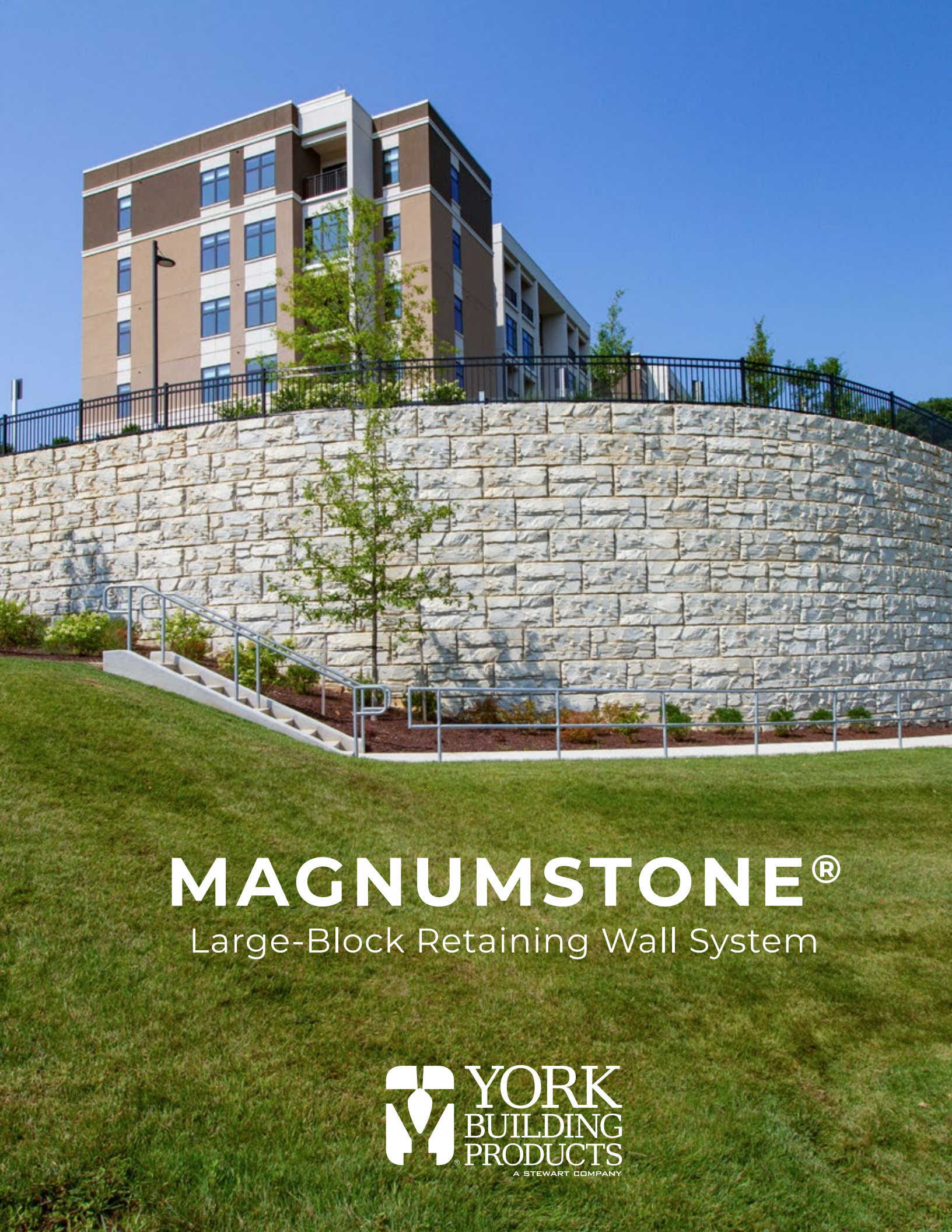


MAGNUMSTONE®

Large-Block Retaining Wall System

YORK BUILDING PRODUCTS
A STEWART COMPANY

Magnum**Stone**® Benefits

MagnumStone® is a wet-cast, large block, retaining wall system that was developed with both the engineer and contractor in mind. The 4,000 PSI concrete provides high strength, low absorption and great freeze/thaw durability. MagnumStone's horizontal and vertical hollow-core design offers many benefits and more flexibility in the field. The lightweight 1,400 pound block means that you can use smaller equipment and ship more square feet per truckload (typically 270-280sf/load). Filling the blocks with #57 stone adds additional weight and provides excellent drainage.

