Spectra - Glaze® II
Factory Glazed Concrete Masonry Units

Visit us on the web at: www.spectraglaze.com
1-800-638-3188
Introduction

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What is Spectra-Glaze® II Block?
Lightweight, modular concrete block with a permanent glazed facing one or more surfaces, integrally bonded to the base block in a unique manufacturing system.

Why Spectra-Glaze® II Units?
You enjoy design opportunities with a wide choice of color, texture, scale and pattern. Spectra-Glaze® II units provide superior resistance to soiling, chemicals, marking, impact, abrasion, urine, blood and acid rain. They are fire safe and non-toxic and met all national building codes - and meet U.S.D.A. and OSHA requirements for sanitary walls. This excellent wall material provides the durability, fire resistance, insulation, sound control and all other constructional advantages of concrete masonry. With Spectra-Glaze® II units you build and finish a wall with one unit, in one labor operation, saving time and money. Spectra-Glaze® II units have been satisfying design needs in all kinds of building for more than four decades.
Baltimore Gas & Electric Building, Columbia, MD
Architect - Design Collective, Inc.

Pittsburgh International Airport, Pittsburgh, PA
Architect - Tasso Katselas Associates, Inc.
New interior wall surface that gives the look and feel of hand-tooled embossing, while still providing all the low maintenance and build-and-finish benefits you expect of a glazed block. For full appreciation call your local representative for a sample.
Pittsburgh International Airport, Pittsburgh, PA Architect Tasso Katselas chose Burns & Russell's Classic Series units to compliment the airport's grand scale.

**Mississippi River Mural** for Blandon Paper Company, Grand Rapids, Michigan

**Engraved™ Series**

Standard signs or detailed custom murals. Available on individual modular units or in murals. Unlimited possibilities. Permanent, professional quality and at reasonable cost.

**Imperial Wal™ Series**

Monumental Sizes-

12"x12", 16"x16" and larger face sizes. Dramatic innovation in the scale and appearance of masonry walls - now combined with the advantages of Spectra-Glaze® units. Introduced by The Burns & Russell Company and Spectra Sciences, LLC to provide dramatic architecturally desirable monumental sizes and appearances. Consult your representative for face sizes and load bearing thicknesses now available in your area.

Also available

12"x24" 16"x16" 16"x24"*These large size and ovals are also available from the Spectra Group as a Split or Ground Stone finish as a Monumental™ series raw block.
Innovative Soft Corners transform internal corners from sharp edges that are difficult to maintain, to the soft, easily cleaned 8" radius corners. The 16" external radius helps traffic flow, visibility and safety in congested areas. Both corners enhance appearance by keeping walls on modular bond, eliminating those unsightly added mortar joints at the corners. These curvilinear block are also available through the Spectra Group and are provided under the brand name Perfect Corner™ Block.
People-Friendly™ Series

People Friendly™ Corners are available 4", 6", 8" and 12" wall thickness

- Clean appearance of angular corners; damage resistance of bullnose
- Excellent performance in high traffic areas
- Consistent with ADA design
- Through-wall units eliminating expense of cutting and piecing
- Six crisp reference points for ease of alignment
- Simplified construction saving time and money
- Opportunity for neat, efficient change of wall colors

Contact your local representative for precise configurations.

Trym-Saver™ Series

Patented Trym-Saver™ Closure series is formed from the same composition as the glazed face on full size block. Contact your local representative for availability, precise sizes and backing.
For walls with a scored glazed finish, unusual patterns and special effects in scale and design are achieved by scoring the face during manufacturing and are practical and economical.

When stack bond appearance is selected, use stack bond construction.

All structural joints should be raked back at least 1/4” and allowed to set. Tuckpoint raked joints and scored joints at the same time.

For walls with a glazed finish on both sides, use two-single-faced units. Use of two single faced units improves wall appearance and reduces the possibility of misalignment, because masonry units are typically installed aligning one side.

