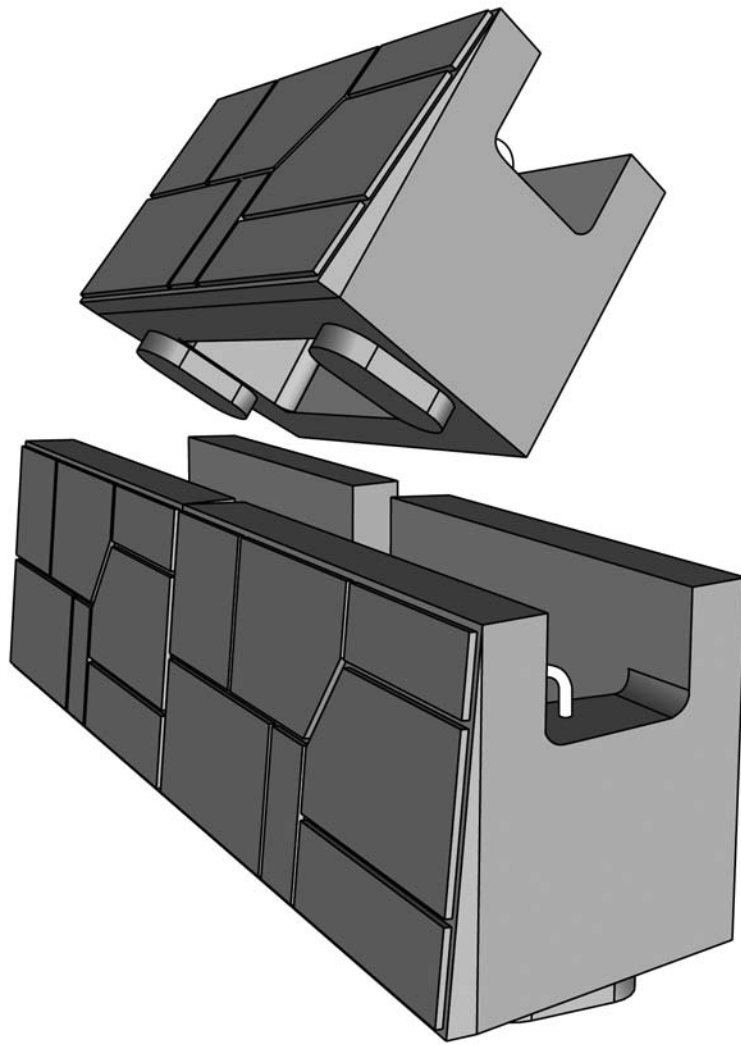




## TECHNICAL REFERENCE MANUAL



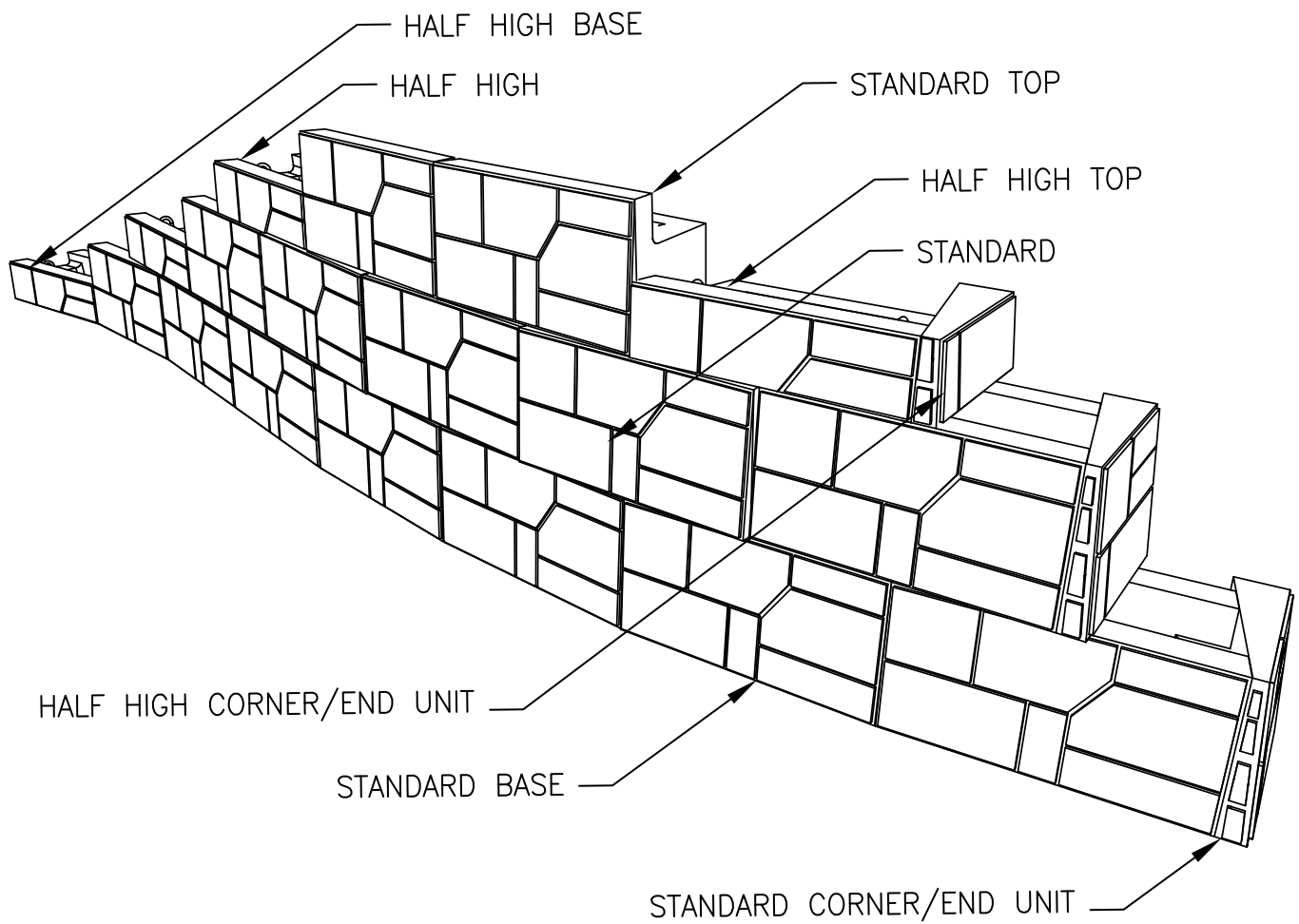


Our MagnumStone™ product is a large block, hollow core, wet-cast segmental retaining wall system that uses nearly half the amount of concrete per face foot when compared to traditional solid systems. The environmental and economical advantages of the pre-cast hollow block MagnumStone™ product are unprecedented in the retaining wall industry. Because of its size and design flexibility, MagnumStone™ is ideal for almost any retaining wall project from residential to large commercial installations.

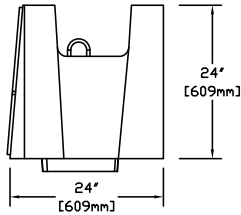
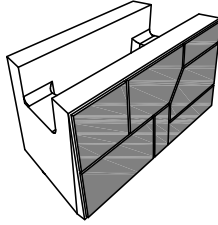
Unit to unit connection uses our patented, mortarless, SecureLug™ interlock system (no expensive, time consuming pins or clips.) and are light enough that they can be moved two at a time with lighter machinery such as a standard Bobcat.

A wet cast segmental retaining wall product provides freeze/thaw durability advantages over competing products, a critical factor for the Departments Of Transport work that MagnumStone™ is very well suited for. The wet-cast process also allows for unique through-wall applications, face options and logo details for any type of project.

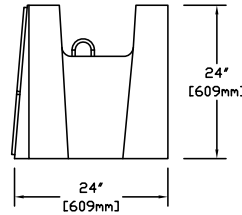
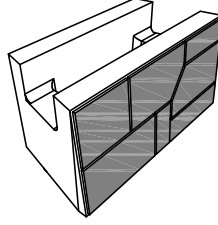
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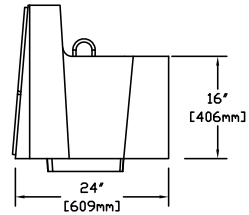
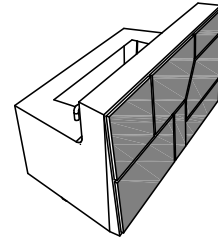
# > > > MagnumStone™ Units



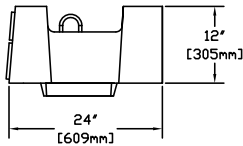
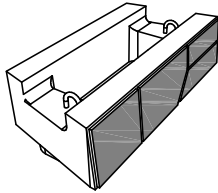
>>>STANDARD



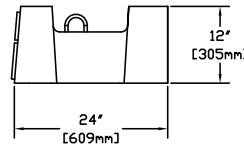
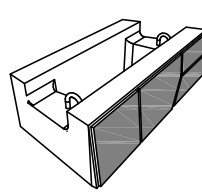
>>>STANDARD BASE



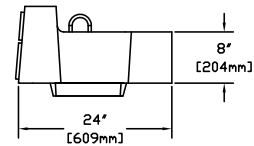
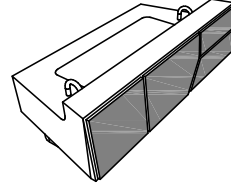
>>>STANDARD TOP



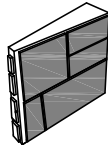
>>>HALF HIGH



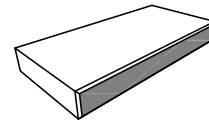
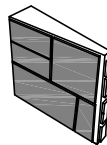
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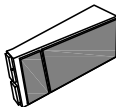
>>>HALF HIGH TOP



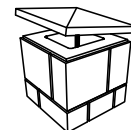
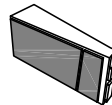
>>>STANDARD CORNER/END UNIT LEFT & RIGHT



>>>STEP/CAP



>>>HALF HIGH CORNER/END UNIT LEFT & RIGHT

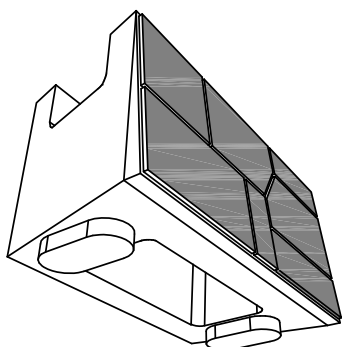


>>>PILLAR

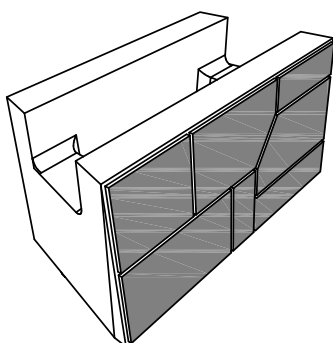
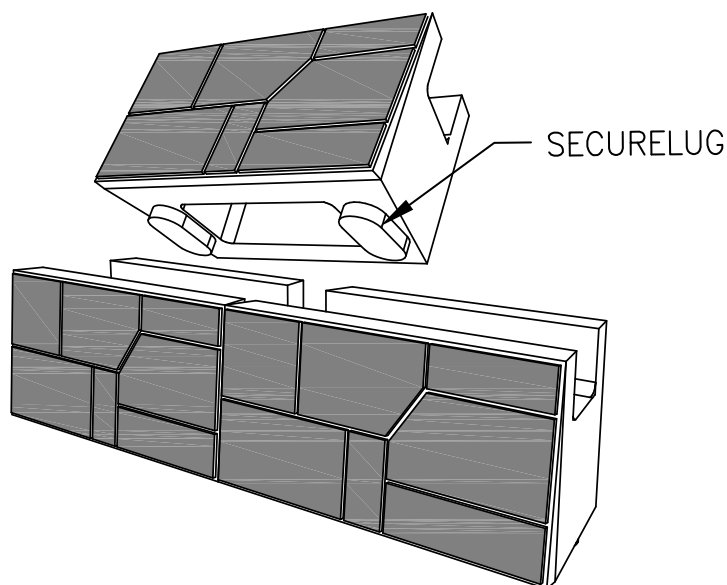
Weights and dimensions are nominal. Specifications may change. Verify exact information with your local producer.

