



GRAVITY STONE®

ENCORE

So Simple. It's Advanced.



A Licensed product of
WESTBLOCK SYSTEMS®



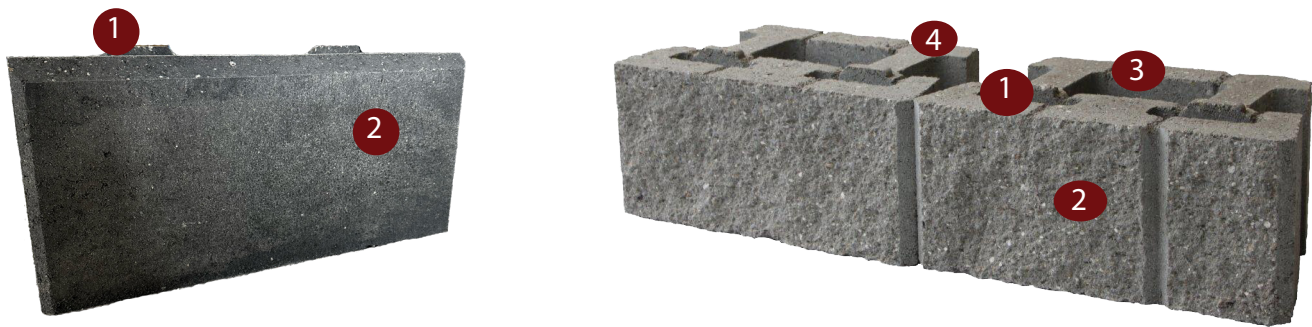
GravityStone® EnCore is a patented earth retention system that provides solutions to a variety of site needs and project requirements. The system creates graceful and durable retaining walls that can be built serpentine or straight, single height or tiered, with concave, convex or traditional 90-degree corners.

When used in conjunction with geosynthetic reinforcement, GravityStone® EnCore creates durable, soil reinforced walls. As a system, geogrid provides the function of Mechanically Stabilizing the Embankment (MSE) with no limits on wall heights.

GravityStone® EnCore is an economical and easy to use product that provides precise wall batter, alignment, and shear resistance through the use of a high strength Concrete Alignment Nub (CAN) that is cast directly into the top of the unit, eliminating the need for pins or plugs, and easier installation than lip or lug systems - offering greater flexibility and construction efficiency.

From rustic to contemporary, GravityStone® EnCore can be manufactured with a variety of face treatments, including different textures, geometries, and colors. From classic split to contemporary smooth, or the look of natural stone, EnCore can be manufactured for any aesthetic

GravityStone® EnCore at a Glance



- 1. Concrete Alignment Nub (CAN) 6.2°
- 2. Multiple Face Shape And Texture Options
- 3. Large Open Core Creates Lightweight and Balanced Unit
- 4. Ergonomic for Ease Of Construction

Simply stated:

GravityStone® EnCore creates durable, economic retaining walls that are fast to install and last a lifetime.

EnCore Advantages

- Large open core creates vertical shafts for easy aggregate fill placement
- Rear ergonomic hand-holds
- Fast, equipment-free installation with hand-placed units
- Built-in top up alignment
- No specialized fittings or caps needed
- Flexible aesthetic options including traditional split, hewn stone, ashlar, and smooth finishes

