

Masonry Performance

Upgrade Options



ECHELON™
Quality Masonry Products from Oldcastle®



ECHELON™

THE ECHELON™ PORTFOLIO: SIX PRODUCT CATEGORIES FOR EVERY PROJECT NEED

TRENWYTH®
ARCHITECTURAL
MASONRY

ARTISAN
MASONRY
STONE VENEERS®

QUIK-BRIK®
SINGLE-WYTHE
CMU

PERFORMANCE
UPGRADE
OPTIONS

ARCHITECTURAL
CMUs

AMERIMIX®
BAGGED
GOODS

ONE BRAND, INNUMERABLE OFFERINGS

You start with a vision: how you want your building to look, perform and function for years to come. **What you need is a partner:** one with the know-how, resources and support to meet your aesthetic ideals and performance must-haves. What you need is Echelon.™

We are the leading supplier of masonry products and services for North America's building and construction market. Our strong foundation provides unparalleled attention to every detail of your project—from initial spec to final delivery, from critical quality control standards to essential support onsite.

THE NEXT GENERATION OF MASONRY

Echelon is backed by the robust technical know-how of Oldcastle® Architectural, and we invest millions of dollars annually in the research and development of new products. You can trust that the products and services under the Echelon brand are also rooted in practicality for modern construction demands. They look beautiful while still offering your project the latest efficiencies.

NATIONAL PRESENCE, LOCAL SERVICE AND SUPPORT

Our national infrastructure includes more than 150 operating locations. This vast network means we can supply what you need, when and how you need it—including keeping costs in check on freight charges and assuring last-minute requests get met on time and on budget.

PERFORMANCE UPGRADES

MASONRY HAS REACHED A TURNING POINT






Harsher building codes. Fewer qualified masons. Tighter rules for energy efficiency. Even the weather seems against you. Architects are constantly being challenged to get more out of their masonry. With Echelon Performance Upgrade Options, you can deliver.

MEET ANY CHALLENGE

Do you need better insulating properties? More acoustical protection? Tighter water control? All of the above? Echelon Masonry Performance Upgrade Options help you get the most out of Echelon's most popular masonry products, including our Trenwyth®, Artisan® Veneers and Quik-Brik® lines. Now you can ensure that your projects attain both the beauty and performance that you envision.

DESIGNED TO WORK HARDER

Echelon Performance Upgrade Options cover a multitude of must-haves for today's architects. And every upgrade is engineered specifically by Echelon, creating total masonry solutions that work harder for your project.

	 ENERGY EFFICIENCY	 ENHANCED AESTHETICS	 STREAMLINED INSTALLATION	 MOISTURE MANAGEMENT	 ACOUSTICS
InsulTech™ Insulated Concrete Masonry System	○		○	○	○
EnduraMax™ High-Performance Wall System	○		○	○	○
Acousta-Wal®			○		○
Monumental® CMUs		○		○	
Terrazo Finish CMUs		○		○	
Water Repellant Admixture				○	

PERFORMANCE UPGRADE

InsulTech™

Insulated Concrete Masonry System

**STRUCTURAL
BLOCK,
INSULATION
AND VENEER
ALL IN ONE.**

InsulTech includes
block units for every
application need.



Achieve more with a single block

InsulTech™ is a pre-assembled structural masonry unit, molded EPS insulation insert and thin veneer face all-in-one. This complete assembly not only improves overall energy efficiency, but reduces installation time—since one block does it all. It's available in both standard finishes, as well as Trenwyth architectural block colors and textures.

InsulTech combines with a
CMU and veneer to provide a
16.2 R-Value at 75°F



ENERGY EFFICIENCY

InsulTech BASF Neopor® EPS molded insulation inserts combine with a CMU and veneer to provide a 16.2 R-Value at 75°F. They also meet 2012 IECC Energy codes from Zones 1 through 7.



AESTHETICS

A single block provides color and texture for both interior and exterior surfaces.



