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Architectural Design Guide

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# Introduction

Fizzano Brothers is your home for all your concrete product needs. Concrete masonry block, hardscaping, retaining walls, paving stones, patio walls, brick and veneers and so much more.

Fizzano Brothers Concrete Products, Inc. is an independently owned, family operated company that has been in business since 1935.

Fizzano Brothers has three manufacturing plants in the Philadelphia area that service the Mid-Atlantic states by producing a comprehensive line of quality, commercial grade concrete products. Each of our three facilities stocks a full line of masonry and hardscaping related products.

Fizzano Brothers’ widely acclaimed Designer Series Architectural CMU are available in Split Face, Ground Face, Blasted and Two-Tone blended finishes. Designer Series blocks are made in a myriad of colors, shapes and sizes.

Fizzano Brothers is licensed to provide ASTM E-514 water repellent CMU, Korfil® and Icon insulated block, Soundblox® acoustical units, Ivany® system for reinforced concrete masonry and Allan Block® retaining wall systems. Each of Fizzano Brothers’ three locations has a full service masonry and hardscape supply outlet handling a complete line of masonry and hardscape building materials.

Fizzano’s experienced sales staff is always available to answer any questions involving concrete masonry or hardscape construction. Call today for any of our Designer Series sample boxes which will come at no charge and with free expert consultation.

Architectural consultation and technical assistance is available to the designer, craftsman and homeowner at 610-833-1100 x 320.







# Product Information

## STANDARD GREY CMU

All Fizzano Brothers standard CMU are manufactured with the highest quality aggregates available in the industry. Commercial grade ASTM-C90 blocks are produced in a wide variety of shapes and sizes to meet any requirement. Available in normal, medium, light and ultra-light weight categories. Large inventories are maintained for immediate deliveries.

## ENGINEERED CMU

### Spec-Finish CMU

The cost-effective high-performance coated masonry interior wall system. The perfect solution where a smooth, durable and easily cleaned wall surface is required. Great for rooms with strict sanitary requirements. Great for high traffic public facilities.

- Special concrete mix design produces a tight and smooth finish texture, reducing the amount of block filler coats required.
- Provides an impermeable surface over the entire CMU wall including mortar joint protection.
- Meets ASTM-C90 standards.

### Spec-Thermal Hi-R Insulated CMU

Spec-Thermal is the solution for high thermal resistance in concrete masonry.

- Capable of higher thermal R values within the confines of the two face shells of a masonry unit.
- Reduced thermal bridging for superior thermal resistance.
- Factory installed insulation.
- Labor savings over other insulation options that require on-site installation.
- Structural and thermal tests have been performed to verify the capabilities of this system.
- Meets ASTM-C90 standards.

### Korfil & Icon Insulation

Polystyrene block core insulation that functions to increase the R value of a Concrete Masonry Unit.

- Factory installed insulation.
- Labor savings over other insulation options that require on-site installation.
- Both Korfil and Icon standard inserts provide equivalent thermal characteristics.
- Thermal tests have been performed to verify the capabilities of this insulation.

### Ivany Block System

Provides all the necessary high demands for structural performance at costs significantly below those for reinforced concrete.

- An engineered, reinforced Concrete Masonry Unit system.
- Combining performance and economy for more than 35 years.
- Meets ASTM-C90 standards.



## SoundBlox & SoundCell CMU

The solution to acoustical correction and noise control problems in masonry construction.

- Attractive, economical and efficient sound absorbing Concrete Masonry Unit.
- In-place cost is low by comparison to most other acoustic materials.
- Meets ASTM-C90 standards.

## High Strength CMU

- Available up to 5,000 Net PSI.

## Fire Rated CMU

- Available to meet UL Certified, UL618 or ICC/IBC/ACI Standards up to 4 Hours.

# ARCHITECTURAL CONCRETE MASONRY UNITS

## Split Face CMU

Made from the finest architectural aggregates carefully manufactured to provide a color-fast, crisp, split surface.

- Available in 30 standard colors.
- 4 colors are stocked for immediate deliveries.
- Custom color matching available to coordinate any design scheme.
- Meets ASTM-C90 standards.
- Available in VerdeBlox™
- Matching colored mortar available.

## Blast Finish CMU

State of the art equipment produces a soft textured exposed aggregate blast surface.

- Available in 12 standard colors.
- Custom color matching available to coordinate any design scheme.
- Meets ASTM-C90 standards.
- Available in VerdeBlox™
- Matching colored mortar available.

## Ground Face CMU

Precision equipment and total quality control create an ultra-smooth ground surface.

- Available in 12 standard colors.
- Custom color matching available to coordinate any design scheme.
- Meets ASTM-C90 standards.
- Available in VerdeBlox™
- Matching colored mortar available.

## Two Tone Finish CMU

Blended colors that provide a contrast and diversity to any project.

- Unique manufacturing process that combines two colors to create CMU that are never the same color pattern.
- Available in Split-Face, Blast-Finish and Ground-Face finishes and all Fizzano Brothers colors.
- Custom color matching available to coordinate any design scheme.
- Meets ASTM-C90 standards.
- Available in VerdeBlox™
- Matching colored mortar available.

## Spec-Brik CMU

The rich look of clay brick with the structural performance and economy of concrete masonry.

- Available in 12 standard colors.
- Load-Bearing Wall System.
- Appearance of smooth textured clay brick.
- Available in half high and full height.
- Custom color matching available to coordinate any design scheme.
- Meets ASTM-C90 standards.
- Available in VerdeBlox™
- Matching colored mortar available.

## Integral Water Repellent System

- Available in all Fizzano Brothers Standard Gray and Architectural CMU.
- Meets ASTM-E514 standards.
- Available in VerdeBlox™
- Mortar additive available.

# HARDSCAPING PRODUCTS

## Allan Block Retaining Wall, AB Fence, AB Patio Products & Fizzano Architectural Concrete Pavers

Whether your project is commercial, institutional or residential Allan Block and Fizzano Pavers are your perfect solution for style, function and durability.

- Available in a wide range of sizes, colors and styles.
- Installation, estimating tools and engineering software resources available.
- Meets all ASTM standards.

## Manufactured Stone Veneer

Fizzano Brothers is the leading distributor of Eldorado Stone, Cultured Stone and Pinnacle Stone in the area. The most realistic look of quarried stone and full size clay brick without the high cost.

- Stocked in a wide variety of styles, shapes and sizes to meet any requirement.
- Expert sales team to insure your complete satisfaction from design to installation.
- Meets all ASTM standards.





# Designer Split Face



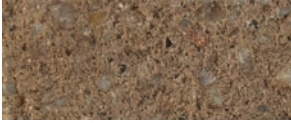


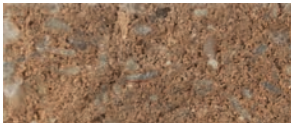


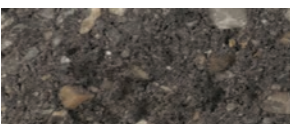







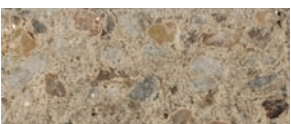

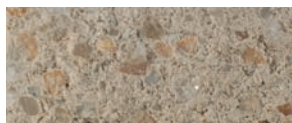




## Designer Split Face

Made from the finest architectural aggregates carefully manufactured to provide a color-fast, crisp, split surface. Custom colors in all shapes and sizes can be made for interior or exterior applications.

Designer Series is also available in:

- Blast Finish
- Split Fluted
- Split Brick
- Two Tone Blends
- Smooth Face
- Ground Face
- Scored
- Roman Stone

### DESIGNER SPLIT FACE STANDARD COLORS

 F-61	 F-62	 F-63	 F-64
 F-65	 F-66	 F-67	 F-68
 F-69	 F-70	 F-71	 F-72
 F-73	 F-74	 F-75	 F-76
 F-77	 F-78	 F-79	 F-80
 F-81	 F-82	 F-83	 F-84
 F-85	 F-86	 F-87	 F-88
 F-89	 F-90		

Since variations in color are inherent in natural stone, color samples shown in this catalog provide an approximate representation of the actual color. We recommend looking at actual product samples before making your final selection.





