Why Echelon?

For generations, Oldcastle® has been North America’s leading manufacturer of building products and materials, establishing ourselves as an industry leader and dedicated partner who successfully completes projects from beginning to end. Now Oldcastle embarks on a new journey to consolidate our many masonry products, services and expertise into the single brand of Echelon™, providing the masonry industry with a singular go-to source and reliable partner.

Industry Innovators

Echelon is dedicated to meeting the ever-changing needs of the construction industry by investing millions of dollars annually in the research and development of new and innovative products.

This unceasing pursuit of excellence has culminated in a comprehensive range of structural masonry products including premium architectural block, customizable concrete masonry units, full depth and lightweight veneers and high performance wall systems.

Echelon offers the industry’s most complete BIM-ready library of design assets. For free access to thousands of REVIT files, visit our website or BIMSmith.com/Echelon
Echelon Masonry represents the future of our industry – sustainable, high-end solutions that meet ever-evolving building codes while delivering stunning aesthetics for modern design.

—Joey Peters
SENIOR BRAND MANAGER

National Presence
With over 150 locations and a company culture characterized by a commitment to customer satisfaction, Echelon adheres to a level of service and consistency that no other brand can match. Our combination of local market presence and national capabilities allows us to meet and exceed the demanding needs of an ever-changing industry.

Regional Services
Our local companies maintain the confidence of builders, architects and consumers through our innovative technology, premium architectural building products, committed service and on-time deliveries. We are dedicated and continually striving to meet and exceed the needs of all our customers. Let our dedicated team provide the right solution for your next project.
As the leader for modern masonry solutions, Echelon products can be utilized with a suite of wall systems that deliver a variety of benefits including energy efficiency, speed of installation and moisture control. Look for the following icons on product pages to see which are compatible with a given system.

**LOOK FOR THESE ICONS**

- BIM
- Insultech
- EnduraMax
- Acousta-wal

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**TRENWYTH® ARCHITECTURAL MASONRY**

- Astra-Glaze-SW+® 08
- Mesastone® 12
- Monumental CMU 16
- Trattino™ Finish 18
- Trendstone® 20
- Trendstone Plus® 24
- Verastone® & Verastone® Plus 28

**WALL SYSTEMS**

- Acousta-Wal® 34
- EnduraMax® 36
- InsulTech™ ICMS 40
- RainBloc® 44
Trenwyth Architectural Masonry block provides ultimate design flexibility with a wide range of colors, shapes, sizes & finishes. Trenwyth’s reputation for excellence in quality & innovation are unmatched and Trenwyth CMUs are mold & moisture resistant and virtually maintenance free.

PRODUCTS
Astra-Glaze-SW+®  08
Mesastone®  12
Monumental CMU  16
Trattino™ Finish  18
Trendstone®  20
Trendstone Plus®  24
Verastone® & Verastone® Plus  28
Astra-Glaze-SW+®
**Pre-faced architectural units with a thermoset glazing compound permanently molded to one or more faces.**

Glazed face units are perfect for many commercial, retail, institutional and industrial applications with their impervious surface, flexible design options, and recycled content. Astra-Glaze-SW+ glazed units are pre-faced architectural concrete masonry blocks with a thermoset glazing compound permanently molded on one or more faces. This glazing compound is cured and heat-treated in gas-fired tunnel kilns, thus becoming an integral part of the unit. The glazed facings are molded in individual molds, ensuring dimensional uniformity regardless of minor variations in the unit.
Shapes & Sizes

2S

8U

Also available in 6, 8, 10 & 12" thickness

8ST

Also available in 6, 8, 10 & 12" thickness

8UT

Also available in 6, 8, 10 & 12" thickness

8K0BB

Also available in 6, 8, 10 & 12" thickness

44S

Also available in 6, 8, 10 & 12" thickness

8X

Also available in 6, 8, 10 & 12" thickness

8S8

Also available in 2, 4, 6" thickness

8UCPX

Also available in 2, 4, 6" thickness

8UCPXT

Also available in 2, 4, 6" thickness

416S

Also available in 2, 4, 6" thickness

412S12

Also available in 2, 4, 6" thickness

8-MR

Also available in 2, 4, 6" thickness

8JO

Also available in 2, 4, 6" thickness

4G

Also available in 2, 4, 6" thickness

4GJPR

Also available in 2" thickness

4GJOR

Also available in 2" thickness

4GPR

Also available in 2" thickness

44GJPR

Also available in 2" thickness

44GOR

Also available in 2" thickness
Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.
**Pre-finished architectural unit with an even texture.**

Mesastone textured masonry units are pre-finished architectural concrete units made with special colored aggregates and pigment uniformly finished to an even texture. The Mesastone textured surface resembles split face unit, but is more uniform, easier to lay-up and provides a straighter site line to the building.

**Shapes & Sizes**

- **44F**
- **8FT**
- **8FETR**
- **8FTBN**
- **KOBB (open bottom)**
- **FHA (KOBB with solid bottom)**
- **8UF (v-block)**
- **8F8 Solid**
- **8F8 Hollow**
- **2F**
- **4FT**
- **4FE**
- **8FE**
- **8FEBN**
- **4FE 135°**
- **4FE L Corner**

Note: Not all sizes are shown in this brochure. Please consult your nearest manufacturing facility. Metric shapes & sizes are also available. All units are also available in Trendstone, Trendstone Plus, Verastone and Verastone Plus. *Specify left or right. (Right shown)*
Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.
All colors available in Mesastone, Trendstone, and Trendstone Plus.
Create a grand impression on your next project.

Upgrade the look of your next project with Monumental oversized concrete masonry units available in Trenwyth® Verastone®, Verastones® Plus, Trendstone®, Trendstone Plus®, and Mesastone® finishes. These specialty sized concrete masonry units offer design flexibility to create large-scale walls, columns and arches of monumental proportions and unmatched aesthetics.

Shapes & Sizes

Note: Not all sizes are shown in this brochure. Please consult your nearest manufacturing facility. Metric shapes & sizes are also available.

*Specify left or right. (Right shown)
Pre-finished architectural unit or veneer compliments any design.

