





Tab 1 Table of Contents

Торіс	Page #
Precision Concrete Masonry Units	СМ-2
Precision Block Drawings	СМ-4 СМ-13
Slump Block Drawings	СМ-16
Split-face Block	СМ-21
Split-face block drawings	СМ-23



PRECISION Concrete Masonry Units

Introduction to Precision Concrete Masonry Units

Precision concrete masonry units (CMU) are the most widely utilized type of concrete block. They have the square edges and the smooth texture that people most commonly associated with concrete block.

When specifying concrete masonry units, the dimensions are indicated in the following manner: width x height x length. Dimensions of precision masonry units are usually expressed in terms of their nominal size, which is 3/8 of an inch greater than their actual size. This 3/8 of an inch difference accommodates the standard 3/8 inch mortar joint that is utilized with precision units. For example, a unit with the nominal dimensions of 8" x 8" x 16" would have actual dimensions of 7-5/8" x 7-5/8" x 15-5/8".

Applicable Standards and Quality Assurance

The precision concrete masonry units manufactured by Air Vol Block, Inc. comply with the requirements of ASTM C-90 and section 21-4 of the uniform building code. Air Vol Block maintains an inventory of both lightweight and medium weight units. Normal weight units, also known as heavyweight units, are available as a special-order item. For more information regarding the ASTM standards pertaining to concrete masonry units, please examine the *specifying masonry* section of this catalog contained under tab #2.

Air Vol Block has on-site testing facilities in which we monitor our product quality. Additionally, we participate in a testing program in which an independent laboratory randomly samples and tests our concrete masonry units.

Available Colors of Precision Block

Air Vol Block stocks a wide variety of precision units in natural grey and our stock Nutan color. A wide variety of custom colors may be special ordered. Please contact your Air



Vol Block representative for more information regarding custom colors. Please note that a lead time of 6 to 8 weeks should be allowed for shipment of custom-colored units.

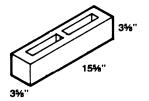
The raw materials utilized in the manufacture of concrete masonry units are subject to natural variations in color which affect the color of the finished product. It is important that our customers understand that color can be guaranteed only to a range of color. Even natural grey units, which are manufactured without pigments, may have noticeable shade variations from run to run.

Available Sizes of Precision Block

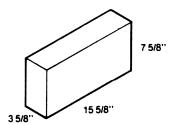
Precision units are readily available in 4-inch & 8-inch heights. Available widths include 4", 6", 8", 10", 12", and 16". Please note that 10" wide units are available by special order only.

The pages immediately following this page illustrate many of the available shapes and sizes of precision block. Air Vol Block, Inc. is constantly adding new items to its product line. Please call our office if you have questions regarding additional shapes or sizes.

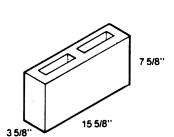




4x4x16 Standard



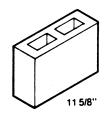
4x8x16 Solid Veneer (Special Order)



4x8x16 Standard

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4x8x12 Corner

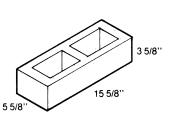


4x8x8 Half

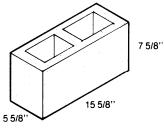
PRECISION 6" WIDE



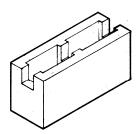
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6x4x16 Standard



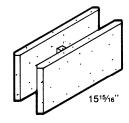
6x8x16 Standard



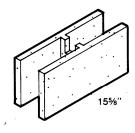
6x8x16 Bond Beam



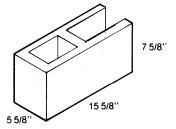
6x4x8 Half



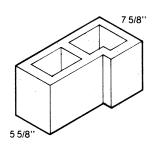
6x8x16 Mortarless Head Joint (Speed Block)



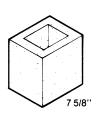
6x8x16 Double Open End Bond Beam (Special Order)