GravityStone® EnCore Components



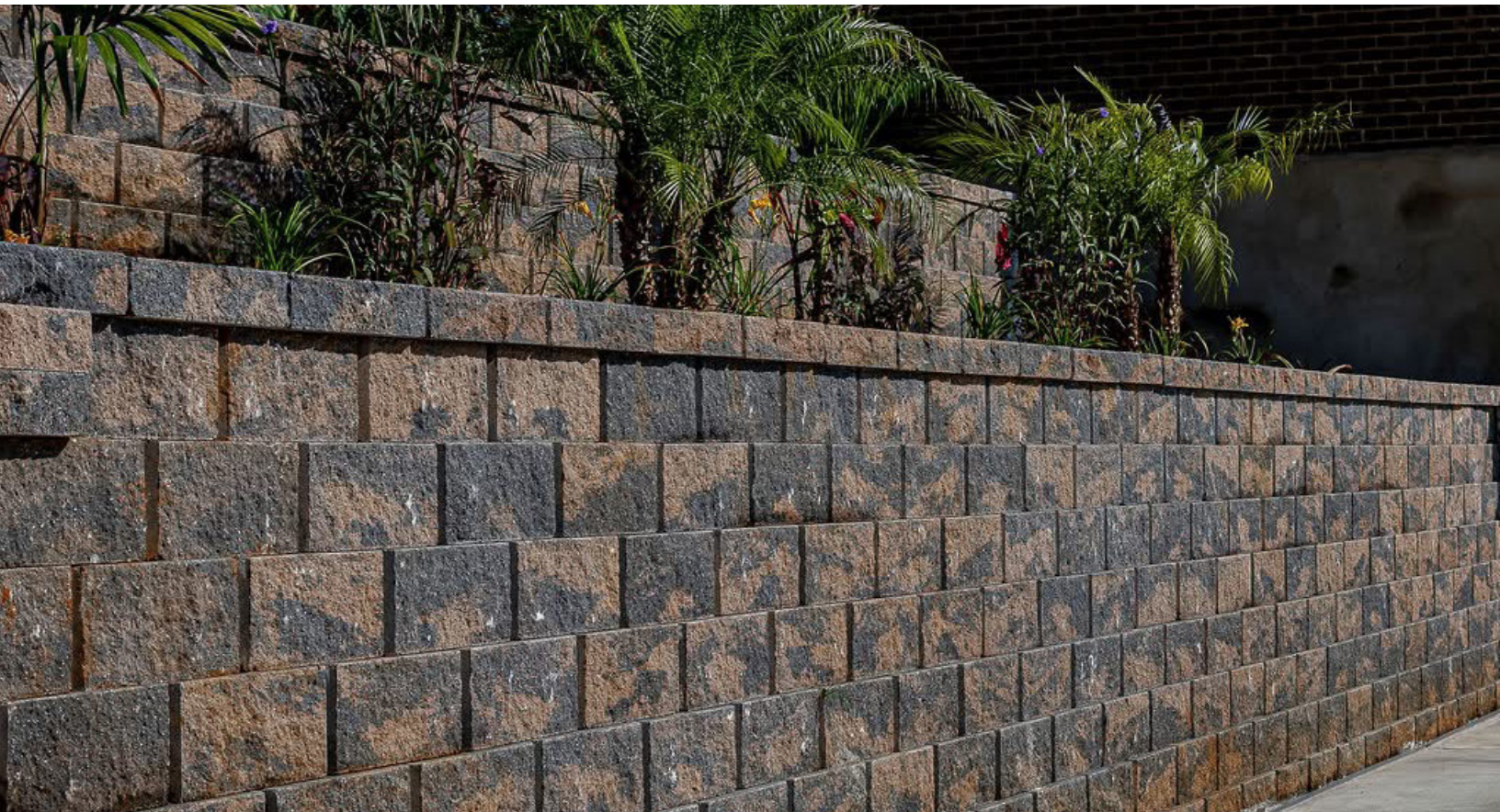
GravityStone® EnCore
18 x 8 x 10 ¹/₈ "