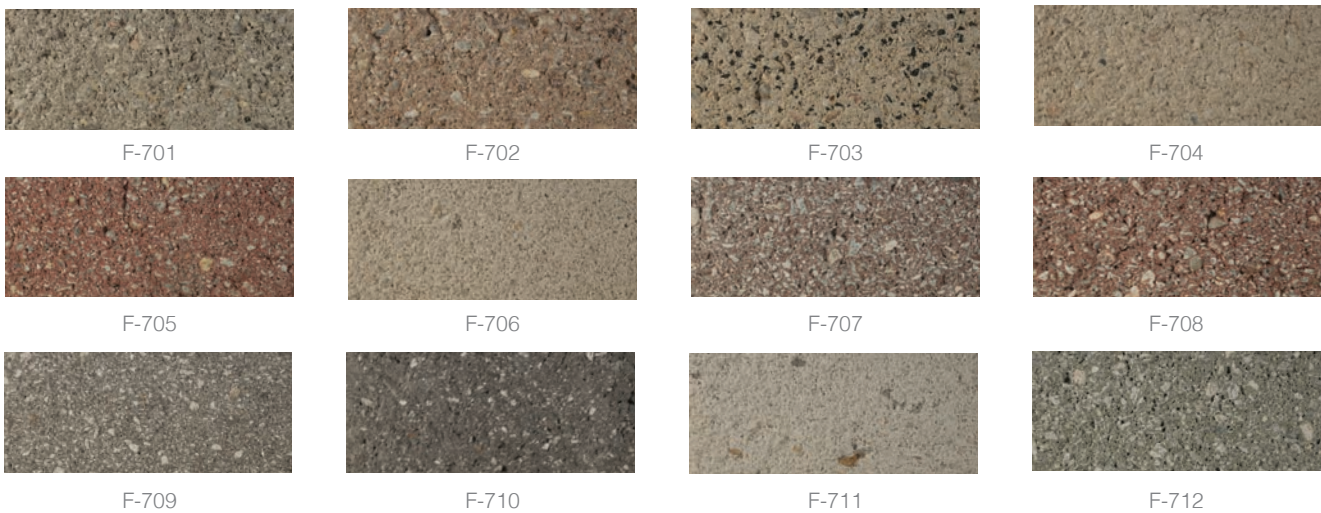
# Designer Blast Finish

State of the art equipment produces a soft textured exposed aggregate blast surface. Custom colors in all shapes and sizes can be made for interior or exterior applications.

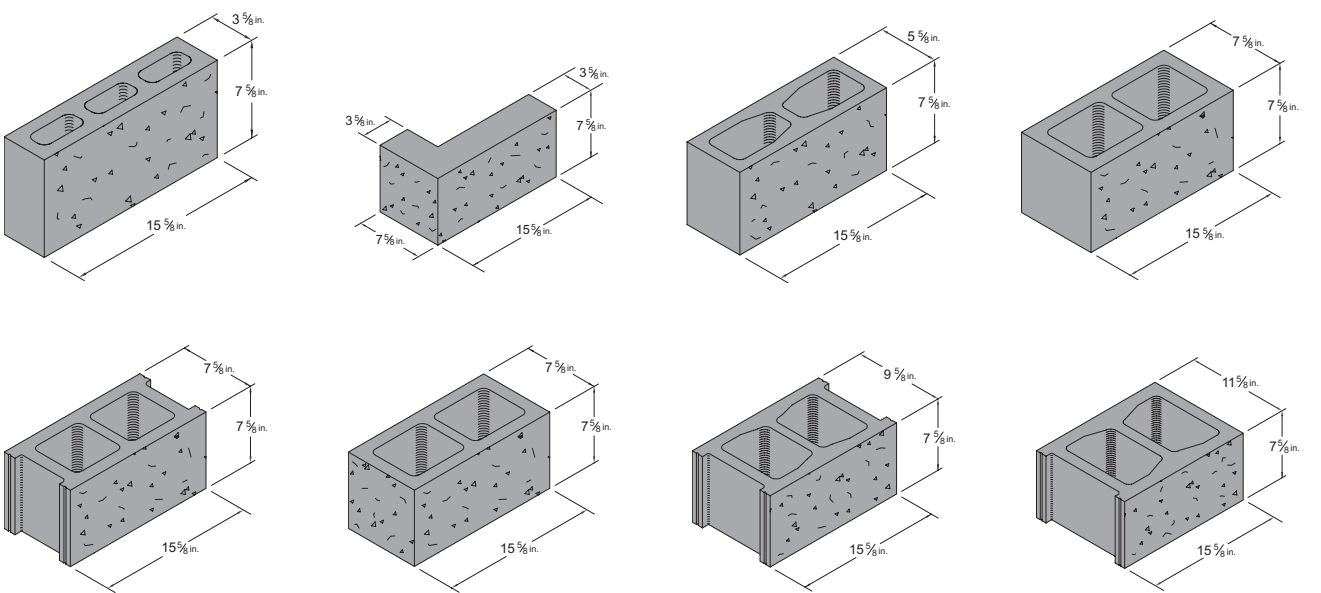
Designer Series is also available in:

- Split Face
- Split Fluted
- Split Brick
- Two Tone Blends
- Smooth Face
- Ground Face
- Scored
- Roman Stone

## DESIGNER BLAST FINISH STANDARD COLORS



## SHAPES & SIZES



Shown above are the most popular Concrete Masonry Units. Additional shapes and sizes available. Since variations in color are inherent in natural stone, color samples shown in this catalog provide an approximate representation of the actual color. We recommend looking at actual product samples before making your final selection.

# Designer Blast Finish





# Designer Ground Face

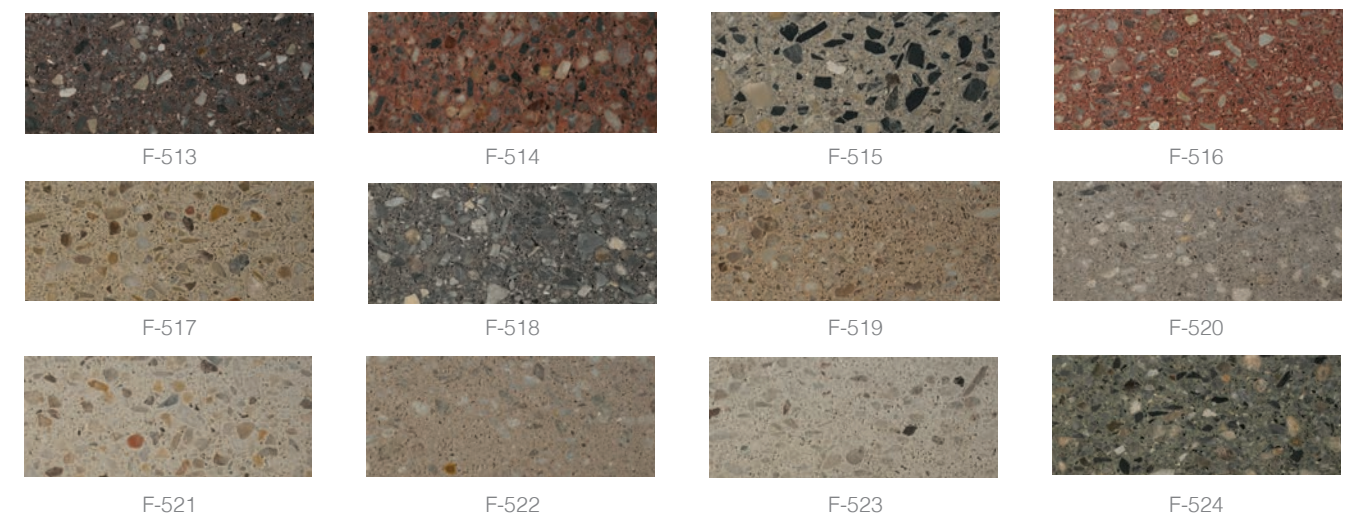
## Designer Ground Face

Precision equipment and total quality control create the ultra smooth finish of our ground face CMU. Custom colors in all shapes and sizes can be made for interior or exterior applications.