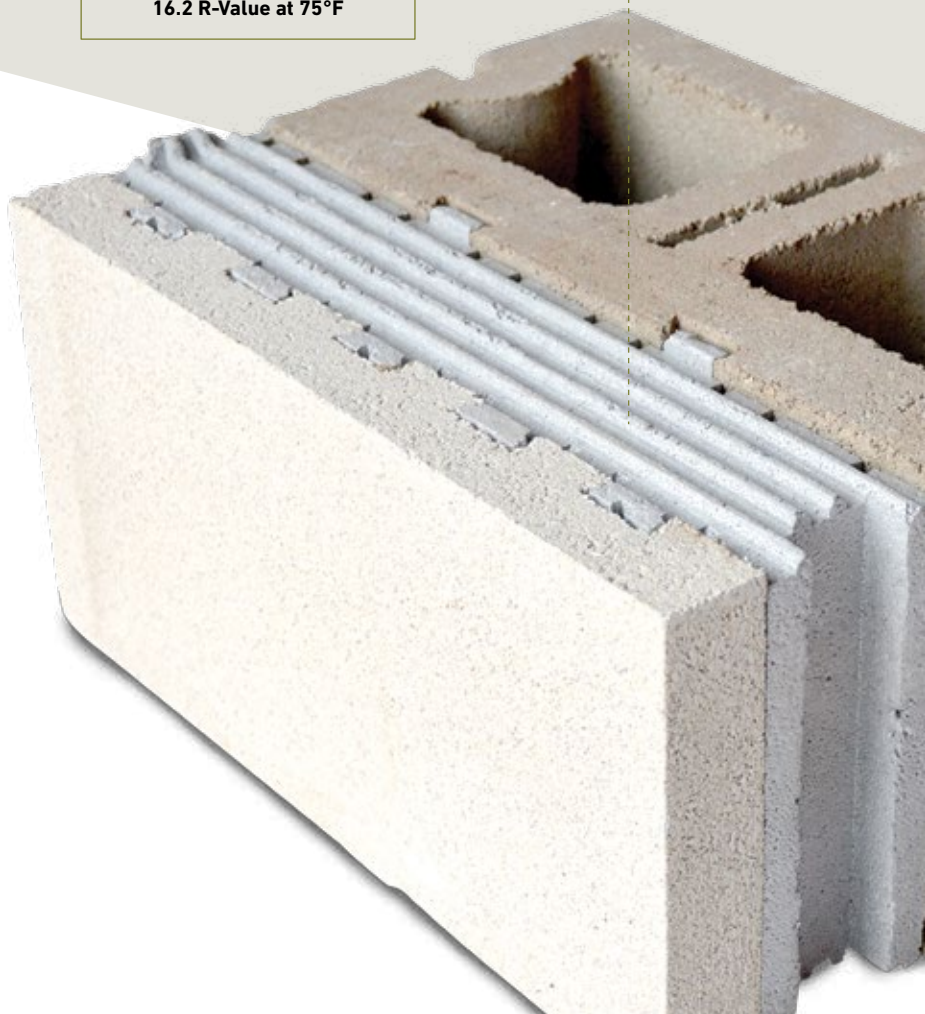
MOISTURE MANAGEMENT

The EPS inserts, combined with compliant closed cell gasket material, provide continuous insulation and air tightness for superior moisture management.



ACOUSTICS

Combined insulation and CMU provide increased acoustical comfort.