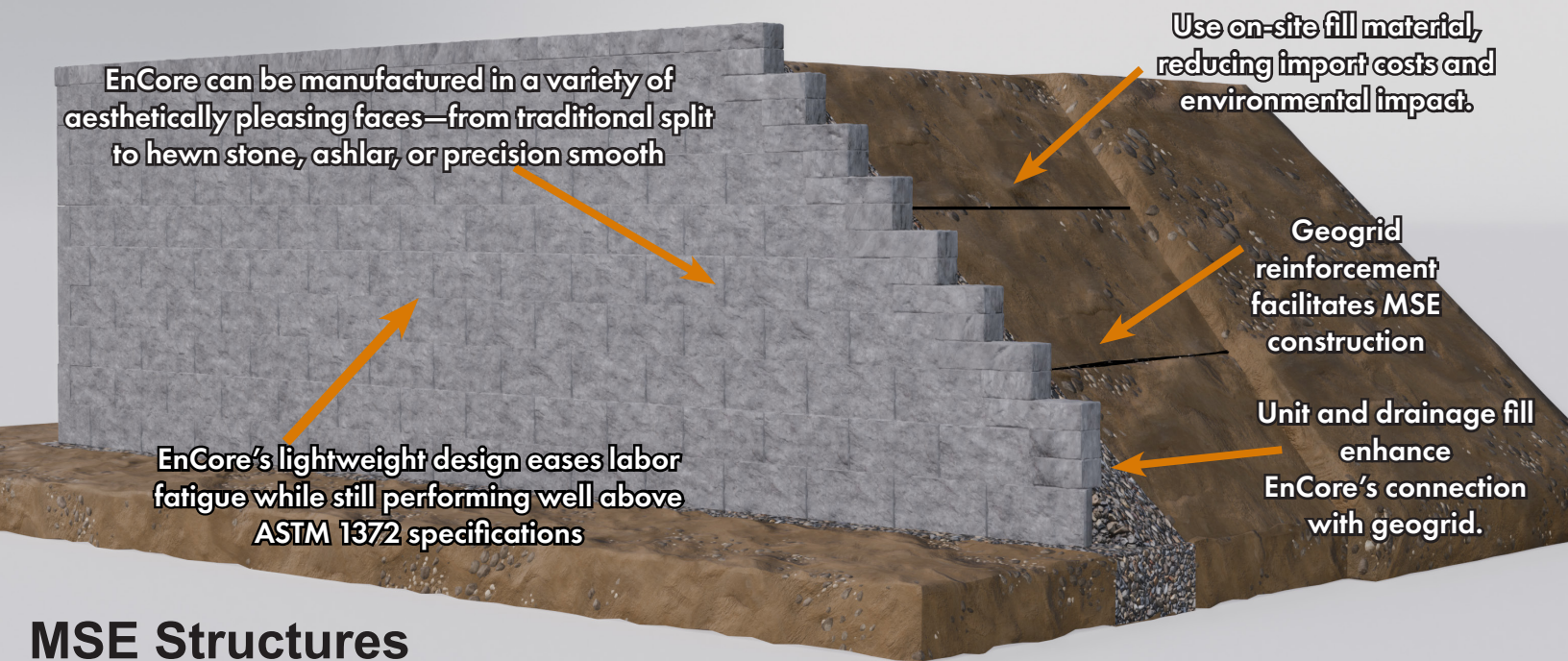
Universal Corner
18 x 8 x 9"



Universal Cap
18 x 4 x 12"



EnCore with Geogrid



MSE Structures

GravityStone EnCore, when paired with geogrid reinforcement, forms a strong, economic and visually striking Mechanically Stabilized Earth (MSE) retaining wall. Perfect for fill sites, this system allows contractors to utilize on-site soils, reducing import costs and efficiently achieving a level, finished grade.



Solutions for Any Site



Civil and Structural

When combined with geogrid, GravityStone® EnCore creates durable, mechanically reinforced retaining walls that provide stability, structure, sustainability and style to even the most challenging change of grade projects. From tiered walls, single height to load-bearing, or steepened slopes GravityStone® EnCore offers proven results.

Landscape and Residential

EnCore scales seamlessly—from large infrastructure to small landscape features. Offering homeowners an easy to install and visually pleasing retaining wall product that can be used for small gravity structures, raised bed planters, stairways and more that are sure to complement any landscape.



Solutions for Any Site



Sea Walls

GravityStone EnCore's large open core is designed to be filled with free-draining aggregate, allowing it to perform exceptionally well in water applications while remaining structurally sound.

Roadways and DOT

GravityStone EnCore is engineered to handle live loads ranging from light residential to demanding federal DOT applications.