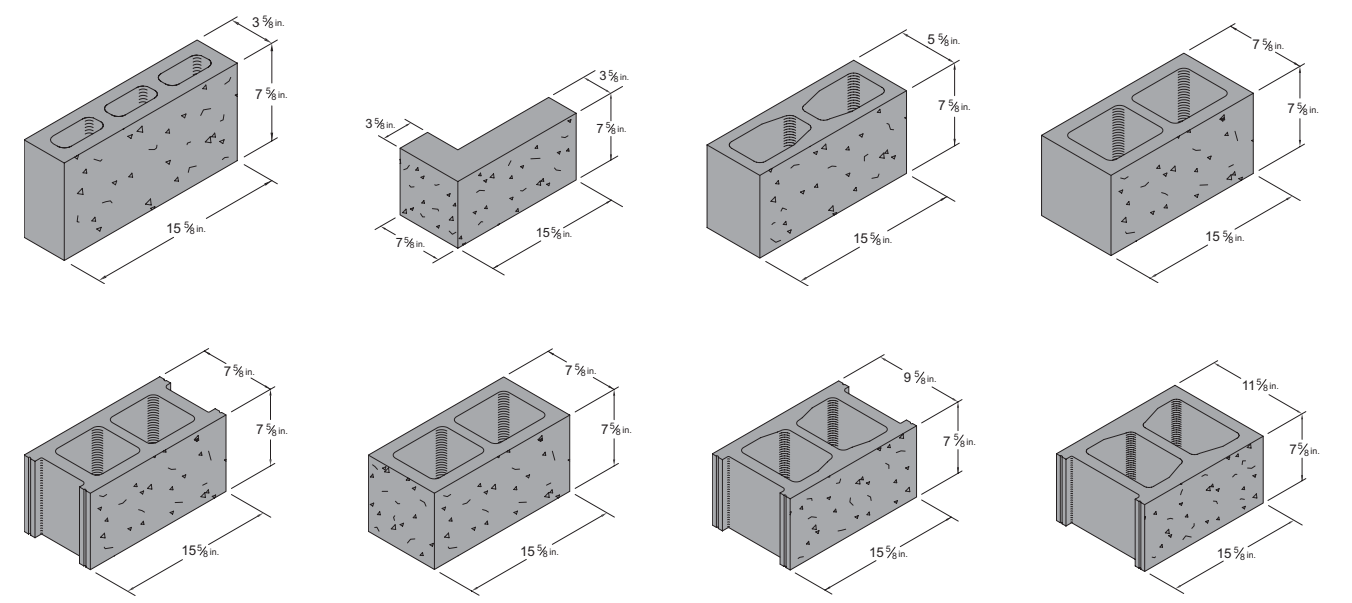
Designer Series is also available in:

- Split Face
- Split Fluted
- Split Brick
- Two Tone Blends
- Smooth Face
- Blast Finish
- Scored
- Roman Stone