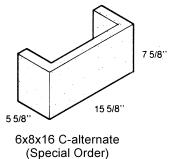
6x8x16 Standard Open-end (Special Order)



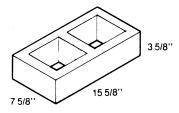
6x8x16 Return Corner



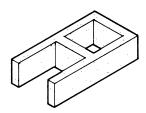
6x8x8 Half



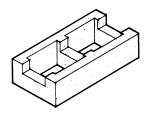
8" WIDE PRECISION



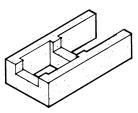
8x4x16 Standard



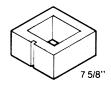
8x4x16 Open End



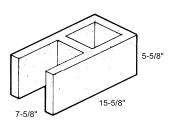
8x4x16 Bond Beam



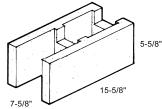
8x4x16 Open-End Bond Beam



8x4x8 Half



8x6x16 Open-End Standard



8x6x16 Open-End Bond Beam

(More 8-inch wide units on next page)

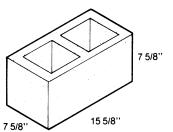


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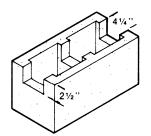
PRECISION 8" WIDE



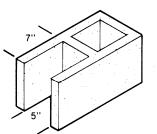
P.O. Box 931 #1 Suburban Road San Luis Obispo, Ca 93406 Phone: (805) 543-1314 Fax: (805) 543-0848 www.airvolblock.com Sales@airvolblock.com



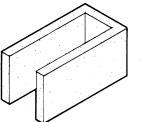
8x8x16 Standard



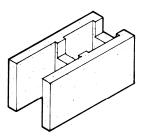
8x8x16 Bond Beam



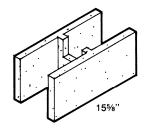
8x8x16 Open End



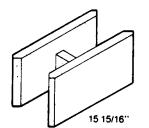
8x8x16 No-Web Standard (Special Order)



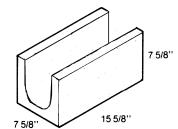
8x8x16 Open End Bond Beam (Special Order)



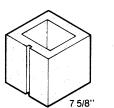
8x8x16 Double Open End Bond Beam



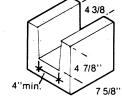
8x8x16 Mortarless Head Joint (Speed Block)



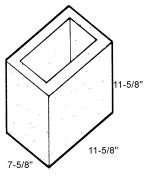
8x8x16 Solid-Bottom U-Beam (Special Order)



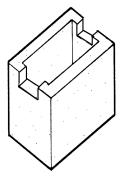
8x8x8 Half



8x8x8 Lintel



8x12x12 Standard (Special Order)



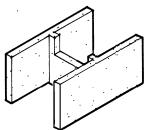
8x12x12 Bond Beam (Special Order)

10" WIDE PRECISION

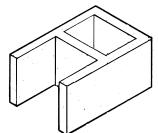


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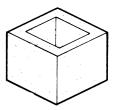
10-inch wide units are available by special-order.