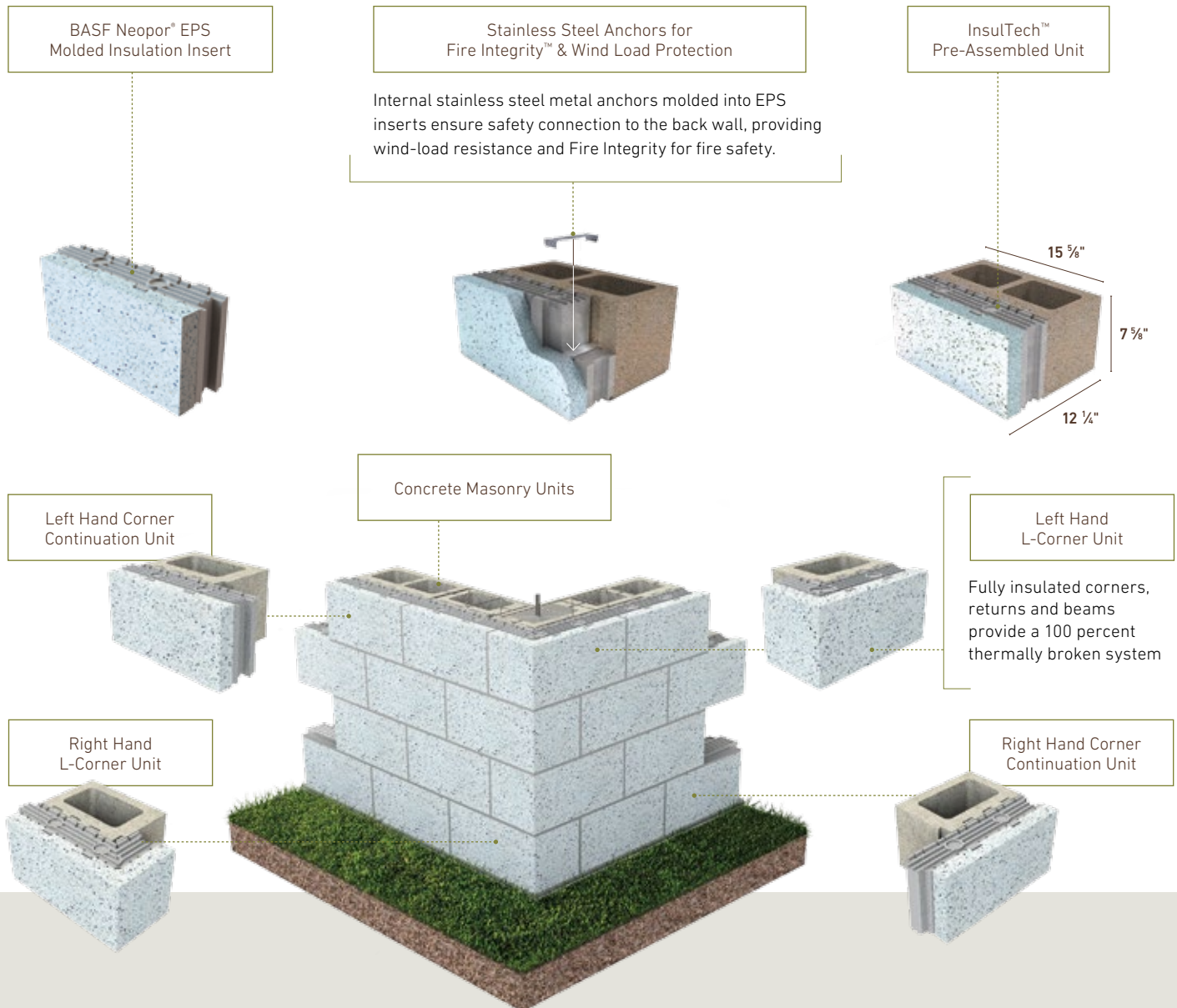
AVAILABLE FINISHES:

- › All Trenwyth® Masonry Block lines
- › Select Architectural CMUs

Visit EchelonMasonry.com
for more information

PERFORMANCE UPGRADE

InsulTech™ Insulated Concrete Masonry System



The InsulTech system offers continuous insulation, moisture management, wind and fire resistance, as well as interior and exterior aesthetics in one assembly. It combines a structural CMU and molded insulation insert with a thin veneer face.



USHERING A NEW ERA WITH INSULTECH

INSULATED MASONRY SYSTEM HELPS RENEW
LEGENDARY SPORTS COMPLEX

The Banta Bowl sports complex of Lawrence University in Appleton, Wisconsin, has served the students and athletes of the school for nearly 50 years, but the time had come for the legendary venue to receive a dramatic makeover. The extensive renovation included new bleachers, lighting, scoreboard and an upgraded dual-sport synthetic field. However, the centerpiece of the new construction was to house locker-room space for the Lawrence University Vikings, as well as visitors' locker rooms and spaces for officials, concessions, ticket sales, public restrooms, and storage.

To usher in this new era of Viking athletics, lead architect Brad Kwasny of Bray Architects, looked to an innovative new product to accomplish multiple construction tasks in a single assembly by selecting the InsulTech™ system.

"It was one of those situations where we were looking for speed of construction within a limited space, with a limited budget," said Kwasny. InsulTech provided a way for the team to meet all of these goals by incorporating a number of wall attributes into a single step.

"Once the masons got into a rhythm of working with this new system, **it installed much more quickly than the traditional way of laying the CMU, then spraying insulation, and then adding a veneer,**" said Kwasny. "The finished wall also took up significantly less space by reducing what would have been a 15.5 inch wall depth to 12.25 inches."

