

CONCRETE BLOCK SIZES AND SHAPES

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Specifications For Concrete Masonry Units

Concrete Masonry Units

A. **General:** *Comply with the requirements Indicated Below.*

1. **Size:**

Provided concrete masonry units complying with requirements indicated below for size are manufactured to specified face dimensions within tolerances specified in applicable referenced ASTM specification.

A. Manufacture concrete masonry units specified dimensions of 3/8 inch less than nominal widths by nominal heights by nominal lengths.

2. Provide special shapes where indicated and as follows:

A. For Lintels, corners, jambs, sash, control joints, headers, bonding and other special conditions

B. Square-edged units for outside corners except where bullnose units are indicated.

B. **Hollow and solid load-bearing concrete masonry units:**

ASTM C 90 and as Follows:

A. Type II

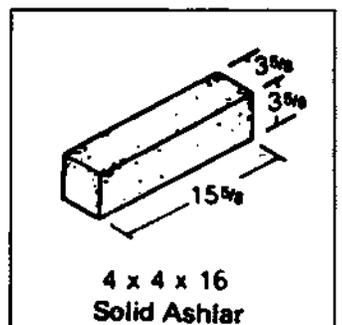
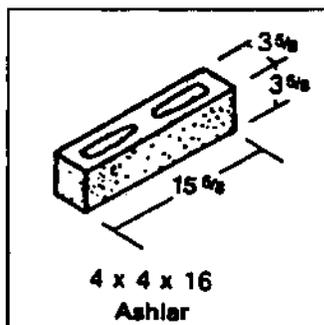
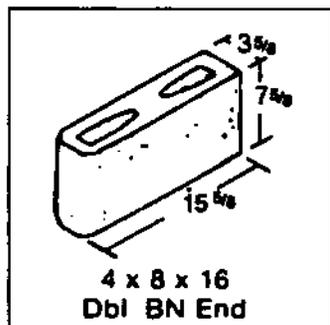
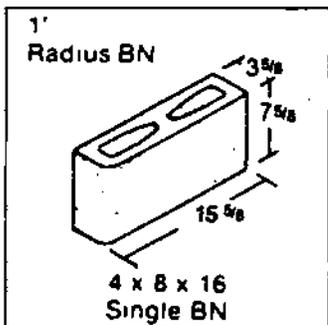
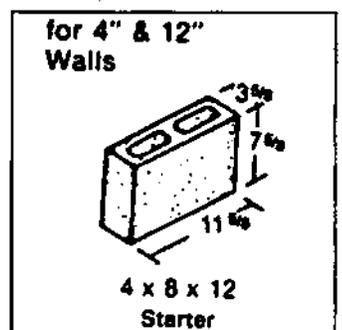
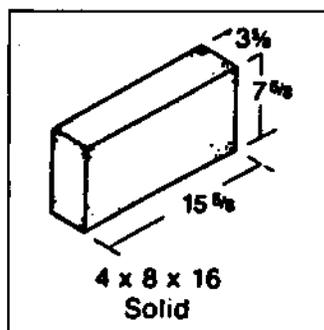
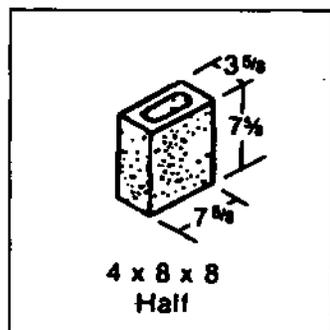
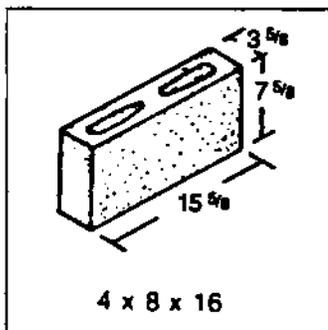
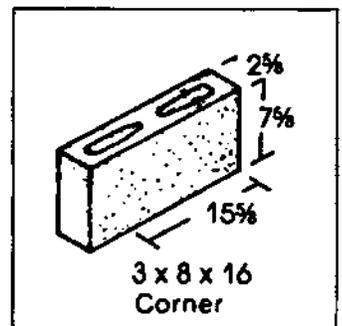
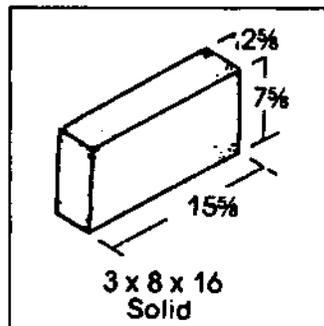
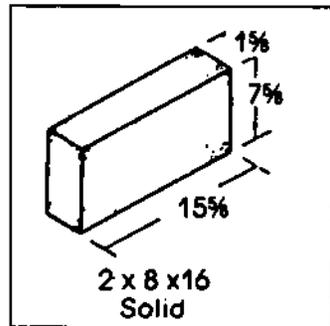
B. Weight Classifications: lightweight (maximum density of less than 105 PCF) and a maximum linear drying shrinkage of 0.065% when tested in accordance with ASTM C 426. Fabricate using lightweight aggregate that strictly conforms to ASTM C 331. Normal weight aggregates, when used in blending with lightweight aggregates to achieve a smooth, tight texture, shall conform to ASTM C 33.