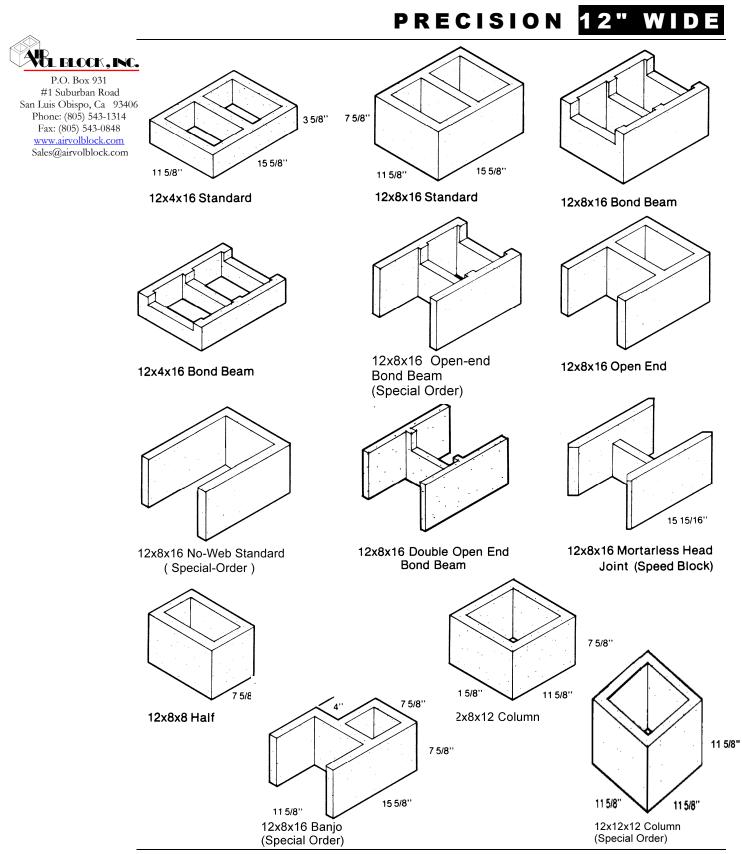
10x8x16 Double Open-end Bond Beam



10x8x16 Standard Open-end

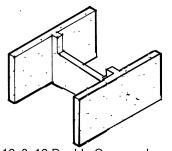


10x8x8 Half

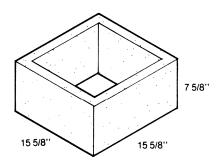


CM-9

16" WIDE PRECISION



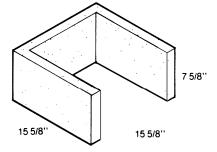
16x8x16 Double Open-end Bond Beam



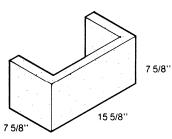
16x8x16 Column



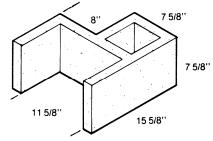
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16x8x16 Open-End Pilaster



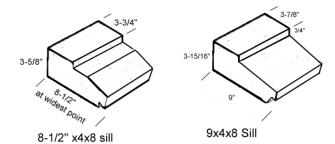
16x8x8 C-Alternate

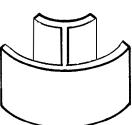


16x8x16 Banjo Pilaster

PRECISION ACCESSORIES Nel BLO<u>CK, NC.</u> P.O. Box 931 1 5/8" 3 5/8 #1 Suburban Road 3 San Luis Obispo, Ca 93406 2½" Phone: (805) 543-1314 15 5/8" Fax: (805) 543-0848 9 5/8 7 5/8'' 5 5/8' www.airvolblock.com 8x2x16 Cap Sales@airvolblock.com 6x2x16 Cap 10x4x8 Sill

Items shown below are available by special-order.





8x8x16 12" Radius Block

Use Four 8x8x16 12" Radius Blocks to make a 24" Diameter Column



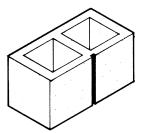
DESIGN UNITS PRECISION

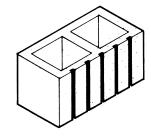
Precision concrete masonry units can be made with a variety of effects and textures. Although these examples show the 8x8x16 size, most effects can be made in many other sizes too. Please note that the Design block is available in an 8x12x12 size only.

All Items on this page are available by special order.