The design of InsulTech ICMS allows for either standard CMU or architectural CMU on the interior with the option of a completely different architectural face on the exterior. For the Banta Bowl project, Kwasny chose painted CMU for the interior and a variety of faces, including Trenwyth Mesastone and ground face Trendstone block, for the exterior.

"It was one of those situations where we were looking for speed of construction within a limited space, with a limited budget."

Brad Kwasny
Bray Architects

PERFORMANCE UPGRADE

EnduraMax™ High-Performance Wall System



A complete high-performance wall system

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 along with acoustical protection and moisture management. Plus, since EnduraMax works with a variety of the most popular Echelon masonry products, you can use it to improve the performance of any project in your lineup, without sacrificing aesthetics.



ENERGY EFFICIENCY

A continuous foam panel insulation barrier provides an ideal solution for meeting ENERGY STAR® performance score requirements. It also offers superior thermal performance that enables you to exceed increasingly stringent R-Value codes, without having to add additional exterior insulation or build deeper wall cavities.



AESTHETICS

You don't have to sacrifice performance for the look your building needs. EnduraMax is designed to work with our most popular masonry lines — Artisan Masonry Stone Veneers, Trenwyth Masonry Block and Quik-Brik Masonry Units, as well as Clay Brick.



MOISTURE MANAGEMENT

As a total cladding solution, EnduraMax integrates all components necessary to achieve superior moisture management. Channels in the front and back drain any water that may infiltrate the wall, protecting the structure from damage.



ACOUSTICS

The EnduraMax system has an STC rating of 61dB as per testing done in accordance with ASTM E90 — meaning even extremely loud sounds such as a stereo, lawn mower or traffic are only faintly heard. This enhanced acoustical comfort means occupants can enjoy their space in peace.

Complete System
offers insulation value
of R9.2 steady state



THE FOLLOWING MASONRY UNITS CAN BE USED WITH THE ENDURAMAX SYSTEM:

- › Artisan Masonry Stone Veneers®
- › Trenwyth® Masonry Block
- › Quik-Brik® Masonry Units

Visit [EchelonMasonry.com](https://www.EchelonMasonry.com) for more information

PERFORMANCE UPGRADE

EnduraMax™ High-Performance Wall System



It outperforms everything: including your expectations.

A high-performance exterior is critical to a building's overall efficiency. The EnduraMax Wall System helps reduce energy loss and may outperform other cladding options, saving energy and operating costs while enhancing interior comfort and exterior aesthetics.



ENGINEERED FOR FASTER INSTALLATION.

The EnduraMax installation process significantly reduces construction time:

1

Polystyrene insulation panels include premolded cells on the outside face, which form the pattern for installing masonry units.

2

Masonry units insert easily into the cells of the foam panels for quick installation.

3

Preblended, proprietary mortar that complies with ASTM C270 enhances pumpability, bond strength, flexibility and dimensional stability.

Wind Rating: Depending on building parameters, EnduraMax Wall System can withstand wind speeds up to 140 MPH. Tested in accordance with ASTM E330.

Fire Resistance: EnduraMax may be used over any exterior fire resistance rated assembly without changing the assigned hourly rating, allowing it to meet a 2-hour fire rating. Tested in accordance with ASTM E119. EnduraMax is also NFPA 285 compliant.

Seismic: EnduraMax may be installed in seismic zones A to D. Please refer to the EnduraMax Evaluation Report sections 5.7, 5.8 and 5.9 for specific information.*



2x4 Construction

Batt Insulation
R13-15
+
EnduraMax Wall System
R9.2

Total Insulating R-Value
19.2 - 20



2x6 Construction

Batt Insulation
R19-21
+
Insulated Vinyl Siding
R2.5

Total Insulating R-Value
16.2 - 17.1

*The EnduraMax Wall System IAPMO Building Evaluation Report is available at EchelonMasonry.com.



Performance Upgrade Option

EnduraMax™ High-Performance Wall System

Discover new ways
to get the most out of
your Echelon Masonry.



Performance Upgrade Option

EnduraMax™ High-Performance Wall System (left and right)

PERFORMANCE UPGRADE

Acousta-Wal®



Add the beauty of sound design.

Whether you're building a school gym, lecture hall or performing arts center, Acousta-Wal® offers a comprehensive solution for sound proofing by absorbing sound waves. Road noise, occupant noise — even difficult-to-control low frequency sounds — are absorbed and isolated.