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# > > > MagnumStone™ Standard Unit



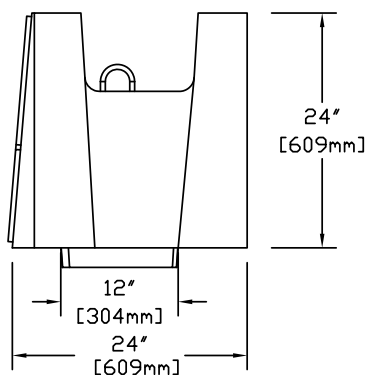
>>>> ISOMETRIC BOTTOM VIEW



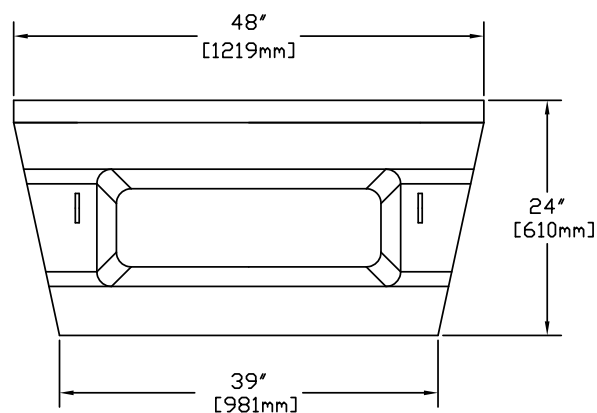
>>>> ISOMETRIC TOP VIEW

## Dimensions

Face Width	48"	1219mm
Back Width	39"	991mm
Depth	24"	610mm
Height	24"	610mm
Face Area	8 sq ft	0.74 sq m
Batter	4.5°	2.0"/Unit
Vertical	0°	0"/Unit
Weight	1370lbs	621Kg
SecureLug	6"x12"x2"	152x305x51mm



>>>> SIDE VIEW

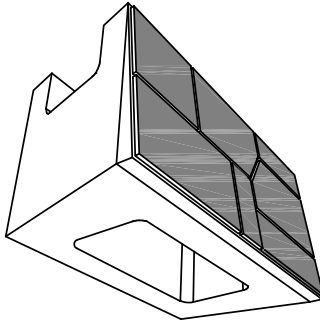


>>>> TOP VIEW

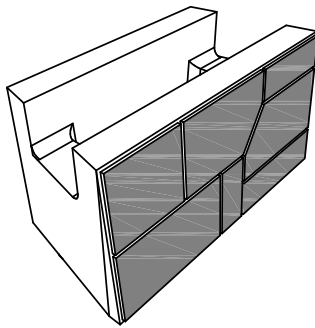
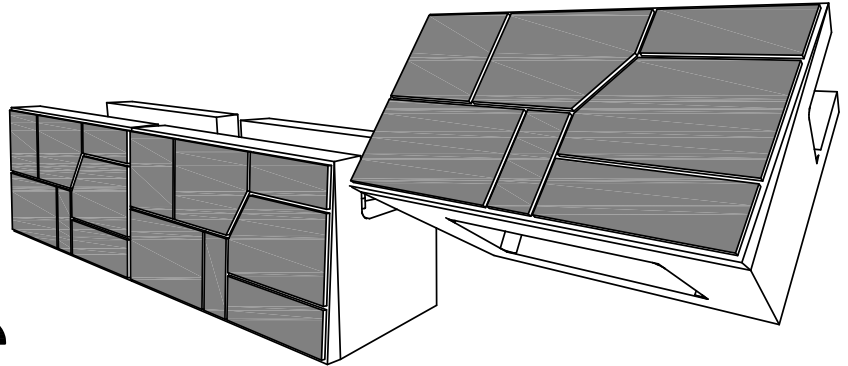
Weights and dimensions are nominal. Specifications may change. Verify exact information with your local producer.

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# > > > MagnumStone™ Standard Base Unit



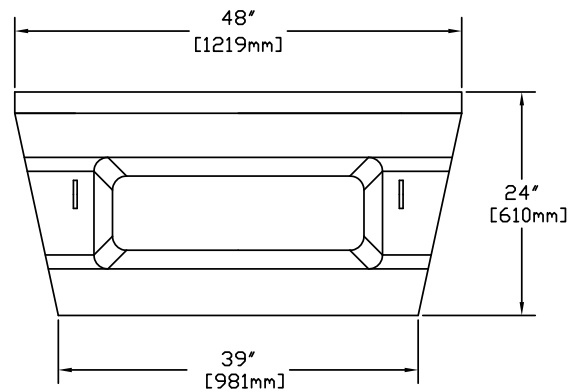
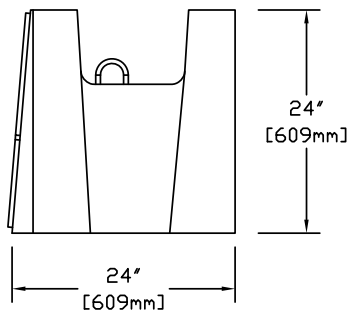
>>>> ISOMETRIC BOTTOM VIEW



>>>> ISOMETRIC TOP VIEW

## Dimensions

Face Width	48"	1219mm
Back Width	39"	991mm
Depth	24"	610mm
Height	24"	610mm
Face Area	8 sq ft	0.74 sq m
Batter	4.5°	2.0"/Unit
Vertical	0°	0"/Unit
Weight	1345lbs	621Kg



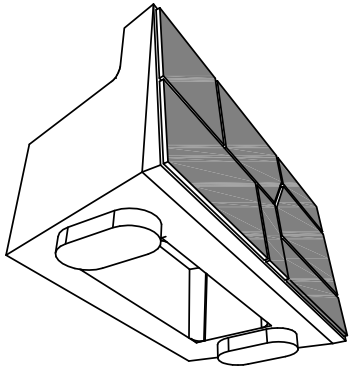
>>>> SIDE VIEW

>>>> TOP VIEW

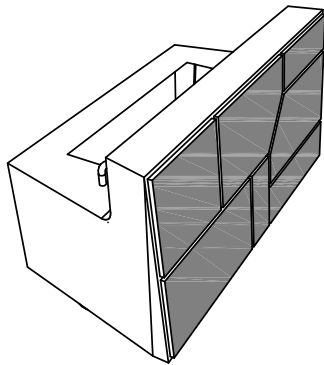
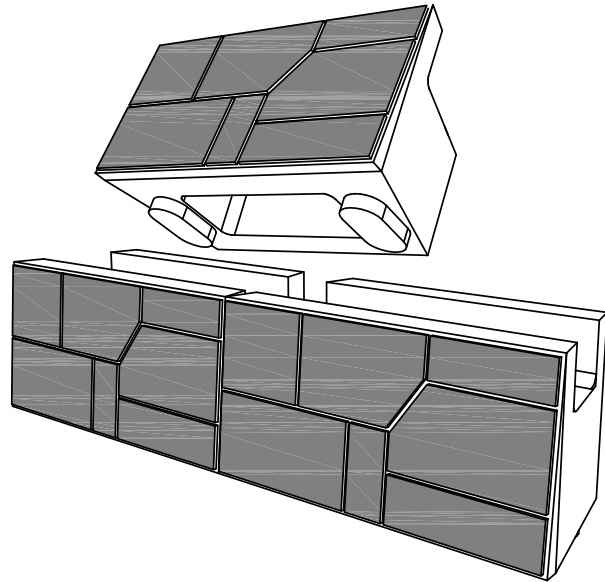
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# > > > MagnumStone™ Standard Top Unit



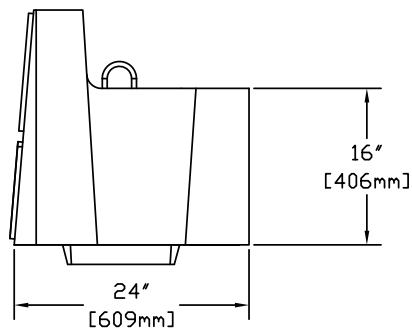
>>>> ISOMETRIC BOTTOM VIEW



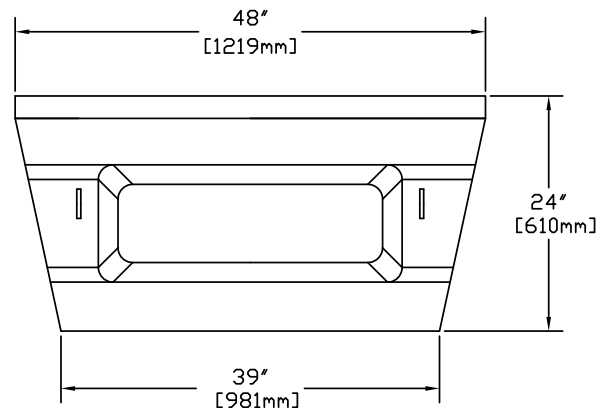
>>>> ISOMETRIC TOP VIEW

## Dimensions

Face Width	48"	1219mm
Back Width	39"	991mm
Depth	24"	610mm
Height	24"	610mm
Face Area	8 sq ft	0.74 sq m
Batter	4.5°	2.0"/Unit
Vertical	0°	0"/Unit
Weight	1220lbs	553Kg



>>>> SIDE VIEW



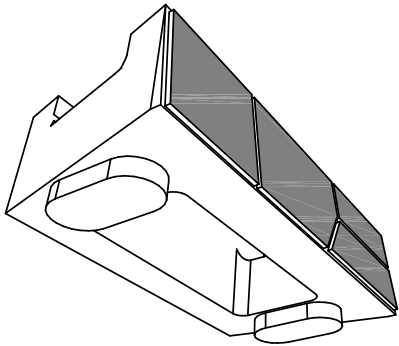
>>>> TOP VIEW

Weights and dimensions are nominal. Specifications may change. Verify exact information with your local producer.

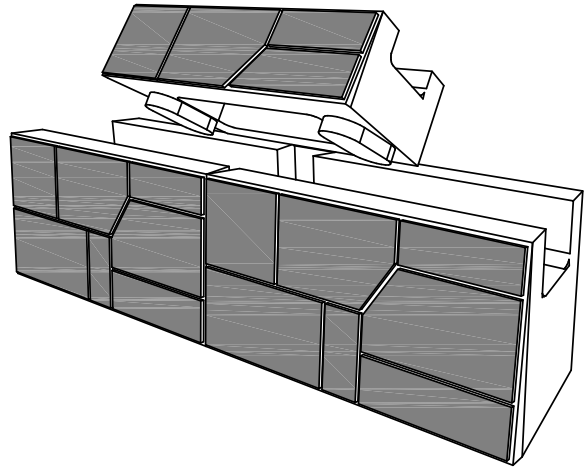
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# > > > MagnumStone™ Half High Unit

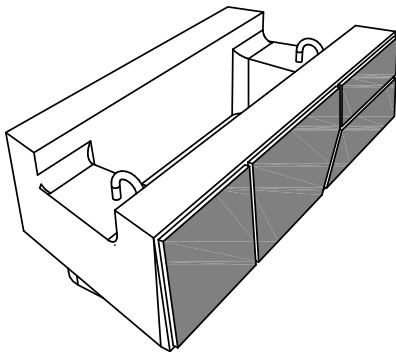


>>>> ISOMETRIC BOTTOM VIEW

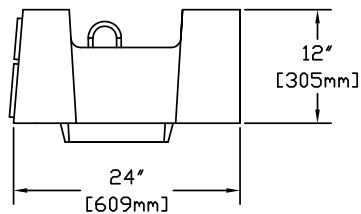


## Dimensions

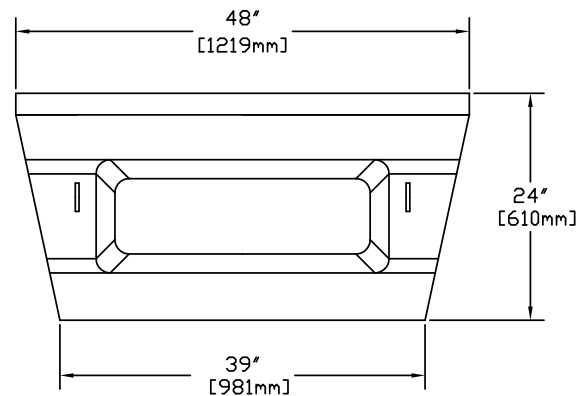
Face Width	48"	1219mm
Back Width	39"	991mm
Depth	24"	610mm
Height	12"	305mm
Face Area	4 sq ft	0.37sq m
Batter	4.5°	1.0"/Unit
Vertical	0°	0"/Unit
Weight	750lbs	340Kg



>>>> ISOMETRIC TOP VIEW



>>>> SIDE VIEW

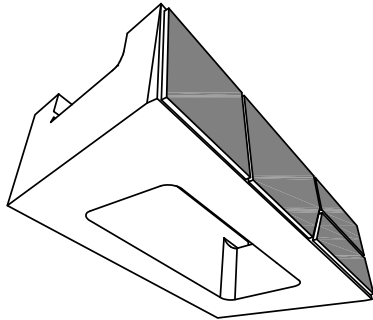


>>>> TOP VIEW

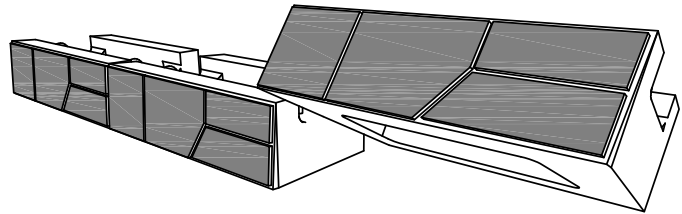
Weights and dimensions are nominal. Specifications may change. Verify exact information with your local producer.