The continuous horizontal channel allows for lateral movement, easier construction of radii, and provides superb connection when geogrid reinforcing is used. MagnumStone's SecureLugs fit into the hollow cores of the units below, allowing significant lateral movement without losing the interlock. The full-size units are 8sf, and 4sf half-high units are used to minimize square footage by providing 1-foot steps on the base course and top course (allows wall to follow contour of grade).

Great For Tight Spaces

MagnumStone is especially effective when used as a gravity wall system where space is limited behind the wall (cannot excavate for geogrid due to site constraints). Gravity walls can typically be built up to 5'- 6' tall depending upon soil conditions and loading. Optional 2' and 4' extenders can be attached to the backs of the blocks, and even connected to each other, to allow gravity walls to be built up to any height.

Installation Advantage

A MagnumStone crew can normally install up to 800-1,200 SF of wall units per day (depending upon crew size), making this one of the quickest and easiest wall systems to build. The flexibility and ease of installation due to its light weight and hollow core, provides the end user with many options to solve nearly any wall situation.

Proven Track Record

For over a decade, MagnumStone has been used successfully in myriad applications in the US, Canada, Australia and Africa.

Its flexibility with engineering and installation have allowed it to be used in various applications: commercial, institutional, industrial, residential, streambanks, parks, trails, storm water ponds, DOT, etc.

Main Heights
Frederick, MD

Rollins Property
South Riding, VA

Tilden Middle School
Rockville, MD

Frederick County Public Schools
Frederick, MD

Magnum**Stone**® Typical Applications

Low-Height Gravity Walls

MagnumStone is a quick, easy solution for gravity walls up to 6' tall (maximum height varies depending upon actual soil conditions, loading and site geometry). A cut situation up against an adjacent property, a tree-save situation, an interference with a utility, the presence of rock, or a limit of disturbance issue are just a few of the types of site solutions that MagnumStone can solve.

Rise-Up Coffee Roasters - Easton, MD

Taller Gravity Walls

When you need to go taller than 6' but still cannot excavate for geogrid, then MagnumStone is the answer. 2' and/or 4' concrete extenders are installed into a dovetail shaped pocket on the back of the block reinforcing, and are connected to each other to extend the depth if necessary-- allowing gravity walls to be built up the required height. The depth at the base is typically 40%- 50% of the total wall height (varies depending upon actual soil conditions, loading and site geometry).

Takoma Park Middle School - Takoma Park, MD

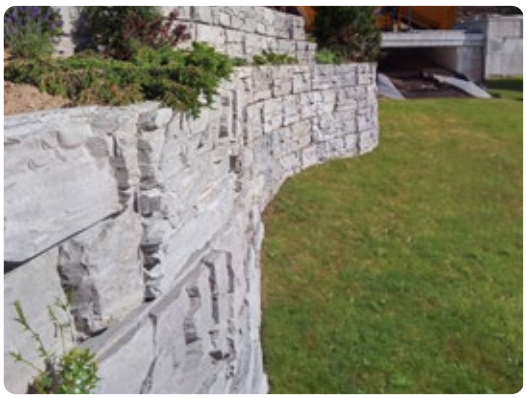
Stream Banks/Water Applications

The MagnumStone product performs very well in water applications. Wall designers and civil engineers like the mass of a large 8 SF block in active water environments and potential scour situations. The hollow core provides superior drainage and in extreme cases the system can be grouted with concrete and steel reinforced if necessary because of the horizontal and vertical openings. MagnumStone has been used effectively to rehabilitate deteriorating streambanks on many projects.

Poplar Island Spillway - Chesapeake Bay, MD

Terraces with Planters

MagnumStone's unique hollow core and lug design allows it to be built as a terraced system with planters. The lugs of the upper block are set behind the block below which creates a 12" deep plantable area. The plantable system can be built as 2' (39 degree batter), 4' (25 degree batter) or 6' (18 degree batter). This not only provides various aesthetic options, but also allows the batter to be increased if needed to build a taller gravity wall.



