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GRAVITY STONE

SO SIMPLE. IT'S ADVANCED

The Ultimate Stack n' Fill System



A wall system ideal for "Cuts", "Fills", short or tall

"During my 25 years of site remediation I have not found a more economical, innovative, and flexible system than GravityStone ®"

- Ty Gillis, GradeSolutions



Why Choose GravityStone?

- NO GEOGRID REQUIRED
- MINIMIZE EXCAVATION WIDTH AND VOLUME
- SINGLE CELL UP TO 8 FEET
- LESS EQUIPMENT AND LABOR NEEDED
- LARGE UTILITY CAVITY DIRECTLY BEHIND WALL
- ABOVE GRADE FOR BARRIERS, PARAPETS, AND COLUMNS
- BEATS PRECAST IN PRODUCT AND INSTALLED COST

GravityStone® Components



Landscape

Thin Face



Dimensions: 6" x 8" x 18"
Weight: ~60 lbs*
Face Area: 1 sq. ft/unit

Trunk



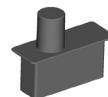
Dimensions: 24" x 8" x 4"
Weight: ~60 lbs*

Anchor Junction



Dimensions: 12" x 8" x 6"
Weight: ~45 lbs*

Reversible Alignment Plug



Forward Position: 0° Batter
Reverse Position: 4.5° Batter

Weights vary by manufacturer

GravityStone® is a wall system that provides solutions to a variety of site needs and project requirements. Using the multi-component system, modular cells are created by sliding together, interlocking the dovetail connectors cast into the blocks.

For use in earth retention GravityStone® Modular Retaining Walls minimize excavation, simplifies construction, and enables a large open cavity area immediately behind the wall that are hampered by use of Geogrid reinforcement. Narrow walls create significant open space behind the wall that provide for placement of utilities, footings, embeds, rails, and fences.



Above grade, GravityStone® modular creates double faced walls, popular in Hardscape features, such as parapets, planters, columns and barriers.



Green Walls

Course to course positioning is achieved with a Reversible Alignment Plug (RAP), which provides vertical or 4.5-degree wall batter.



Civil Sites

GravityStone is fully supported with proprietary design software, which uses NCMA and AASHTO methodology. Design professionals can easily design Modular structures, MSE structures, or hybrids between the two.

Simply, GravityStone wins in cost, ease of use, design flexibility and aesthetics in comparison to pre-cast, cast-in-place, cribbing, and other forms of below and above grade applications.

Mini Cell

20" Deep
Face, A/J, A/J

Single Cell

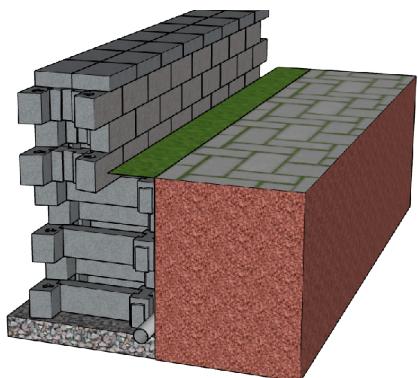
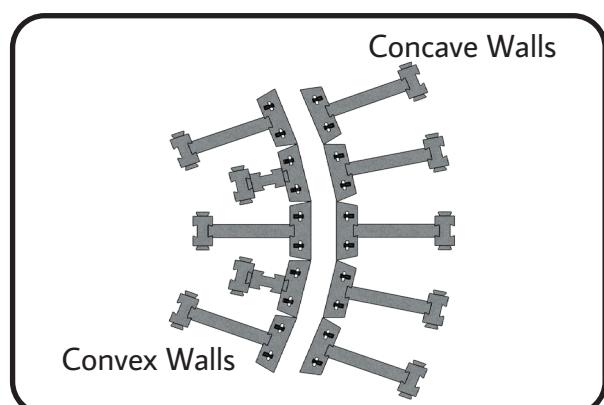
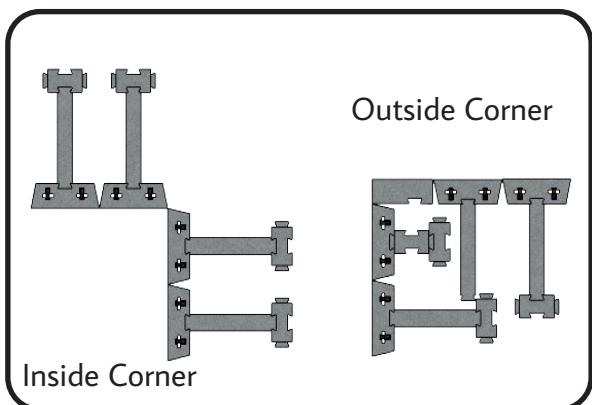
32" Deep
Face, Trunk, A/J

Multi Cell

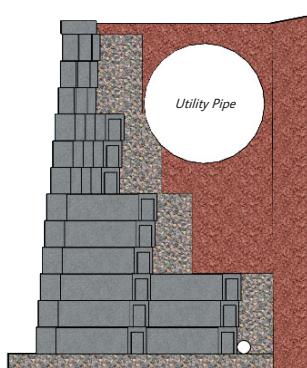
27" additional depth
Face, Trunk, A/J
Trunk, A/J, etc.

