MAGNUMSTONE®
Large-Block Retaining Wall System
MagnumStone® is a wet-cast, large block, retaining wall system that was developed with both the engineer and contractor in mind. The 5,000 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 (reduces embedment and excavation) 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.
Low-Height Gravity Walls
MagnumStone is a quick easy solution for gravity walls up to 6’ tall (maximum height varies depending upon 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.

Taller Gravity Walls
When your walls 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, 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 soil conditions, loading and site geometry).

Stream Banks
The MagnumStone product performs very well in water applications. Wall designers and civil engineers like the mass of a large 8sf 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 to rehabilitate deteriorating streambanks on many projects.

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 do a taller gravity wall.
# MagnumStone®

## Unit System

MDSHA & WVDOT approved.

### FULL-SIZE UNITS

<table>
<thead>
<tr>
<th>BASE BLOCK</th>
<th>STANDARD BLOCK</th>
<th>TOP BLOCK</th>
</tr>
</thead>
<tbody>
<tr>
<td>Height</td>
<td>24&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>Depth</td>
<td>24&quot;</td>
<td>24&quot;</td>
</tr>
<tr>
<td>Face Width</td>
<td>48&quot;</td>
<td>48&quot;</td>
</tr>
<tr>
<td>Back Width</td>
<td>39&quot;</td>
<td>39&quot;</td>
</tr>
<tr>
<td>Weight</td>
<td>1400 lbs</td>
<td>1425 lbs</td>
</tr>
<tr>
<td>Volume Voids</td>
<td>6.35 ft³</td>
<td>6.35 ft³</td>
</tr>
<tr>
<td>Gravel Fill Weight</td>
<td>2100 lbs</td>
<td>2125 lbs</td>
</tr>
<tr>
<td>Face Area</td>
<td>8 sf</td>
<td>8 sf</td>
</tr>
<tr>
<td>Batter</td>
<td>2.4 degrees</td>
<td>2.4 degrees</td>
</tr>
<tr>
<td>Setback</td>
<td>1&quot; per block</td>
<td>1&quot; per block</td>
</tr>
</tbody>
</table>

MAGNUMSTONE® | york building products
**UNIT SPECIFICATIONS**

### HALF-HIGH UNITS

**BASE BLOCK**

- **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**: 1/2” per block

**TOP BLOCK**

- **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**: 1/2” per block

### END CAPS

**FULL-SIZE END CAP**

- **Height**: 24”
- **Depth**: 28”
- **Front Narrow Width**: 4”
- **Back Narrow Width**: 8”
- **Weight**: 340 lbs
- **Face Area**: 4.5 sf

**HALF-HIGH END CAP**

- **Height**: 12”
- **Depth**: 28”
- **Front Narrow Width**: 4”
- **Back Narrow Width**: 9”
- **Weight**: 170 lbs
- **Face Area**: 2.25 sf

End caps attached to a standard block can 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.

**Easy Installation!**

End cap attaches with a simple bolt and loop mechanism.
## EXTENDER UNITS

### 2-FOOT EXTENDER

#### 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

#### 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

#### 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

#### 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
Need Assistance?

We can consult with you on your project needs.

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