Trattino Finish masonry units offer a distinctive face texture reminiscent of natural stone. Our patent pending process creates an impressive finish emulating the look of travertine which is perfect for both interior and exterior projects. Trattino provides the ultimate design flexibility in both veneer and structural unit sizes for a wide range of applications.

Shapes & Sizes

Colors & Textures

Premium (P) and Custom (C) colors are available at an increased price versus Standard (S) colors. Note: Every effort has been made to assure accuracy in these colors. However, due to the nature of concrete and the molding process, as well as the process employed in printing these charts, colors may vary slightly. We recommend viewing actual samples as you make your color selection.
Pre‐finished integrally colored with one or more faces ground.

Trendstone ground face masonry units are pre‐finished, integrally colored concrete unit with one or more faces ground to expose the variegated colors of the natural aggregates. A factory‐applied clear satin gloss acrylic accentuates the natural beauty of the aggregates and provides moisture resistance.

Trendstone Chamfers

Chamfered corners minimize chipping and eliminate sharp corners. Not all chamfer designations are shown. Any side can be chamfered.

Shapes & Sizes

<table>
<thead>
<tr>
<th>Chamfer Designation</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>2F</td>
<td><img src="2F.png" alt="Image" /></td>
</tr>
<tr>
<td>4FT</td>
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<td>8FTBN</td>
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<td>8UF (v‐block)</td>
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<tr>
<td>8F8 Solid</td>
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<td>4F 135˚</td>
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<td>4F L Corner</td>
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<tr>
<td>K0BB (open bottom)</td>
<td><img src="K0BB.png" alt="Image" /></td>
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</tbody>
</table>

Note: Not all sizes are shown in this brochure. Please consult your nearest manufacturing facility. Metric shapes & sizes are also available. All units are also available in Mesastone, Trendstone Plus, Verastone and Verastone Plus. *Specify left or right. (Right shown)
Trendstone® Midwest Colors

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples. All colors available in Mesastone, Trendstone, and Trendstone Plus.
Pre-finished integrally colored with a smooth terrazzo finish.

Trendstone Plus filled and polished ground face masonry units have all the features of Trendstone with the additional benefit of a smooth terrazzo finish. Trendstone Plus are pre-finished, integrally colored concrete units with one-step installation and a maintenance free finish that is easy to clean.

Trendstone Plus Chamfers

Chamfered corners minimize chipping and eliminate sharp corners. Not all chamfer designations are shown. Any side can be chamfered.

Note: Not all sizes are shown in this brochure. Please consult your nearest manufacturing facility. Metric shapes & sizes are also available. All units are also available in Mesastone, Trendstone Plus, Verastone and Verastone Plus. *Specify left or right. (Right shown)
Midwest Colors & Textures

Bradley
Midwest Group B

Natural MW
Midwest Group A

Butterfield IV
Midwest Group A

Elmhurst
Midwest Group A

Lincoln
Midwest Group A

Springfield
Midwest Group A

Sandstone III
Midwest Group A

Sterling
Midwest Group A

Red Bud
Midwest Group B

Oak
Midwest Group B

County Gray
Midwest Group B

Sequoia
Midwest Group C

Tawny
Midwest Group B

Limestone II
Midwest Group C

Blooming
Midwest Group C

Jewelstone
Midwest Group C

Shadow Gray
Midwest Group C

Ash Charcoal
Midwest Group B

Burnt Sandstone
Midwest Group B

Gray Marble
Midwest Group C

Light Karmel
Midwest Group C

Spice
Midwest Group C

Knight Gold
Midwest Group C

Gray Stone
Midwest Group B

Irish Cream
Midwest Group C

Oreo Cream
Midwest Group C

Red Brick M
Midwest Group C

Almond Bark
Midwest Group C

Saddle Tan
Midwest Group B

Sundown
Midwest Group C

Aztec Tan
Midwest Group C

Baton Rouge
Midwest Group C

Gold Stone
Midwest Group C

Lasalle
Midwest Group A

Marengo
Midwest Group C

Sedalia
Midwest Group B

Belvidere
Midwest Group A

Light Brown
Midwest Group B

Colonial Red M
Midwest Group B

Midwest White
Midwest Group C

Midwest Slate
Midwest Group C

Irving Cream
Midwest Group C

Rocky Road
Midwest Group B

Coral
Midwest Group C

Adobe
Midwest Group B

Morning Glory
Midwest Group B

Parchment
Midwest Group C

Chicago Gray
Midwest Group C

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples. All colors available in Mesastone, Trendstone, and Trendstone Plus.
**Recycled material provides a sustainable masonry solution.**

Verastone is one of the original masonry units we created using recycled material that can contribute toward your project’s LEED goals. Verastone units are a natural solution providing your project with high-performance Green Building design and application flexibility and are available in ground or textured surface finishes.

**Verastone Chamfers**

Chamfered corners minimize chipping and eliminate sharp corners. Not all chamfer designations are shown. Any side can be chamfered.

- **8FE C1**
- **8FT C2**
- **8FET C4**
- **8FFE C5**
- **8FEE C11**

Note: Not all sizes are shown in this brochure. Please consult your nearest manufacturing facility. Metric shapes & sizes are also available. All units are also available in Mesastone, Trendstone, Trendstone Plus and Verastone Plus.

*Specify left or right. (Right shown)*
## Midwest Colors & Textures

<table>
<thead>
<tr>
<th></th>
<th>Chardonnay</th>
<th>Superior</th>
<th>Austin</th>
<th>Toffee</th>
<th>Old Country</th>
<th>Cambria</th>
<th>Fossil Reef</th>
<th>Cabernet</th>
<th>Schiraz</th>
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<tr>
<td>Verastone Textured</td>
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<td><img src="image26.png" alt="Image" /></td>
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</tr>
</tbody>
</table>
Wall Systems

Enhance the performance of your next project with our selection of performance upgrade options. From perfecting aesthetics to increased energy efficiency and noise reduction, explore our options to take your project to the next level.

PRODUCTS

Acousta-Wal®  34
EnduraMax®  36
InsulTech™  40
RainBloc®  44
Provides indoor and outdoor acoustic solutions.

Acousta-Wal is a performance upgrade option which may be added to a number of our structural concrete masonry units. It has a closed top and vertical slots on its face, exposing the inner cavity. Working much like an automobile muffler, the closed-end cavities of the different size units resonate to sound waves of different frequencies, converting them harmlessly to heat.