Barrier/Parapet

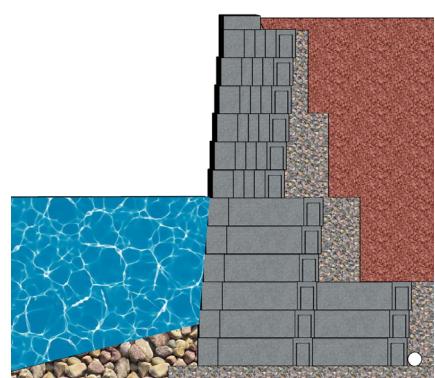
32" or 21" Deep
Extend GravityStone above
grade with face units on
each side and create
barriers, parapet or columns

Special Applications

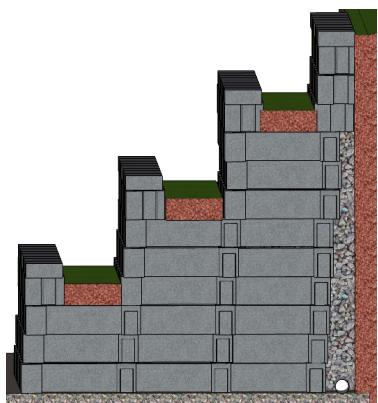
Above Grade Create Parapets
and Columns



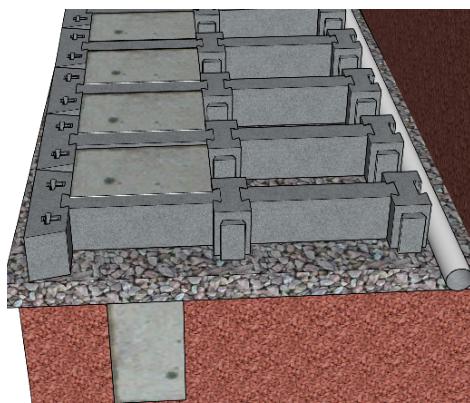
Increased Space for
Utilities



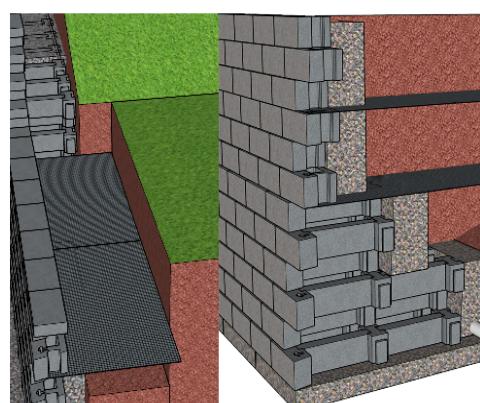
Ideal for Drawdown
Applications



Modular components facilitate
creation of Green Walls



SlideStop® for poor soils



Create Lateral or Vertical
Hybrid Designs

GravityStone® Installation

Leveling Pad

Prepare a foundation by excavating, and filling with a minimum of 6" of crushed stone, ensure it is level and compacted.

Backfill

After reaching a maximum of three courses, backfill the GravityStone units with the specified aggregate. Clean the tops of the Faces, and Anchor Junctions and then continue stacking.

Laying the First Course

Begin the first course by starting at the lowest elevation. After placing a string line, position each Face block along the line, level side to side and front to back, using a rubber mallet to seat the block. Use a 2 foot level to offset the anchor, set a string line and repeat.

Compaction

Once the cells have been filled with aggregate, fill in the remaining cavity behind the cellular assemblies with retained soils and compact.

Placing Additional Anchor Junctions

Continue by laying out the full length of Faces and Anchor Junctions to the required depth of the base course.

Stack Additional Courses

Continue stacking the wall to the appropriate depth and height, backfill and compact with the specified aggregate.

Place Trunks

Once the Anchor Junctions and faces are in position, simply slide the trunk blocks into the gridlock of the face and anchor junctions.

Approaching Finishd Grade

Mini-cells may be used in the top courses to maximize efficiency of the GravityStone system.

Alignment Plugs

After completing each course place a Reversible Alignment Plug (RAP) into the two cores in the face block. Placed in the forward position creates a 0° batter, while reversing the plug will create a 4.5° batter.

Capping The Wall

Once the body of the wall is complete and backfilled, permanently affix a solid cap to the Face Block using an approved concrete adhesive. Place 1/4" bead of adhesive along the top of the Face block. Place the Cap Block onto the adhesive, making sure of its proper position.

Stack The Cells

Stack Faces, Anchor/Junctions, and Trunks until reaching a maximum of three courses

Finished Grade

Finish grading consists of properly placing and compacting fill above the top of the wall and at the toe of the wall. When landscaping behind or in front of the wall, the finish grade should be at least 4" low to provide for topsoil, seed, sod, or other landscaping treatments as specified in the wall design.