Wall Layouts

Radius

Concave Radius

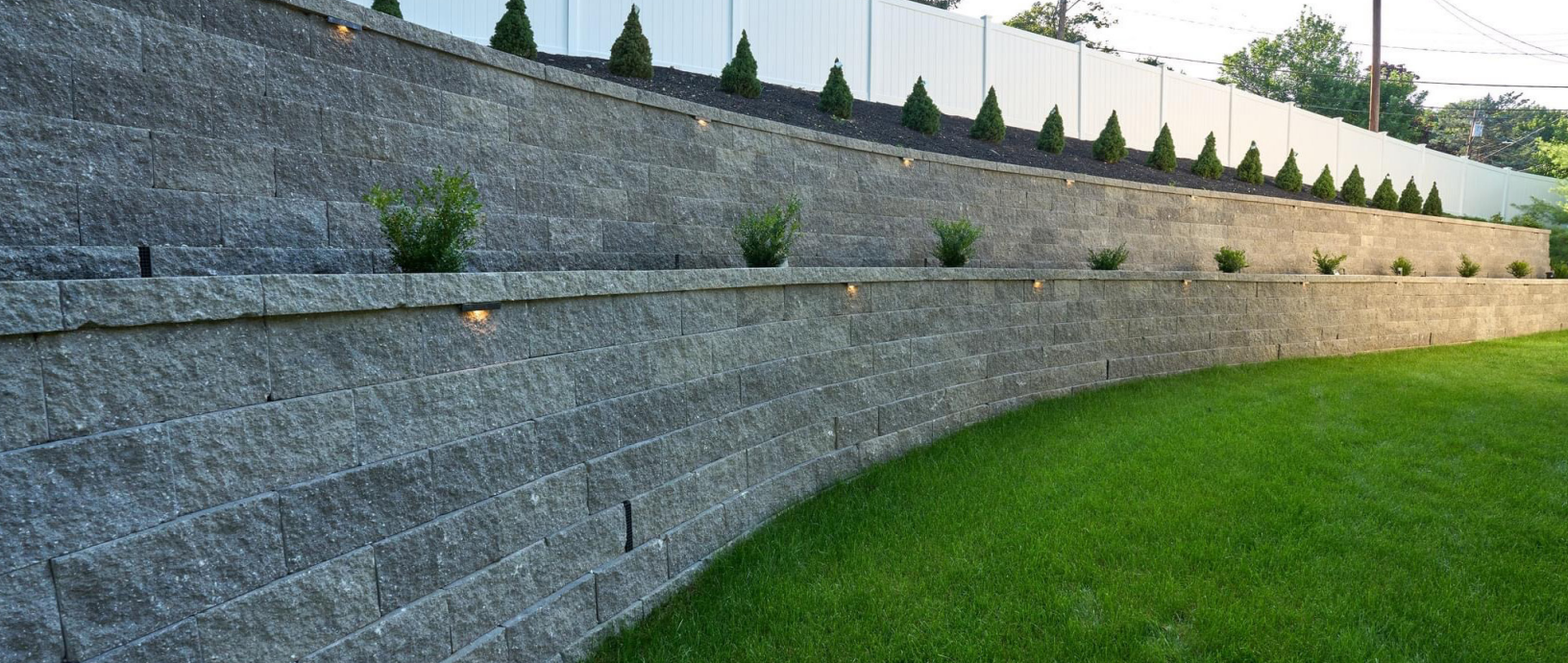


GravityStone® EnCore makes concave curves effortless. With its open-core alignment design, EnCore forms smooth, stable radii using standard units—no special molds or cuts needed. The result is tight, consistent curves with full interlock and structural integrity built in, making serpentine layouts simple to execute.

Convex Radius



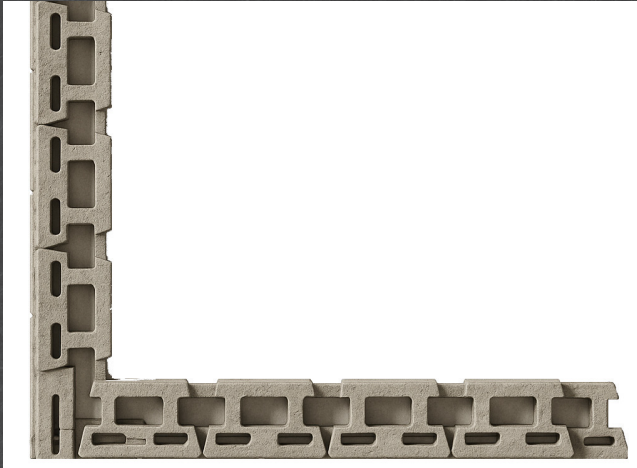
GravityStone® EnCore handles tight convex curves with ease, forming smooth, consistent radii using only standard units—no cuts or custom pieces required. GravityStone® EnCore maintains full interlock and structural integrity, even on the sharpest bends—making serpentine layouts simple to build.