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# > > > MagnumStone™ Half High Base Unit

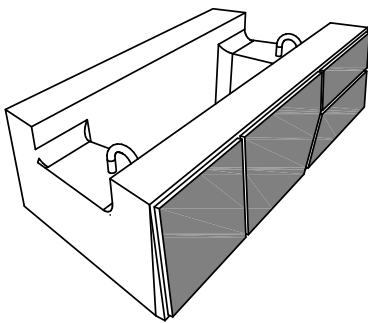


>>>> ISOMETRIC BOTTOM VIEW

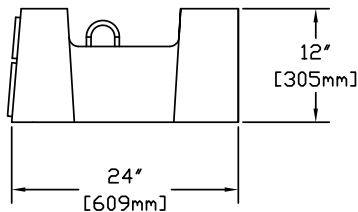


## Dimensions

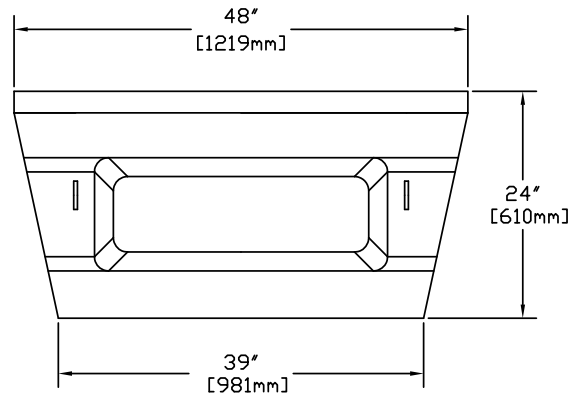
Face Width	48"	1219mm
Back Width	39"	991mm
Depth	24"	610mm
Height	12"	305mm
Face Area	4 sq ft	0.37sq m
Batter	4.5°	1.0"/Unit
Vertical	0°	0"/Unit
Weight	725lbs	328Kg



>>>> ISOMETRIC TOP VIEW



>>>> SIDE VIEW

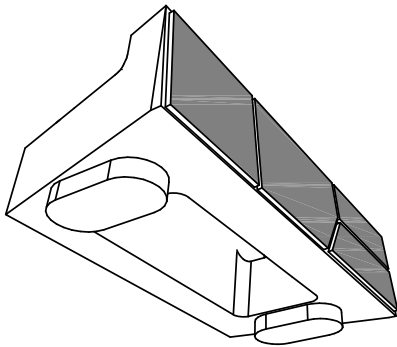


>>>> TOP VIEW

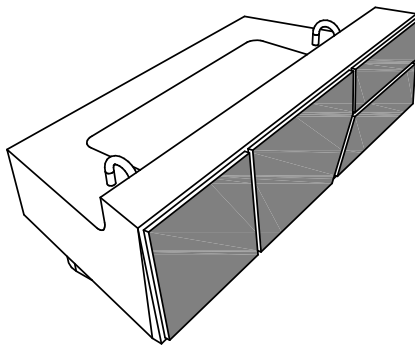
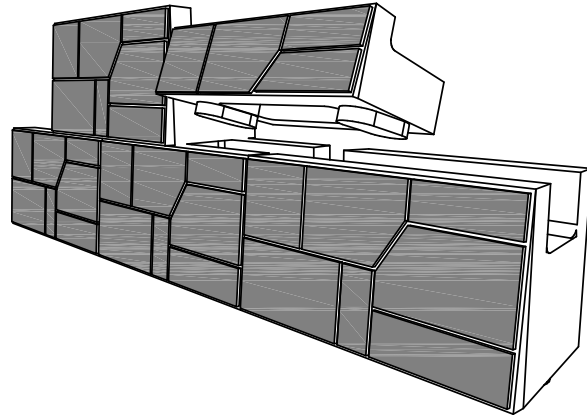
Weights and dimensions are nominal. Specifications may change. Verify exact information with your local producer.

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# > > > MagnumStone™ Half High Top Unit



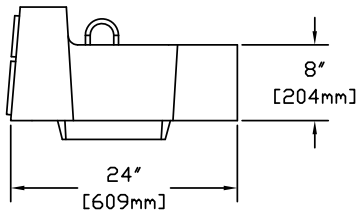
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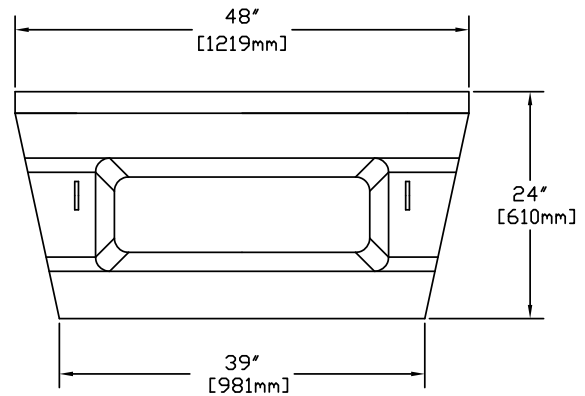
>>>> ISOMETRIC TOP VIEW

## Dimensions

Face Width	48"	1219mm
Back Width	39"	991mm
Depth	24"	305mm
Height	12"	610mm
Face Area	4 sq ft	0.37sq m
Batter	4.5°	1.0"/Unit
Vertical	0°	0"/Unit
Weight	680lbs	308Kg



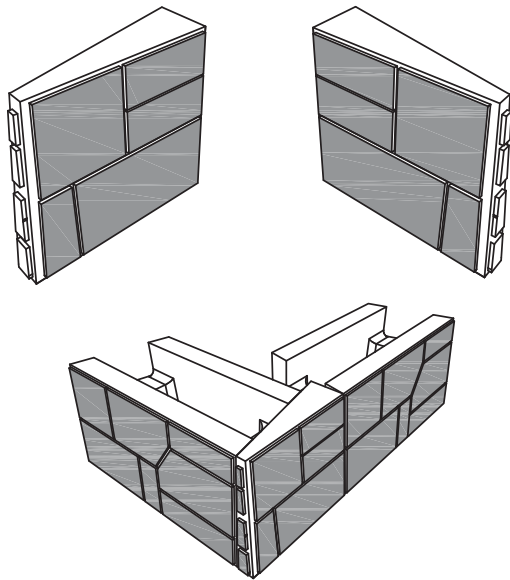
>>>> SIDE VIEW



>>>> TOP VIEW

Weights and dimensions are nominal. Specifications may change. Verify exact information with your local producer.

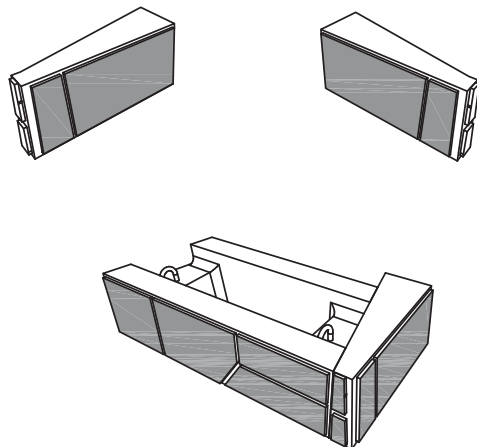
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## Dimensions

Top Face Width	26"	660mm
Bottom Face Width	28"	711mm
Top Narrow Face	2"	51mm
Bottom Narrow Face	4"	102mm
Height	24"	610mm
Face Area	4.66sq ft	0.434 sq m
Batter	4.5°	2.0"/Unit
Vertical	0°	0"/Unit
Weight	340lbs	154Kg

### >>>STANDARD CORNER/END UNIT



## Dimensions

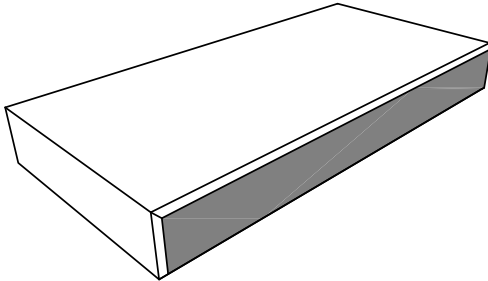
Top Face Width	27"	686mm
Bottom Face Width	28"	711mm
Top Narrow Face	3"	76mm
Bottom Narrow Face	4"	102mm
Height	24"	610mm
Face Area	2.33sq ft	0.217 sq m
Batter	4.5°	1.0"/Unit
Vertical	0°	0"/Unit
Weight	170lbs	77Kg

### >>>HALF HIGH CORNER/END UNIT

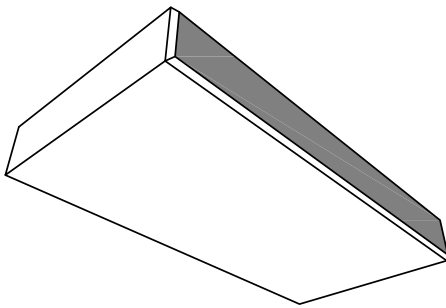
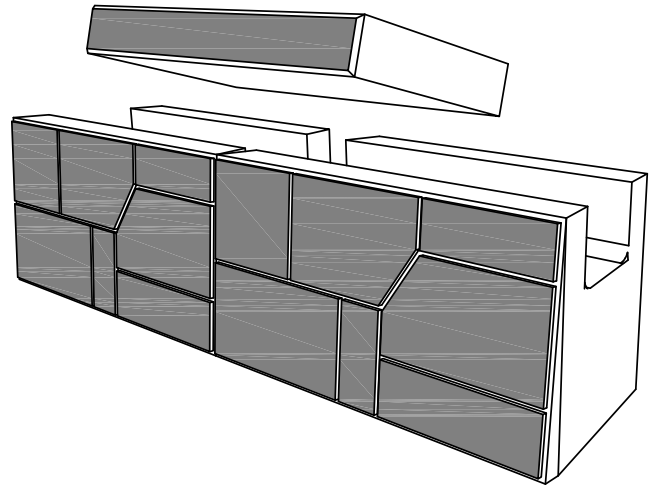
Weights and dimensions are nominal. Specifications may change. Verify exact information with your local producer.

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# > > > MagnumStone™ Step/Cap Unit



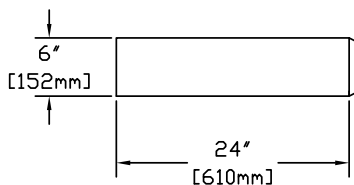
>>>ISOMETRIC BOTTOM VIEW



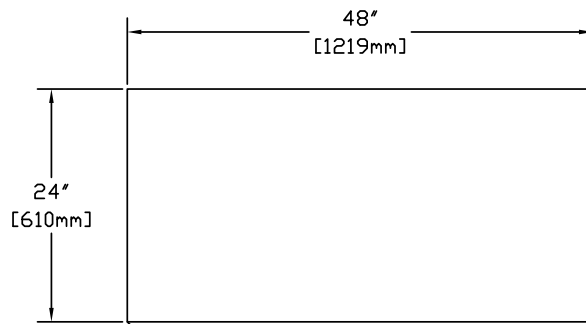
>>>ISOMETRIC TOP VIEW

## Dimensions

Face Width	48"	1219mm
Back Width	48"	1219mm
Depth	24"	610mm
Height	6"	152mm
Face Area	2 sq ft	0.186 sq m
Weight	290lbs	131Kg



>>>SIDE VIEW

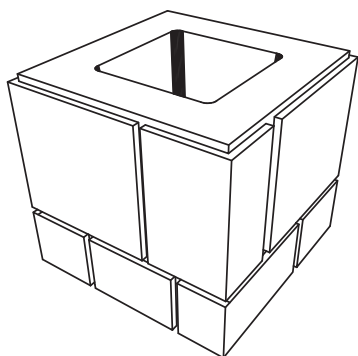


>>> TOP VIEW

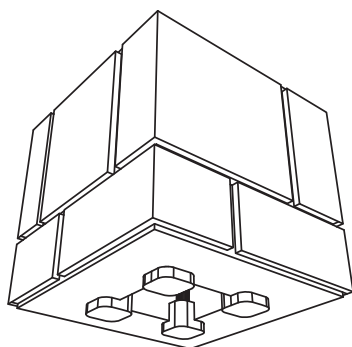
Weights and dimensions are nominal. Specifications may change. Verify exact information with your local producer.

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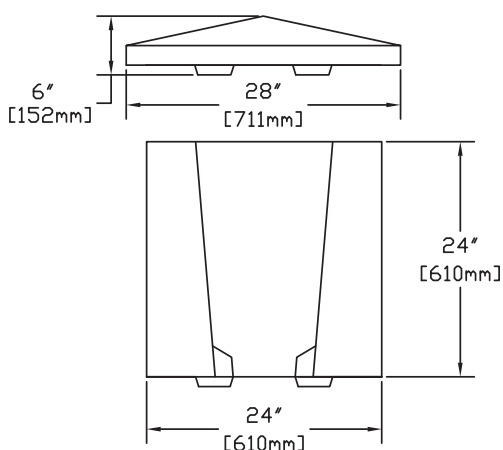
# > > > MagnumStone™ Pillar & Pillar Cap Unit



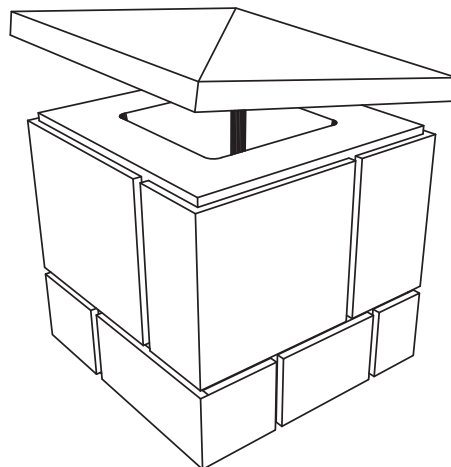
>>>ISOMETRIC BOTTOM VIEW



>>>ISOMETRIC TOP VIEW

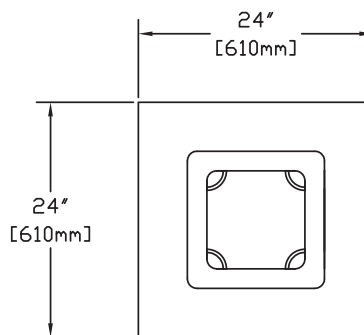


>>>SIDE VIEW



## Dimensions

Face Widths	24"	610mm
Height	24"	610mm
Face Area	4 sq ft	0.37 sq m
Batter	0°	0"/Unit
Weight	870lbs	394Kg

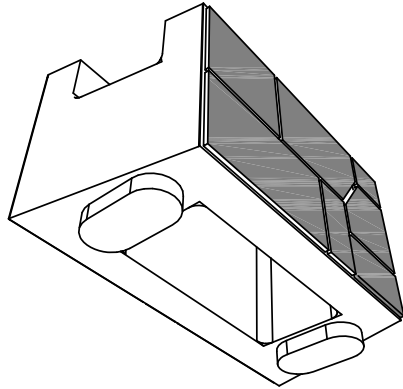


>>> TOP VIEW

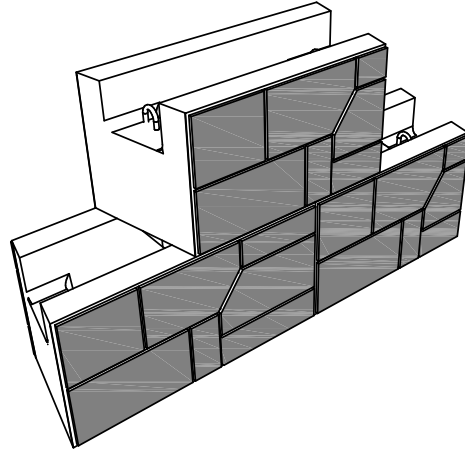
Weights and dimensions are nominal. Specifications may change. Verify exact information with your local producer.