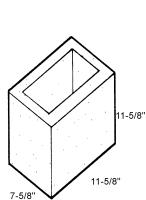


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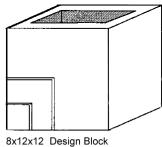


Half-score

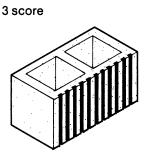


8x12x12 Standard

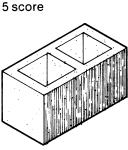
(Special Order)



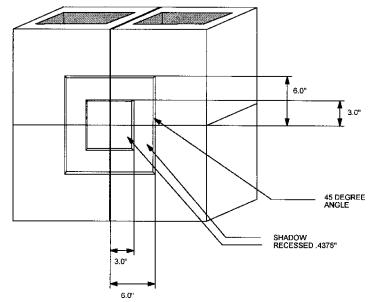
8x12x12 Design Block (Must be sandblasted after Installation)



11 score



Combed face



Use four 8x12x12 Design Blocks to create this pattern. (Must be sandblasted after Installation)

CM-12

BURNISHED

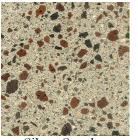


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CONCRETE MASONRY UNITS

Burnished concrete masonry units are made by putting precision blocks through a state-ofthe-art grinding machine, which removes the surface of the block to reveal the aggregate matrix within. Burnished CMU's can be made in most of the sizes shown in *Precision Block* section of this catalog which immediately precedes this page.

Burnished blocks enable you to construct a finished structural wall with the appearance of polished stone at a fraction of the cost of stone cladding. Below you will see a few examples of the finishes available with our burnished concrete masonry units. Many additional colors can be viewed in the Concrete Masonry section of our website www.airvolblock.com.



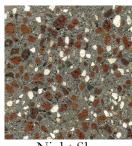
Silver Smoke



SLO Gold



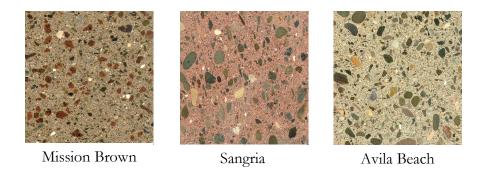
Arctic White

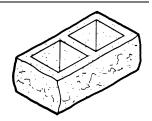


Night Sky



Pismo Sands





SLUMP BLOCKS

Introduction to Slump Blocks

In contrast to the precise dimensions of the straight-edged precision block, slump blocks are intentionally distorted during the manufacturing process to simulate the appearance of old adobe bricks. The rustic, rounded appearance of slump block is produced by utilizing a wetter than normal mixture that is subjected to an additional compression immediately upon ejection from the mold.

When specifying concrete masonry units, the dimensions are indicated in the following manner: width x height x length. Dimensions of slump blocks are usually expressed in terms of their nominal size, which is three-eighths of an inch greater than their actual size. This three-eighths of an inch difference accommodates the standard 3/8" mortar joint that is utilized with concrete masonry units. For example, a unit with the nominal dimensions of 8" x 6" x 16" would have actual dimensions of 7-1/2" x 5-1/2" x 15-1/2".

Applicable Standards and Quality Assurance

The slump block manufactured by Air Vol Block, Inc. comply with the requirements of ASTM C-90 and section 21-4 of the Uniform Building Code. For more information regarding the ASTM standards pertaining to concrete masonry units, please examine the *Specifying Masonry* section of this catalog contained under tab #2.

Air Vol Block has on-site testing facilities in which we monitor our product quality. Additionally, we participate in a testing program in which an independent laboratory randomly samples and tests our concrete masonry units.

Available Colors of Slump Block

Air Vol Block stocks a wide variety of slump block sizes in natural grey and tan color. A wide variety of other custom colors may be also be special ordered. Please contact your Air Vol Block representative for more information regarding custom colors.



The raw materials utilized in the manufacture of concrete masonry units are subject to We BLOCK, NC. natural variations in color which affect the color of the finished product. It is important that our customers understand that color can be guaranteed only to a range of color. Even natural grey units, which are manufactured without pigments, may have noticeable shade variations from run to run.

Available Sizes of Slump Block

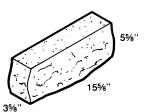
Slump blocks are manufactured in 4-inch and 6-inch heights. Available widths include 4", 6", 8", 12", and 16". Open-end units can be special-ordered.

