Let MagnumStone® drive your design

MagnumStone®
Your Gravity Wall just got taller

MagnumStone® Gravity Retaining Wall Extenders replace Geogrid reinforcements by using a tongue-and-groove concrete system to meet or exceed the demands of engineers. This system reduces the massive footprint of traditional cantilevered gravity retaining walls and gives developers and owners greater use of land above the wall.
Gravity Wall with Extenders

**MagnumStone® Unit**
Units are made from high strength, wet cast concrete to provide durability and resistance to weathering.

**Hollow Core**
Makes it easy to saw cut, add special lighting, or place fence posts into when adding creative details.

**4FT & 2FT Extenders**
MagnumStone® Extenders can be used in any combination of standard lengths.

Extender Assembly

Gravity Wall with Extenders

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Geogrid Walls

Geogrids are used to reinforce the soil mass behind the MagnumStone® units to create tall retaining wall systems. Geogrids help resist pressures from loads such as parking lots, roadways, water applications or positive slopes.

Geogrid with the appropriate lengths, layers, and compacted backfill materials will resist forces above and behind the wall. The use of Geogrid reinforcements with the MagnumStone® system is very cost effective for very tall wall structures. For walls higher than 4.0 ft, consult a qualified engineer.
Common Applications

**GRAVITY WALLS**
MagnumStone® Gravity Retaining Wall Extenders replace Geogrid reinforcements by using a tongue-and-groove concrete system that meets or exceeds the demands of engineers. This system reduces the massive footprints demanded by cantilevered traditional gravity retaining walls and gives developers and owners greater use of land above the wall.

**GEOGRID WALLS**
Geogrids are used to reinforce the soil mass behind the MagnumStone® units to create tall retaining wall systems. Wall structures that may require geogrid reinforcement to resist the increased pressures behind the wall include parking lots, roadways, water applications or positive slopes above.

**TERRACES WITH PLANTERS**
The MagnumStone® retaining wall provides a large vertical and horizontal hollow core. The light weight and large size units allow wall designers the flexibility of creating many solutions without environmentally costly side-effects. The hollow core provides a plantable retaining wall pocket within the retaining wall system.

**WATER APPLICATIONS**
The hollow core allows for vertical internal drainage, minimizing the effects of hydrostatic pressures behind the wall. Wet-cast MagnumStone® units provides a durable, 4000 psi (27.5 MPa) concrete that is resistant to freeze-thaw degradation in areas of repeated freezing and thawing in saturated conditions.

More: Steel/Concrete Wall, Soil Anchoring, Steel Grid, Wall Step-Up, Free Standing

Design Software

The MagnumStone® Wall Designer program is designed with the Engineer in mind. It includes multiple methodologies, MagnumStone® gravity systems, geogrid friction, and positive reinforcement options for the designer to choose from. Select and edit soil information, input loads and slopes above and below the retaining wall.
## Unit Specifications

### Standard
- **1370 lbs (621 kgs)**
- Height: 24" 610mm
- Depth: 24" 610mm
- Face Width: 48" 1219mm
- Back Width: 39" 991mm
- Face Area: 8 sq ft 0.745 m²
- Setback: 4.5° / 2.4° / 0°

### Standard Base
- **1345 lbs (621 kgs)**
- Height: 24" 610mm
- Depth: 24" 610mm
- Face Width: 48" 1219mm
- Back Width: 39" 991mm
- Face Area: 8 sq ft 0.745 m²
- Setback: 4.5° / 2.4° / 0°

### Standard Top
- **1220 lbs (553 kgs)**
- Height: 24" 610mm
- Depth: 24" 610mm
- Face Width: 48" 1219mm
- Back Width: 39" 991mm
- Face Area: 8 sq ft 0.745 m²
- Setback: 4.5° / 2.4° / 0°

### Half High
- **750 lbs (340 kgs)**
- Height: 12" 305mm
- Depth: 24" 610mm
- Face Width: 48" 1219mm
- Back Width: 39" 991mm
- Face Area: 4 sq ft 0.37 m²
- Setback: 4.5° / 2.4° / 0°

### Half High Base
- **725 lbs (328 kgs)**
- Height: 12" 305mm
- Depth: 24" 610mm
- Face Width: 48" 1219mm
- Back Width: 39" 991mm
- Face Area: 4 sq ft 0.37 m²
- Setback: 4.5° / 2.4° / 0°

### Half High Top
- **680 lbs (308 kgs)**
- Height: 12" 305mm
- Depth: 24" 610mm
- Face Width: 48" 1219mm
- Back Width: 39" 991mm
- Face Area: 4 sq ft 0.37 m²
- Setback: 4.5° / 2.4° / 0°

### Half High Corner/End
- **170 lbs (77 kgs)**
- Height: 12" 305mm
- Depth: 9" 229mm
- Top Width: 3" 76mm
- Bottom Width: 4" 102mm

### Half High Corner/End Base
- **165 lbs (75 kgs)**
- Height: 12" 305mm
- Depth: 9" 229mm
- Top Width: 3" 76mm
- Bottom Width: 4" 102mm

### Half High Corner/End Top
- **130 lbs (59 kgs)**
- Height: 12" 305mm
- Depth: 9" 229mm
- Top Width: 3" 76mm
- Bottom Width: 4" 102mm

### Step/Cap
- **290 lbs (131 kgs)**
- Height: 6" 152mm
- Depth: 24" 609mm
- Top Width: 48" 1219mm
- Width: 4" 102mm

## Full Specifications

A full list of specifications can be found on: [magnumstone.com](https://magnumstone.com)

Dimensions and weights may vary. Please check with local producer.

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