Private Residence - Canada

Magnum**Stone**® Project Examples- Tinted

Lakewood Country Club - Rockville, MD
Tinted in Custom color

Little Round Top - Gettysburg, PA
Tinted in Custom color

Private Residence - Camp Hill, PA
Tinted in Ash color

Miner Memorial - Frostburg, MD
Tinted in Black color

Asbury Methodist Village - Gaithersburg, MD
Tinted in Saddle color

AVAILABLE TINTING COLORS

ASH

CANYON

SADDLE

Magnum**Stone**® Project Examples- Natural

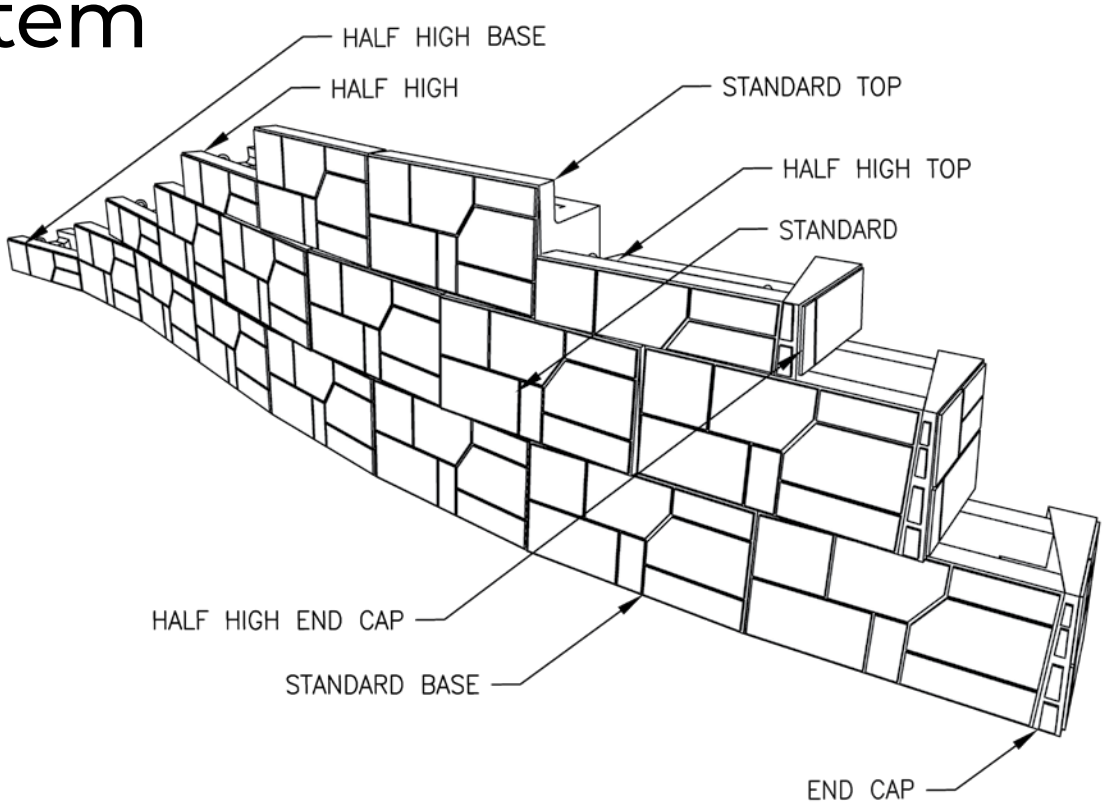
Carnegie at Washingtonian Center - Gaithersburg, MD
Natural color

Loyola-Blakefield Prep - Towson, MD
Natural color

LaVale Library - LaVale, MD
Natural color

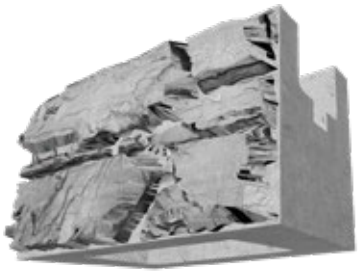
MagnumStone®

Unit System



MDSHA approved.