The pages immediately following this page illustrate many of the available shapes and sizes of precision block. Air Vol Block, Inc. is constantly adding new items to its product line. Please call our sales office if you have questions regarding additional shapes or sizes.

4" WIDE SLUMP



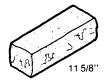
4x4x16 Standard



4x6x16 Standard



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4x4x12 Corner



4x4x8 Half

Wel BLOCK, INC.

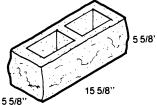
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SLUMP

5 5/8" 6x4x16 Standard

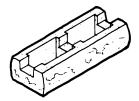
15 5/8"



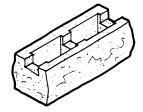
WIDE

6x6x16 Standard

6 "



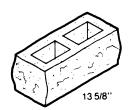
6x4x16 Bond Beam



6x6x16 Bond Beam



6x4x8 Half

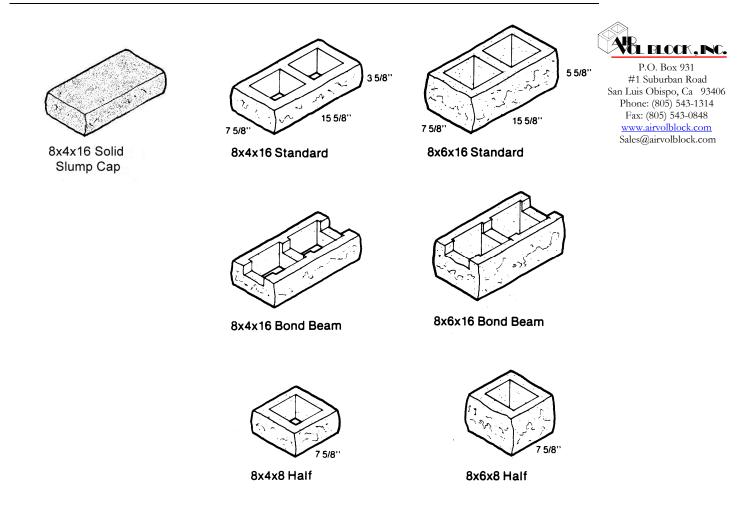


6x6x14 Corner



6x6x8 Half

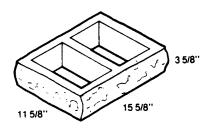
8" WIDE SLUMP



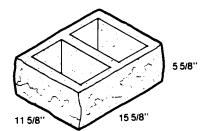
8x4x16's and 8x6x16's can be special-ordered as single openend units.



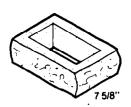
12x6x16's can be special-ordered as single open-end units.



12x4x16 Standard

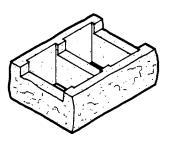


12x6x16 Standard

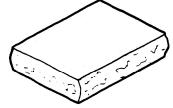


12x4x8 Half





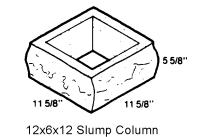
12x6x16 Bond Beam



12x4x16 Solid Slump Cap



12x6x8 Half

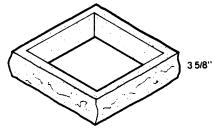


12x4x12 Slump Column

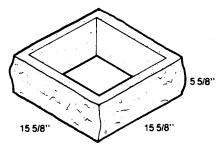
3 5/8"







16x4x16 Slump Column

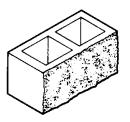


16x6x16 Slump Column





CONCRETE MASONRY UNITS



Introduction

Split-face blocks provide an attractive alternative to standard precision blocks. Their rugged texture reveals the natural aggregates used in their manufacture to create a visually appealing finish for any project.

Split-face blocks are made by manufacturing two or more blocks joined together as one large unit. After a curing period, the units are put through a guillotine-like machine that utilizes four blades to split the units apart and expose their interior aggregates. The amount of visible aggregates will vary from block to block and from run to run. Additionally, the aggregates used to manufacture these concrete masonry units are subject to natural color variations as they are mined from the earth. Because of these facts, it is important to order all split-face masonry units for a project at one time to ensure aggregate color- uniformity.