### DESIGNER GROUND FACE STANDARD COLORS



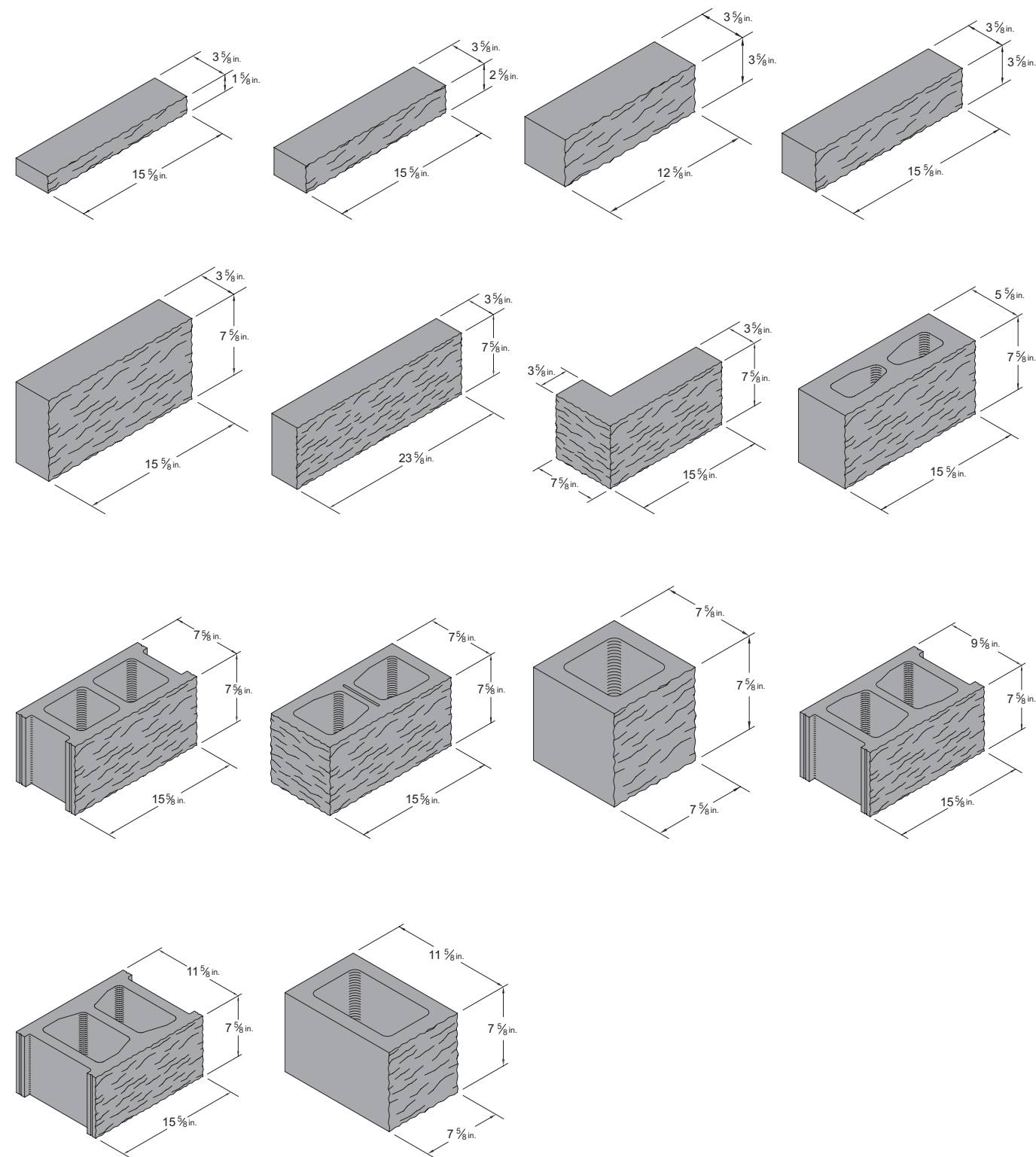
### SHAPES & SIZES



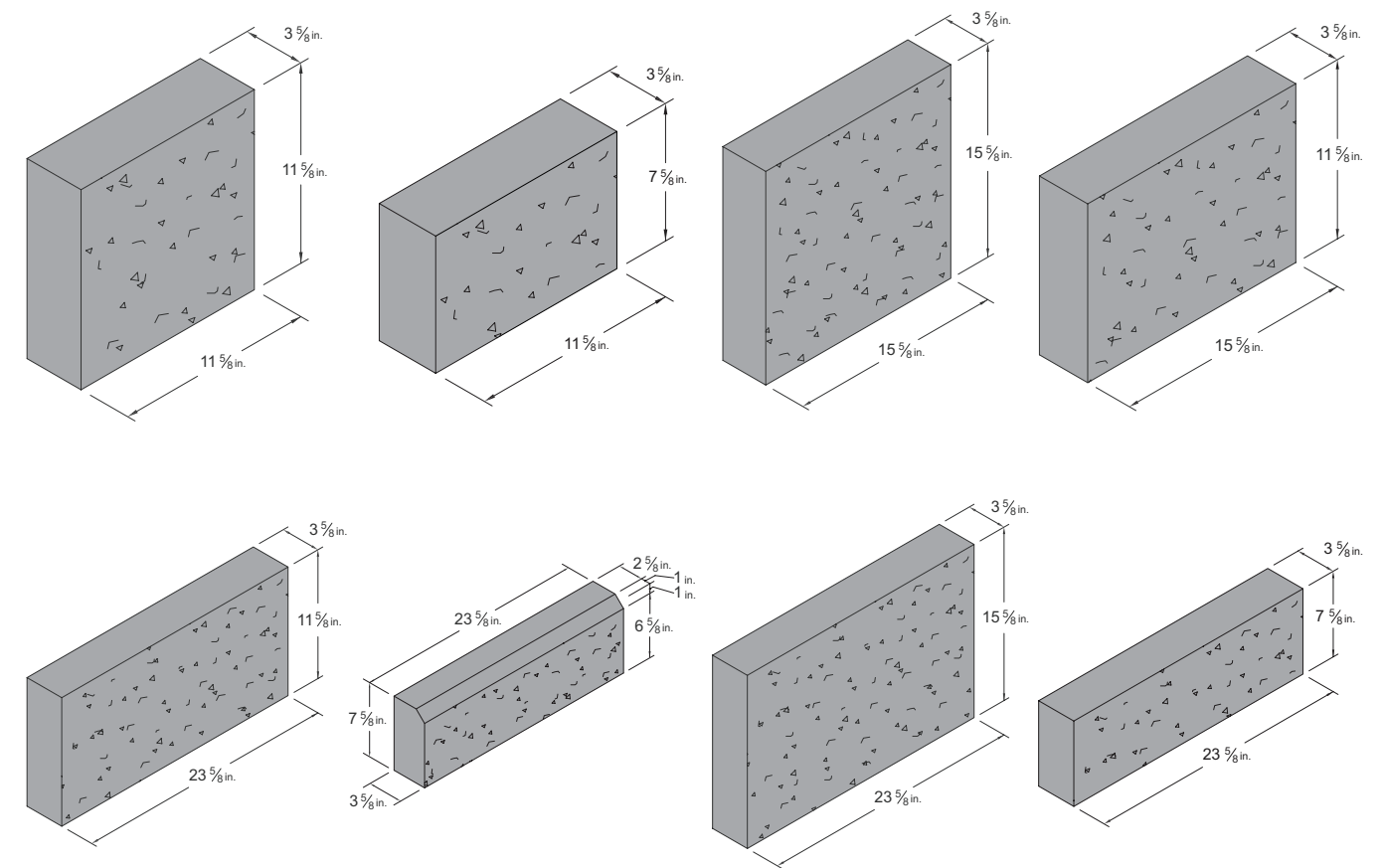
Shown above are the most popular Concrete Masonry Units. Additional shapes and sizes available. Since variations in color are inherent in natural stone, color samples shown in this catalog provide an approximate representation of the actual color. We recommend looking at actual product samples before making your final selection.



## DESIGNER SPLIT FACE

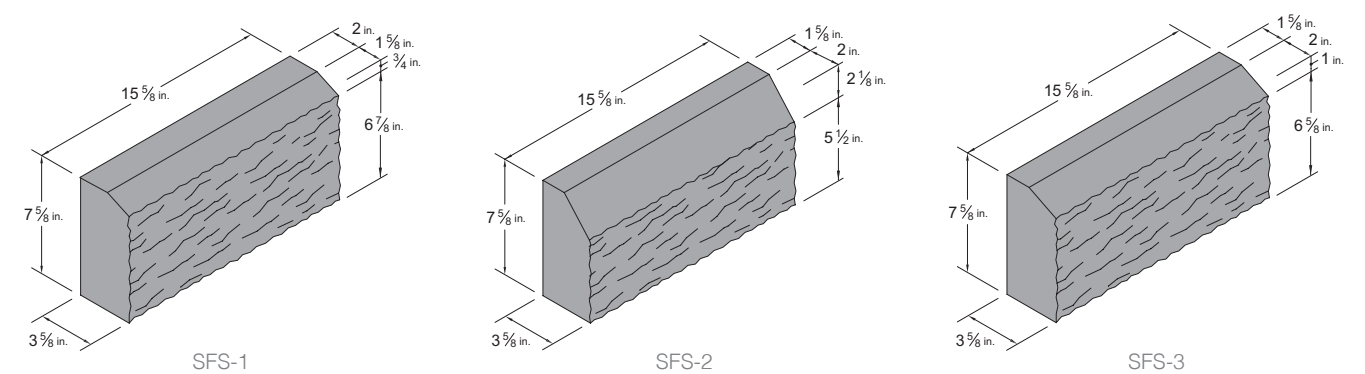


## LARGE FORMAT DESIGNER BLAST FINISH & GROUND FACE



Shown above are the most popular Concrete Masonry Units. Additional shapes and sizes available.

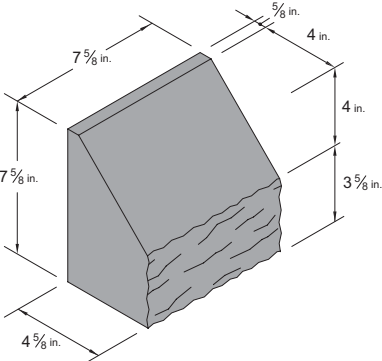
## DESIGNER SILLS SPLIT FACE



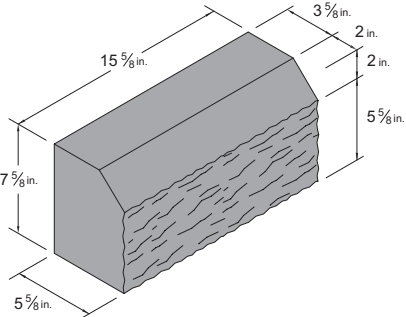
Shown above are the most popular Concrete Masonry Units. Additional shapes and sizes available.



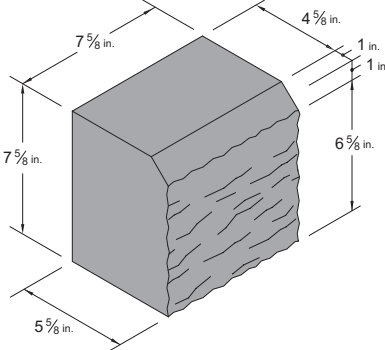
DESIGNER SILLS SPLIT FACE (CONTINUED)