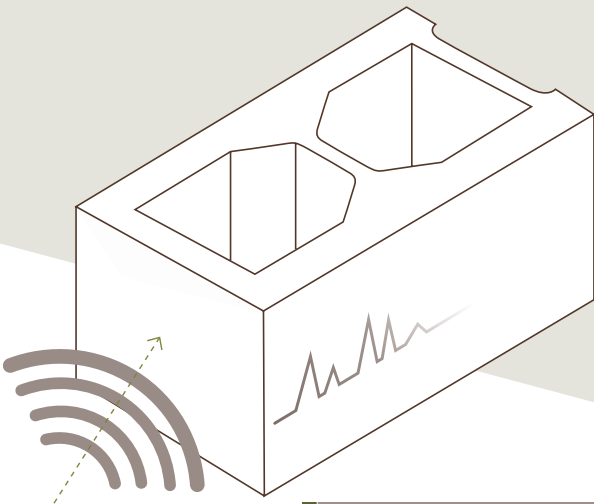
ACOUSTICS
Designed to absorb all sound frequencies and control sound transmission.



AESTHETICS
A single block provides the surface color and texture along with sound control.



SOUND-CONTROL STRUCTURAL BLOCK AND FINISH IN ONE UNIT
Single trade installation of finished load-bearing or non-load-bearing walls saves time and money.



UNIQUE SOUND-ABSORBING DESIGN

Acousta-Wal sound absorbing units are structural concrete masonry units with a closed top and vertical slots on the face exposing the inner cavity. Working much like an automobile muffler, the closed-end cavities resonate sound waves of different frequencies, converting them harmlessly to heat.

AVAILABLE FINISHES:

- > Trenwyth® Astra-Glaze SW+®
- > Trenwyth® Mesastone®
- > Trenwyth® Verastone®
- > Trenwyth® Trendstone®
- > Standard grey block masonry units

Visit EchelonMasonry.com for more information

SIZE	TYPE	SURFACE	FREQUENCY (HERTZ)						
			125	250	500	1,000	2,000	4,000	NRC*
4"	I	Painted	.18	.82	.40	.35	.43	.36	.50
6"	I	Painted	.63	.80	.41	.40	.31	.51	.50
4"	IV	Painted	.21	.78	.97	.80	.68	.73	.80
6"	IV	Painted	.31	1.23	.71	.71	.65	.68	.85
8"	IVRF	Painted	.21	.78	.97	.80	.68	.73	.80
10"	IVRF	Painted	.32	.78	.97	.80	.68	.73	.80
12"	IVRF	Painted	.31	1.23	.71	.71	.65	.68	.85

ACOUSTA-WAL NOISE REDUCTION COEFFICIENTS

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 Echelon representative to request an engineered acoustical study.**

Beautiful aesthetics combine
with Echelon technology.



Performance Upgrade Option

High-Polish CMU and Water Repellant Admixture (left to right)



Performance Upgrade Option

High Polished

PERFORMANCE UPGRADE

Monumental[®] CMUs



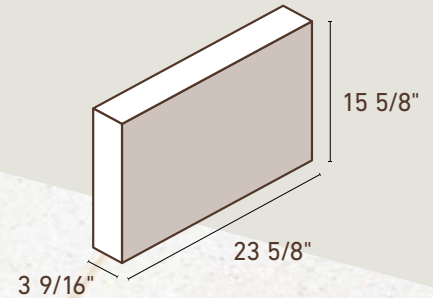
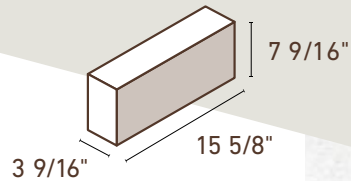
Add high aesthetic in a big way.

Big, bold and striking, Monumental® CMUs take our most popular Trenwyth lines and offer them on a grand scale. Each over-sized CMU opens up your design options—create large-scale walls, columns and arches; make a unique impression in an entryway; or draw attention to a special architectural feature. An extensive color palette and a wide variety of shapes and scoring patterns open projects to maximum design flexibility.

Standard-sized masonry unit

VS

Monumental CMU



AESTHETICS

More than 20 different Monumental shapes and sizes are available, including keystones, sills, column wraps, bullnoses and more. Use in various combinations, inside or out, to create a focal point or make a signature statement.