Wall Layouts

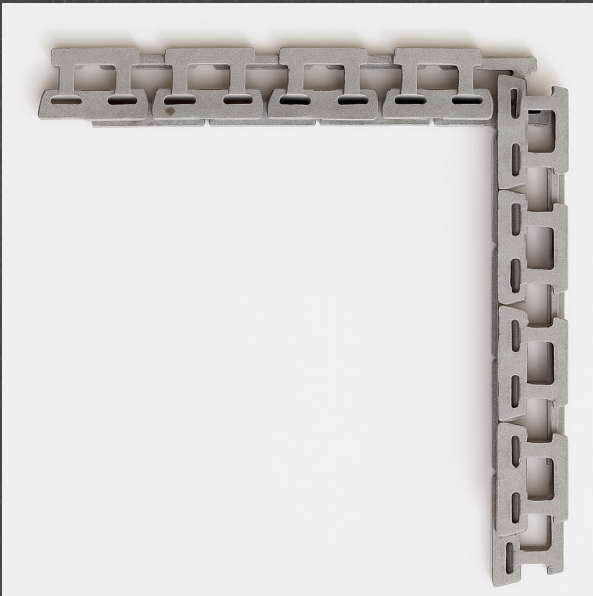
Corners

Outside Corners



Using standard units in an overlapping, alternating pattern, GravityStone® EnCore forms a fully interlocked 90° outside corner return—no special blocks or cuts required. The result is structural continuity, precise course-to-course alignment, and faster, more efficient on-site construction.

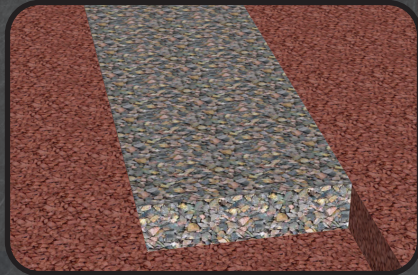
Inside Corners



GravityStone® EnCore's inside corner uses standard units in an alternating pattern to form a fully interlocked 90° return—no custom cuts or corner blocks required. The result is structural integrity, precise alignment, and simplified installation.

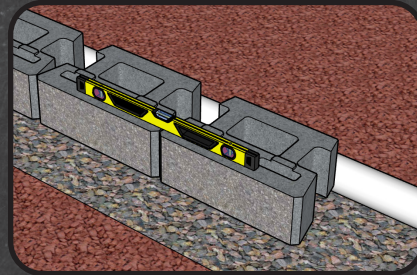


Basic Installation



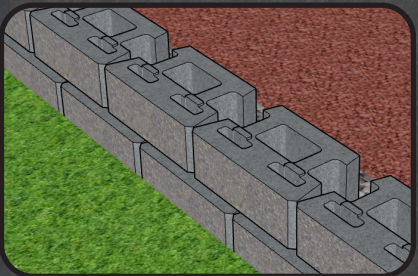
1. Leveling Pad

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



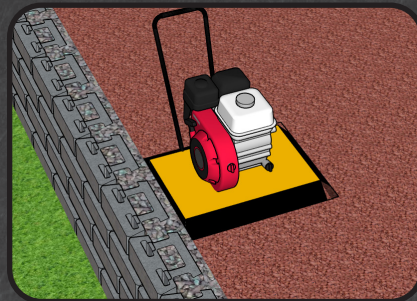
2. Laying The First Course

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.



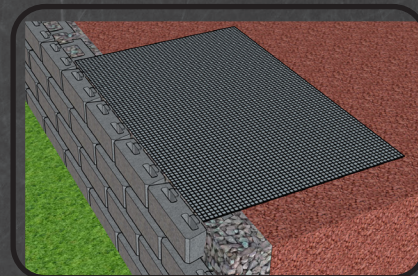
3. Stacking The Wall

Once your base course has been laid out and leveled, begin stacking the wall in a running bond placing the oval shaped cores over the Concrete Alignment Nub (CAN) to assure proper batter and alignment.



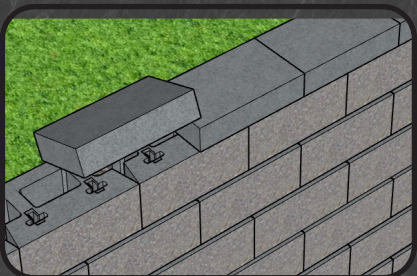
4. Backfill and Compaction

After reaching a maximum of three courses, backfill the GravityStone units with the specified aggregate, filling the core of the face units and an additional 12" behind. Compact the soil with a vibratory compactor to the proper density. Sweep debris from the top of the blocks before starting the next block course.



5. Placing Geogrid

Following the engineer's design, place the Geogrid at the proper course and to the specified length. Ensure the geotextile maintains full contact with the soil.