C. Unit compressive strength not less than 1900 psi average net area to provide system performance requirement of FM 1500.

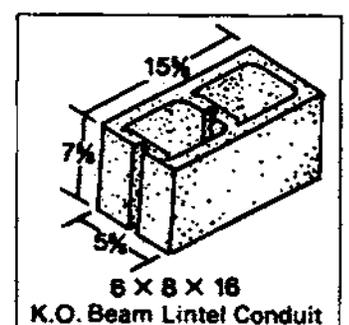
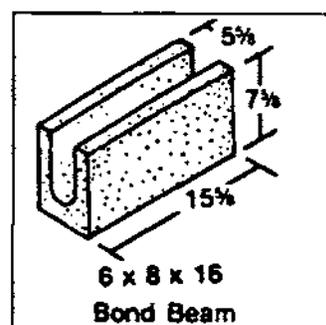
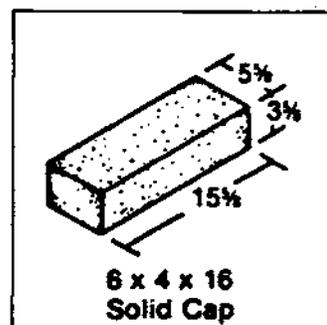
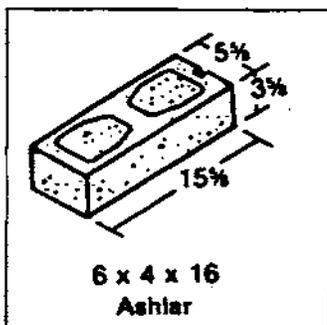
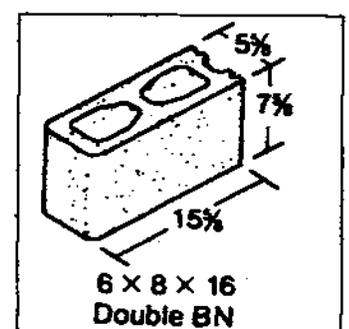
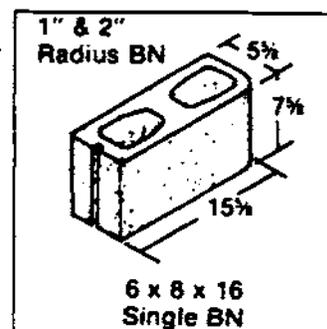
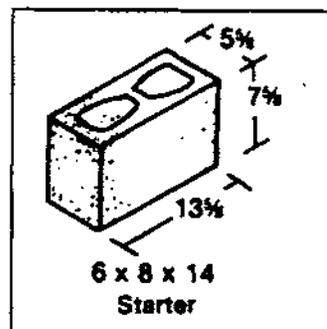
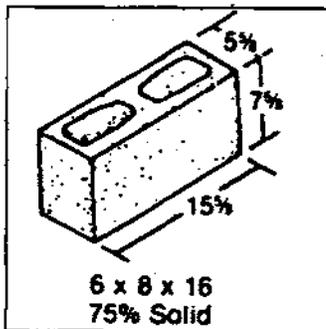
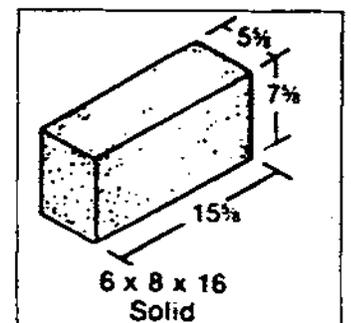
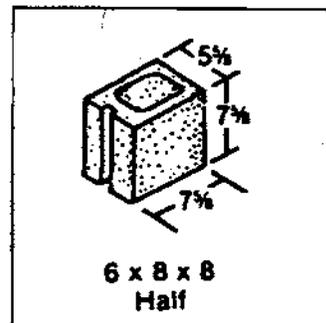
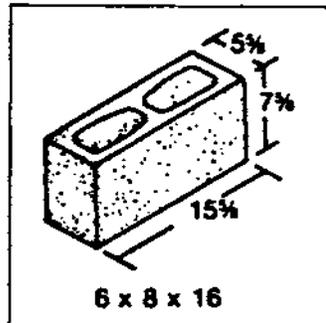
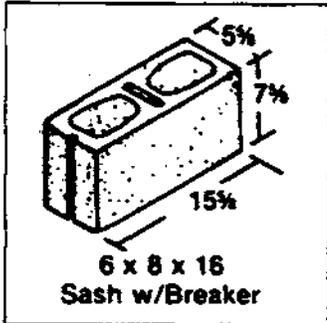
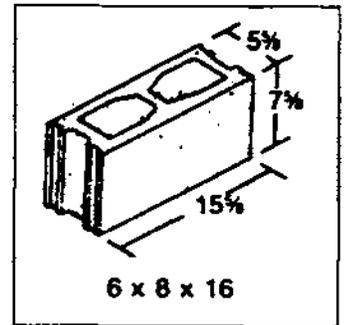
C. **Concrete building brick:** *ASTM C 55 and as Follows:*