To view the complete line, visit **EchelonMasonry.com**



EASY-TO-CLEAN

Units provide a wall surface with a high degree of graffiti-resistance.



FIRE PROTECTION

Depending on the thickness and internal configuration of the block, Monumental units can offer up to a 4-hour fire rating.



MOLD AND MOISTURE RESISTANT

Manufactured with a water repellant admixture, Monumental units repel moisture and prevent mold and efflorescence.

Standard-sized masonry unit

Monumental CMU

AVAILABLE FINISHES:

- › Trenwyth® Verastone® & Verastone Plus®
- › Trenwyth® Trendstone® & Trendstone Plus®
- › Trenwyth® Mesastone®

Visit **EchelonMasonry.com** for more information

PERFORMANCE UPGRADE

Filled, Polished & High Polished



Give your project a smooth finish.

Our Terrazzo finish process enhances the look of select CMUs while maintaining all the benefits of the block's pre-finished state — one step installation, maintenance-free wear and tear and an easy-to-clean surface. Available as a filled and polished or high polished option.



AESTHETICS

Enhance the beauty in an accent feature or add shine and gloss to interior surfaces or an exterior wall. The exceptionally smooth finish provides a terrazzo, granite-like feel.



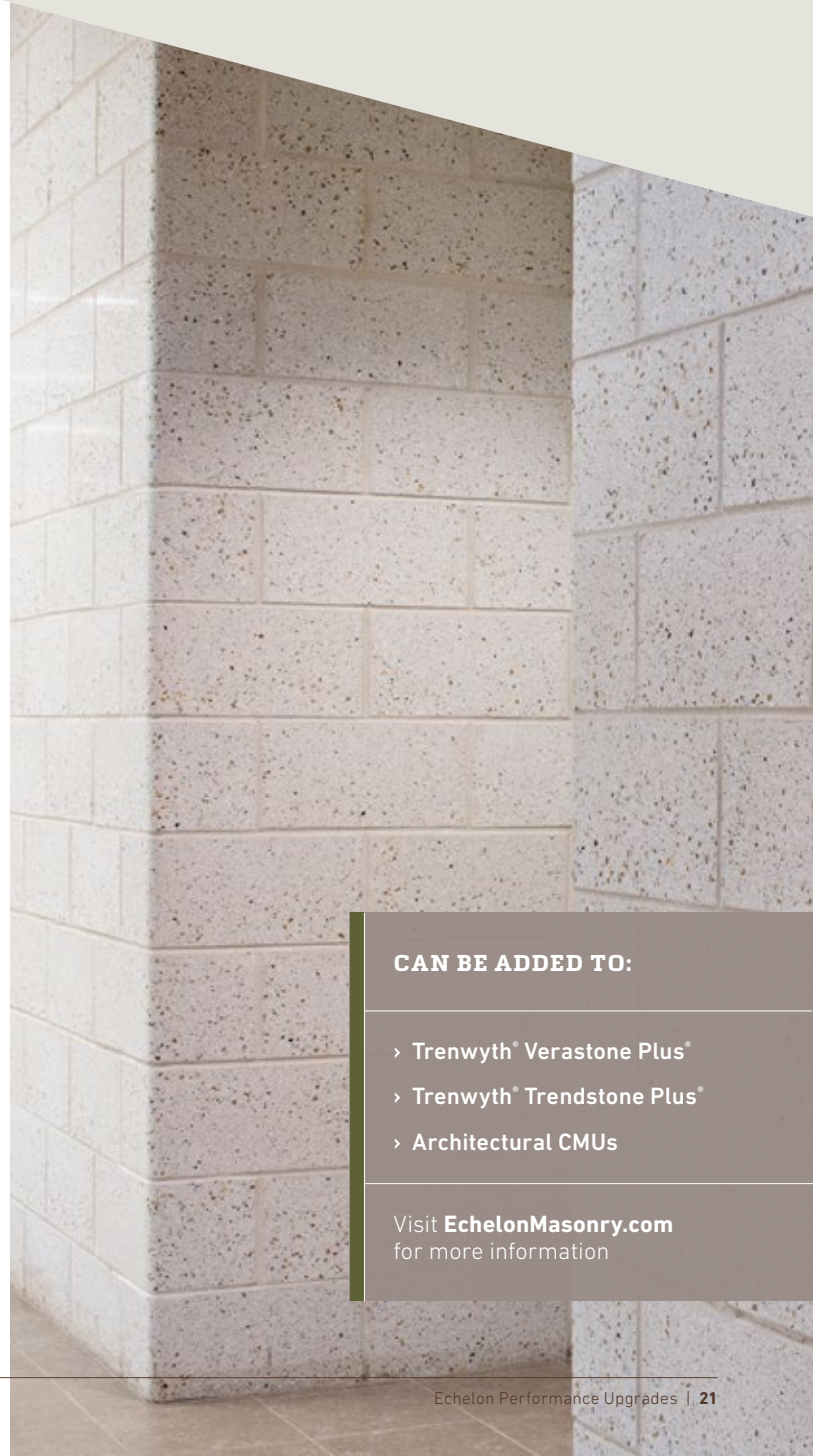
LASTING BEAUTY

The maintenance-free surface is mold, moisture and mildew resistant.



ONE-STEP INSTALLATION

Helping you save on installation time and costs.



CAN BE ADDED TO:

- › Trenwyth® Verastone Plus®
- › Trenwyth® Trendstone Plus®
- › Architectural CMUs

Visit EchelonMasonry.com for more information

PERFORMANCE UPGRADE