Typical Scored Patterns

8”x8” Score - DA 1  5”x8” Score - DA 5  4”x8” Vertical - DA 7

4”x8” - DA 2  4”x16” - DA 11  4”x4” - DA 12

Brick Score - DA 3  6 Vertical Brick - DA 9  Customize your own design

Consult your local manufacturer for availability.

Design, physical appearance, trade dress and pattern are copyright and trademark property of IP Technologies, LLC and is licensed by Spectra Industrial Licensing Corp. (SLC) and the Spectra Technologies Group and the Spectra Group International. All rights reserved. Patent protected.
Create interest with your own custom raised or recessed designs. Available in 8"x16", 12"x12", 16"x16" and larger face sizes in virtually any color. Interior and exterior application.

Standard Embossed Patterns

Poly-Rib 300
12"x12"

Poly-Rib 200V
8"x16"

Poly-Rib 100H
8"x16"

Ever changing two-tone appearance with changes in the angle of reflected light on these block made with an innovative technology. New and interesting design patterns and logos for 8"x16" as well as 12"x12" and 16"x16" Spectra-Glaze® units. Contact your local representative for availability of custom patterns.
TEST RESULTS
Spectra-Glaze® units are tested at Froehling & Robertson, Materials Engineering & Testing (MET), Penniman & Browne, Southwest Research, U.S. Testing, Radiation Technology (RT), South Florida Testing (SFT), Underwriters Labs of Canada, Warrington Research Center, and other independent laboratories to assure conformance to published specifications for pre-faced concrete masonry. Copies of all test reports are available upon request.
Special testing can be obtained.

Glazed Facing Requirements
Conforms to ASTM C 744 and Federal Specification SS-C-621b, Form B, for Pre-faced Concrete Masonry Units with respect to:

Resistance to Crazing
No evidence of crazing, cracking or spalling.

Adhesion of Face to Block
No failure.

Abrasion Resistance
Highly resistant, exceeds requirements.

Surface Burning Characteristics
Flame spread less than 25, fuel contribution 0, smoke density less than 50.

Color and Color Change
No significant change in color, gloss or texture after 500 hours of accelerated weatherometer. (Additional testing, B&R 27B4 and SFT 12 month exposure data available).

Soiling and Cleansibility
Exceeds stain resistance and readily cleaned.

ADDITIONAL TESTING

Dimensional Tolerances
Face dimensions and distortion, ±1/16", through-the-wall dimension for single faced units ±1/8", double faced units, ±3/16", scored joint variance, 1/16".

Water Absorption
Any increase in weight due to absorption of water after 24 hours immersion was too small to be measurable.

Freeze/Thaw Durability
(ATSC C 67-68 Paragraph 8 & Thermal Shock Test B100-JL24P) no separation, spalling, cracking or disintegration of facing.

Acid Rain Resistance
(MET Standard) no change to surface characteristics after 20 year simulated exposure.

Gamma Radiation Resistance
(RT Standard) no change when exposed to normal doses; slight darkening in accident conditions.

STANDARDS AND APPROVALS
ASTM C 744: Prefaced Concrete and Calcium Silicate Masonry Units.
Federal Specification SS-C-621b, Form B: "Prefaced Masonry Units are intended for use wherever masonry with a glazed surface is desired."
The City of New York, Department of Buildings: MEA 171-90-M.
USDA: For federally inspected meat processing facilities.
Public Health Service: Public Health Service Publication Number 229.
National Standard of Canada: CAN3-A165.3-M85, Prefaced Concrete Masonry Units.

Performance Data

Product Advantages

Design Flexibility
- Full spectrum of satin finish colors.
- Scored units offer many choices of scale and pattern.
- Unique reflective, ever-changing patterns.
- Sculptured faces for additional creative opportunities.
- Close tolerances allow dimensional precision, especially for stack bond.
- Flat ends permit soldier coursing.
- A wide variety of shapes and thicknesses.
- Modular for simplified design and construction.