FULL-SIZE UNITS



BASE

Height	24"
Depth	24"
Face Width	48"
Back Width	39"
Weight	1360 lbs
Volume Voids	6.35 ft³
Gravel Fill Weight	2100 lbs
Face Area	8 sf
Batter	2.4 degrees
Setback	1" per block

STANDARD

Height	24"
Depth	24"
Face Width	48"
Back Width	39"
Weight	1420 lbs
Volume Voids	6.35 ft³
Gravel Fill Weight	2100 lbs
Face Area	8 sf
Batter	2.4 degrees
Setback	1" per block

TOP

Height	24"
Depth	24"
Face Width	48"
Back Width	39"
Weight	1270 lbs
Volume Voids	6.35 ft³
Gravel Fill Weight	2075 lbs
Face Area	8 sf
Batter	2.4 degrees
Setback	1" per block

UNIT SPECIFICATIONS

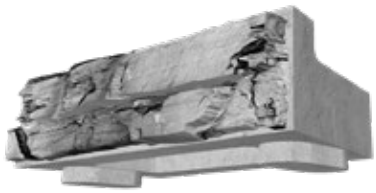
HALF-HIGH UNITS

BASE

Height	12"
Depth	24"
Face Width	48"
Back Width	39"
Weight	725 lbs
Volume Voids	3.15 ft³
Gravel Fill Weight	1075 lbs
Face Area	4 sf
Batter	2.4 degrees
Setback	½" per block

STANDARD

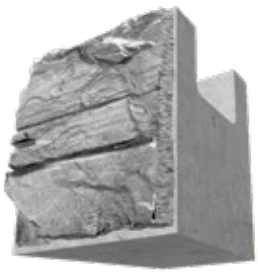
Height	12"
Depth	24"
Face Width	48"
Back Width	39"
Weight	750 lbs
Volume Voids	3.15 ft³
Gravel Fill Weight	1030 lbs
Face Area	4 sf
Batter	2.4 degrees
Setback	½" per block



TOP

Height	12"
Depth	24"
Face Width	48"
Back Width	39"
Weight	680 lbs
Volume Voids	3.15 ft³
Gravel Fill Weight	1030 lbs
Face Area	4 sf
Batter	2.4 degrees
Setback	½" per block

HALF-WIDE UNITS

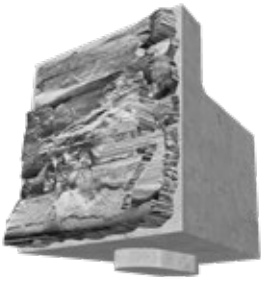


BASE

Height	24"
Depth	24"
Weight	823 lbs
Volume Voids	3.75 ft³
Gravel Fill Weight	1225 lbs
Face Area	Varies
Batter	2.4 degrees
Setback	1" per block

STANDARD

Height	24"
Depth	24"
Weight	835 lbs
Volume Voids	3.75 ft³
Gravel Fill Weight	1225 lbs
Face Area	Varies
Batter	2.4 degrees
Setback	1" per block



TOP

Height	24"
Depth	24"
Weight	760 lbs
Volume Voids	3.75 ft³
Gravel Fill Weight	1225 lbs
Face Area	Varies
Batter	2.4 degrees
Setback	1" per block

UNIT SPECIFICATIONS

CORNER UNITS

BASE

Height	24"
Depth	23"
Face Width	47"
Weight	1675 lbs
Volume Voids	4.01 ft³
Gravel Fill Weight	2056 lbs
Face Area	11.67 sf
Batter	2.4 degrees
Setback	1" per block

Available in left/right

STANDARD

Height	24"
Depth	23"
Face Width	47"
Weight	1700 lbs
Volume Voids	4.01 ft³
Gravel Fill Weight	2056 lbs
Face Area	11.67 sf
Batter	2.4 degrees
Setback	1" per block

Available in left/right

TOP

Height	24"
Depth	23"
Face Width	47"
Weight	1500 lbs
Volume Voids	4.01 ft³
Gravel Fill Weight	2056 lbs
Face Area	11.67 sf
Batter	2.4 degrees
Setback	1" per block

Available in left/right

END CAP UNITS

FULL-HEIGHT

Height	24"
Top Face Width	26"
Bottom Face Width	28"
Top Narrow Face	2"
Bottom Narrow Face	4"
Weight	340 lbs
Face Area	4.66 sf

HALF-HIGH

Height	12"
Top Face Width	27"
Bottom Face Width	28"
Top Narrow Face	3"
Bottom Narrow Face	4"
Weight	170 lbs
Face Area	2.33 sf

Easy Installation!