Water Repellant Admixture



Lifelong moisture protection comes standard.

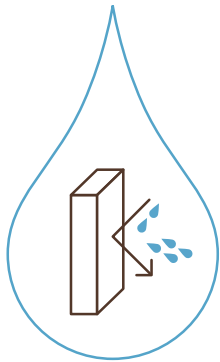
A patented moisture repellant admixture is added to every Echelon concrete masonry block product during the blending phase — enhancing the masonry's ability to resist mold and efflorescence. By becoming an integral part of the masonry unit's composition, this specially engineered formula creates a moisture barrier that will last the life of the building — providing resistance to water penetration. Amerimix preblended mortars are also available with water repellant admixtures.



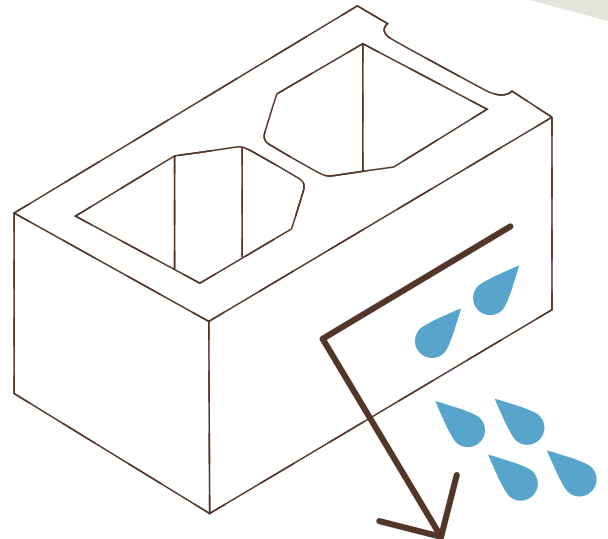
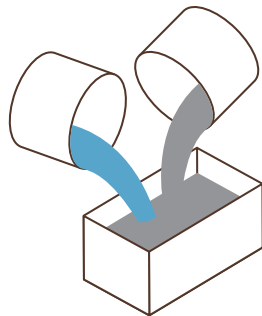
MOISTURE MANAGEMENT

Water repellant process that has proven results.

This specially engineered formula creates a moisture barrier that will last the life of the building.



Water Repellant Admixture



Water Repellant Masonry Block

Mixture added to Concrete Masonry Block During the Blending Phase; may also add to Amerimix mortar

When water repellant mortars with RainBloc GP are used in conjunction with concrete masonry units manufactured with RainBloc, **the National Concrete Masonry Association Rate this wall ensemble “E” for excellent using ASTM E 514.**

AVAILABLE ON:

- › Artisan Masonry Stone Veneers®
- › Trenwyth® Masonry Block
- › Quik-Brik® Masonry Units
- › Architectural CMUs
- › Amerimix Mortars

Visit **EchelonMasonry.com** for more information

Contact your Echelon™ representative to obtain an Echelon Design Guide
and product samples or visit **EchelonMasonry.com**



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