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# > > > MagnumStone™ Double Sided Unit

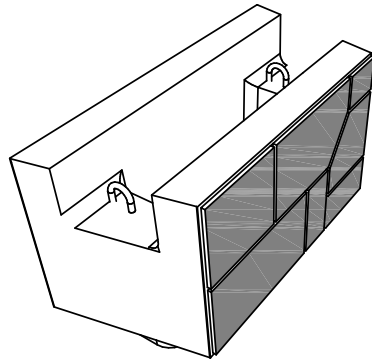


>>>> ISOMETRIC BOTTOM VIEW

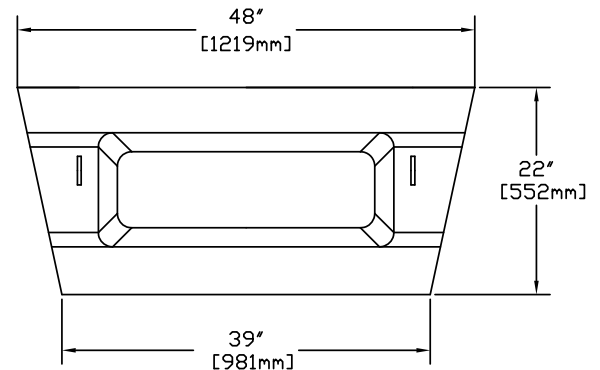
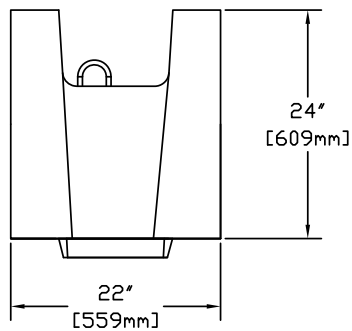


## Dimensions

Face Width	48"	1219mm
Back Width	39"	991mm
Depth	22"	559mm
Height	24"	610mm
Face Area	4 sq ft	0.37sq m
Vertical	0°	0"/Unit
Weight	1345lbs	625Kg



>>>> ISOMETRIC TOP VIEW



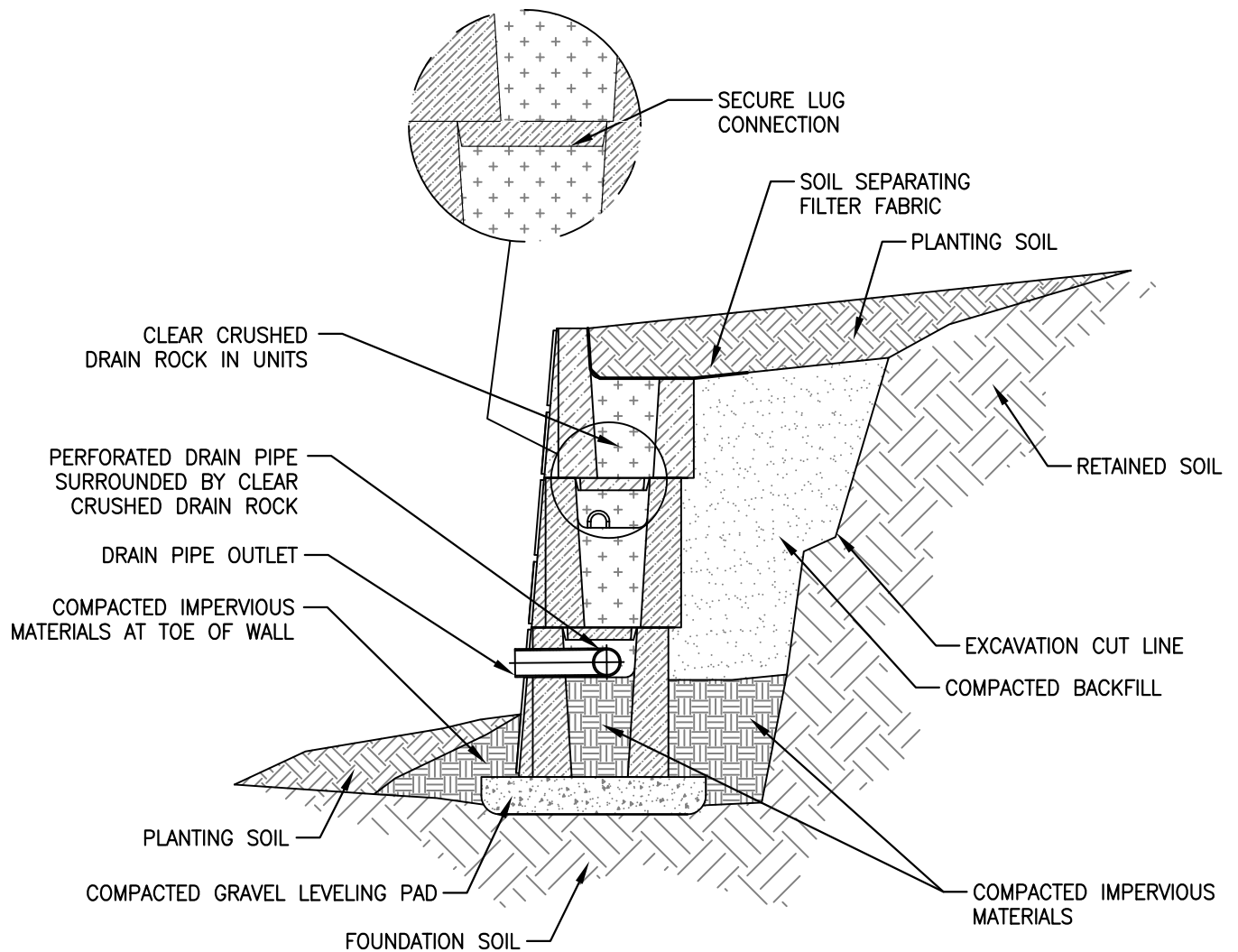
>>>> SIDE VIEW

>>>> TOP VIEW

Weights and dimensions are nominal. Specifications may change. Verify exact information with your local producer.

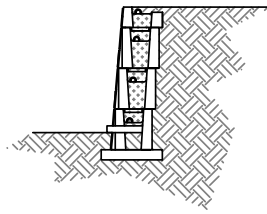
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# > > > MagnumStone™ Gravity Wall

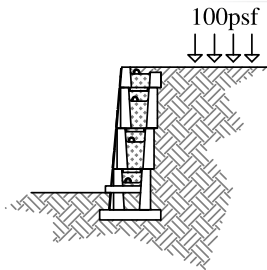




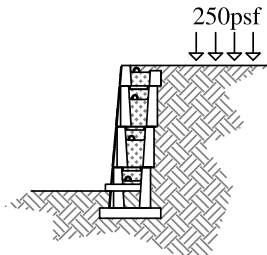
# > > > MagnumStone™ Gravity Wall Charts



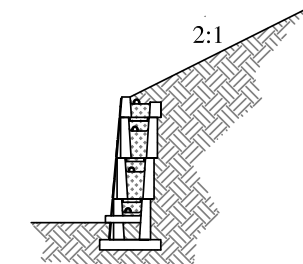
Soil Type	Height Exposed	Height Embedded	Total
AASHTO #57	8.1' (2469mm)	0.5' (152mm)	8.6' (2621mm)
34° Soil	6.6' (2012mm)	0.5' (152mm)	7.1' (2164mm)
30° Soil	5.9' (1798mm)	0.5' (152mm)	6.4' (1951mm)
26° Soil	4.9' (1494mm)	0.5' (152mm)	5.4' (1646mm)



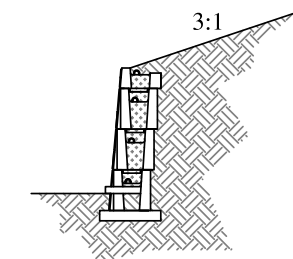
Soil Type	Height Exposed	Height Embedded	Total
AASHTO #57	6.6' (2012mm)	0.5' (152mm)	7.1' (2164mm)
34° Soil	5.4' (1646mm)	0.5' (152mm)	5.9' (1798mm)
30° Soil	4.4' (1341mm)	0.5' (152mm)	4.9' (1494mm)
26° Soil	3.3' (1006mm)	0.5' (152mm)	3.8' (1158mm)



Soil Type	Height Exposed	Height Embedded	Total
AASHTO #57	4.9' (1494mm)	0.5' (152mm)	5.4' (1646mm)
34° Soil	3.3' (1006mm)	0.5' (152mm)	3.8' (1158mm)
30° Soil	2.0' (610mm)	0.5' (152mm)	2.5' (762mm)
26° Soil	0.9' (274mm)	0.5' (152mm)	1.4' (427mm)



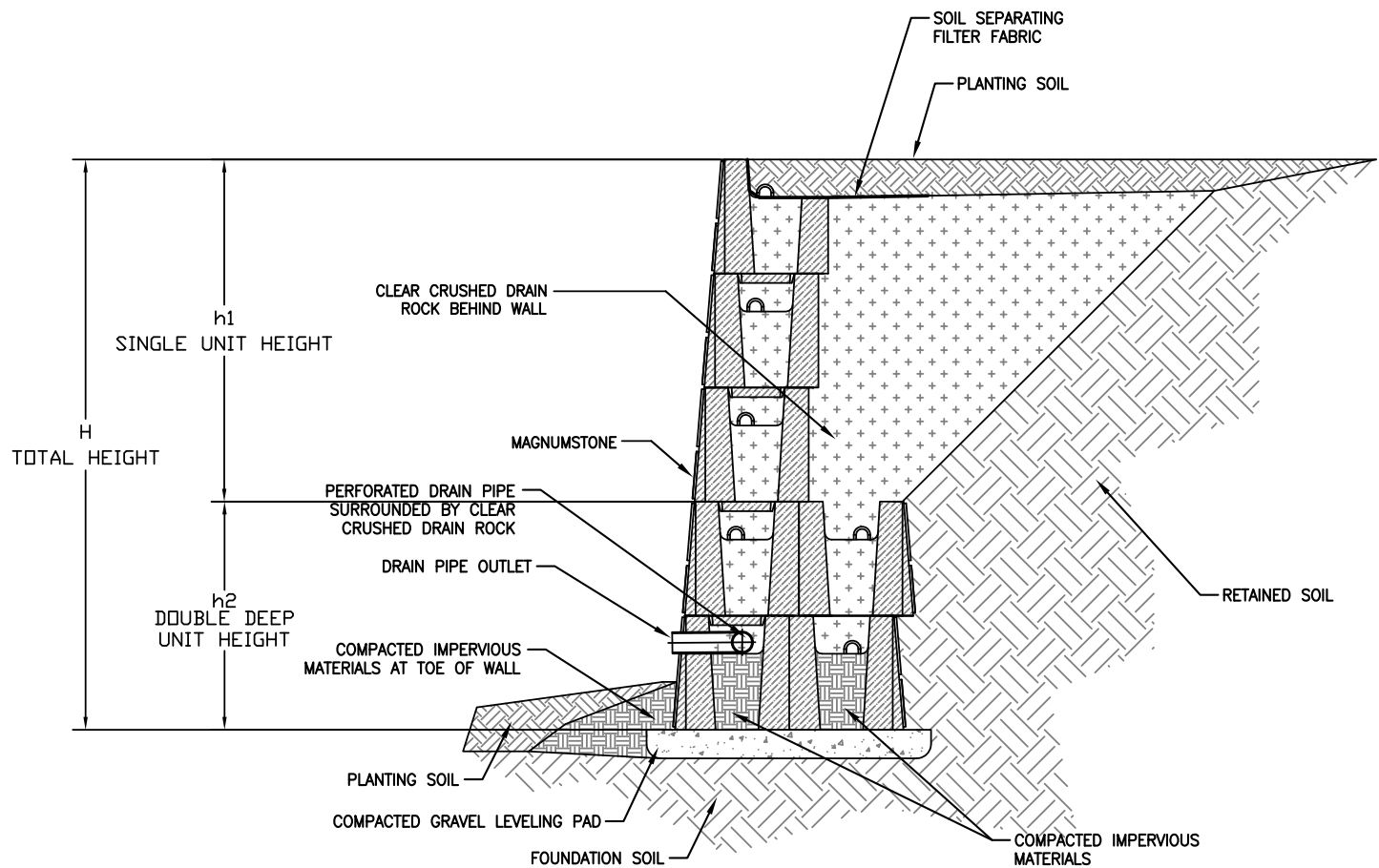
Soil Type	Height Exposed	Height Embedded	Total
AASHTO #57	6.5' (1981mm)	0.5' (152mm)	7.0' (2134mm)
34° Soil	4.5' (1372mm)	0.5' (152mm)	5.0' (1524mm)
30° Soil	3.2' (975mm)	0.5' (152mm)	3.7' (1128mm)
26° Soil			