A. Unit compressive strength: provide units with minimum average net area compressive strength to meet systems performance requirements.

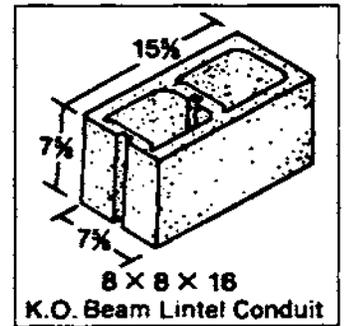
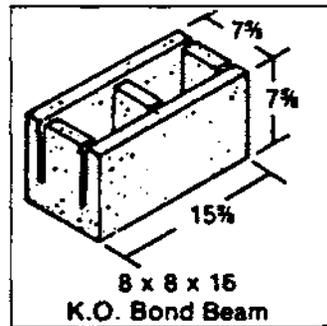
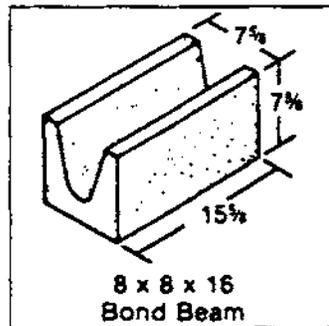
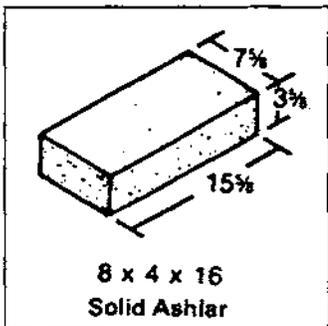
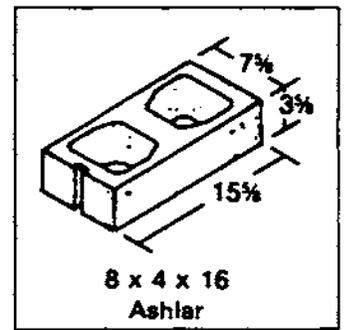
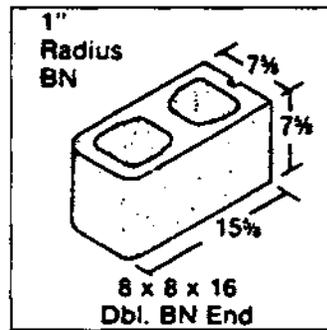
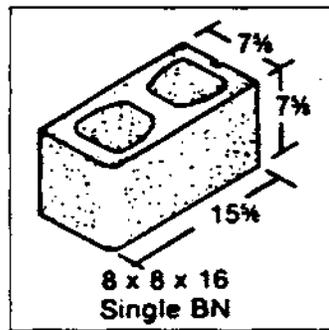
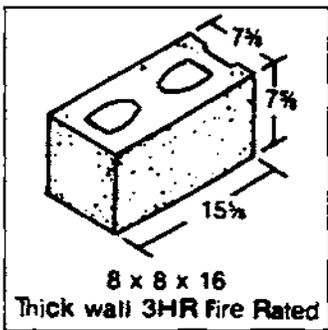
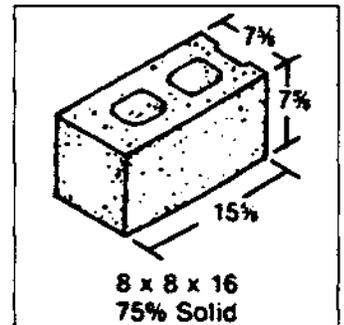
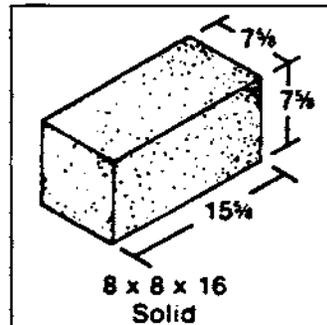
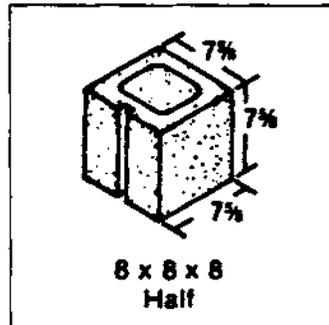
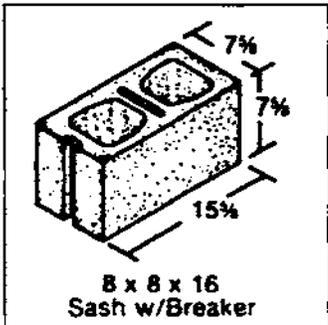
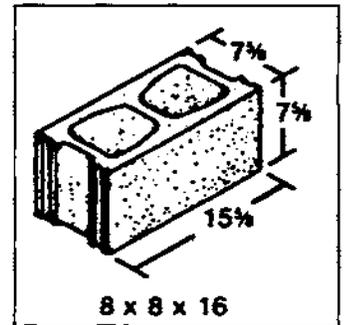
2, 3 AND 4"