Performance
- Permanent, integral bond between facing and block.
- Superior abrasion resistance.
- Resistance to crazing and cracking; will not shatter.
- Color-fast for interior use. Good resistance to exterior exposure when installed properly.
- Highly resistant to most chemicals, urine, blood and steam.
- Compliance with stringent safety requirements for flame-spread, smoke density and toxicity.
- Fire ratings of the concrete block: 1 to 4 hours.
- Large cores permit use of granular fill or inserts to increase fire resistance and/or insulation values.

Savings
- Through-wall units eliminate expense of back-up wall; build and finish in one operation with one trade.
- Accurate face dimensions speed installation.
- Utilities and reinforcing easily installed.
- Surface mounted cone base eliminates floor recess.
- Double-faced units available.
- Lower fire insurance rates with concrete masonry.
- The mass of masonry promotes energy and cost efficient temperature control and facilitates passive solar construction.
- Minimum maintenance. Easily cleaned.
- No refurbishing.
- Prompt response to tight construction schedules.

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Standard Shapes & Sizes

**Field Units**

- **2S:**
- **4S:**
- **6S:**
- **8S:**
- **10S:**
- **12S:**
- **16S:**

**Cove Base Units**

- **2G:**
- **4G:**
- **6G:**
- **8G:**
- **10G:**
- **12G:**
- **16G:**

**Jamb & Cab Units**

- **2J:**
- **4J:**
- **6J:**
- **8J:**

**New Corner Units**

- **4-16S:**
- **4-12S-12:**
- **4-12S-24:**
- **4-16S-24:**

*Specify right (R) or left (L). Right shown.
†Consult your nearest representative for other thicknesses available and for exact type and dimensions of units manufactured in your area.

Spectra-Glaze®/Soundblox® Series acoustical systems available. Units supplied will be 2 or 3 core, open or closed end. Available in modular metric sizes. Consult your nearest representative for precise sizes, shapes, block configuration, and face dimensions available.

Soundblox® is a registered trademark of the Proudfoot Co.

Patent and Pat. Pend.
Enjoy true flexibility in color design. Our Color Matching Program makes Spectra-Glaze® II units available in virtually any color. Consult your local representative for details.

Saraha™ Series colors are available in all Spectra-Glaze® Block

Custom Colors are not necessarily tested for all aspects of ASTM C-744, unless so requested and sufficient time is allotted for testing.
Contact your local manufacturer for data on exterior field performance. All colors are light stable for interior use. Some fluorescent light gives off ultra-violet rays which may cause a slight color shift, even in light stable pigments, after many years of exposure.

Follow and approval for each color, type, and size of block selected. NOTE: The colors in this brochure and in color chip kits are for preliminary selection only. Request full size sample to see actual color selection. Specify and erect a sample panel at least 4’ x 4’ at job site to show typical variation, range, interior EXTERIOR for durable long lasting masonry. Where appropriate, specify water based epoxy grout for pointing exterior joints and joints in sanitary and food applications.

We match anything! Custom colors can be developed to CUSTOM COLORS too… Designer Color™ Series. The Signature™ Collection of variegated earthtones perfect for exterior use. A sound economic alternative with the appearance of natural materials, including granite, stone and marble.

Vari-Tone® Series

NOTE: The colors in this brochure and in color chip kits are for preliminary selection only. Request full size sample to see actual color selection. Specify and erect a sample panel at least 4’ x 4’ at job site to show typical variation, range, and approval for each color, type, and size of block selected.