Soil Type	Height Exposed	Height Embedded	Total
AASHTO #57	7.1' (2164mm)	0.5' (152mm)	7.6' (2316mm)
34° Soil	5.6' (1707mm)	0.5' (152mm)	6.1' (1859mm)
30° Soil	4.4' (1341mm)	0.5' (152mm)	4.9' (1494mm)
26° Soil	3.3' (1006mm)	0.5' (152mm)	3.8' (1158mm)

**DISCLAIMER.** This chart is for initial estimation purposes only. Do not use for final design or construction. Retain a licensed professional engineer to design every wall on a case-by-case basis using site specific criteria. The accuracy and use of this document are the sole responsibility of the user. All calculations were performed based on NCMA methodology using factors of safety of 1.5 for sliding and overturning. The bearing capacity of base soils will be no less than 3,000 pounds per square foot (psf). All soils have been assumed to be less than 125 pounds per cubic foot (pcf). Global Stability Analysis has not been performed.

# > > > MagnumStone™ Double Deep Gravity Wall



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# > > > MagnumStone™ Double Deep Gravity Wall Charts

## Lower Tier (AASHTO #57) Upper Tier (AASHTO #57)

$\phi_{\text{soil}} = 38^\circ$  (min.)

$\phi_{\text{soil}} = 38^\circ$  (min.)

$\gamma_{\text{soil}} = 110\text{pcf}$  (max.)

$\gamma_{\text{soil}} = 110\text{pcf}$  (max.)

### No Slope, No Load

H	h1	h2
16' (4877mm)	0' (0mm)	16' (4877mm)
14' (4267mm)	2' (610mm)	12' (3658mm)
12' (3658mm)	5' (1524mm)	7' (2134mm)
10' (3048mm)	8' (2438mm)	3' (914mm)
9' (2134mm)	9' (2134mm)	0' (0mm)

### 2:1 Slope, No Load

H	h1	h2
14' (4267mm)	0' (0mm)	14' (4267mm)
12' (3658mm)	1' (305mm)	11' (3353mm)
10' (3048mm)	4' (1219mm)	6' (1829mm)
8' (2438mm)	6' (1829mm)	2' (610mm)
7' (2134mm)	7' (2134mm)	0' (0mm)

### 3:1 Slope, No Load

H	h1	h2
15' (4572mm)	0' (0mm)	15' (4572mm)
14' (4267mm)	0' (0mm)	14' (4267mm)
12' (3658mm)	3' (914mm)	9' (2743mm)
10' (3048mm)	5' (1524mm)	5' (1524mm)
8' (2438mm)	7' (2134mm)	1' (305mm)
8' (2438mm)	8' (2438mm)	0' (0mm)

### No Slope, 100psf Load

H	h1	h2
16' (4877mm)	0' (0mm)	16' (4877mm)
14' (4267mm)	1' (305mm)	13' (3962mm)
12' (3658mm)	3' (914mm)	9' (2743mm)
10' (3048mm)	6' (1829mm)	5' (1524mm)
8' (2438mm)	7' (2134mm)	1' (305mm)
7' (2134mm)	7' (2134mm)	0' (0mm)

### No Slope, 250psf Load

H	h1	h2
14' (4267mm)	0' (0mm)	14' (4267mm)
12' (3658mm)	1' (305mm)	11' (3353mm)
10' (3048mm)	3' (914mm)	7' (2134mm)
8' (2438mm)	5' (1524mm)	3' (914mm)
6' (1829mm)	6' (1829mm)	0' (0mm)
5' (1524mm)	5' (1524mm)	0' (0mm)

## Lower Tier

$\phi_{\text{soil}} = 30^\circ$  (min.)

$\gamma_{\text{soil}} = 125\text{pcf}$  (max.)

## Upper Tier (AASHTO #57)

$\phi_{\text{soil}} = 38^\circ$  (min.)

$\gamma_{\text{soil}} = 110\text{pcf}$  (max.)

### No Slope, No Load

H	h1	h2
13' (3962mm)	0' (0mm)	13' (3962mm)
12' (3658mm)	2' (610mm)	10' (3048mm)
10' (3048mm)	4' (1219mm)	6' (1829mm)
8' (2438mm)	6' (1829mm)	3' (914mm)
6' (1829mm)	6' (1829mm)	0' (0mm)

### 2:1 Slope, No Load

H	h1	h2
7' (2134mm)	0' (0mm)	7' (2134mm)
7' (2134mm)	3' (914mm)	4' (1219mm)
6' (1829mm)	4' (1219mm)	2' (610mm)
4' (1219mm)	4' (1219mm)	1' (305mm)
4' (1219mm)	4' (1219mm)	0' (mm)

### 3:1 Slope, No Load

H	h1	h2
10' (3048mm)	0' (0mm)	10' (3048mm)
8' (2438mm)	4' (1219mm)	4' (1219mm)
6' (1829mm)	5' (1524mm)	1' (305mm)
5' (1524mm)	5' (1524mm)	0' (0mm)

### No Slope, 100psf Load


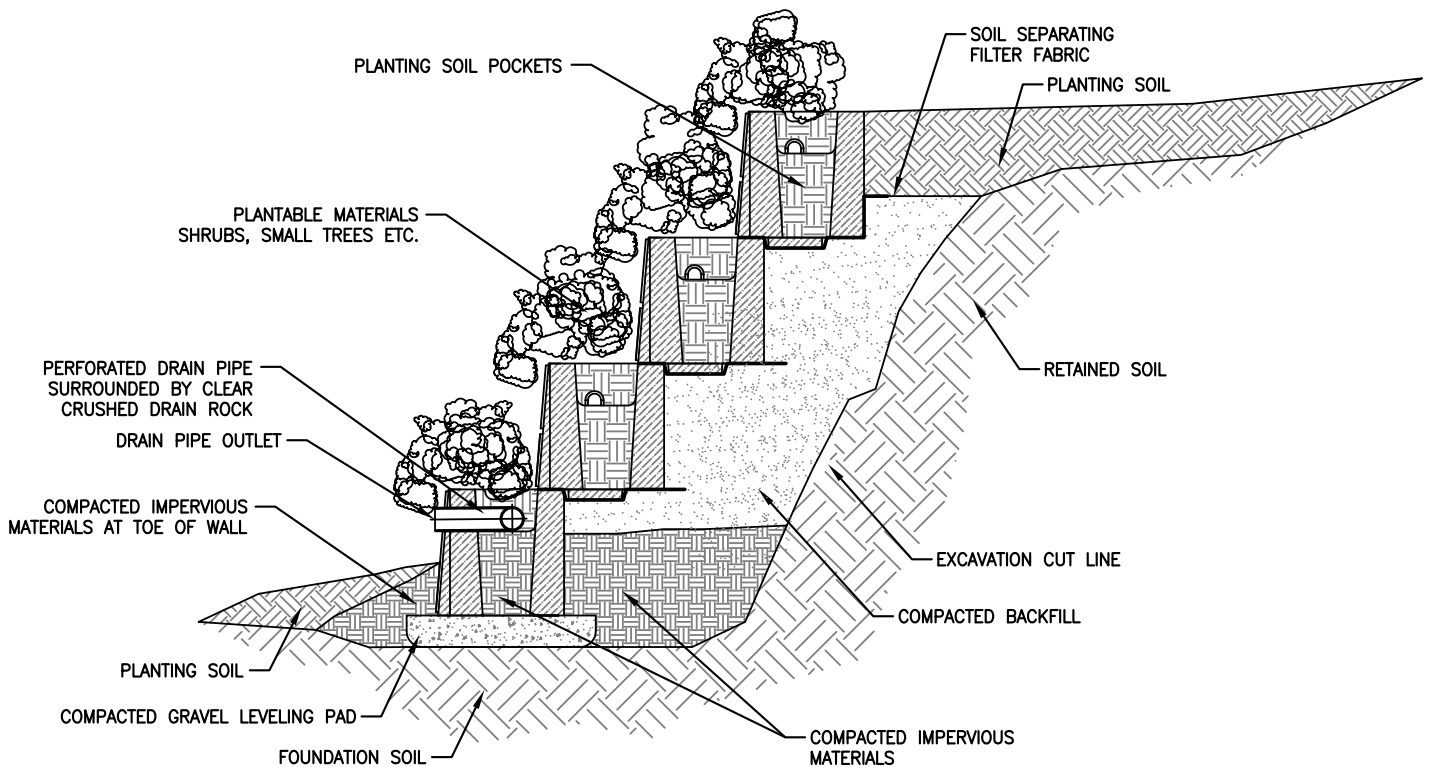
H	h1	h2
11' (3353mm)	0' (0mm)	11' (3353mm)
10' (3048mm)	1' (305mm)	9' (2743mm)
8' (2438mm)	4' (1219mm)	4' (1219mm)
6' (1829mm)	5' (1524mm)	1' (305mm)
5' (1524mm)	5' (1524mm)	0' (0mm)

### No Slope, 250psf Load

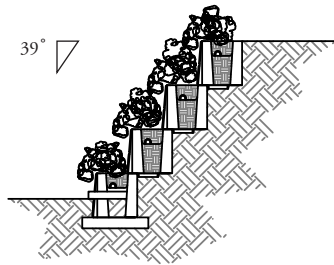
H	h1	h2
9' (2743mm)	0' (0mm)	9' (2743mm)
8' (2438mm)	3' (914mm)	5' (1524mm)
6' (1829mm)	4' (1219mm)	2' (610mm)
4' (1219mm)	3' (914mm)	1' (305mm)
3' (914mm)	3' (914mm)	0' (0mm)

# > > > MagnumStone™ 2.0 Ft Plantable Wall

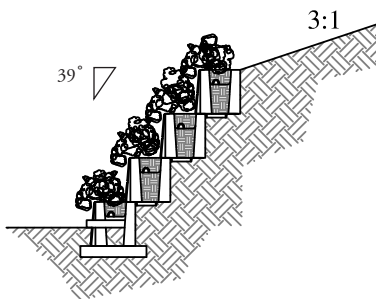
39°

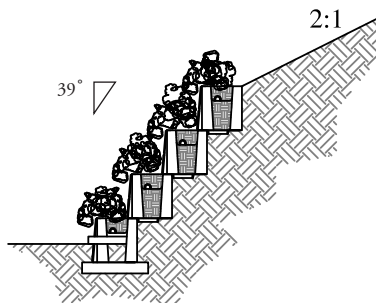
# > > > MagnumStone™ 2.0 Ft Plantable Wall Charts



Soil Type	Height Exposed	Height Embedded	Total
34° Soil	20.9' (6370mm)	1.1' (335mm)	22.0' (6706mm)
30° Soil	20.9' (6370mm)	1.1' (335mm)	22.2' (6767mm)
26° Soil	14.5' (4420mm)	0.8' (244mm)	15.3' (4663mm)



Soil Type	Height Exposed	Height Embedded	Total
34° Soil	20.9' (6370mm)	1.1' (335mm)	22.0' (6706mm)
30° Soil	17.8' (5425mm)	1.0' (305mm)	18.8' (5730mm)
26° Soil	10.8' (3292mm)	0.6' (183mm)	11.4' (3475mm)