End caps attach to a standard block with a simple bolt and loop mechanism to form a clean corner.
End caps also finish off the ends of the blocks on step-downs and step-ups on top of the wall.

UNIT SPECIFICATIONS

TOP CAP / STEP UNITS

Height	6"
Width	48"
Depth	26"
Weight	650 lbs
Face Area	2 sf

TOP CAP / STEP*

*Special order unit- lead times may apply.

DOUBLE-SIDED UNITS

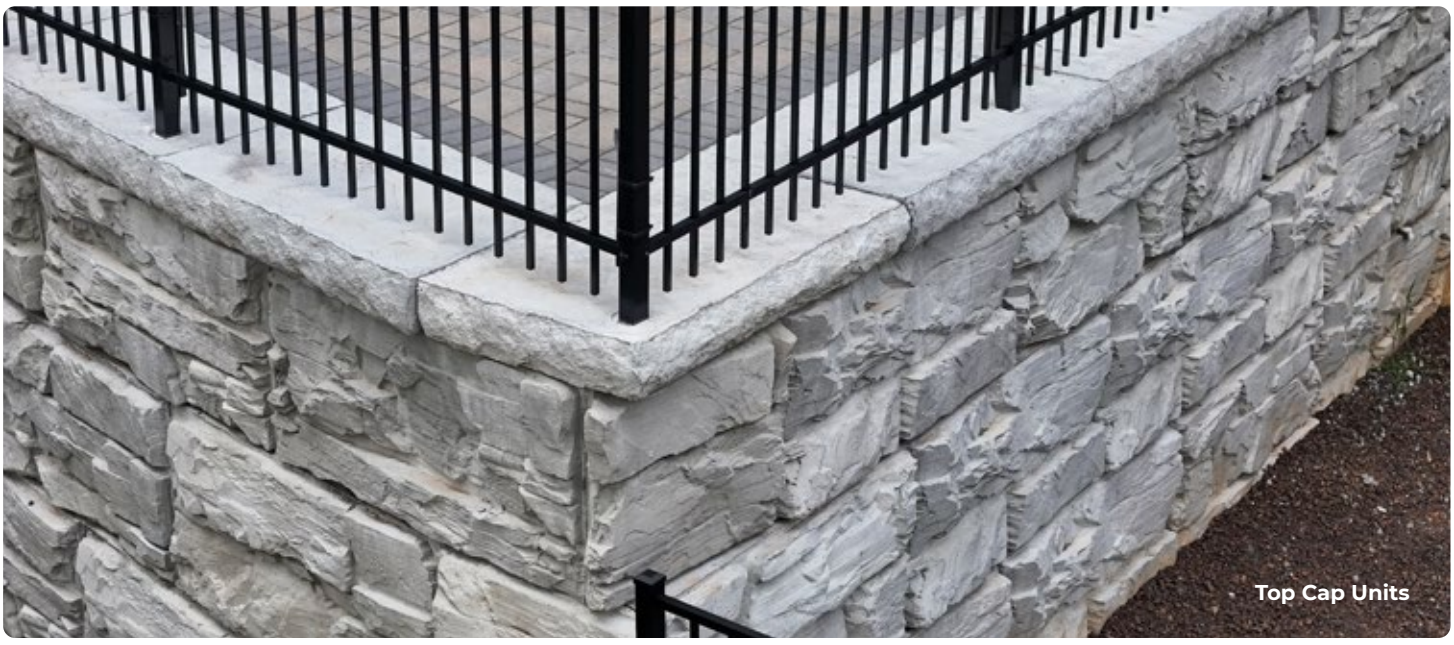
2-SIDED UNIT*

Height	12"
Width	48"
Depth	26"
Weight (lbs)	900
Face Area	4 sf

3-SIDED UNIT*

Height	12"
Width	48"
Depth	26"
Weight (lbs)	900
Face Area	4 sf

*Special order unit- lead times may apply.