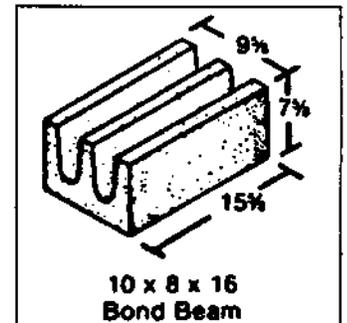
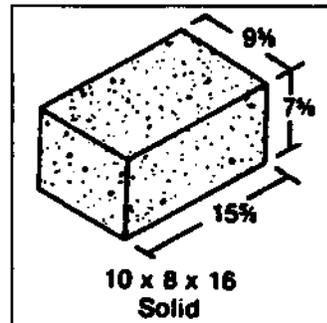
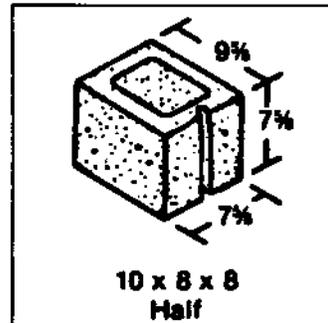
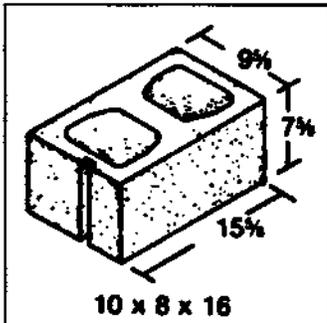
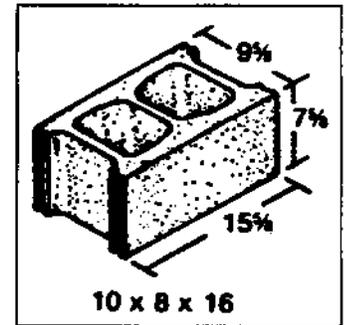
6"



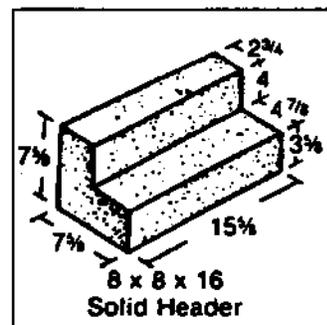
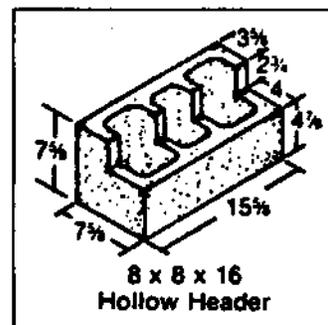
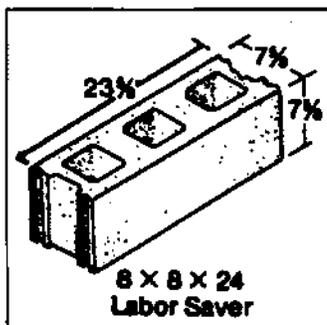
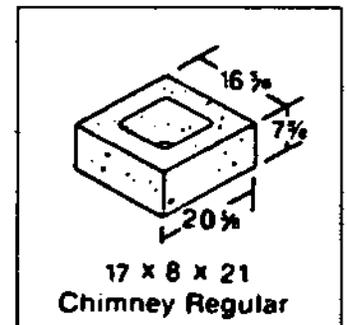
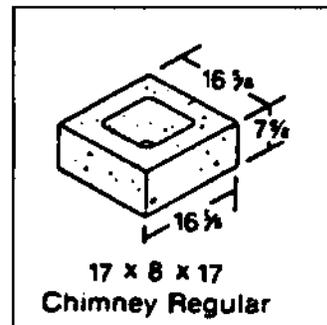
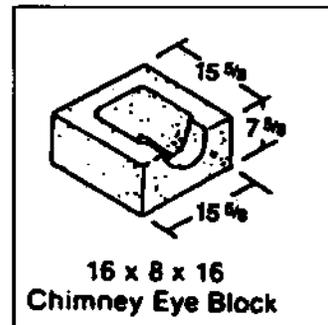
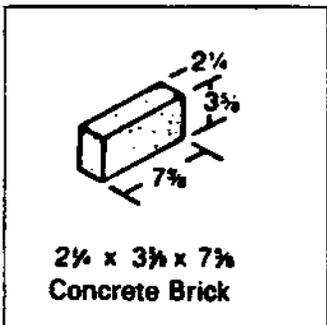
8"