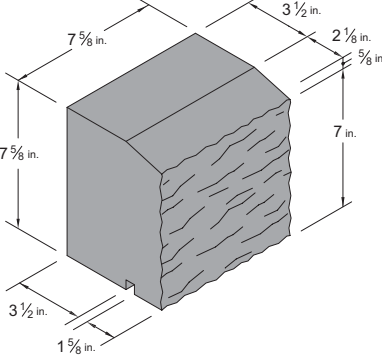
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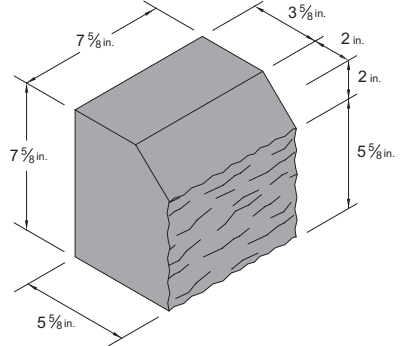
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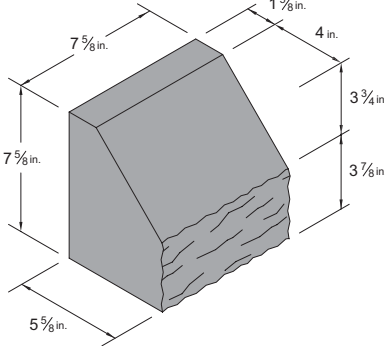
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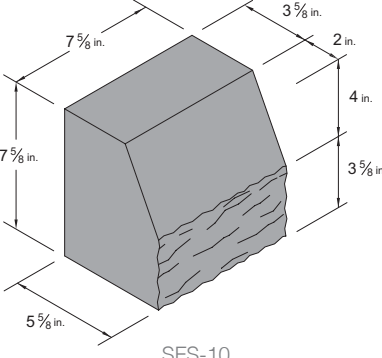
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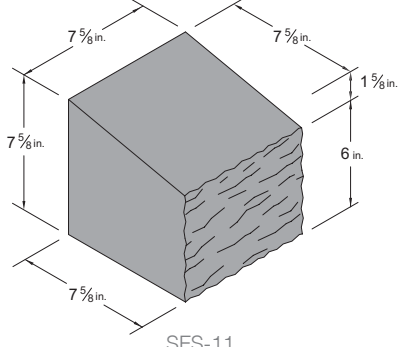
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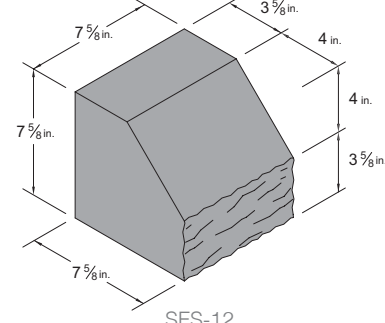
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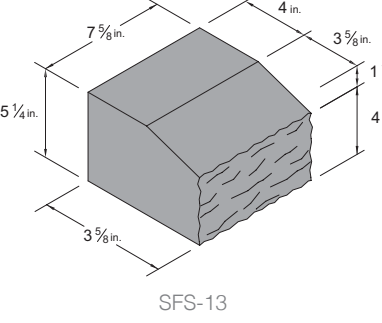
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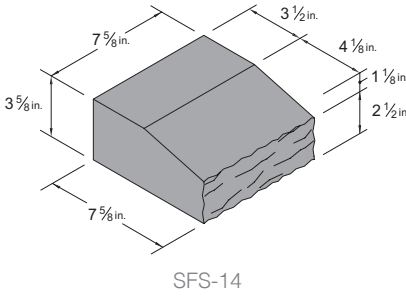
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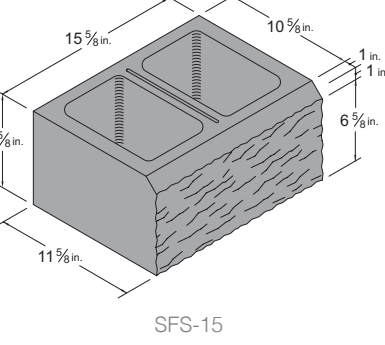
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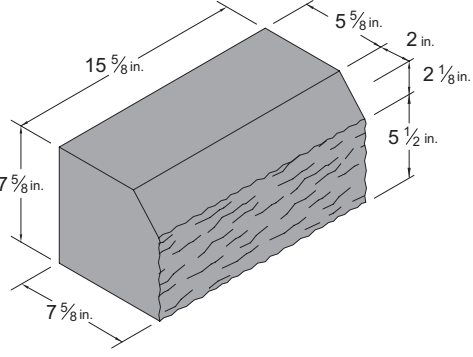
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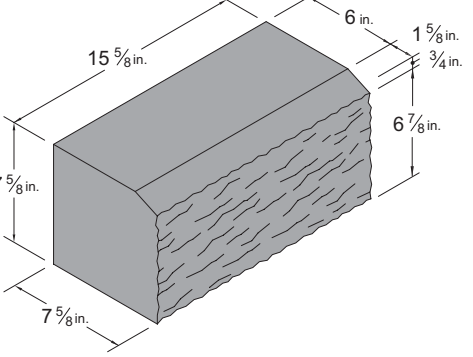
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SFS-15

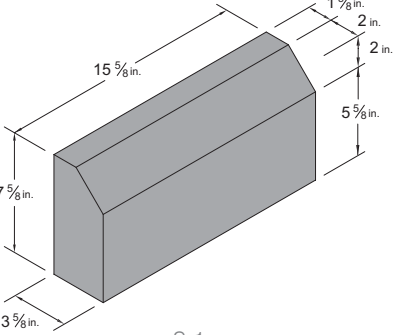


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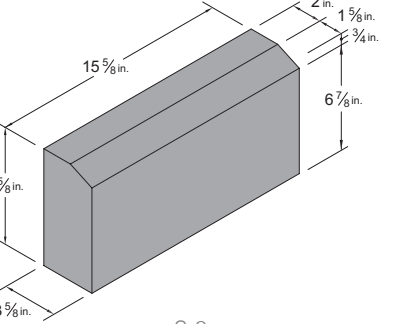


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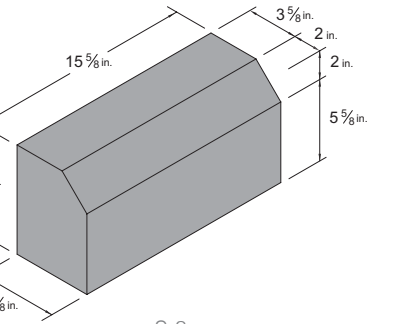
DESIGNER SILLS BLAST FINISH, GROUND FACE & SMOOTH FACE



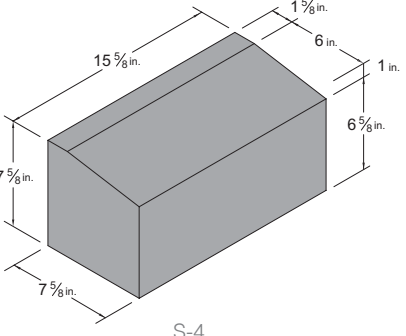
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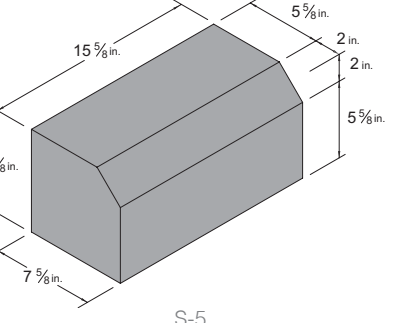
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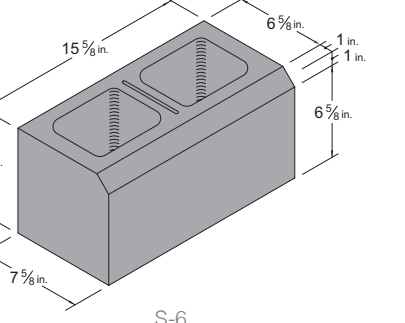
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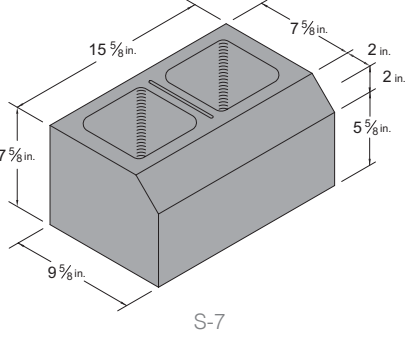
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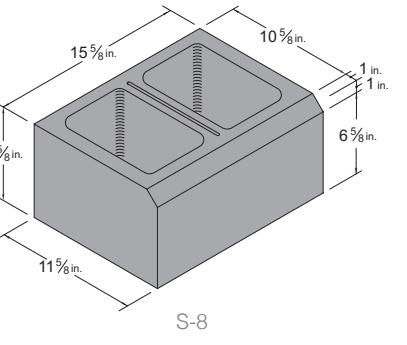
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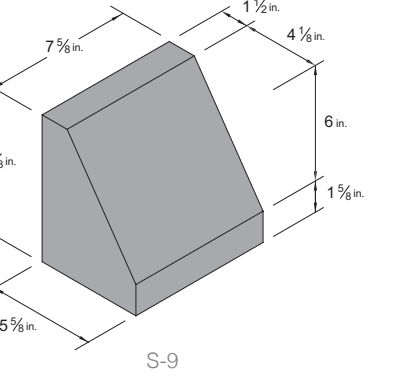
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S-7