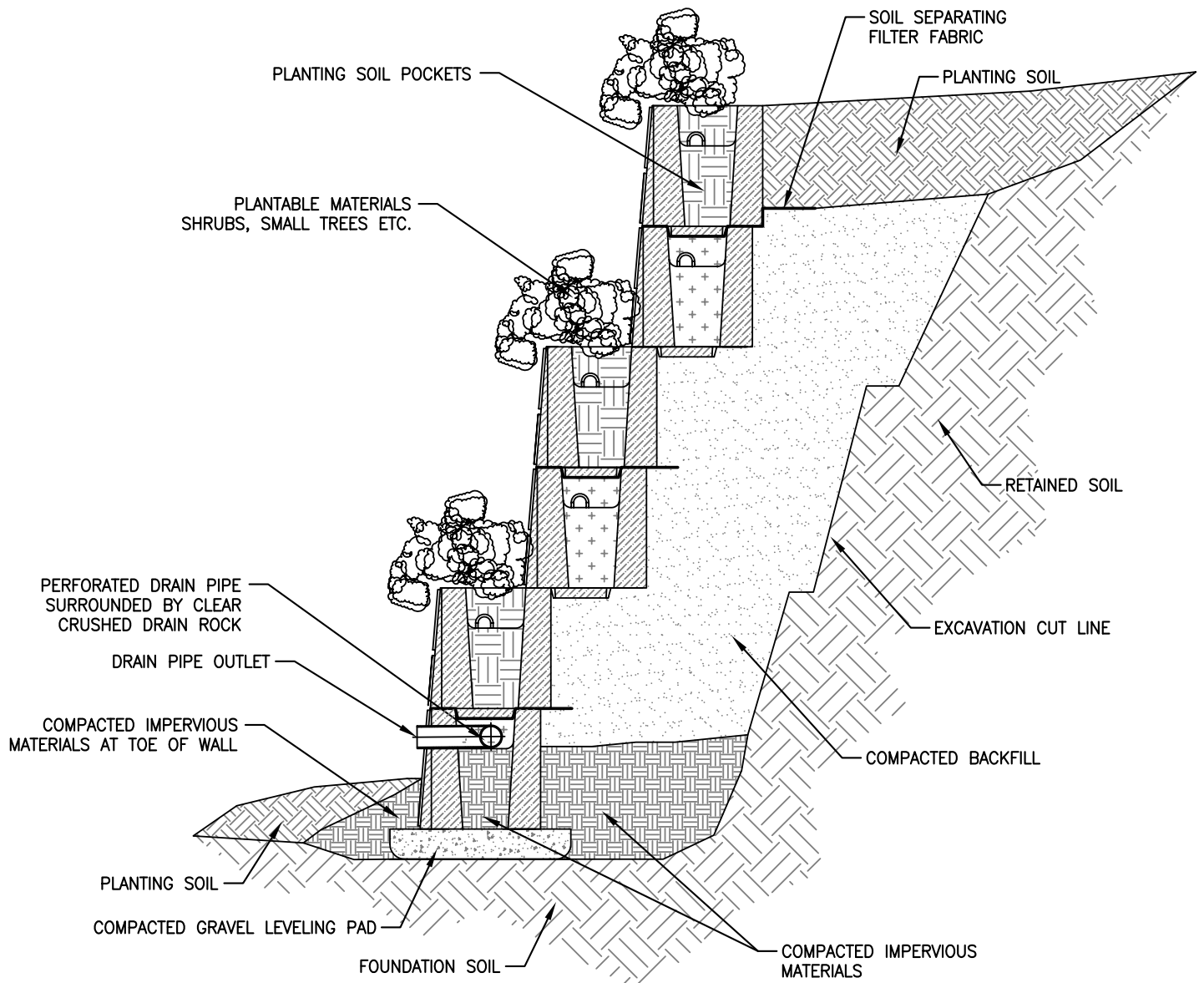


Soil Type	Height Exposed	Height Embedded	Total
34° Soil	20.9' (6370mm)	1.1' (335mm)	22.0' (6706mm)
30° Soil	13.4' (4084mm)	0.8' (244mm)	14.2' (4328mm)
26° Soil	N/A	N/A	N/A

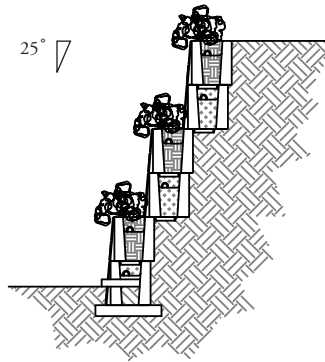
**DISCLAIMER.** This chart is for initial estimation purposes only. Do not use for final design or construction. Retain a licensed professional engineer to design every wall on a case-by-case basis using site specific criteria. The accuracy and use of this document are the sole responsibility of the user. All calculations were performed based on NCMA methodology using factors of safety of 1.5 for sliding and overturning. The bearing capacity of base soils will be no less than 3,000 pounds per square foot (psf). All soils have been assumed to be less than 125 pounds per cubic foot (pcf). Global Stability Analysis has not been performed.

# > > > MagnumStone™ 4.0 Ft Plantable Wall

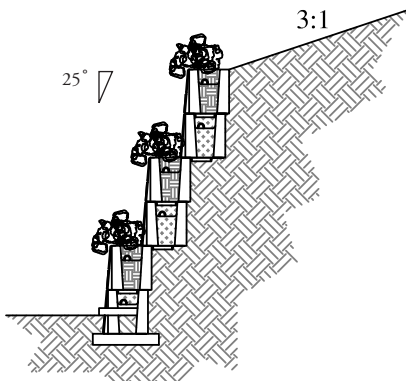
25° ▽



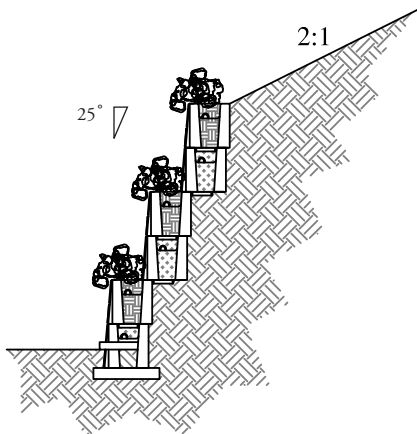
# > > > MagnumStone™ 4.0 Ft Plantable Wall Charts



Soil Type	Height Exposed	Height Embedded	Total
34° Soil	14.5' (4420mm)	0.8' (244mm)	15.3' (4663mm)
30° Soil	10.8' (3292mm)	0.6' (183mm)	11.4' (3475mm)
26° Soil	8.1' (2469mm)	0.5' (152mm)	8.6' (2621mm)



Soil Type	Height Exposed	Height Embedded	Total
34° Soil	11.8' (3597mm)	0.7' (213mm)	12.5' (3810mm)
30° Soil	8.4' (2560mm)	0.5' (152mm)	8.9' (2713mm)
26° Soil	5.8' (1768mm)	0.5' (152mm)	6.3' (1920mm)

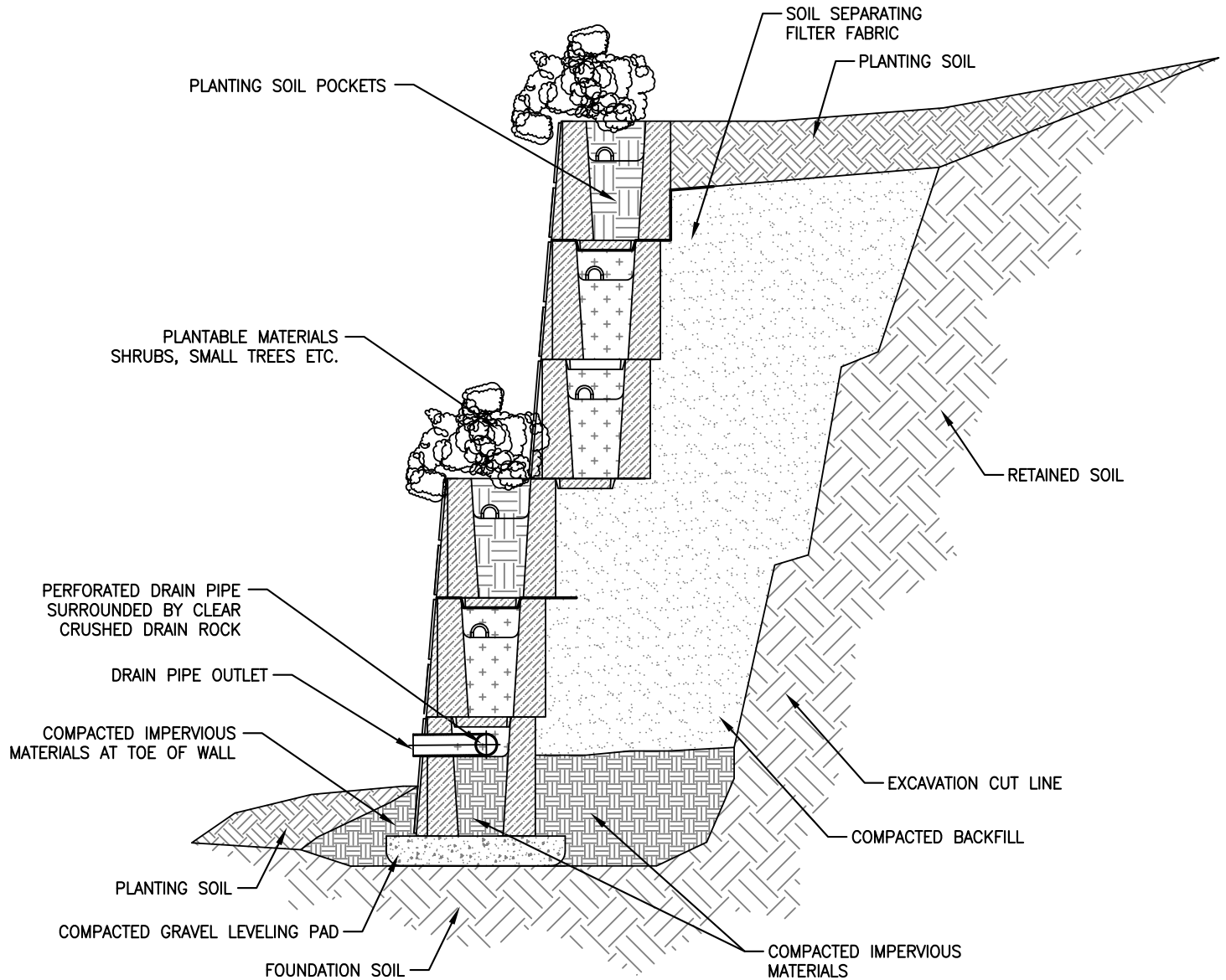


Soil Type	Height Exposed	Height Embedded	Total
34° Soil	9.8' (2987mm)	0.6' (183mm)	10.4' (3170mm)
30° Soil	6.2' (1890mm)	0.5' (152mm)	6.7' (2042mm)
26° Soil	N/A	N/A	N/A

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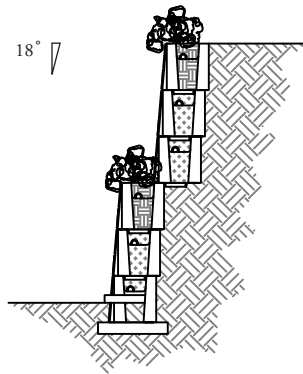
# > > > MagnumStone™ 6.0 Ft Plantable Wall

18°

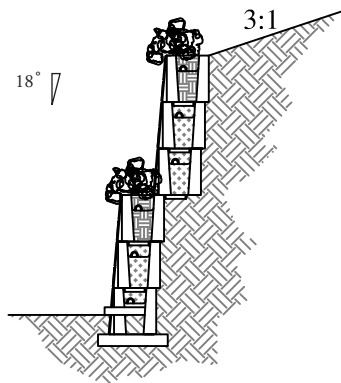




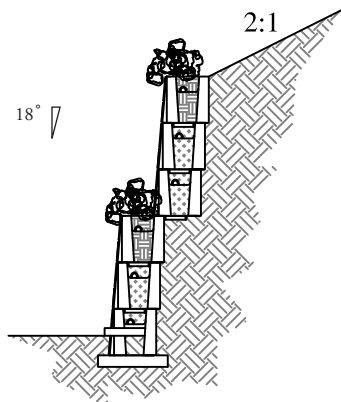
# > > > MagnumStone™ 6.0 Ft Plantable Wall Charts



Soil Type	Height Exposed	Height Embedded	Total
34° Soil	10.9' (3322mm)	0.6' (183mm)	11.5' (3505mm)
30° Soil	8.5' (2591mm)	0.5' (152mm)	9.0' (2743mm)
26° Soil	6.6' (2012mm)	0.5' (152mm)	7.1' (2164mm)