Natural and organic pigments incur natural change on the exterior, some more than others. Standard colors have been tested via 12 month exterior evaluations in Florida by the South Florida Test Service, Inc. and under ASTM C-744 for 500 hours of weatherometer. All colors are colorfast for interior use. The best colors for exterior have an asterisk (*) and are whites and pastels. Consult local manufacturer for field experience in your area and test data. Follow proper masonry industry recommended design and installation (see page 14). Specify Spectra-Glaze® 8 Plus units with the Block Rite™ System for raw block and mortar and use as intended in weatherlight and breathable wall designs for durable long lasting masonry. Where appropriate, specify water based epoxy grout for pointing exterior joints and joints in sanitary and food applications.

All colors are light stable for interior use. Some fluorescent light gives off ultra-violet rays which may cause a slight color shift, even in light stable pigments, after many years of exposure. Contact your local manufacturer for data on exterior field performance.
Construction Details

MASSONRY INDUSTRY RECOMMENDED EXTERIOR WALL DESIGN

Proper, lasting appearance and performance for all types of exterior masonry walls require correct design and construction. The required construction procedure for Spectra-Glaze® units include:

- Deep dry walls during construction.
- Properly installed flashing.
- Weep vents and coping to prevent water penetration and moisture retention in finished walls.
- All laying mortar contains appropriate water repelling additives to assure water-proof mortar joints and good adhesion. Exposed mortar joints are raked back 1/4” and tuckpointed with epoxy mortar or other similar waterproof joint system.

**Flashing**
- Metal coping with 6” legs (shown), or pre-cast concrete or stone cap with adequate horizontal overhang and drip edge. Fixing dowels must be completely sealed at flashing perforations.
- 2” unobstructed airspace.
- Flashing with protruding drip lip.
- Flexible waterproof sealant around all window and door openings.

**Weep Joints or Weep Vents**
- 1/4” wide (in joint) spaced at 32” O.C. immediately above flashing, bond beam, solid filled or other water stop locations in the wall, and at the top of the wall.

**Concrete, Metal or Stone Sill.**
- Flashing with drip lip sufficiently protruding to direct water out and away from mortar joint and wall.

**Core Weep Vents**
- Full wythe flush-mounted frame required field units only - no special shapes. No cutting around head of frame.
- For single wythe walls, add weep vents to Spectra-Glaze® unit cores in masonry courses at the base and top of the wall and immediately above flashing or other water stop locations.

**8” WALL UNIT**
- 4” block cut to fit *cut to 12” length*

**SPECTRA-GLAZE® “X” UNIT**
- for glazed internal corners

**8” WALL UNIT**
- 4” block cut to fit *cut to 12” length*

**Core Weep Vents**
- Full wythe flush-mounted frame required field units only - no special shapes. No cutting around head of frame.
- For single wythe walls, add weep vents to Spectra-Glaze® unit cores in masonry courses at the base and top of the wall and immediately above flashing or other water stop locations.

**Conclude with Spectra Group**

Spectra Group Block Manufacturers and Distributors

When you include our glazed block in your building design, you will be able to get your block from one of the many convenient licensed and/or authorized Manufacturers and Distributors.

In addition, new plants are being planned in the USA & overseas to provide even more manufacturing locations. Call 1-800-638-3188 or send an email to: spectraglz@aol.com for the name of your nearest plant or distributor.
SPECIFICATIONS
(Cross-out, add and edit to suit local practices and local availability.)
Pre-Faced Concrete Masonry Units

Part 1 - General:
This section covers information specific to pre-faced concrete block and its installation.

Related Work: Usual requirements for block work, mortars, reinforcing and other details applicable to the concrete block portion of this product shall be in accordance with the Sections covering these items (or) shall be in accordance with best practices for block work, all proposed products and execution subject to prior approval.

General Conditions and Other Requirements: (define)

Submissions: Supply complete product literature, color kit, test report copies, representative shapes.

Sample Panels: Construct a panel at least 4’ x 4’ for each color. Include all block types and sizes to be used in that color. Do not remove panels until building has been accepted.

Delivery: Palletized with individual faces protected. Keep dry.