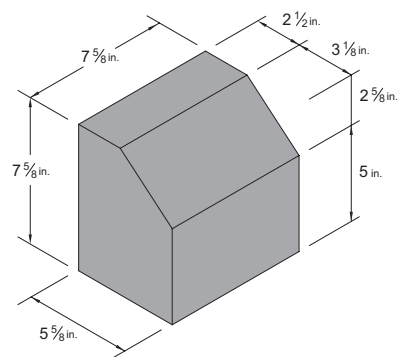


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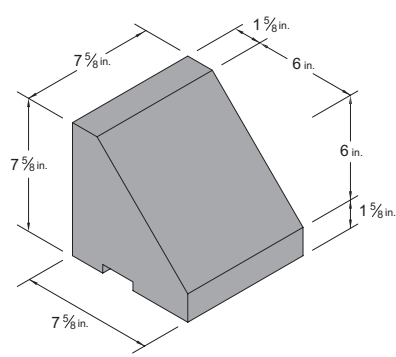


S-9

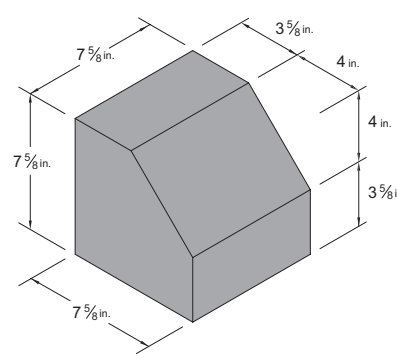




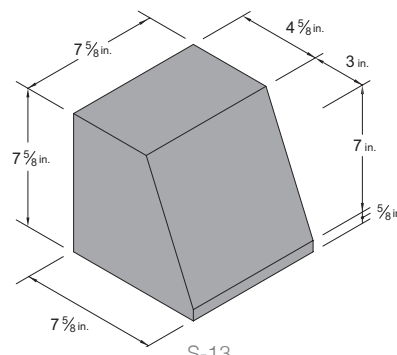
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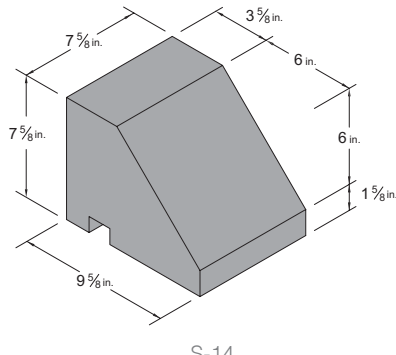
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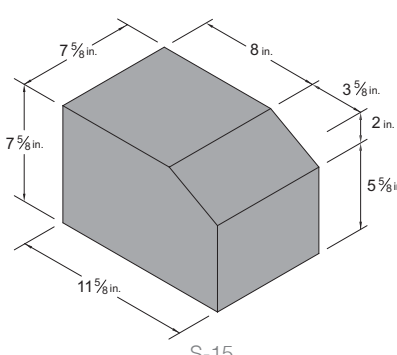
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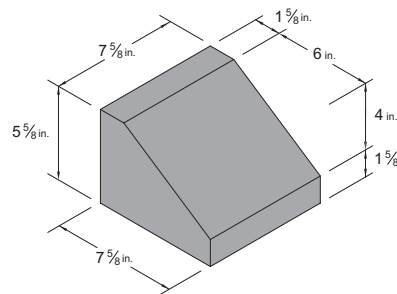
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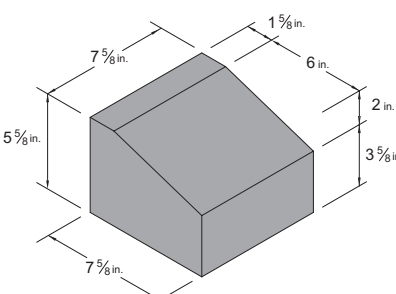
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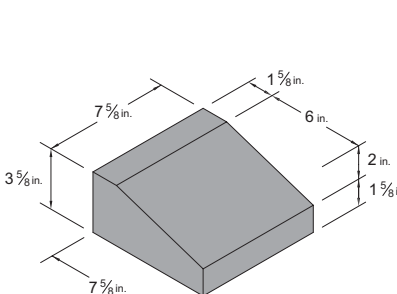
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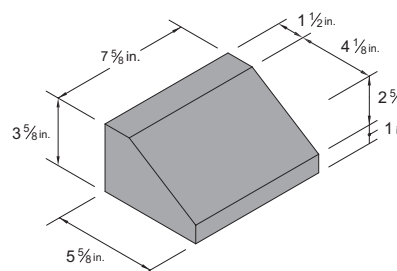
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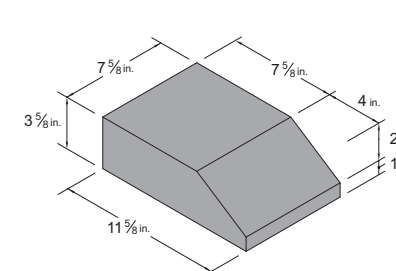
S-17



S-18



S-19



S-20

## ROMAN STONE

### Architectural CMU

A modern interpretation of Roman Limestone that replicates an old world appearance while incorporating the benefits of concrete masonry. Custom colors in all shapes and sizes can be made for interior or exterior applications.



- Available in all Fizzano Brothers colors.
- Available in Two Tone and custom colors.
- Meets ASTM-C90 standards.
- Available in VerdeBlox.
- Matching colored mortar available.
- Roman Stone is also available in a variety of Allan Block Retaining Wall.

## VERDEBLOX

Fizzano Brothers is committed to the design and production of products that contribute to sustainable design and reduce life-cycle costs. In addition we employ energy reduction and waste recycling practices throughout our company to reduce the impact we have on the environment.



Leadership in Energy and Environmental Design (LEED) comprises a suite of rating systems for the design, construction and operation of high performance green buildings, homes and neighborhoods. Developed by the U.S. Green Building Council (USGBC), LEED is intended to provide building owners and operators a concise framework for identifying and implementing practical and measurable green building design, construction, operations and maintenance solutions.

To address the needs of architects and designers working on LEED projects Fizzano Brothers has developed our VerdeBlox line of certified pre-consumer recycled content concrete masonry units.

- Can contribute to obtaining LEED points
- Creates buildings that are environmentally responsible, profitable and healthy places to live and work
- Meets or exceeds ASTM C-90 Specifications
- Available in Standard Gray and all Fizzano Bros. Architectural CMU colors and finishes
- Available in our full complement of shapes and sizes
- Available with up to 30% Recycled Content

### Specifying VerdeBlox

#### For Standard Gray CMU

All units shall be VerdeBlox by Fizzano Brothers Concrete Products with a pre-consumer recycled content of (10 to 30%).

#### For Architectural CMU

All (Split Face, Blast Finish, Ground Face, Spec-Brik) units shall be Fizzano Brothers Concrete Products color (F- )

VerdeBlox or Spec-Brik color ( ) VerdeBlox with a pre-consumer recycled content of (10 to 30%).