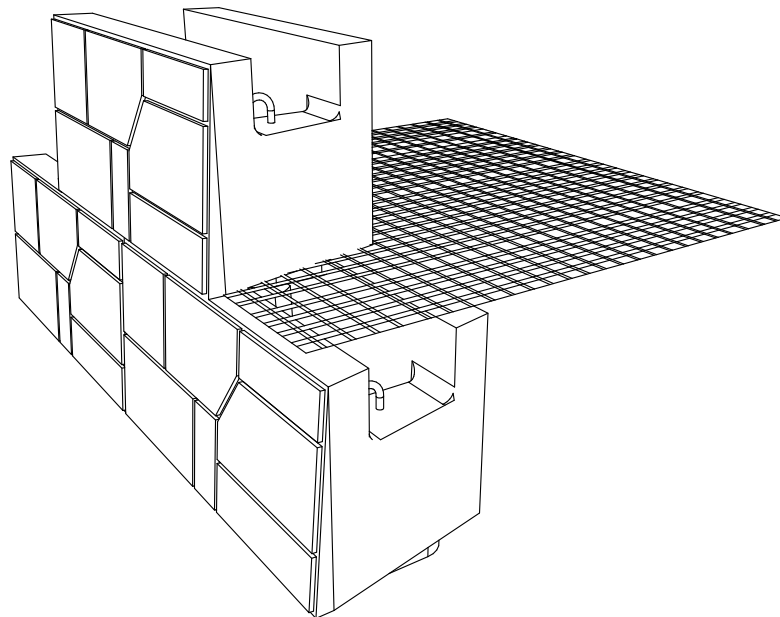
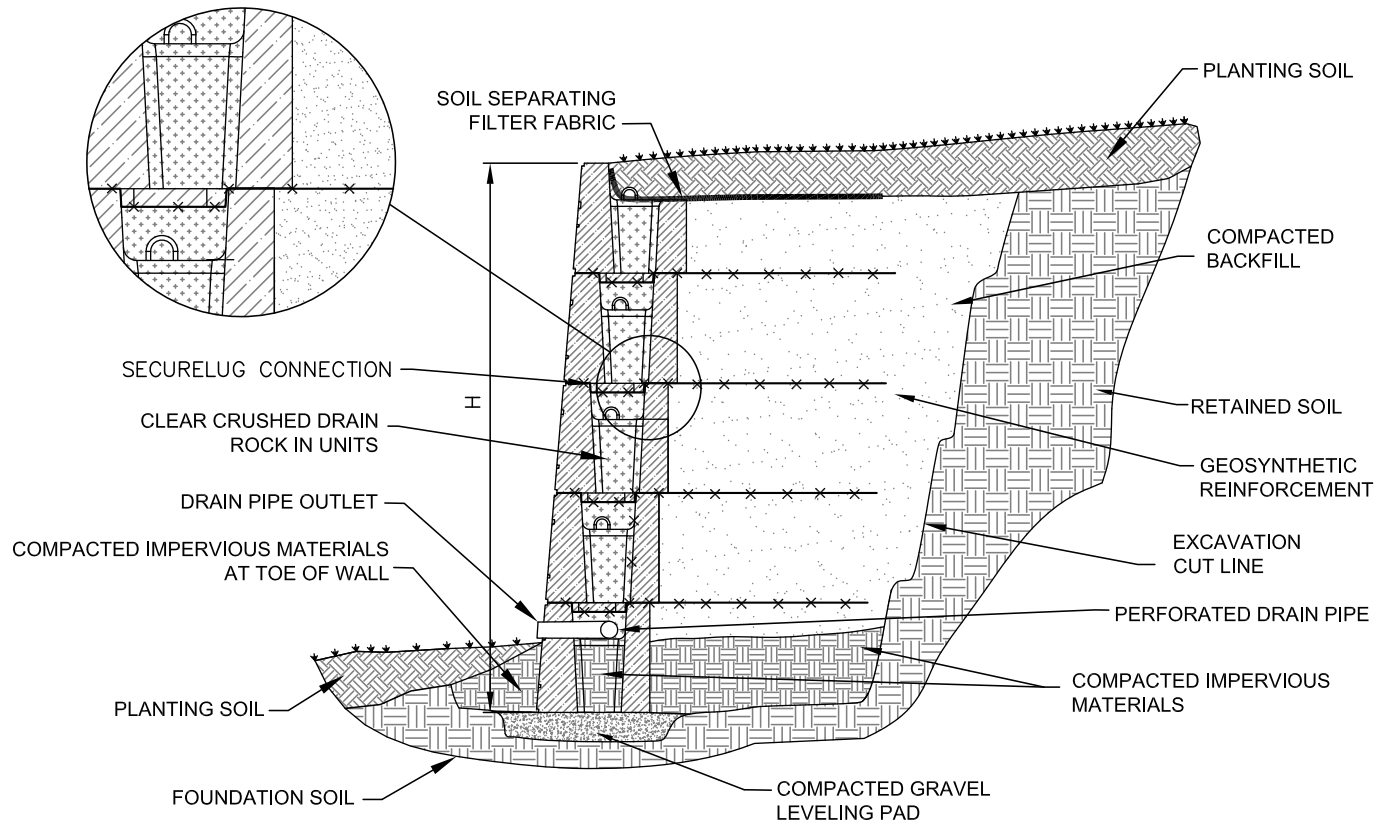
Soil Type	Height Exposed	Height Embedded	Total
34° Soil	8.8' (2682mm)	0.5' (152mm)	9.3' (2835mm)
30° Soil	6.4' (1951mm)	0.5' (152mm)	6.9' (2103mm)
26° Soil	4.7' (1433mm)	0.5' (152mm)	5.2' (1586mm)



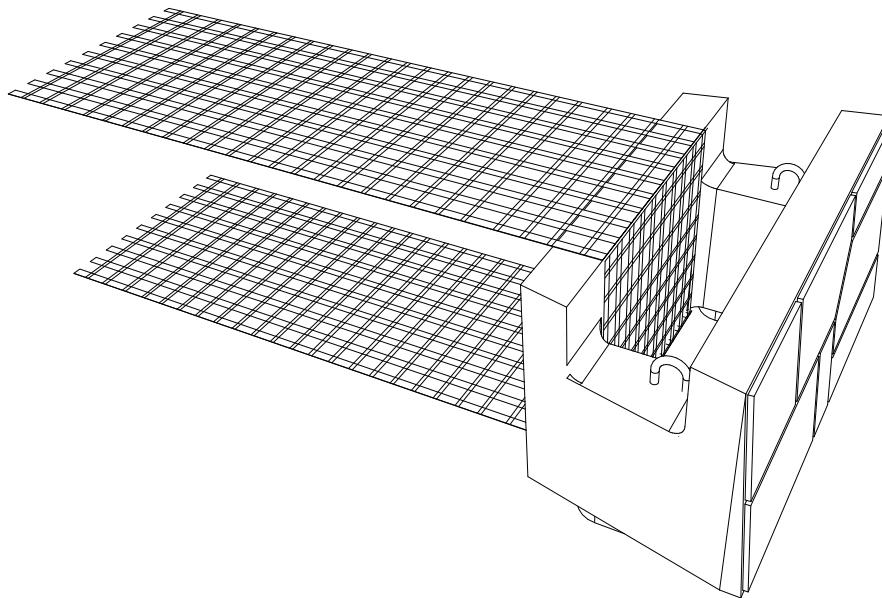
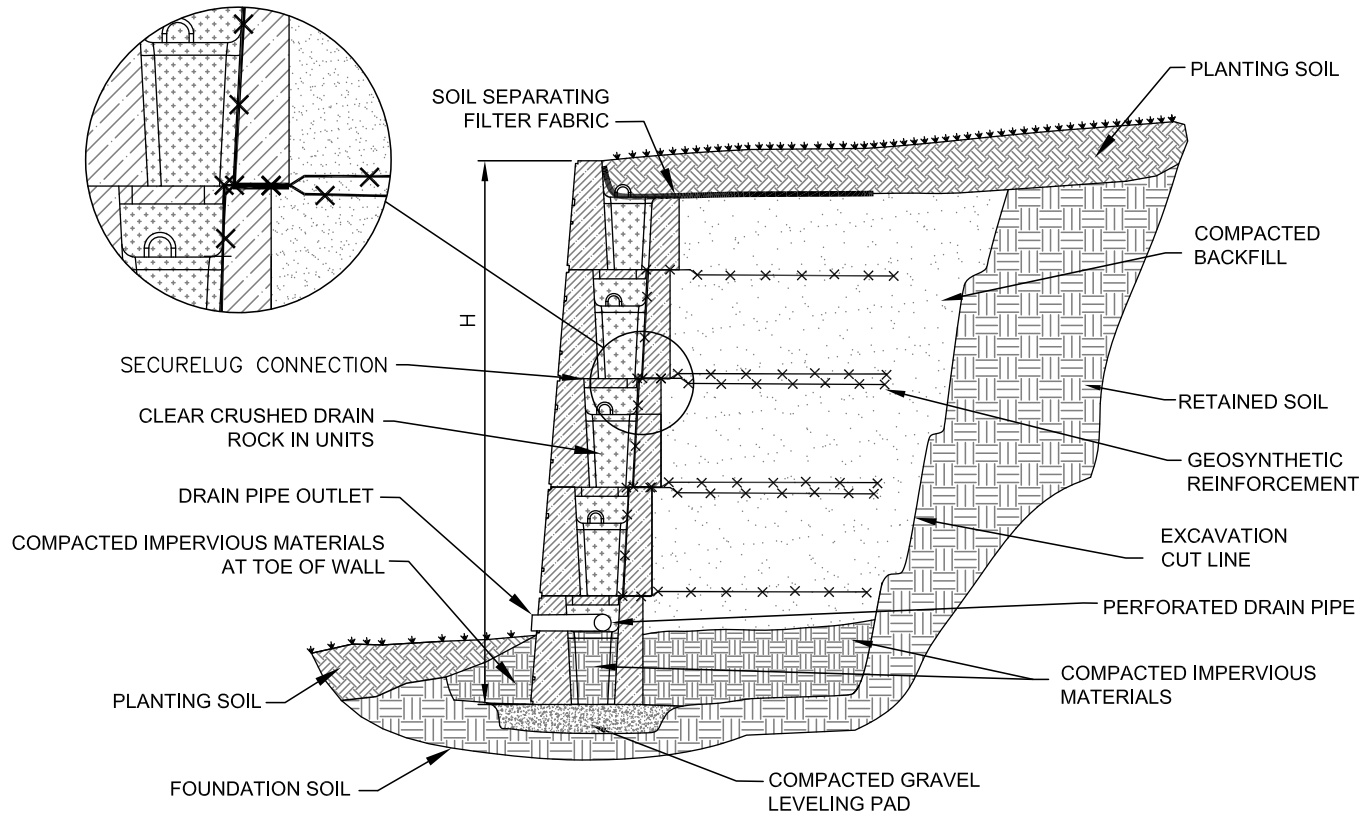
Soil Type	Height Exposed	Height Embedded	Total
34° Soil	7.2' (2195mm)	0.5' (152mm)	7.7' (2347mm)
30° Soil	4.8' (1463mm)	0.5' (152mm)	5.3' (1615mm)
26° Soil	N/A	N/A	N/A

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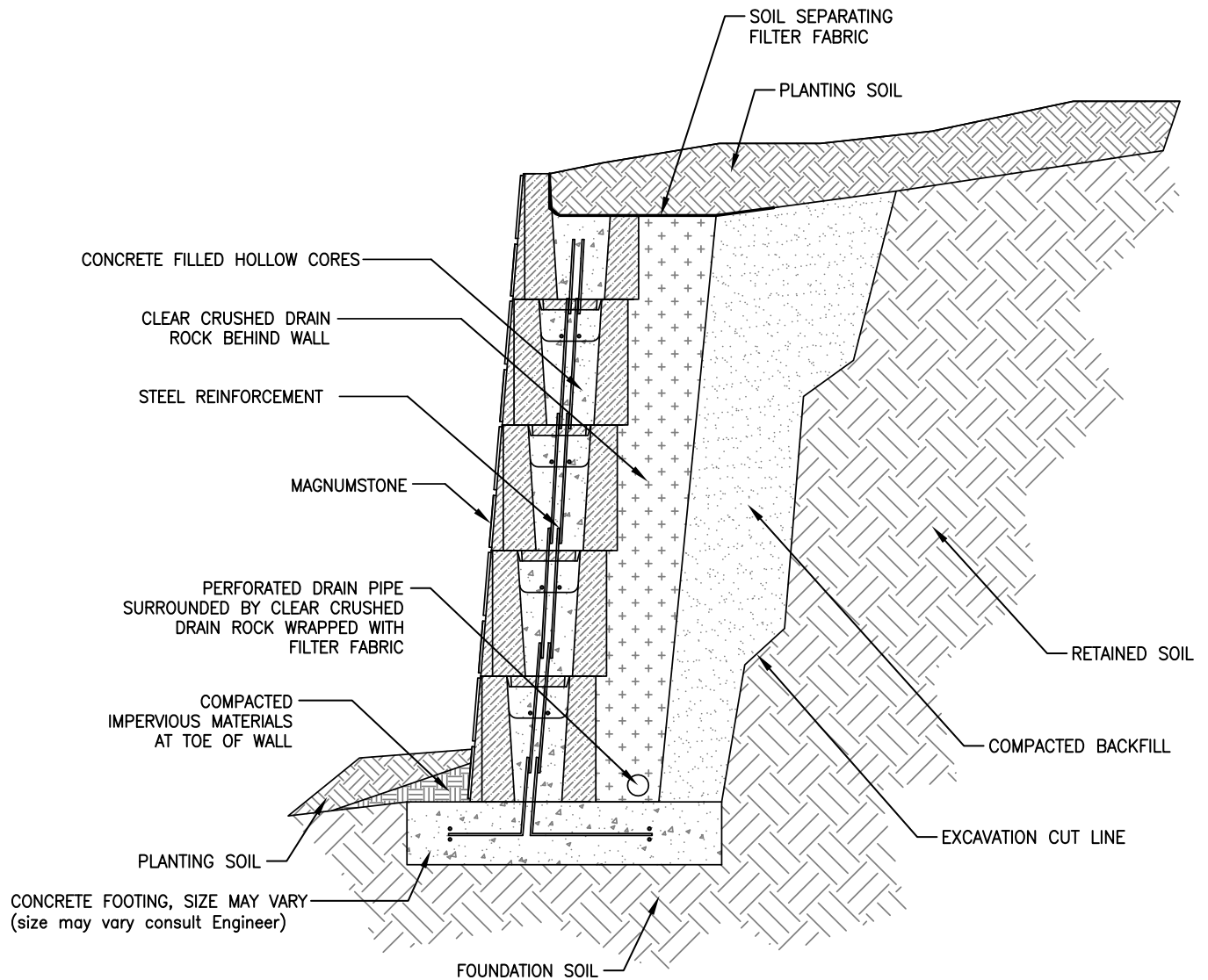
# > > > MagnumStone™ Geogrid Friction Wall