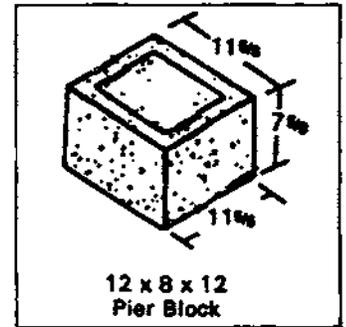
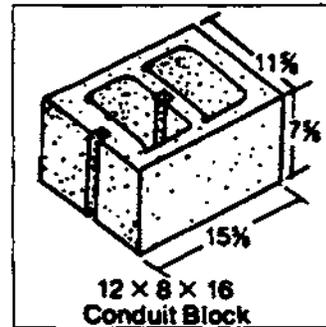
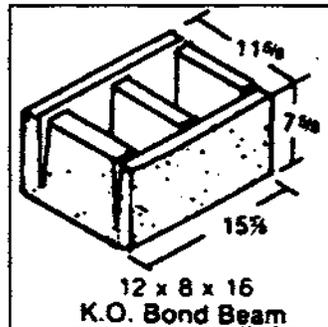
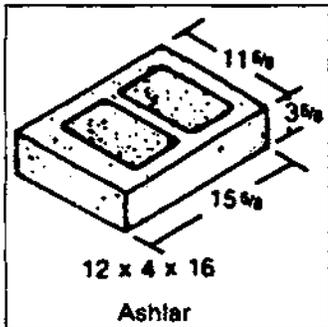
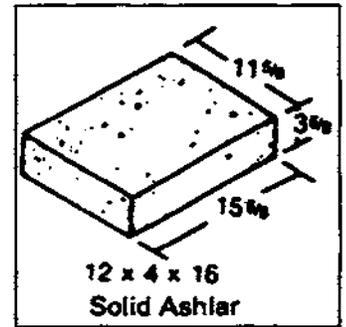
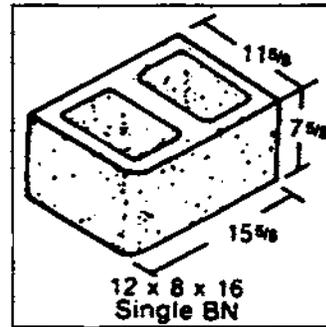
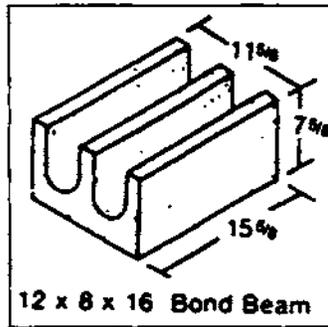
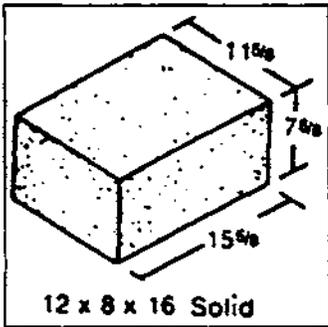
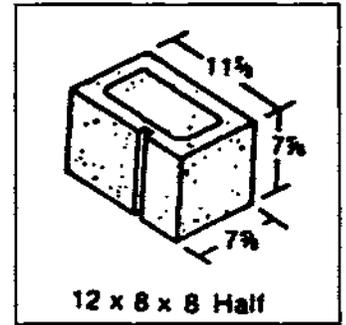
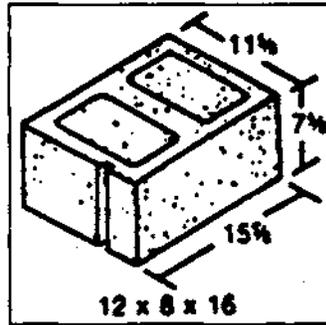
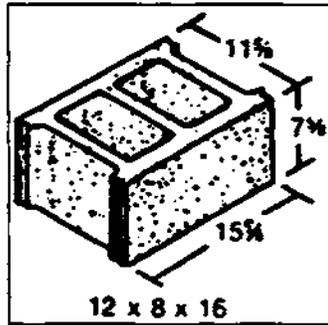
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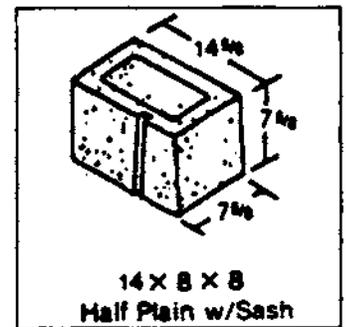
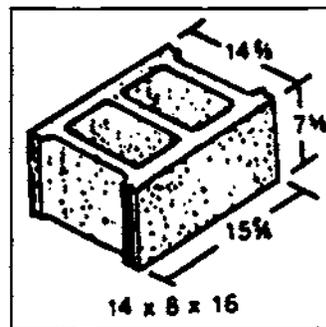
MISCELLANEOUS