**Acousta-Wal Noise Reduction Coefficients**

<table>
<thead>
<tr>
<th>Size</th>
<th>Type</th>
<th>Surface</th>
<th>Frequency (Hertz)</th>
<th>NRC</th>
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<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td>125</td>
<td>250</td>
</tr>
<tr>
<td>4&quot;</td>
<td>I</td>
<td>Painted</td>
<td>.18</td>
<td>.82</td>
</tr>
<tr>
<td>6&quot;</td>
<td>I</td>
<td>Painted</td>
<td>.63</td>
<td>.80</td>
</tr>
<tr>
<td>4&quot;</td>
<td>IV</td>
<td>Painted</td>
<td>.21</td>
<td>.78</td>
</tr>
<tr>
<td>6&quot;</td>
<td>IV</td>
<td>Painted</td>
<td>.31</td>
<td>1.23</td>
</tr>
<tr>
<td>8&quot;</td>
<td>IVRF</td>
<td>Painted</td>
<td>.21</td>
<td>.78</td>
</tr>
<tr>
<td>10&quot;</td>
<td>IVRF</td>
<td>Painted</td>
<td>.32</td>
<td>.78</td>
</tr>
<tr>
<td>12&quot;</td>
<td>IVRF</td>
<td>Painted</td>
<td>.31</td>
<td>1.23</td>
</tr>
</tbody>
</table>

Acoustics vary with such dynamics as room size, flooring type, window treatments and seating materials. The approach to this analysis depends on if you’re trying to dampen sound within the room or trying to block sound from an adjacent area.

Contact your local sales representative to request an engineered acoustical study.
Equipped with acoustics, energy efficiency & moisture management.

Every component of the EnduraMax High Performance Wall System is specifically engineered to work together, forming a total cladding solution that adds superior energy performance. This extra layer of thermal protection means building owners can benefit from a cladding system that helps meet and exceed today’s demanding energy codes.

Meeting A Higher Standard

EnduraMax’s continuous insulation barrier is an ideal way to meet Energy Star’s strict energy performance score requirements. Its superior thermal performance will contribute to eligibility for a Designed to Earn the Energy Star (DEES) certification. With the help of EnduraMax, you can truly distinguish a building by being able to meet this prestigious standard for efficiency.

A System Approach

EnduraMax consists of three essential elements that combine to deliver unmatched performance & beauty to your project.

1. **Foam Installation Panels**
   - Polystyrene insulation panels include premolded cells on the outside face, which form the pattern for installing masonry units.
   - Drainage channels in the front and back of each panel allow any water that infiltrates the wall to escape.

2. **Masonry Units**
   - Masonry units insert easily into the cells of the foam panels for quick installation.
   - Stone, clay and concrete brick options offer endless unique aesthetically pleasing designs.

3. **EnduraMax Mortar**
   - A modified Type-S mortar with additives enhances pumpability, bond strength, adhesion, flexibility, and dimensional stability.

**Moisture Management**

As a total cladding solution, EnduraMax integrates all components necessary to achieve superior moisture management*.

**Sound Proofing**

The foam panels have an STC rating of 51* meaning even extremely loud sounds such as a stereo, lawn mower or traffic are only faintly heard.

**Wind Rating**

EnduraMax is tough enough to withstand the harshest environments. It’s been proven to resist wind speeds of more than 110 mph (ASTM E330) with no lasting deformation.

**Fire Resistance**

EnduraMax meets NFPA 285 and ASTM E119 fire resistance criteria. Tested walls successfully withstood one hour of exposure to temperatures of more than 1,700°F.

*based on independent tests

IAPMO Building Evaluation Report #315. www.iapmo.org
Exceeding Tomorrow’s Codes
As codes continue to move toward tougher building envelope standards, this superior thermal performance enables you to exceed increasingly stringent R-Value requirements, without having to add additional exterior insulation or build larger wall cavities.

Without EnduraMax®, wood frame buildings in certain regions may have to utilize 2x6 wall construction to accommodate increasing insulation demands. But EnduraMax’s continuous insulation barrier allows continued use of 2x4 wall construction while still surpassing tougher codes.¹

A Smarter Masonry
A high-performance exterior is critical to a building’s overall efficiency. According to the U.S. Department of Energy, heating and cooling systems account for nearly 28% of total energy use in commercial buildings. The EnduraMax system helps significantly reduce this energy loss. It outperforms other cladding options with an unmatched R13.6 thermal barrier¹ – saving energy and operating costs, while enhancing interior comfort.

<table>
<thead>
<tr>
<th>Cladding</th>
<th>R-Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EnduraMax</td>
<td>13.6 thermal mass</td>
</tr>
<tr>
<td>Stone 4''</td>
<td>.32</td>
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<tr>
<td>Brick 4''</td>
<td>.44</td>
</tr>
<tr>
<td>Fiber Cement Siding</td>
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<tr>
<td>Vinyl Siding</td>
<td>.61</td>
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<tr>
<td>Insulated Vinyl Siding</td>
<td>2.00 - 2.70</td>
</tr>
<tr>
<td>Rigid Foam Insulation</td>
<td>2.50 - 5.00</td>
</tr>
</tbody>
</table>

EnduraMax Performance Upgrade Options
The EnduraMax Wall System is a performance upgrade option that may be paired with a number of Echelon™ Masonry products to provide the aesthetics desired. Pair EnduraMax with the following Echelon product lines as well as Morency Stone Veneers.

Sources: ASHRAE Handbook of Fundamentals, ColoradoENERGY.org and Vinyl Siding Institute, Inc.
¹An independently conducted ASTM C1363-05 Thermal Performance Test determined the Effective R-Value of the EnduraMax System as R13.6 (R9.1 steady state), taking into consideration the thermal mass benefits of all system components.
²Assumes R-Value of .08 per inch.
³Assumes R-Value of 0.11 per inch.
⁴Assumes R-Value of 0.44 per inch.
⁵U.S. Department of Energy: Residential provisions of the 2012 IECC.
Colors & Textures

ENDURAMAX® MORENCY STONE - NORTHFIELD

Bordeaux  Chestnut  Kashmere  Cooper Stone
Landon Gray  Sunset Beige  Vincent

ENDURAMAX® MORENCY STONE - MILLER

Brittany Beige  Cottonwood  Hampton  Hill Country
Lennox  Salem  Aspen

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.
100% Thermally broken insulated masonry system.