Storage and Handling: Keep dry. Store on level ground. Do not double stack pallets. Avoid excess movement before installation.

Job Conditions: Follow ordinary good practices for concrete block work; suitable temperature and lighting.

Part 2 – Products:
Pre-Faced Concrete Block: “Spectra-Glaze® II Units.”
Manufacturer: Licensed or authorized in writing by The Spectra Group through Spectra Industrial Licensing Corporation, Baltimore, Maryland.

Facing Components: Facing ingredients must be Spectra-Glaze® Compound made with Spectra-Glaze® polymers, supplied to approved manufacturers by Spectra Materials Corporation and Spectra Sciences, LLC company, and other Spectra-Glaze® ingredients as required to meet or exceed Spectra-Glaze® Block product standards including ASTM C 744 under authority from Spectra Licensing Systems.

Pre-Faced Surfaces: Interior use – smooth, colored satin finish conforming to the most up-to-date official Spectra-Glaze® product standards published by Spectra Industrial Licensing Corporation and ASTM C 744. Exterior use – smooth, satin finish, conforming to ASTM C 744, ASTM C 67, paragraph 8 (freeze-thaw) and Thermal Shock Test B100UL 24P.

Colors: Select from Manufacturer’s established or custom colors. All Standard, Var-Lone®, or Special Colors™ Series must conform to ASTM C 744.

Surface Burning Characteristics of Facing:
ASTM E 84; flame spread less than 25; smoke contribution 0; smoke density less than 50. Products of combustion considered non-toxic as determined by BRC 4690 (toxicity testing).

Types: Plain, scored, engraved, embossed and/or sculptured faces; extent of each as shown.

Glazed Face Sizes & Joints: Modular 8”x16”, 4”x16”, 8”x8”, 12”x12”, 16”x16” including 1/4” exposed face joints; sizes as shown; long dimensions, horizontal or vertical as shown.

Concrete Block for Glazing: ASTM C 90 for hollow and solid load-bearing units. Type 1 (moisture controlled), For exterior use require Block-Rite™ integral efflorescence control system.

Exterior Use: For enhanced durability, use Spectra-Glaze® Plus units and water based epoxy grout or mortar enhanced with water based proofing systems using Crete, WRG, Crete, etc mortar with additives.

Hourly Fire Ratings for Concrete Block: (define)
Concrete Block Sizes Before Glazing: Modular, 2”, 4”, 6”, 8”, 10”, 12” thickness as needed.

Through-The-Wall Units: Use pre-faced block thickness equal to nominal wall thickness where possible.

Shapes: Provide shapes to suit the condition shown.

Jointing Tools: Use glass 5/8” for concave joints; clean, non-staining metal tools elsewhere. Replace worn tools promptly.

Mortars: (define)
Related Products: Provide setting mortar, horizontal wire reinforcing, ties and anchors and other accessories needed to properly complete the work.

Wiping Rags: Select clean cotton waste or equivalent.

Cleaning Compound: Use masonry detergent cleaners such as Spectra® or Deox® in strict accordance with each manufacturer’s directions. Do not use any product containing unbuffered hydrochloric acid or other unbuffered acids.

Part 3 – Execution:
Inspect related conditions; do not start at any location until all adverse conditions at the location have been corrected.

Lighting: Do no work without proper lighting.

Floor Surface: Test for straightness, levelness. Notify job superintendent where grinding or troweled filler corrections are needed.

Aligning Base Course: Do not set base course to follow an inaccurate floor line.

Cove Base at Thin Floor Coverings: Set cove base light to a straight, level floor so edge of covering will hide the joint.

Workmanship: Align glazed faces plumb, level and true to line; uniform joint widths carefully trolled; joints arranged neat and symmetrical, cut units sized and located for best appearance; free of imperfections detracting from overall appearance when viewed at 90 degrees from 5 feet.

Cutting: For all cuts, including chases, holes and notches for pipes, switch boxes, etc., use saw and other power tools.