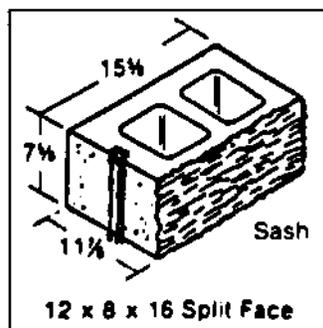
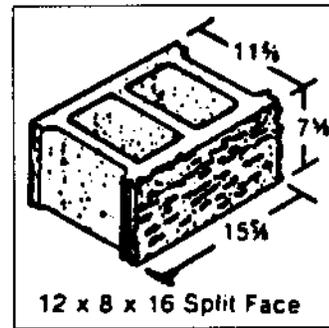
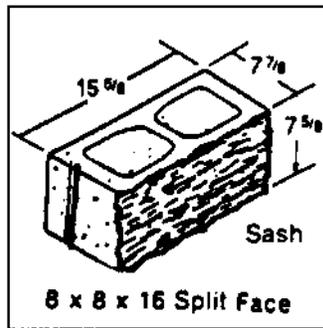
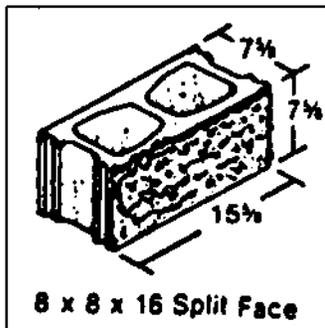
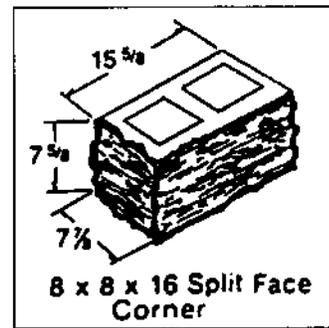
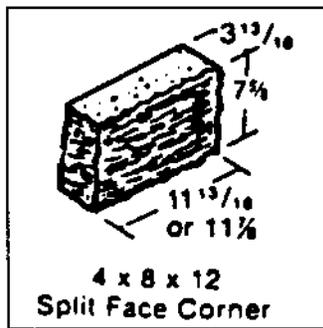
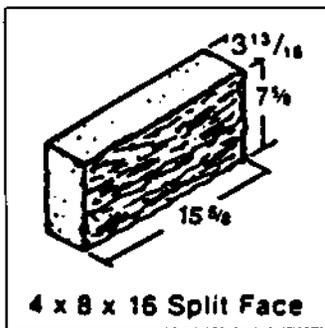
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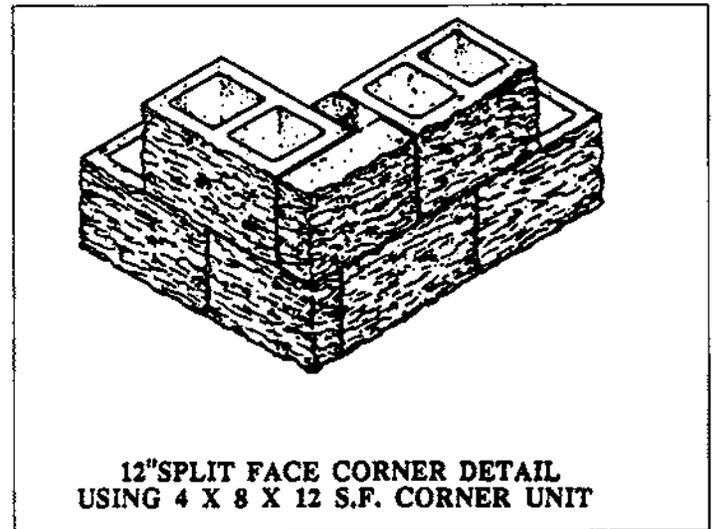
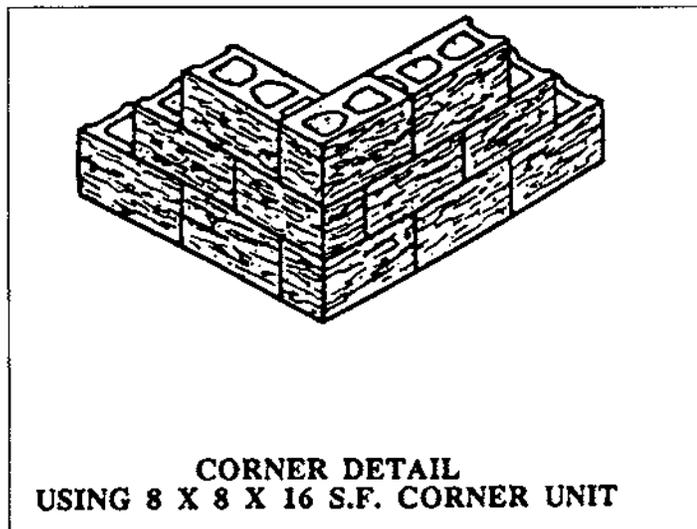
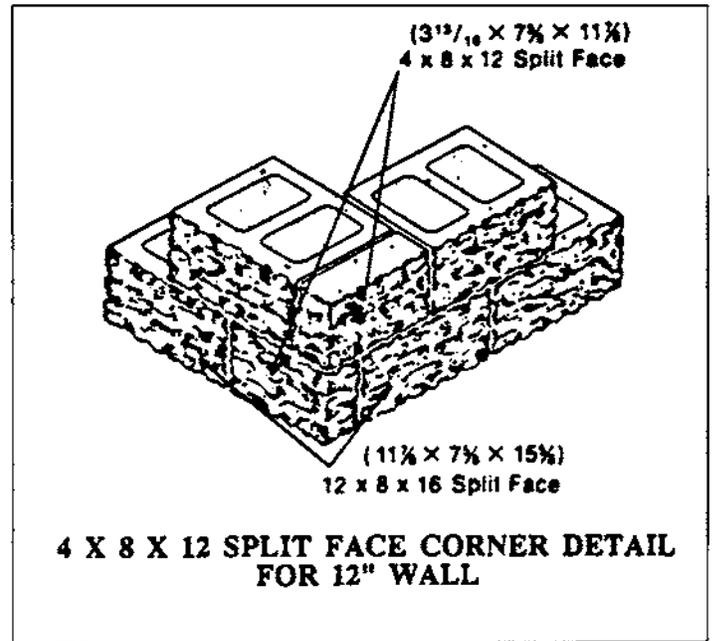
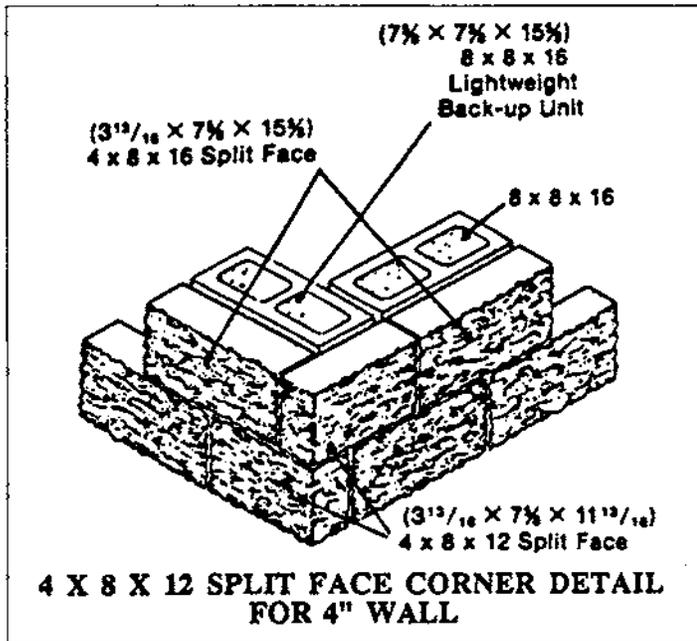
14"