InsulTech is a complete thermally broken insulated masonry system which includes a full system of masonry units with a multitude of color and texture options for aesthetic needs. This complete masonry system offers high thermal efficiency in an innovative design combining a pre-assembled structural masonry unit, molded EPS insulation insert and thin veneer face. InsulTech provides design flexibility, installation efficiency and is available in both standard finishes, as well as Trenwyth® architectural unit.

Shapes and Sizes

Note: Structural back-up block available in 6', 8', 10' and 12', (8' as shown). Product is also available in half-high units in 12 1/4" bed depth.

InsulTech ICMS Structure

BASF Neopor® EPS molded insulation insert.

Stainless Steel Anchors for Fire Integrity™ & wind load protection

Concrete Masonry Units

Left Hand Corner Continuation Unit

Left Hand L-Corner Unit

Right Hand L-Corner Unit

Right Hand Corner Continuation Unit

The InsulTech System

IAPMO Building Evaluation Report #420.

www.iapmo.org
Shapes and Sizes (continued)
Colors & Finishes

Mesastone®, Trendstone®, Trendstone® Plus Astra-Glaze-SW® and Smooth. Ask your sales representative for details.
RainBloc®
The complete water repellent system.

Quality control. Integrated and ready-to-use. With RainBloc, you don’t have to question whether the job was done right. Computerized factory batching of the water repellent agents in both the block and the mortar means no user error — delivering a level of precision you can trust and better end results for your project.

**HOW IT WORKS**

RainBloc patented water repellent technology is a two-part system that is integrated into both the block and mortar, creating a continuous protection system that’s delivered to your site, ready to go.

**ECHELON™ CMUS WITH RAINBLOC**

RainBloc technology is added to each CMU during the manufacturing process, assuring moisture resistance is an integral part of the block—so it won’t chip, wash or wear off for the life of the product. RainBloc bonds to the capillary pores of the cured material to inhibit moisture from migrating through the block. Instead, moisture drains toward flashing and weep holes. RainBloc can be integrated into Echelon’s complete offering of CMUs, including Trenwyth™ Masonry Block and Quik Brik™ Masonry Unit

**AMERIMIX® MORTAR WITH RAINBLOC® GP**

RainBloc GP is audited, measured and factory blended to assure a consistent water repellent mortar. It meets or exceeds all upload requirements of ASTM C1384: Standard Specification for Admixtures for Masonry Mortars and is available in 80 lb. or 3,000 lb. bulk bags (to be used with the Amerimix Silo Dispensing System).

**CONFIDENCE FROM DAY ONE**

RainBloc GP Traceable Technology assures your project is “installed as specified.” RainBloc GP from Amerimix is the only mortar solution that offers a patented formulation with a tracer component, allowing you to easily verify that the mortar you specified is the mortar that’s used—even after the mortar has hardened—helping assure total quality compliance. It’s added peace of mind for both architects and building owners, and only Amerimix offers it.

**TRULY INVISIBLE TECHNOLOGY**

The RainBloc System has no impact on aesthetics. In fact, it actually protects against efflorescence that can mar the look of masonry without sacrificing workability for the Mason.

See page 86 for more information on Amerimix products.
Utilizing quality materials and innovative manufacturing techniques, we have transformed and crafted the future of manufactured stone veneers. Artisan Masonry Stone Veneers provide unmatched beauty paired with design freedom, ease of installation, and durability that will last the life of your next project.

PRODUCTS

LIGHTWEIGHT
Cordova Stone™ 1-inch  48
Cordova Stone™ Accessories  50
Franklin Stone™ 1-inch  52
Franklin Stone™ Coping Units  54
Hillcrest™ Stone  56
Kensley™ Stone  58
Westpeak™ Stone  60
Porcelain Veneer  62

FULL-DEPTH
Bravissi™  64
Cordova Stone™  68
Franklin Stone™  70
Lamina® Stone  72
Techture Stone®  74
Waterford Stone®  78
Cordova Stone™
1-INCH

LIGHTWEIGHT VENEER
Delivering an economical option for a prestigious aesthetic.

From top to bottom, Cordova Stone can economically supply you with the look and feel of natural limestone. Cordova Stone 1-inch veneer is custom made with the look of natural stone and aggregate color consistent throughout the unit. This high-quality masonry product adds beauty and elegance to any project and gives you all the benefits of a modern masonry veneer.

Note: All units available in Ground Face, Rock Face, Texture Face or Chisel Face finishes.

Note: 4" full bed and many other sizes available.

See Page 101 for additional technical information
Our line of Cordova Stone Accessories provides the perfect finishing touch for projects utilizing Artisan Masonry Stone Veneer® products. The line includes transitional sills, trim stone and a keystone made from high quality Cordova Stone, giving your next project an economical option for a high end aesthetic.

*Sill narrows down to 2 3/16" height at front.
LIGHTWEIGHT VENEER

Franklin Stone™
1-INCH
Cast stone masonry emulating the look of natural limestone.

Whether you prefer smooth texture and clean lines, or a bold chiseled face, Franklin Stone combines the look of cast stone with manufactured masonry veneer’s modern advantages. Franklin Stone is made from a mixture of white Portland cement combined with fine aggregates, resulting in a highly dense product with a natural limestone texture.

Colors & Textures

<table>
<thead>
<tr>
<th>Smooth Face</th>
<th>Rock Face</th>
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</tr>
</tbody>
</table>

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.

See Page 101 for additional technical information
Franklin Stone™

COPING UNITS

Franklin Stone masonry products offer custom shapes to accent all building styles, including both commercial and residential projects. From the base, at or below grade, watertables, sills, medallions, quoins, banding cornice all the way up to coping. Franklin Stone is the choice of architects across the country.

Note: All sizes are nominal. Actual sizes less 3/8". Custom coping shapes are available.
Arches and Headers

Arch details over windows and openings tend to give a rich end element to your project. These come in many shapes and sizes that can be customized to fit the look that you are trying to achieve.