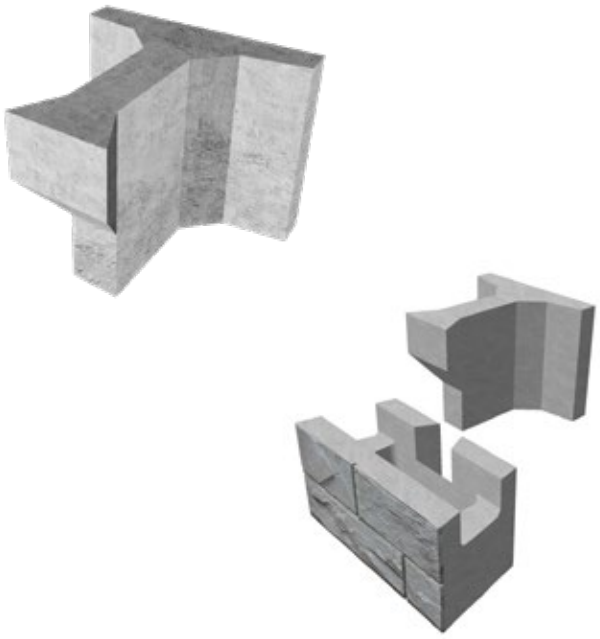


Top Cap Units

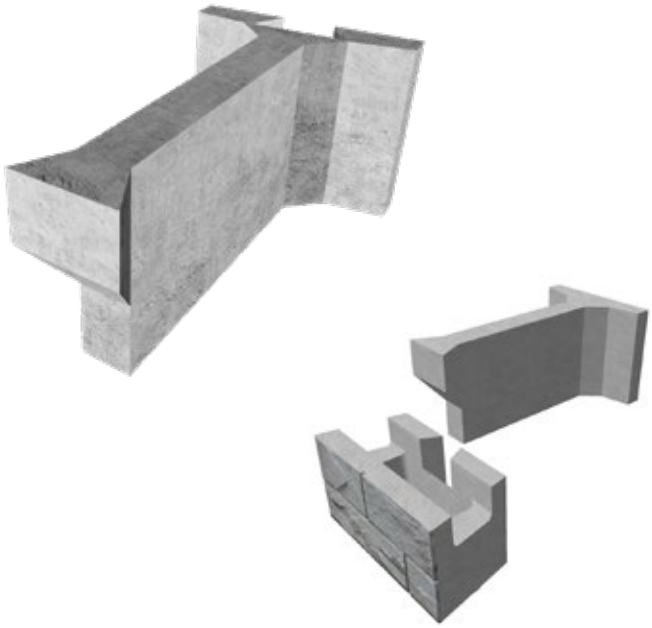
UNIT SPECIFICATIONS

EXTENDER UNITS

2-FOOT EXTENDER



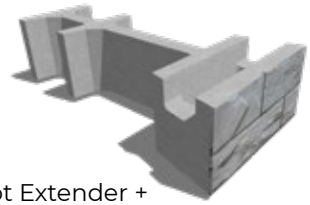
4-FOOT EXTENDER



2-Foot Extender +
2-Foot Deep Block

48" DEEP WALL

Height	24"
Depth	48"
Face Width	48"
Back Width	39"
Weight	1920 lbs
Volume Voids	18.2 ft³
Gravel Fill Weight	3925 lbs



2-Foot Extender +
4-Foot Extender +
2-Foot Deep Block

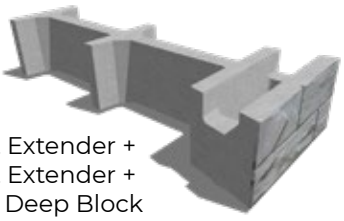
96" DEEP WALL

Height	24"
Depth	96"
Face Width	48"
Back Width	39"
Weight	2795 lbs
Volume Voids	45.4 ft³
Gravel Fill Weight	7789 lbs

4-Foot Extender +
2-Foot Deep Block

72" DEEP WALL

Height	24"
Depth	72"
Face Width	48"
Back Width	39"
Weight	2220 lbs
Volume Voids	31.9 ft³
Gravel Fill Weight	5732 lbs