When specifying concrete masonry units, the dimensions are indicated in the following manner: width x height x length. Dimensions of split-face masonry units are usually expressed in terms of their nominal size, which is three-eighths of an inch greater than their actual size. This three-eighths of an inch difference accommodates the standard 3/8'' mortar joint that is utilized when installing these units. For example, a unit with the nominal dimensions of 8'' x 8'' x 16'' would have actual dimensions of 7-5/8'' x 7-5/8'' x 15-5/8''.

Applicable Standards and Quality Assurance

The split-face concrete masonry units manufactured by Air Vol Block, Inc. comply with the requirements of ASTM C-90 and section 21-4 of the Uniform Building Code. Air Vol Block maintains an inventory of medium weight split-face units. Lightweight and normal weight units are available as special-order items. For more information regarding the ASTM standards pertaining to concrete masonry units, please examine the *Specifying Masonry* section of this catalog contained under tab #2.

Air Vol Block has on-site testing facilities in which we test our products to ensure that they comply with the necessary specifications. Additionally, we participate in a testing program in which an independent laboratory randomly samples and tests our concrete masonry units.

Available Colors of Split-face Block

Air Vol Block stocks medium weight split-face units in natural grey and our stock Nutan color. A wide variety of custom colors may be special ordered. Please contact your Air Vol Block representative for more information regarding custom colors. Please note that a lead time of 6 to 8 weeks should be allowed for shipment of custom-colored masonry units.

The raw materials utilized in the manufacture of concrete masonry units are subject to natural variations in color which affect the color of the finished product. It is important that our customers understand that color can be guaranteed only to a range of color. Even natural grey units, which are manufactured without pigments, may have noticeable shade variations from run to run.

Available Sizes of Split-face Block

Air Vol Block maintains an inventory of $8 \ge 8 \ge 16$ and $12 \ge 8 \ge 16$ split-face units. Other sizes can be manufactured on a special-order basis.

The pages immediately following this page illustrate many of the available shapes and sizes of precision block. Air Vol Block, Inc. is constantly adding new items to its product line which may not be included in these drawings. Please call our office if you have questions regarding additional shapes or sizes.



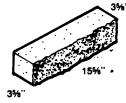
P.O. Box 931 #1 Suburban Road San Luis Obispo, Ca 93406 Phone: (805) 543-1314 Fax: (805) 543-0848 www.airvolblock.com Sales@airvolblock.com

SPLIT-FACE SOLID VENEERS



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All items on this page are available by special-order.

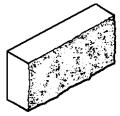


4x4x16 S/F 1 side (Solid)

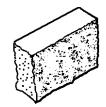


7-5/8" 15-5/8" 2.815

3x8x16 S/F 1-side Veneer



4x8x16 S/F 1-Side Veneer



4x8x12 S/F 1-Side & 1-End Veneer



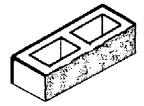
4x4x12 S/F 1-side & 1-End

6" WIDE SPLIT-FACE:

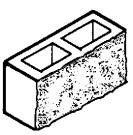
All items on this page are available by special-order.



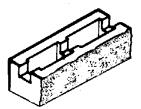
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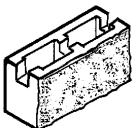
6x4x16 S/F 1-Side Standard