Flashing of Masonry Work

Install flashing at locations shown in the plans and in strict accordance with the details and the best masonry flashing practices. Install weep holes and vents at proper intervals (32" or 24" O.C. depending on unit length, above bed joint) at courses above grade, above flashing and at any water stops over windows, doors and beams. Consult NCMA TEK 5-1B “Concrete Masonry Veneer Details” for proper detailing information.

Control Joints

Control joints should be placed at no greater than 20’ O.C. Locate 2’-4’ from corners, at side of windows/ openings, at wall height changes, inside corners and at piers or columns. For more information on control joints, consult NCMA TEK 10-4 “Crack Control for Concrete Brick and Other Concrete Masonry Veneers”.

Horizontal Joint Reinforcing

Horizontal joint reinforcing should be used every 16” O.C. vertically as described in NCMA TEK 12-2B and TEK 10-4. When using oversized units 12” or 16” tall, install every course. This will greatly reduce or eliminate shrinkage or hairline movement cracks.

Weather Resistant

All units are made with an integral water repellent. This admixture is blended throughout the unit giving it outstanding water repellent characteristics. Not only does it not allow moisture into the wall but it also protects against efflorescence.

Mortar

Use Type N mortar for all veneer applications. Type S is too strong and may cause shrinkage cracks due to the high cement ratio. The use of an integral water repellent additive is recommended to help keep moisture out of the wall. Rake and caulk all window sills and coping head joints.

Applications

Franklin Stone offers custom shapes to accent all building styles, including both commercial and residential projects. From the base, at or below grade, watertables, sills, medallions, quoins, banding cornice all the way up to coping, Franklin Stone is the choice of architects all across the country.
Hillcrest™ Stone

LIGHTWEIGHT VENEER
Lightweight veneer option with unmatched aesthetics.

Hillcrest Stone is the newest innovation to the Artisan Masonry Stone Veneers® line. Boasting an aesthetic and modular system that emulates stacked stone, Hillcrest is designed to fit with tight dimensional tolerance which reduces installation time. This new lightweight offering gives even more options to maximize aesthetics and performance while minimizing installation time and cost.

Colors & Textures

Alpine

Sable

Timber

Colors & Textures

Alpine-Sable Field Blend (50/50)

Alpine-Timber Field Blend (50/50)

Sable-Timber Field Blend (50/50)

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.

Shapes & Sizes

[ LENGTH ]

2"

3"

4"

6"

[ HEIGHT ]

1 1/4"

[ THICKNESS ]
Kensley™ Stone

LIGHTWEIGHT VENEER
Lightweight veneer option with a new texture & upscale look.

Kensley Stone is the newest thin veneer to be added to the Artisan Masonry Stone Veneers® family of products. Boasting a traditional ashlar pattern with a ⅜” mortar joint, Kensley Stone is designed to reflect the timeless aesthetics of natural limestone look while minimizing install time and cost.

Colors & Textures

- Cabernet
- Dogwood
- Wheat
- Dogwood-Cabernet Field Blend (50/50)
- Dogwood-Wheat Field Blend (50/50)
- Wheat-Cabernet Field Blend (50/50)

Shapes & Sizes

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.

See Page 101 for additional technical information

www.iapmo.org
Providing versatility for both modern and traditional design.

Westpeak is another texture in the Artisan Masonry Stone Veneers® line to provide additional options to enhance your project. Boasting a pattern that provides a horizontal course at 2½" and 3" heights, this dry stack product is designed to fit with tight dimensional tolerance which reduces installation time.

Colors & Textures

- Magnolia
- Onyx
- Wheat

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.

Shapes & Sizes

<table>
<thead>
<tr>
<th>LENGTH</th>
</tr>
</thead>
<tbody>
<tr>
<td>8&quot;</td>
</tr>
<tr>
<td>10&quot;</td>
</tr>
<tr>
<td>12&quot;</td>
</tr>
<tr>
<td>14&quot;</td>
</tr>
<tr>
<td>16&quot;</td>
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</table>

<table>
<thead>
<tr>
<th>HEIGHT</th>
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<tbody>
<tr>
<td>2½&quot;</td>
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<td>3</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>THICKNESS</th>
</tr>
</thead>
<tbody>
<tr>
<td>1¾&quot;</td>
</tr>
</tbody>
</table>

See Page 101 for additional technical information.

www.iapmo.org
LIGHTWEIGHT VENEER

Porcelain Veneer
Rugged durability, low maintenance and endless design aesthetics.

Crafted in Italy, Mirage Porcelain Veneer empowers those looking to elevate their portfolio and drive distinction among their peers. Blending the line between high-end aesthetics and functionality in a dramatic fashion, porcelain veneer delivers instant depth to a living space, commercial property or business setting.

**Shapes & Sizes**

- **Length**
- **Height**
- **Depth**

1/8" - 1/4" D x 4 7/8" H x 18" L

**Colors & Textures**

**ARDSIE**
- Shore ADD01 NAT
- Island ADD02 NAT
- African Stone* ADD03 NAT
- Black Reef ADD04 NAT

*High shade variation
Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.

**QUARZITI 2.0**
- Glacier QR01 NAT
- Mountains QR02 NAT
- Waterfall QR03 NAT
- River QR04 NAT
- Mantle QR05 NAT
FULL-DEPTH VENEER

Bravissi

ECHELON MASONRY DESIGN GUIDE | ECHelonMASONRY.COM
Hand chiseled texture creates a unique aesthetic.

Modeled after classic, hand chiseled masonry, Bravissi veneer is the ideal choice for distinctive architectural design. With a dramatic face texture that creates a shadow effect, this modular veneer creates a unique aesthetic and offers broad pattern flexibility. Bravissi is great for both interior and exterior applications.

Finishes

Laying Patterns

Bravissi is a truly modular system and is easily adapted to suit the taste of the most discerning owners.

Colors & Textures

Kasota
Limestone
Kasota Pink
Brownstone
Tennessee
Endion Red
Millstone Gold
Winter White

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.
Shapes & Sizes

FACE & END
**All sizes also available in Satin™ Fine Finish**

- Ideal for architectural detailing
- Also available in caps and sills
FULL-DEPTH VENEER

Cordova Stone™

ECHELON MASONRY DESIGN GUIDE | ECHELONMASONRY.COM
Upscale aesthetic in an economical architectural unit option.