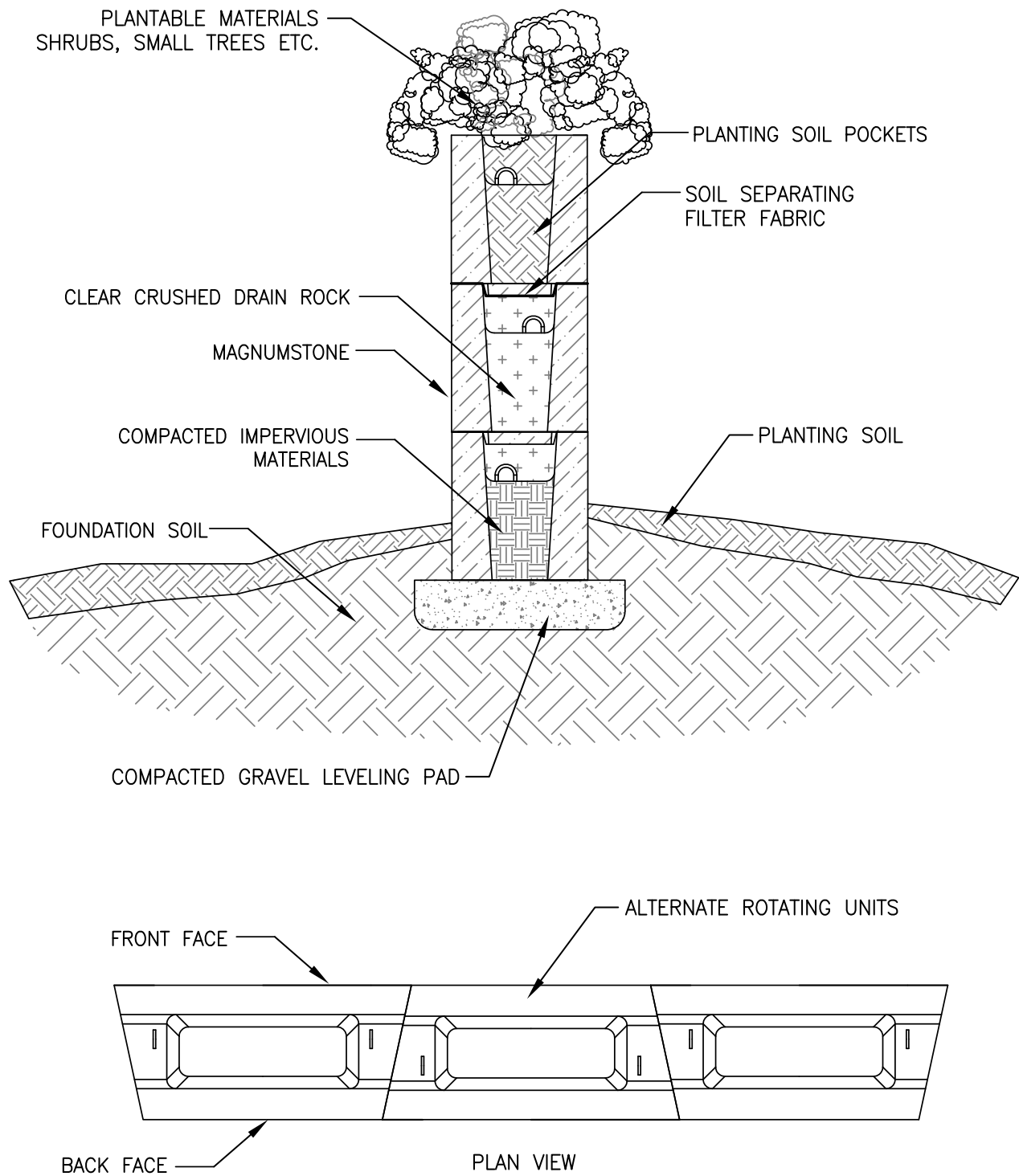
# > > > MagnumStone™ Positive Connection Wall



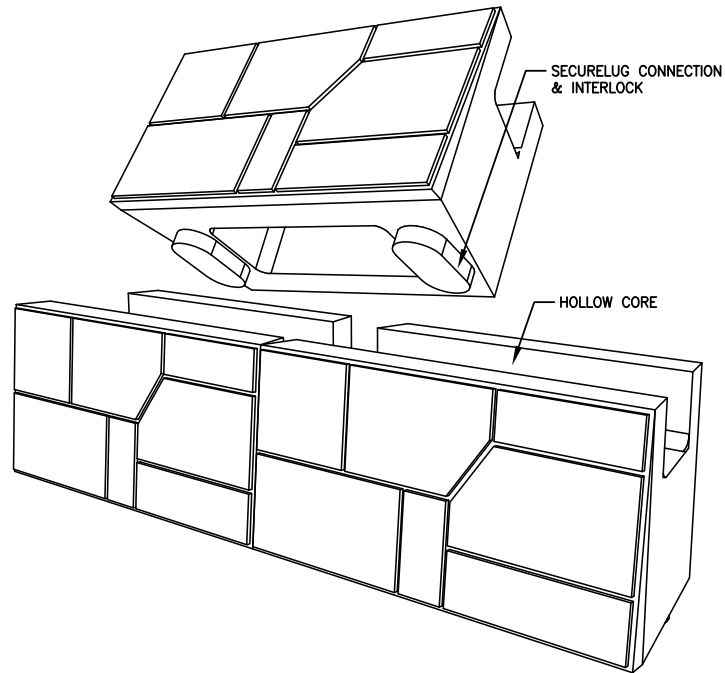
# > > > MagnumStone™ Steel/Concrete Wall



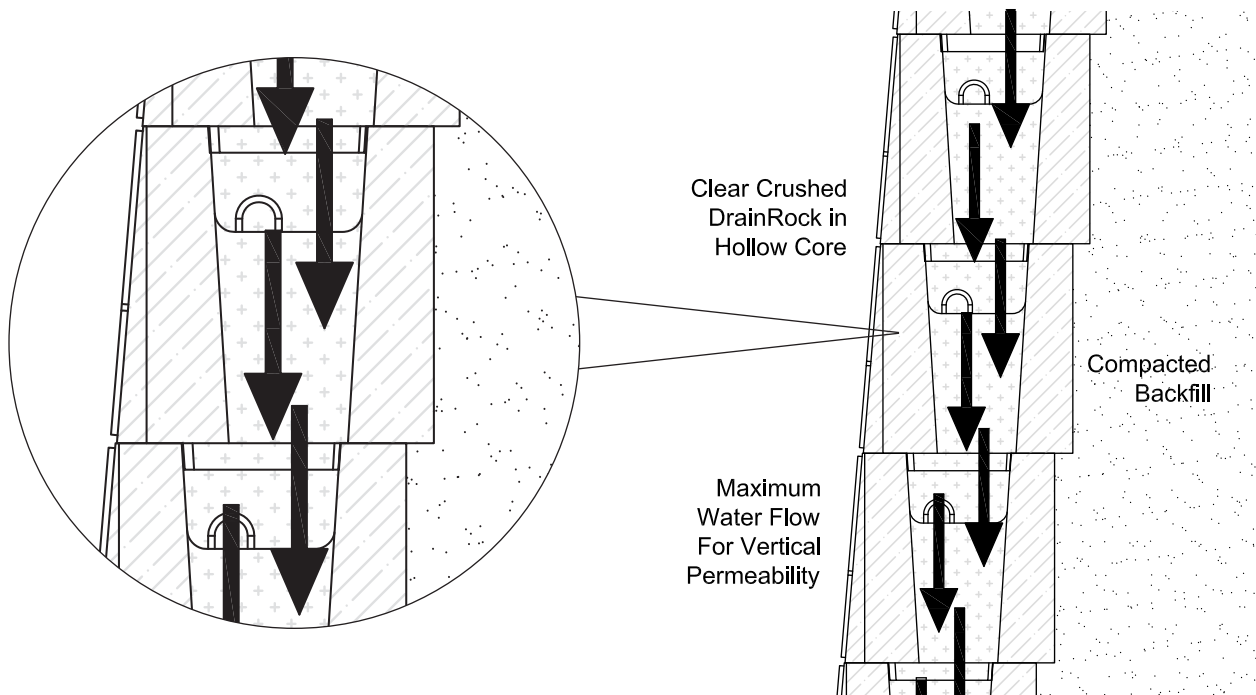
# > > > MagnumStone™ Free Standing Double Sided Wall



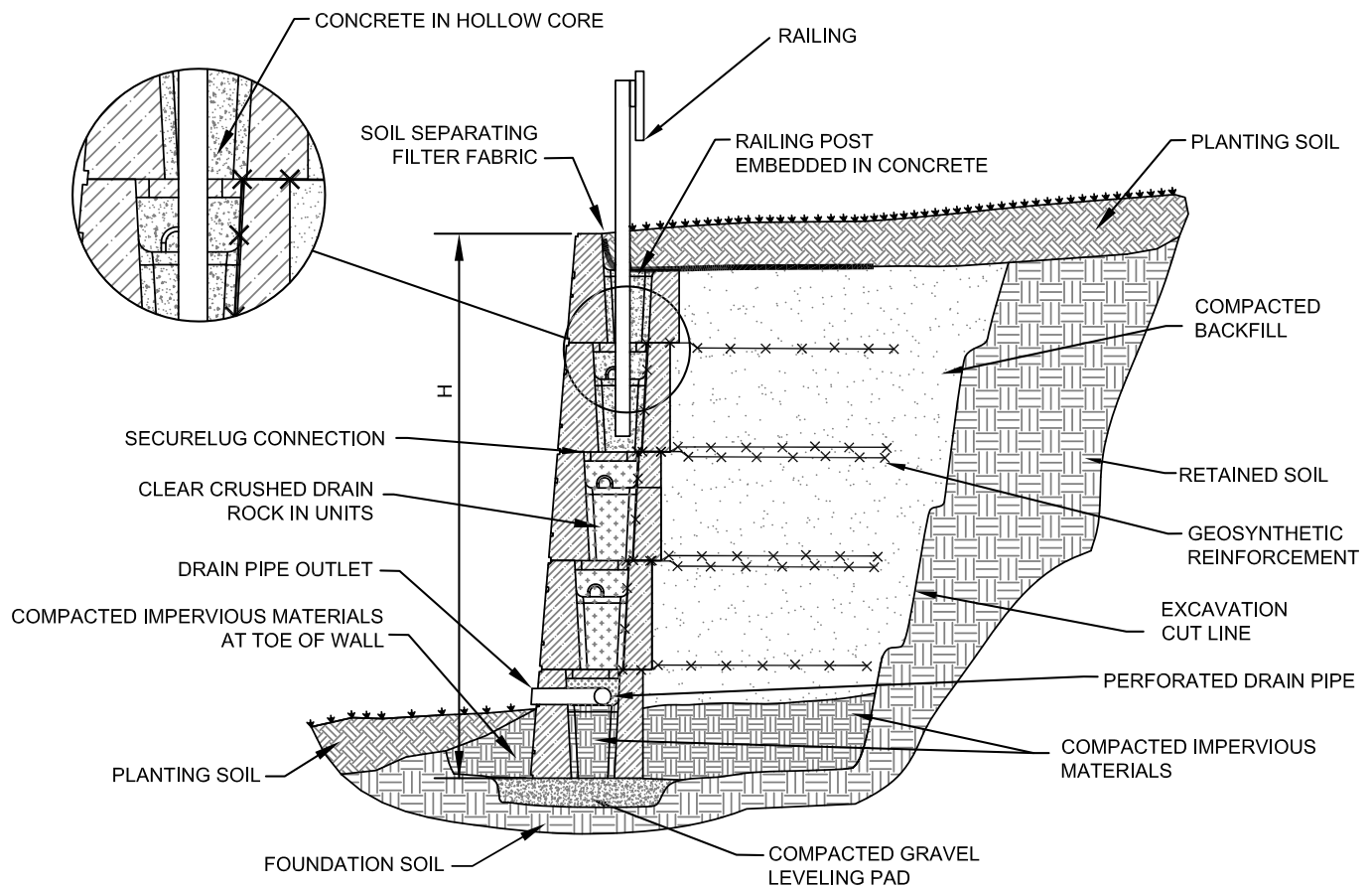
## >>>INTERLOCK



## >>>VERTICAL PERMEABILITY



# > > > MagnumStone™ Top of Wall Detail



## MAGNUMSTONE™ MARKETING MATERIALS

If you require more information on MagnumStone™ please visit our website at [cornerstonewallsolutions.com](http://cornerstonewallsolutions.com).



CornerStone® Website



Installation Guide



Sustainability Brochure



General Brochure



Technical Reference



**CORNERSTONE**  
WALL SOLUTIONS INC.  
[cornerstonewallsolutions.com](http://cornerstonewallsolutions.com)

937 Fresno Pl., Coquitlam  
BC Canada V3J 6G5

TEL 604 939 7999  
FAX 604 939 4147

TOLL FREE 800 939 9193