# Concrete Products Group



The Concrete Products Group provide regional and national specifiers, contractors, and end-users quality manufactured concrete products under national brands and consistent standards. Twelve producers with more than 73 plant locations across the United States produce the family of CPG branded products for masonry and hardscape applications.



**Water Control Technology (WCT)** is based on preserving the superior performance characteristics of concrete block while adding features that improve the ability of masonry wall assemblies to resist moisture penetration.

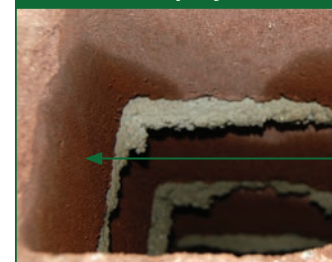
CPG made subtle changes to the top surfaces of each WCT block's webs to discourage water from crossing to the interior face shell. Corners and ends can use the WCT drainage zones without compromising aesthetics or performance. These innovations are accomplished with a block that is fully compliant with the concrete masonry unit standard, ASTM C90.

The new masonry wall system with superior resistance to moisture penetration.

- WCT concrete masonry units feature integral drainage zones that direct moisture to the wall's drainage system.
- No special installation techniques required--cost-effectiveness is assured.
- All units have integral water repellent in their mix design.
- Offered in a wide variety of shapes, sizes and colors.
- Meets ASTM-C90 standards.

Views below show the interior cores of WCT™ vs. Standard CMU under extreme (180 inch/hour) spray bar testing:

Exterior – Spray Bar Side



Interior of Wall

Water Penetration

Exterior – Spray Bar Side



Interior of Wall

WCT drainage features divert water downward to weeps/drainage

The WCT drainage zones divert water from traveling across joint areas and direct any moisture that penetrates the exterior shell downward into the drainage cores of the units so that the water can exit via the flashing and weep systems in the wall.



WCT units (on left) were spray bar tested with no mortar (just gaps) alongside a traditional block design (right) with a water flow rate equivalent to 180" of rain per hour for a half hour and then at a rate of 30" of rain for an additional 24 hours.

Result: The traditional block began to show moisture penetration to the interior surface after 11 seconds. The WCT block completed the 24 hour test without any evident moisture penetration to the interior surface of the wall.





# Spec-Finish



Spec-Finish is an extremely durable coated concrete masonry wall system. It provides an attractive and impermeable surface over the entire CMU wall.

The combination of extremely smooth textured block and high performance coatings results in a coated wall system that minimizes the need for application of filler layers and minimizes cost.

Spec-Finish is a great solution for interior wall finishes. Perfect for Schools, Hospitals, Animal Shelters, Veterinary Facilities, Lavatories, Laboratories, Dormitories, Arenas, Food Service Areas, Stadiums, Detention Facilities, Transportation Centers, and much, much more.

Available in typical ASTM C 90 sizes.

## Spec-Finish Utilizes:

- Spec-Finish® CMU by Concrete Products Group, LLC
- Spec-Finish® Pre Conditioner
- Spec-Finish® Coatings by Tnemec, Co. Inc.

## Spec-Finish Benefits

- Spec-Finish® CMU is pre-conditioned to create a higher density and tighter finish to improve on the coating's final finish.
- Provides an impermeable surface over the entire CMU wall.
- Doesn't depend on typical chalky block fillers.
- Is easily cleaned and maintained.
- Is cost effective compared to tile.

## Spec-Finish Coatings by Tnemec

Spec-Finish® coated concrete masonry wall systems feature durable, crosslinked coatings designed to provide optimum stain and chemical resistance for a variety of exposures.

- Level I Standard Block Finish
- Level II Pinhole free Orange Peel Block Finish
- Level III Pinhole Free Smooth Block Finish
- Level IV Pinhole Free, Smooth Block Finish with minimal joint appearance- fiberglass mat).





The Beauty of Brick and the Economy of Concrete Masonry! Spec-Brik® provides the functionality of concrete block with the aesthetic look of brick.

The Spec-Brik product line offers a variety of fittings that allow for easy installation. Spec-Brik, produced in a classic rectangular brick shape, is manufactured in a variety of color blends. Its size and scale make it a fast track, cost-effective solution that generates time and cost savings for a broad range of design applications.

Ideal for projects with “brick or better” requirements, Spec-Brik® is available in a range of blends and combines the proven durability and economy of concrete masonry with the rich traditional beauty of brick in a full depth structural veneer system.

Spec-Brik is the attractive and logical alternative to other concrete wall systems.

A full size 8”x16” Spec-Brik Jumbo® unit is also available; the courses fit perfectly with the standard 4”x16” Spec-Brik for added design flexibility.

### Spec-Brik Benefits

- Now featuring Water Control Technology for dry single wythe walls.
- Increase speed of construction.
- Energy efficient.
- Mold and fire resistant.
- Smooth, brick like textures.
- Minimal maintenance required.
- Produced locally, readily available, assuring quick delivery.

### SPEK-BRIK STANDARD COLORS

			
Birmingham Blend	Chesapeake Blend	Delaware Blend	Dixon Blend
			
Gardner Blend	Houston Blend	Jefferson City Blend	Panama Blend
			
Philadelphia Blend	St. Cloud Blend	Stanton Blend	Syracuse Blend

Since variations in color are inherent in natural stone, color samples shown in this catalog provide an approximate representation of the actual color. We recommend looking at actual product samples before making your final selection.

# Spec-Brik





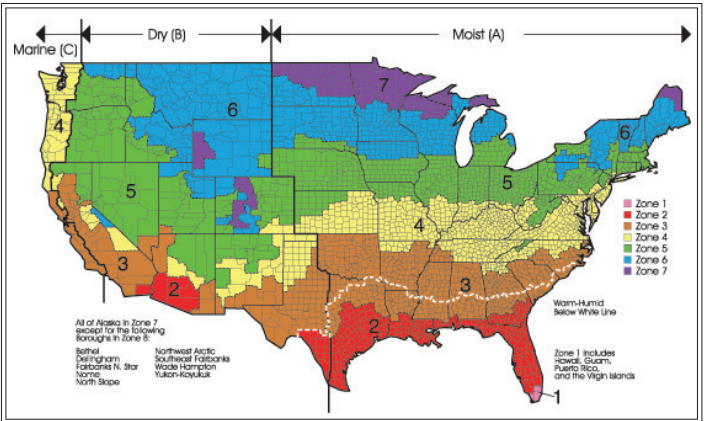
Featuring Korfil Hi-R® from Concrete Block Products Group.

The Spec-Thermal™ Insulated Masonry system is a pre-insulated concrete masonry unit which provides significantly enhanced thermal performance over conventional masonry or foamed in place masonry.

The block and the insulation are combined at the block manufacturing plant prior to delivery to the job site.

**Product Advantages of Spec–Thermal Insulated Masonry**

- Provides guaranteed consistent insulation value
- Permits excess moisture to escape
- Allows easy installation of pipes, conduits, etc.
- Improves dew point
- Improves sound resistance
- Eliminates concern of shrinkage, toxic fumes or odors
- Improves the ability of blocks to resist wind-driven rain
- Can be used above or below grade
- No lost time or rework if inspection rejects the quality of on-site workmanship
- Work by other trades is performed with little danger of damage to insulation
- The block itself can be used as a bond beam



International Energy Conservation Code Climate Zones

**Thermal Properties:<sup>A</sup>**  
  
Preinsulated Hi-R Masonry Units. U-values are based on conventional 3/8” Mortar Joint Construction, U-value units are Btu/hr/sqft/degF

Maximum U-Factors for Mass Walls Prescriptive Requirements (2009 IECC)		
	All Other	Group R
Zone 1	U-0.58	U-0.151 <sup>a</sup>
Zone 2	U-0.151 <sup>a</sup>	U-0.123
Zone 3	U-0.123	U-0.104
Zone 4 (except Marine)	U-0.104	U-0.090
Zone 5 (& Marine 4)	U-0.090	U-0.80
Zone 6	U-0.80	U-0.071
Zone 7	U-0.071	U-0.071
Zone 8	U-0.071	U-0.052

IECC (2009): Section 502.1 General (Prescriptive) Requirements and Table 502.1.2 BUILDING ENVELOPE REQUIREMENTS OPAQUE ELEMENT, MAXIMUM U-FACTORS.  
a. Certain exceptions apply.