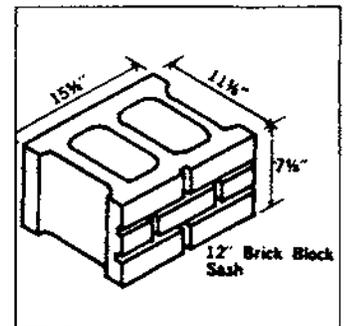
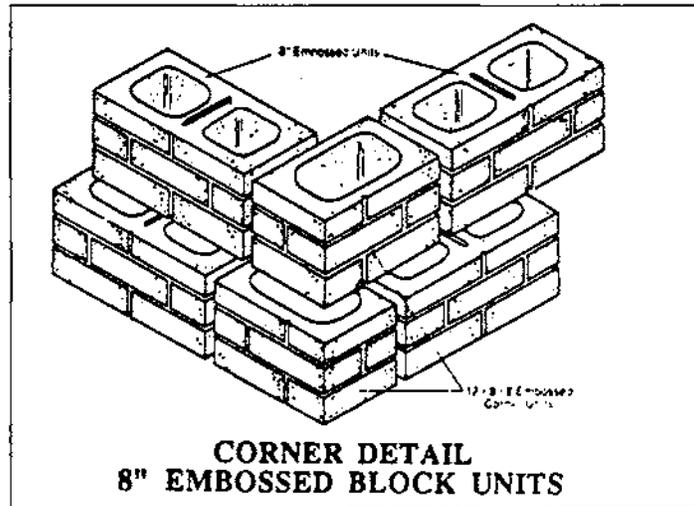
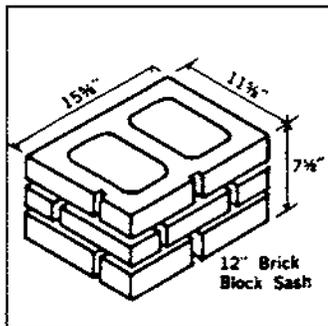
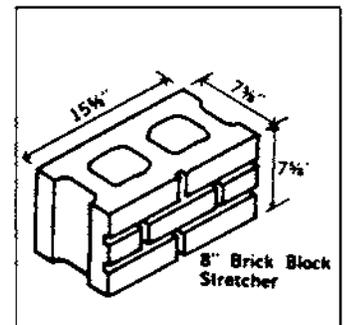
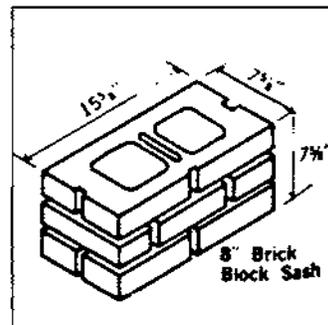
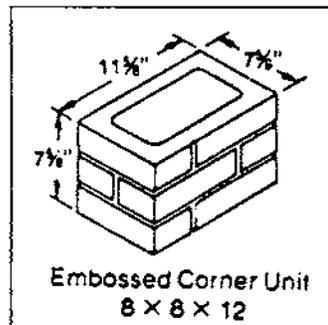
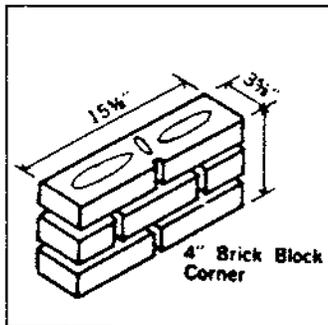
SPLIT FACE BLOCK