6x8x16 Standard S/F 1-side, S/F 2-sides

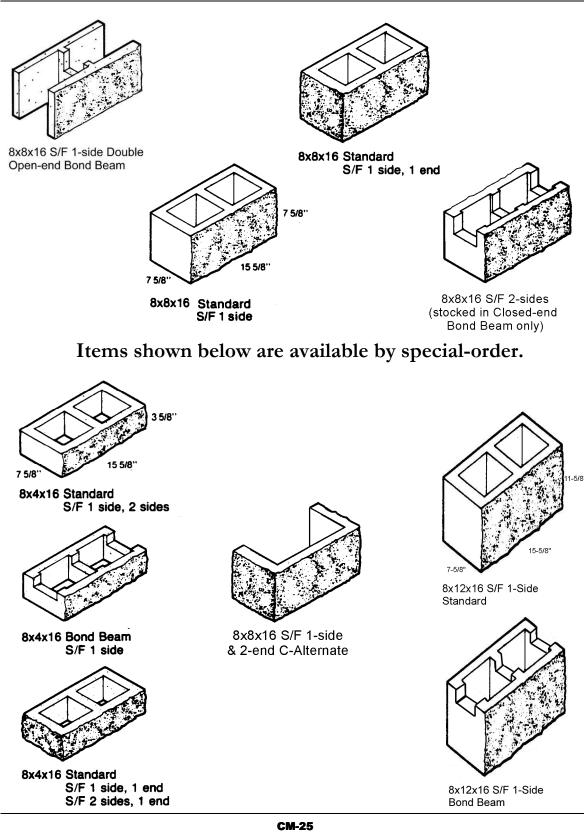


6x4x16 S/F 1-Side Bond Beam



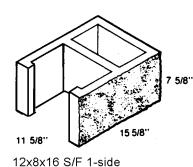
6x8x16 Bond Beam S/F 1-side, S/F 2-sides



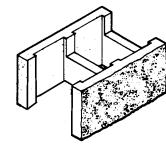


SPLIT-FACE 8" WIDE

10" & 12" WIDE SPLIT-FACE



Open-end Standard

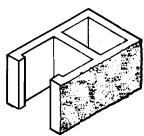


12x8x16 S/F 1-side Open-end Bond Beam

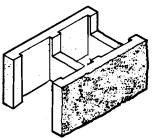


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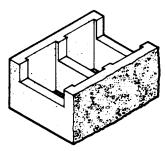
Items shown below are available by special-order.



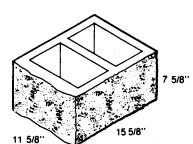
10x8x16 S/F 1-Side Standard Open-end



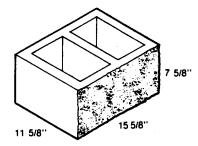
10x8x16 S/F 1-Side Bond Beam Open-end



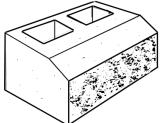
12x8x16 S/F 1 side Bond Beam



12x8x16 S/F 1-side (Special Order)



12x8x16 S/F 1 side Standard

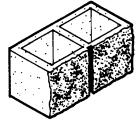


12x8x16 S/F Sill Block with the cores of an 8-inch wide block

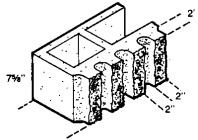


SPLIT-FACE DESIGN UNITS

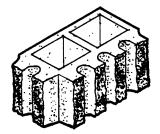
All items on this page available by special-order. All styles except 8-rib also available in 12-inch wide units.



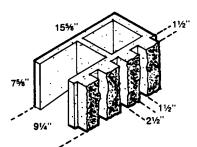
8x8x16 1-Vertical Score S/F 1-side or 2-side



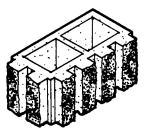
8x8x16 Fluted Split S/F 1 side



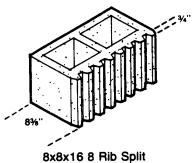
8x8x16 Fluted Split S/F 1 side, 1 end



8x8x16 Four Deep-Score S/F 1-side Standard Open-end



8x8x16 Four Deep-Score S/F 1-side, 1-End

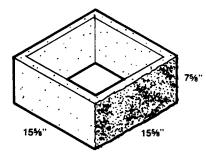


S/F 1 side

ACCESSORY UNITS SPLIT-FACE



8x3x8 Split-top 1-edge Split-top 2-Edge



16x8x16 Column S/F 1-Side, or 2-Sides



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