Spec-Thermal



8 Inch wide Hi-R Wall System						
Density of Block–LBS/FT³	Wall Type 1* R <sub>t</sub> U		Wall Type 2** R <sub>t</sub> U		Wall Type 3*** R <sub>t</sub> U	
80	12.21	0.082	13.61	0.074	15.04	0.067
100	10.27	0.097	11.67	0.086	13.10	0.076
120	8.50	0.118	9.90	0.101	11.33	0.088

12 Inch wide Hi-R Wall System						
Density of Block–LBS/FT³	Wall Type 1* R <sub>t</sub> U		Wall Type 2** R <sub>t</sub> U		Wall Type 3*** R <sub>t</sub> U	
80	14.56	0.069	15.96	0.063	17.39	0.058
100	12.48	0.080	13.88	0.072	15.31	0.065
120	10.50	0.095	11.90	0.084	13.33	0.075

8 Inch wide Hi-R H Wall System						
Density of Block–LBS/FT³	Wall Type 1* R <sub>t</sub> U		Wall Type 2** R <sub>t</sub> U		Wall Type 3*** R <sub>t</sub> U	
80	14.47	0.069	15.87	0.063	17.30	0.059
95	12.49	0.080	13.89	0.072	15.32	0.065
100	11.85	0.084	13.25	0.075	14.68	0.068
110	10.63	0.094	12.03	0.083	13.46	0.074
120	9.48	0.105	10.88	0.092	12.31	0.081
125	8.94	0.112	10.34	0.097	11.77	0.085
135	7.93	0.126	9.33	0.107	10.76	0.093

12 Inch wide Hi-R H Wall System						
Density of Block–LBS/FT³	Wall Type 1* R <sub>t</sub> U		Wall Type 2** R <sub>t</sub> U		Wall Type 3*** R <sub>t</sub> U	
80	18.14	0.054	19.82	0.050	21.247	0.047
95	16.337	0.061	17.74	0.056	19.167	0.052
100	15.647	0.064	17.05	0.059	18.477	0.054
110	14.297	0.070	15.70	0.064	17.127	0.058
120	12.987	0.077	14.39	0.070	15.817	0.063
125	12.347	0.081	13.75	0.073	15.177	0.066
135	11.137	0.090	12.54	0.080	13.967	0.072

\* Hi-R Wall System only.

\*\* Hi-R Wall System, 1/2 inch gypsum board on furring strips.

\*\*\* Hi-R Wall System, 1/2 inch foil-backed gypsum board on furring strips.

^ A third party thermal analysis was completed making use of the Hot Box Test Data from three accredited laboratory services.

A complete Engineering Report dated November 20, 1996, including Addendum Added Nov. 1, 2002, is available upon request.

It covers the thermal values of the Hi-R Masonry Wall Systems.

## SPECIFICATIONS

### Architectural Concrete Masonry Units

#### General

**Submittal**  
Submit color samples for selection from manufacturer’s series. Submit product literature, certifications, test reports and full size sample(s) of each color specified.

**Quality Assurance**  
**Certifications (Split Face, Blast Finish, Ground Face, Spec-Brik):** Concrete blocks shall conform to ASTM C-90. All units shall contain an integral water repellent conforming to ASTM E-514 at the time of manufacture.

**Fire Resistance:** Define hourly ratings required as 1, 2, 3 or 4 hours.

**Field Constructed Mock-Ups:** Construct a sample panel, no less than 4’x4’, of units of each color to be used in the project.

**Delivery, Storage and Handling**  
Masonry units shall be delivered to the jobsite covered. Store masonry units on level ground and cover with a waterproof covering to protect the blocks from inclement weather. Handle blocks carefully to avoid breakage and damage to the finished surfaces.

**Project/Site Conditions**  
Protection of work: Cover tops of walls each day after installation to keep open walls protected and dry. After units are installed they should be protected from staining or other damage by covering the bottom of the walls with plastic.

#### Products

**Product Name**  
Architectural Concrete Masonry Units- All Finishes

**Manufacturer**  
Fizzano Brothers Concrete Products  
201 South Phoenixville Pike  
Malvern PA 19355  
610-833-1100

**Related Materials**  
Colored matching or contrasting mortar is available from Fizzano Brothers Concrete Products. Refer to Division 4 Masonry Section for mortar type and specifications. In all exterior mortar, use water-repellent mortar additive conforming to ASTM E-514 available from Fizzano Brothers Concrete Products and follow manufacturer’s instructions.

**Sizes and Shapes**  
Nominal 2”, 4”, 6”, 8”, 10” and 12” standard block thicknesses are available, as well as all standard block shapes. High-strength units for special structural requirements are also available.



## SPECIFICATIONS

### Masonry Cleaners

Use masonry cleaners such as Prosoco Sure Klean Custom Masonry Cleaner for all textured finishes and Prosoco Sure Klean Burnished Custom Masonry Cleaner for all smooth finishes. Follow manufacturer’s instructions for proper mixing and application.

**CAUTION! Never use Muriatic Acid solution on units.**

### Execution

#### Installation

Lay blocks from more than one cube or pallet at a time during installation. Lay units using the best concrete masonry practices. Lay blocks with the faces level, plumb and true to the line strung horizontally at the face. Complete masonry construction using procedures and workmanship consistent with best masonry practices.

**Cutting:** Make all unit cuts, including those for bonding, holes, boxes, etc., with motor-driven masonry saws, using either an abrasive or diamond blade. Cut neatly and locate for best appearance.

#### Mortar bedding and Jointing:

- Lay units with full mortar coverage on the head and bed joints, taking care not to block cores to be grouted or filled with masonry insulation.
- Tool all mortar joints into a concave configuration.
- Remove mortar from the face of masonry units before it sets.
- Tuck point the joints of scored units for proper appearance and to prevent water penetration.

#### Installation Recommendations

- Install proper flashing, venting and weep holes
- A complementary or matching mortar color is recommended when using colored architectural units.
- Always test a small, inconspicuous area before using cleaners. Do not use acids or abrasives on finished surfaces.

#### Flashing of Masonry Work

- Install flashing at locations shown in the plans in accordance with the details and best masonry flashing practices.

#### Weep Holes and Vents

- Install weep holes and vents at proper intervals at courses above grade, above flashing and at any water stops over windows, doors and beams.

#### Inspection

The exterior finished faces shall be free from chips, cracks or any other imperfection that would detract from the overall appearance of the finished wall when viewed from a distance of twenty (20) feet at right angles to the wall with normal lighting.

#### Cleaning

Keep walls clean daily during installation using brushes. Do not allow excess mortar lumps or smears to harden on the finished surfaces. Harsh cleaning methods after walls have been erected may mar the surface of the blocks.

### Final Clean Down

Clean the completed walls with masonry cleaner appropriate for the finish. Follow the manufacturer’s instructions including thorough rinsing. Do not use acid or abrasives on the finished surfaces. Failure to follow manufacturer’s instructions can result in permanent damage to the finished faces.

### Maintenance

Properly installed and cleaned architectural masonry units need no maintenance other than routine cleaning.

## ASSOCIATIONS



## DESIGN ASSISTANCE

Our conveniently located showrooms offer the opportunity to view material installations and discuss the possibilities with our knowledgeable staff.

Each of our three facilities stocks a full line of masonry and hardscaping related products. Architectural consultation and technical assistance is available to the designer, craftsman and homeowner at 610-833-1100 x 320.