SPLIT FACE BLOCK WITH CORNER DETAILS



EMBOSSED BRICK-FACED BLOCK



12 & 8" Embossed Block are available embossed on both sides.
Note: Embossed Brick-Face Block should be laid on 1/4 bond.

ESTIMATING GUIDES

(The figures shown below are intended for "rule of thumb" use only)

Unit Quantities

Standard Block (8 x 8 x 16)	- 1.13 block per square foot of wall area
Regular Brick	- 7.0 brick per square foot of wall area
Oversize Brick	- 5.5 brick per square foot of wall area

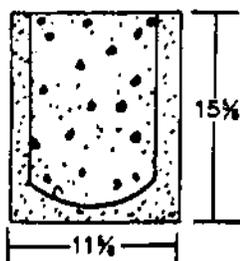
MORTAR QUANTITIES

Per 1,000 Units	Mortar Cement Bags	Sand-Tons
4" and 6" Regular Block	20	4
8", 10" and 12"	25	5
Regular Brick	7	11/4

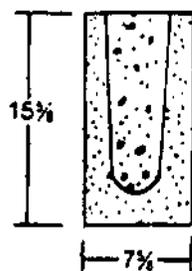
APPROXIMATE VOLUME REQUIRED TO FILL CORE VOIDS IN BLOCK

6x6x16	2 core	0.17 cu. ft./block
6x8x16	3 core	0.15 cu. ft./block
8x8x16	2 core	0.25 cu. ft./block
8x8x16	3 core	0.22 cu. ft./block
10x8x16	2 core	0.33 cu. ft./block
10x8x16	3 core	0.29 cu. ft./block
12x8x16	2 core	0.39 cu. ft./block
12x8x16	3 core	0.34 cu. ft./block

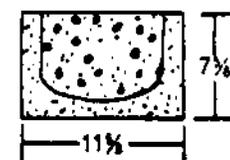
APPROXIMATE QUANTITIES OF CONCRETE REQUIRED TO FILL LINTELS AND BOND BEAMS



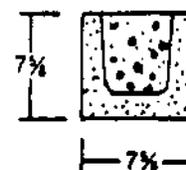
.74 cu. ft. concrete
per Lin. ft.



.46 cu. ft. concrete
per Lin. ft.



.37 cu. ft. concrete
per Lin. ft.



.22 cu. ft. concrete
per Lin. ft.



.173 cu. ft. concrete
per Lin. ft.