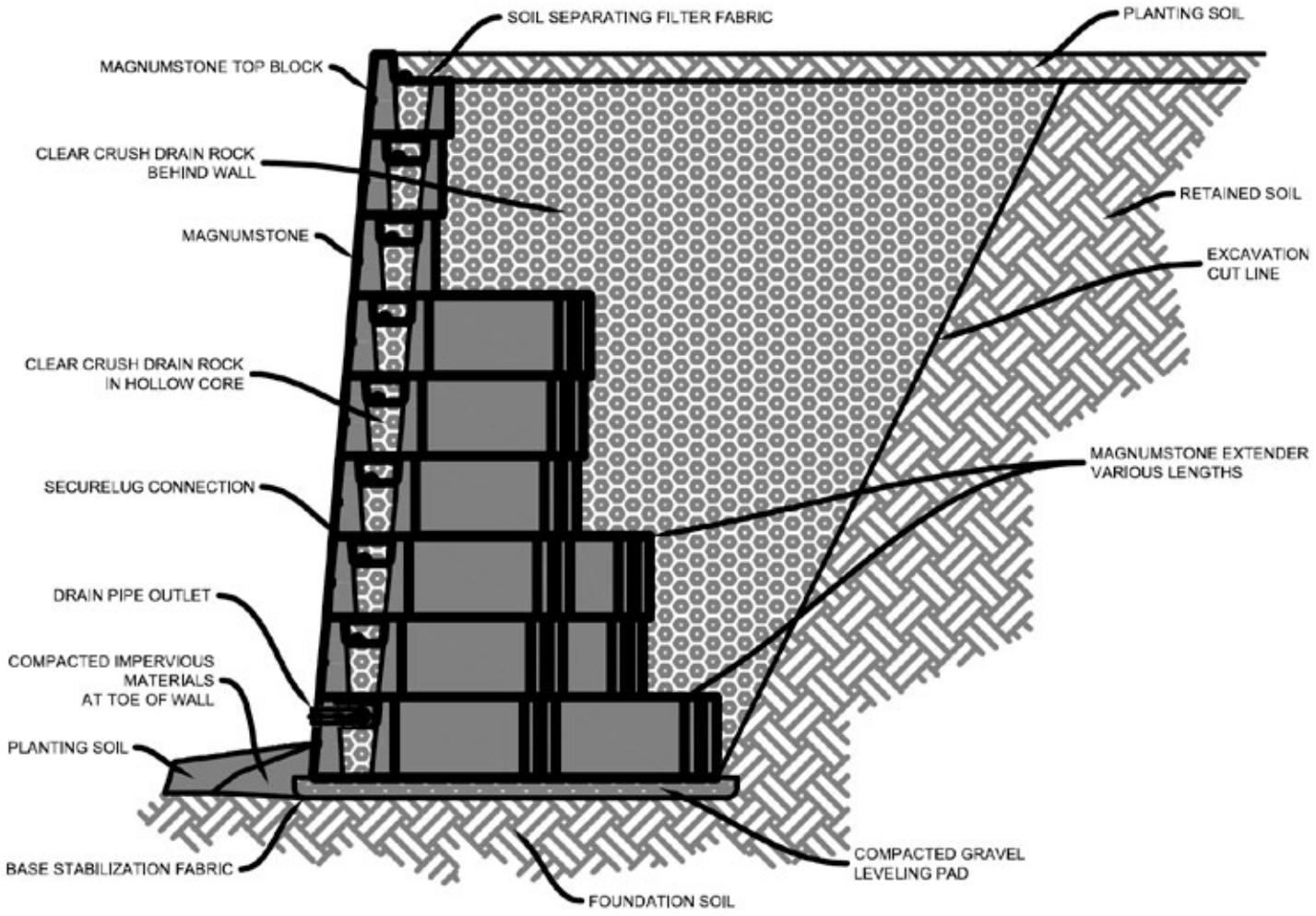


4-Foot Extender +
4-Foot Extender +
2-Foot Deep Block

120" DEEP WALL

Height	24"
Depth	120"
Face Width	48"
Back Width	39"
Weight	3098 lbs
Volume Voids	54.8 ft³
Gravel Fill Weight	9126 lbs

TYPICAL **CROSS-SECTION**



UTILIZING **EXTENDERS**

Carnegie at Washingtonian Center
Gaithersburg, MD

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We can consult with you on your project needs.

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