Cordova Stone high-density, pre-finished architectural concrete masonry unit achieves the look of natural stone by incorporating all-natural aggregates and recycled content to deliver the prestigious appearance that has remained a desired look for centuries.

Select Shapes & Sizes

Using state-of-the-art equipment, Echelon™ can customize standard units to fit your special design needs. Inquire about the endless ways that Cordova Stone can bring your design concept together, including archway pieces, coping units and sill pieces.

Unit Sizes

| 4" x 8" x 12" | 6" x 6" x 24" |
| 4" x 16" x 12" | 6" x 8" x 24" |
| 4" x 16" x 16" | 6" x 12" x 24" |
| 4" x 4" x 24" | 6" x 16" x 24" |
| 4" x 8" x 24" | 6" x 4" x 48" |
| 4" x 12" x 24" | 8" x 4" x 48" |
| 4" x 16" x 24" | 8" x 8" x 24" |
| 4" x 18" x 24" | 4" x 16" x 48" |

Less mortar joints means reduced labor costs and less chance of water infiltration. These units are machine made and can be cut to your specifications.

NEW LONGER SIZES

Note: Available in many other shapes and sizes.

Colors & Textures

EARTH BLEND

- Canyon Blend
- Desert Blend
- Mountain Blend
- Woodland Blend

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.

NATURAL

- Buff
- Limestone
- Alabaster
- Graphite
- Granite
- Midnight

Ground Face

Rock Face

Texture Face

Chisel Face

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.
FULL-DEPTH VENEER

Franklin Stone™
Cast stone architectural unit emulating the look of natural limestone.

Whether you prefer a smooth texture or a bold chiseled face, Franklin Stone is the ideal product for the look of cast stone with modern manufactured masonry advantages. Made from a mixture of white Portland cement and combined with fine aggregates, Franklin Stone is a highly dense product with a texture similar to natural limestone. And unlike other masonry units, the aggregates do not show, giving Franklin Stone its consistent, natural finish.

Select Shapes & Sizes

<table>
<thead>
<tr>
<th>Veneer Units</th>
<th>Flat Sill Units*</th>
<th>Sloped Sill Units*</th>
</tr>
</thead>
<tbody>
<tr>
<td>4 x 4 x 24</td>
<td>5 x 2 1/4</td>
<td>6 x 4</td>
</tr>
<tr>
<td>4 x 8 x 24</td>
<td>5 x 3</td>
<td>7 x 8</td>
</tr>
<tr>
<td>4 x 12 x 24</td>
<td>5 x 4</td>
<td>6 x 4 Chamfer</td>
</tr>
<tr>
<td>4 x 16 x 24</td>
<td>5 x 5</td>
<td>8 x 4</td>
</tr>
</tbody>
</table>

Note: Cast molded shapes are available in many sizes. Please ask for details.

Colors & Textures

<table>
<thead>
<tr>
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<tr>
<td>Smooth Face</td>
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<td>Texture Face</td>
<td>Chisel Face</td>
</tr>
</tbody>
</table>

Note: Custom colors are available. All color samples are representative only. For accurate color selection, ask your sales representative for samples.
FULL-DEPTH VENEER

Lamina® Stone
Distinct stack stone appearance providing ease of installation.

Lamina Stone emulates a stacked stone appearance and makes a bold statement. This multi-length stone offers a lot of benefits due to its unique installation and design. The original texture and color choices bring out the best in every project. Lamina may be used on the entire façade or just to accentuate certain architectural elements such as wall sections or skirting.

Laying Patterns

Lamina is a truly modular system and is easily adapted to suit the taste of the most discerning owners. By varying the ratio of solid jumper units, you can alter the pattern to best suit your individual style.

Shapes & Sizes

Lamina is a truly modular system and is easily adapted to suit the taste of the most discerning owners. By varying the ratio of solid jumper units, you can alter the pattern to best suit your individual style.
Unique large scale combines elegance with versatility.

Techture Stone masonry veneer combines design elegance with versatility in a large scale. Providing a rough-hewn finish in a larger size, designs using Techture Stone are sure to leave a grand impression. The unique aesthetic is great for interior as well as exterior applications, providing modular sizes for pattern flexibility.

Shapes & Sizes

Laying Patterns

Techture Stone is a truly modular system and is easily adapted to suit the taste of the most discerning owners.
Colors & Textures

ROCKFACE FINISH
(Also available in smooth finish)

Winter White (P)  Parchment (P)  Antique White (S)  Sahara (S)  Limestone (P)  October Yellow (S)  Honey Mustard (S)  Toffee (S)

Mojave (S)  Gold Rush (P)  Buckskin (S)  Autumn Tan (S)  Adobe (S)  Saddle (S)  Chocolate (S)  Hickory (S)

Burnt Hawthorne (C)  Cedar (S)  Maple (S)  Concord Red (S)  Paprika (S)  Warm Tone (S)  Onyx (S)  Ivory (S)

Gray Spice (P)  Midnight (P)

Colors are produced in Shakopee, Minnesota plant

Premium (P) and Custom (C) colors are available at an increased price versus Standard (S) colors. Note: Every effort has been made to assure accuracy in these colors. However, due to the nature of concrete and the molding process, as well as the process employed in printing these charts, colors may vary slightly. We recommend viewing actual samples as you make your color selection.
Colors & Textures

**BURNISHED FINISH**

- Burnished Finish
- Colors and Textures
- Premium (P) and Custom (C) colors are available at an increased price versus Standard (S) colors.
- Note: Every effort has been made to assure accuracy in these colors. However, due to the nature of concrete and the molding process, as well as the process employed in printing these charts, colors may vary slightly. We recommend viewing actual samples as you make your color selection.
Diverse array of sizes for ultimate design flexibility.

Waterford Stone evokes the natural, time-honed look of hand-cut stone with its antiqued edges and textured face while featuring the modern benefits of a manufactured masonry veneer. Waterford grants unparalleled design flexibility with its diverse array of sizes and colors, employing Oldcastle’s unique multiple color blending system that will last the life of your project.

Laying Patterns

Waterford Stone is a truly modular system and is easily adapted to suit any owner’s taste. By varying the ratio of 11½” large stones, you can alter the pattern to best suit your individual style.