Joining: Except where tuckpointing is noted, strike and tool setting mortar.

Tuckpointing: Raise cut joints at least 1/4”. Tuckpoint with the required mortar type. Do not use smeared grout method to fill joints.

Scored-Face Block: Lay block in stack bond when aligned vertical joint appearance is required. Raise setting mortar 1/4” and allow to dry. Tuck point raked joints and scored joints at same time.

Horizontal Reinforcing: Use in accordance with best practices for concrete block work and applicable building codes.

Vertical Control Joints: Use in accordance with best practice for concrete block work.

Exterior Weep Vent Installation: Use weep vents at least 4” long in vertical joint for every second block in base course immediately above grade and immediately above flashing, bond beams, solid fill or other water-stop locations.

Exterior Wall Coping: Use continuous metal with 6” minimum overhand, or maximum length stone or pre-cast (define flashing and overhand). Exposed joints must be raked back at least 1/4” and caulked with (define) flexible, waterproof sealant in accordance with manufacturer’s direction.

Keep Glaze Clean: Wipe off all mortar smears and spatters at once, using clean, soft, damp rags. Do not allow hardening.

Final Cleandown: Use industrial strength detergents in strict accordance with cleaner manufacturer’s instructions, including thorough rinsing. Damp-dry with clean, soft rags. Do not use steel wool, other abrasives or any product containing unbuffered hydrochloric acid or other acids.

MAINTENANCE
Spectra-Glaze® units, properly erected and cleaned after construction, should require very little maintenance other than normal cleaning procedures. Commercial cleaning agents such as pine oils or industrial detergents are recommended in most instances but some paints and special marking inks not soluble in usual cleaning materials may require special cleaning procedures. Contact your local representative.

Recommendations
- Keep overhead lighting at least 3’ from the plane of a masonry wall to avoid unsightly shadows.
- Use flush mounted, full wedge modular door frames to insure a neat appearance of masonry walls and reduce cost by deleting cuts and special shapes.
- With scored units, broken bond patterns reduce the cost of installation.
- With scored units, always use stack bond construction when stack bond appearance is selected.
- Use double faced (ST) units through-the-wall only when tight bed depth tolerance or second face alignment is not mandatory.
- Cavity wall construction (2” minimum cavity) should be used for all exterior walls, with weep vents (rather than weep holes or wicks) every 32” top, bottom and above all water stops for proper venting and control of water penetration.
- For through-the-wall construction, glazed one side, use sled runner tool to strike joints on exposed block side of wall.
- Strike concave joints in Spectra-Glaze® block walls with at least 5/8” jointing tool.
- For exterior Spectra-Glaze® walls, always rake exposed mortar joints back 1/4” and tuckpoint with epoxy mortar or other waterproof systems.
- For concrete masonry construction, use wall reinforcing and control joints in accordance with established procedures to accommodate wall movement and prevent wall cracking. See NCMA TEK bulletins 3, 44, 53.
- Always consider a complimentary mortar color for use with decorative masonry units.
- Use factory-cut unit for mitered corners, for better alignment and reduced cost.
- When laying Spectra-Glaze® units, adjust raw course immediately above grade and immediately above mortars (approx. 1/4” exposed).
The Spectra-Glaze® Block is part of The Spectra Group innovative line of masonry products that originated with the manufacturing of brick and terra cotta starting in 1788. The Spectra Group is the original developer of glazed concrete block over 50 years ago and has developed Spectra-Glaze® II units into an international product and licenses the world’s largest glazed block plants. An international network of Spectra-Glaze® II unit producers assures ready availability and prompt service.

For the name of your local representative, or to become a licensee, please contact the Spectra Group, P.O. Box 5119, Baltimore, MD 21224, Phone: 410-837-1810 Fax: 410-837-9498 Visit us on the world-wide web at www.SPECTRAGLAZE.COM