6. Capping The Wall

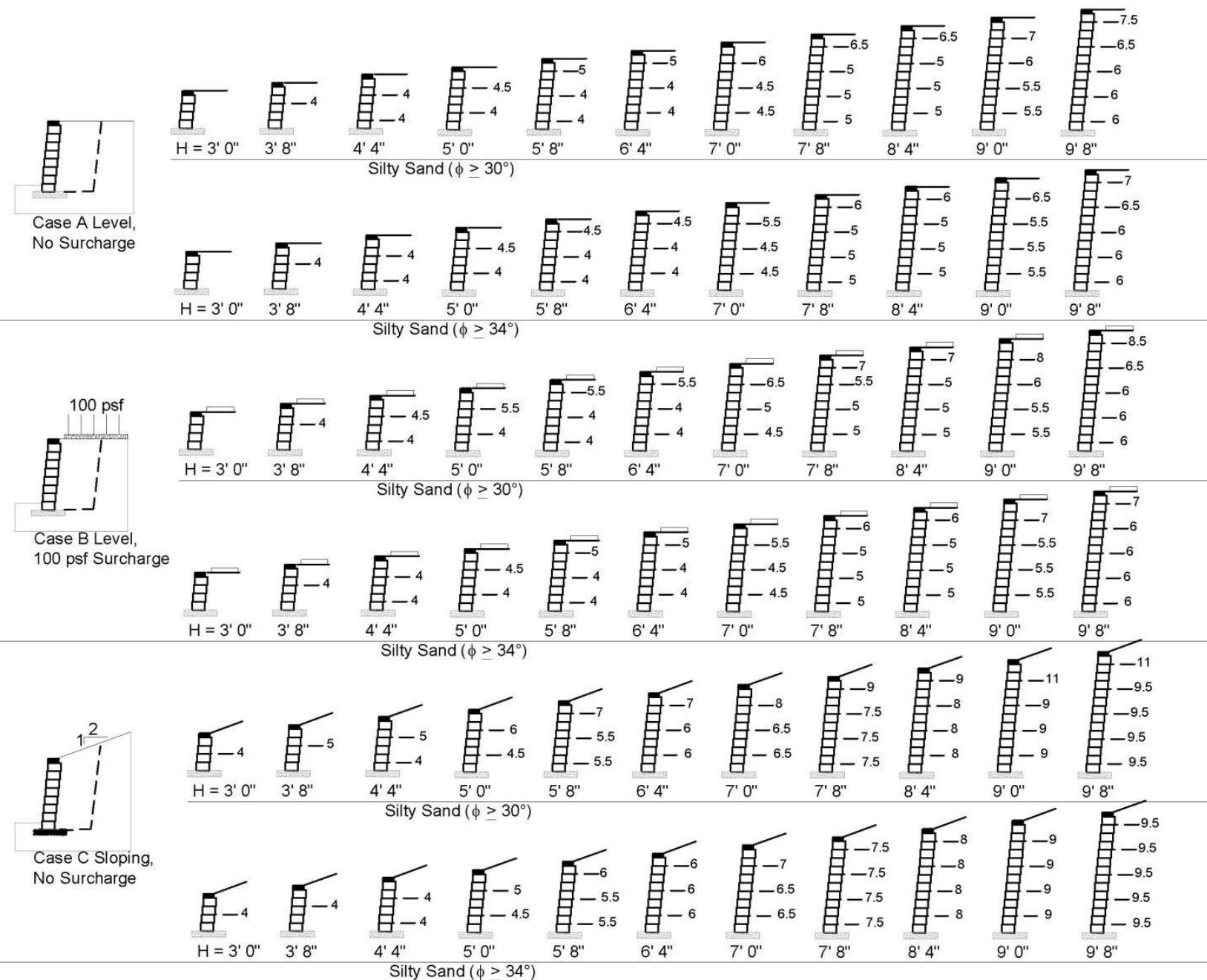
Once the body of the wall is complete, permanently affix a Cap Block to the Face Block using an approved concrete adhesive parallel to the wall face on both sides of the plug holes. Place the Cap Block onto the adhesive, making sure of its proper position.

GravityStone EnCore in Action





Case 1: No Slope, No Surcharge
Case 2: 250 PSF Live Load
(3' offset)
Case 3: 3:1 Back Slope



*Designs provided for informational and estimating purposes only. It is recommended to consult with a licensed engineer for walls exceeding 4 ft in total height. Full CAD files and engineering support are available upon request and can be located on our website: <https://www.westblocksystems.com/cads>



GRAVITY STONE®

ENCORE

Eliminate pins, lips, specialty units, and hardware.

Designed for Builders. Trusted by Engineers.

Support sustainable site development

Reduce labor, equipment, and installation time

Experience unmatched aesthetic versatility

GravityStone® EnCore — The smarter way to build retaining walls.



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