Shapes & Sizes

Stones of 4” and 7” height are shipped on the same pallet, and the 11½” height is shipped on a corresponding pallet. Stone face dimensions are nominal and include a variable joint width from ⅜” to ¾”.

See Page 101 for additional technical information
Architectural Masonry is the evolvement of standard gray concrete masonry units into an aesthetically pleasing finished product. Physical performance, usability, and cost effectiveness have earned Quik Brik its unrivaled reputation for lasting value among architects and contractors alike. Whether a project is large or small in scale, you’ll find Quik Brik is the intelligent choice for exterior masonry.

PRODUCTS

Quik Brik® Traditional  84
Harvard Brik® 84
High quality, single-wythe masonry with color options.

Quik Brik is a durable and efficient product option with the rich look of brick in a variety of colors and shades. Architects & builders choose Quik Brik time and time again for it's first rate appearance and history of dependability.

**STANDARD SIZES**

- 4"D x 4"H x 16"L
- 8"D x 4"H x 16"L
- 12"D x 4"H x 16"L
- 4"D x 4" H x 12"L
- 8"D x 4"H x 12"L

**SIZES COMPATIBLE WITH ENDURAMAX® SYSTEM**

- 1¾"D x 2¾"H x 16"L
- 1¾"D x 4"H x 16"L

Note: Engineer with score.
Standard size piece can be scored. Check with your sales representative for additional size options and details on scoring.
Colors & Textures

QUICK BRIK TRADITIONAL - NATIONAL FLASHED COLORS

Autumn Flashed  Marous Flashed  Earthtone Flashed  Wilkesboro Flashed
Heritage Flashed  Sandalwood Flashed  Promenade Flashed  Richfield Flashed

HARVARD BRIK®
Harvard Brik Series offers all of the benefits of Quik Brik with a unique “blended” color palette to accentuate your building & provide color fastness.

Austin  Bismarck  Boston  Montgomery  Providence  Richmond  Coppertone
Sacramento  Tallahassee  Butternut Silk  Mesaba Calm  Charleston  Cheyenne  Ash Blend
Brandywine  Bronzestone  Cherokee  Deer Creek  Evergreen Gray  Mist  Monument
QT Black  Sandcastle  Slate

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.
Pre-blended Mortar, Grout & Stucco

Amerimix has been producing high quality products for almost 20 years. Our driving principal, to manufacture high-performing products that take the risk and guesswork out of jobsite mixing, is based on a process that combines formula development in our state-of-the-art laboratory with hands-on feedback from masons on the job. This process combined with high quality raw materials and factory controlled blending guarantees top quality preblended products on every job.

Roughly $2,000 loss on a 100,000 block job on a typical job

15% Loss of sand piles due to weather erosion

30% more mortar from an Amerimix pre-blended bulk bag than an average sand pile

1 Bulk Bag VS 1 Field Batch

Cement Lime

Cut mixing time in half for major labor savings

Stop wasting time mixing 50% faster with pre/blended mortar

Save 14 hours and $2,500 on an average job.

*Based on national average wage and a 100,000 block building.

Why is it considered completely normal and expected to lose at least 15% of the sand pile (on a typical job) from weather erosion? It's not only wasteful. It's unnecessary.
Why is it considered completely normal and expected to lose at least 15% of the sand pile (on a typical job) from weather erosion?

IT’S NOT ONLY WASTEFUL. IT’S UNNECESSARY.

15% LOSS OF SAND PILES DUE TO WEATHER EROSION = $2,000 LOSS

on a 100,000 block job

STOP WASTING TIME
MIX 50% FASTER
WITH PRE-BLENDED MORTAR

1 BULK BAG

1 FIELD BATCH

*30% is for the full job, based on a 100,000 block job.

CUT MIXING TIME IN HALF FOR MAJOR LABOR SAVINGS

SAVE 14 HOURS AND $2,500 on an average job!

*Based on national average wage and a 100,000 block building.
**PRE-BLENDED MORTAR**

Amerimix® offers 36 standard colored mortars as well as the ability to develop or match custom colors to meet your specific need. Amerimix colored mortars use high quality iron oxide pigments that disperse easily, providing uniformity and lasting color throughout the joint. Every batch of Amerimix mortar is evaluated with the most up-to-date color technology and quality control systems. This allows our technicians to account for naturally occurring color variations in cements and aggregate before the product reaches the jobsite.

*Note: Check with your local sales representative on colors in your region.*
DITCH the SAND PILE
Architectural Masonry is the evolvement of standard gray concrete masonry units into an aesthetically pleasing finished product. These products can be used as a stand alone or in conjunction with other masonry materials. Our Architectural CMUs are combined with an integral water repellent, and come in a variety of colors and textures.

PRODUCTS

- Split Face
- Rock Face
- Hand Crafted
- Structural Masonry
Concrete Masonry
Durable building units manufactured regionally and serviced locally.

Architectural CMUs provide a durable foundation and solution to commercial projects. Our CMUs are available in numerous finishes and colors to give architects and builders design versatility. Specific styles, colors and finishes are dependent on local availability. Most architectural CMUs are produced with integral water admixture to repel moisture and resist mold and pre-consumer recycled content may be added to help meet sustainable goals.

**Split Face**

Split Face masonry units are integrally colored pre-finished architectural concrete blocks with a beautiful, rough-hewn texture on one or more faces. Units are molded with two units attached face to face. The units are then mechanically split apart after having been cured, leaving the split face with a rough texture, similar to natural stone. The splitting process reveals the aggregates used in the block, so different aggregates will give different appearances and no two units are exactly alike.

**Rockface**

Rockface split texture on veneers or structural blocks offers the look of genuine cut stone. Aesthetics, combined with structural integrity, offers infinite design possibilities.

**Hand-Crafted**

Hand-Crafted masonry units are reminiscent of the rock-faced Richardsonian-Romanesque style which gained popularity in the late 1800's. The timeless Old World aesthetic is still in demand. The textured face allows sunlight and shadows to dance across a building’s façade creating an ever-changing and appealing finish.

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.
Structural Masonry

Our structural masonry collection enables designers to meld shape, scale and finish to create structures that satisfy design in purpose and appearance.

Hand Crafted Color Options

Cedar
Oak
Birch
Locust
White

Hand Crafted Panel
Hand Crafted Locust Panel
Hand Crafted Oak Panel

Available in Veneer or Structural size units.

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.
Northfield West (Mundelein, IL) Split Face Color Options

Split Face units are molded with two units attached face to face. The units are then mechanically split apart after having been cured, leaving the split face with a rough texture, similar to natural stone. The splitting process reveals the aggregates used in the block, so different aggregates will give different appearances and no two units are exactly alike.

Coffee (191)  Black Oak (192)  Linden (193)  Pecan (197)  Oak (21)  Balsa (33)  Walnut (3776)  Ash (43)  Black Walnut (4660)  
Cedar (4916)  Teak (4970)  Locust (53)  Red Cedar (5558)  Black Cherry (8539)  Red Maple (8540)  Maple (A3)  White Birch (8540)  White Balsa (Ivory)  
Mohawk Orange  Ironwood (NW)  Apple (Rose)  Red Oak (Russet)  White Pine (Std White)  Birch (A7)  

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.
Northfield East (Indianapolis, IN) Split Face Color Options

- Aspen Brown
- Charcoal
- Deep Mocha
- Garnet
- Heritage
- Mesa Buff
- Oak
- Peanut
- Sandstone
- Shadow
- Slate
- Soft Cotton
- White
- Wilksboro

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.

Northfield East (Sheffield, OH) Split Face Color Options

- Burnt Umber
- Charcoal
- Colonial Red
- Cream
- Desert Buff
- Ebony
- Erie Shale
- Ivory
- Masa Buff
- Milk Chocolate
- Northern Brown
- Pueblo Brown
- Reserve Cooper
- Sea Shell
- Smoke
- Western Gold
- White

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.
Northfield West-Miller (Bonner Springs, KS) Split Face Color Options

Carmel  Tan  Amber  Pumpkin  Summit Tan  Kansas White  Northern Rose  Red  Deep Buff


Terra Cotta  Grey

Note: All color samples are representative only. For accurate color selection, ask your sales representative for samples.
Northfield West-Anchor (Shakopee, MN) Rockface Finish

Rockface split texture on veneers or structural blocks offers the look of genuine cut stone. Aesthetics, combined with structural integrity, offers infinite design possibilities.

Premium (P) and Custom (C) colors are available at an increased price versus Standard (S) colors.

Note: Every effort has been made to assure accuracy in these colors. However, due to the nature of concrete and the molding process, as well as the process employed in printing these charts, colors may vary slightly. We recommend viewing actual samples as you make your color selection.
Technical Information
### Waterford Stone®

- **Minimum Compressive Strength**: 4,000 psi
- **Absorption Rate Average**: 6%
- **Minimum Density**: 120 lbs. / cu. ft.
- **4” & 7” piece pallet weight**: 3,564 lbs./104.8 sqft.
- **11 1⁄2” piece pallet weight**: 3,496 lbs./92 sqft.
- **11 1⁄2” chiseled piece pallet weight**: 4,048 lbs./92 sqft.

ASTM C1634 - Specification for Solid Dry-cast, Concrete Facing Units – tests in accordance to ASTM C140.

### Lamina® Stone

- **Minimum compressive strength**: 4,000 psi
- **Absorption Rate**: Average 6%
- **Minimum Density**: 120 lbs. / cu. ft.
- **Solid units**: 3,150 lbs./90 sqft.
- **Simulated joint units**: 3,060 lbs./90 sqft.

ASTM C1634 - Specification for Solid Dry-cast, Concrete Facing Units – tests in accordance to ASTM C140.

### Cordova Stone™ 1-Inch

<table>
<thead>
<tr>
<th>Building Code</th>
<th>ASTM Standard</th>
<th>Cordova Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressive strength</td>
<td>Avg. 7,000 psi</td>
<td>4,170 psi</td>
</tr>
<tr>
<td>Cold water absorption</td>
<td>Avg. 4%</td>
<td>8.26 lbs./cu. ft.</td>
</tr>
<tr>
<td>Density (normal weight)</td>
<td>Avg. 130 lbs./cu. ft.</td>
<td>133 lbs./cu. ft.</td>
</tr>
</tbody>
</table>

ASTM C90-11b - Standard Specification for Load Bearing Concrete Masonry Units.  
ASTM C1364 - Standard Specification for cast stone veneer as listed in chart.

### Hillcrest™ Stone

- **ASTM C170 Compressive Strength**: Average 2,800 PSI
- **ASTM C1670 Absorption Rate**: Average 6%
- **ASTM C666 Freeze Thaw Resistance**: Mass loss less than 1%
- **ASTM C67 Freeze Thaw Resistance**: Mass loss less than 1%

ASTM C482 Shear Bond Strength, Type S mortar.  
ASTM E84 Surface Burning Characteristics of Building Materials.

### Franklin Stone™ 1-Inch

- **Compressive strength**: Avg. 8,000 psi
- **Cold water absorption**: Avg. 2.5%
- **Density**: 130 lbs./cu. ft. or greater
- **Solid units**: 3,150 lbs./90 sqft
- **False joint units**: 3,060 lbs./90 sqft

ASTM C90-11b - Standard Specification for Load Bearing Concrete Masonry Units.  
ASTM C1364 - Standard Specification for cast stone veneer as listed in chart.

### Westpeak™ Stone

- **ASTM C1670 Compressive strength**: 2,800 psi
- **ASTM C1670 Absorption Rate**: Average 6%
- **ASTM C666 Freeze Thaw Resistance**: Mass loss less than 1%
- **ASTM C67 Freeze Thaw Resistance**: Mass loss less than 1%

ASTM C482 Shear Bond Strength, Type S mortar.  
ASTM E84 Surface Burning Characteristics of Building Materials.

### Kensley™ Stone

- **ASTM C170 Compressive Strength**: Average 2,800 PSI
- **ASTM C1670 Absorption Rate**: Average 6%
- **ASTM C666 Freeze Thaw Resistance**: Mass loss less than 1%
- **ASTM C67 Freeze Thaw Resistance**: Mass loss less than 1%

ASTM C482 Shear Bond Strength, Type S mortar.  
ASTM E84 Surface Burning Characteristics of Building Materials.