

Concrete Masonry

Product Guide



UNIT MASONRY SHAPES & SIZES

Regional Masonry Projects

County Materials works with exceptional architects and builders to create award-winning projects.

DECORATIVE CONCRETE MASONRY



Wisconsin Masonry Alliance Best of Show / Best of Masonry Award – Mars' Cheese Castle, Kenosha, Wis.



WMA Excellence Award
Marathon City Fire Station, Marathon, Wis.



WMA Excellence Award
Alexander Court Residence, Waukesha, Wis.



WMA Best of Concrete Masonry Award
Ishnala Trail Residence, Waukesha, Wis.



WMA Best of Concrete Masonry Award
Badger Railing, Milwaukee, Wis.



WMA Excellence Award
Six Point East Condominiums, West Allis, Wis.



WMA E2/Energy & Environmental Award
Starin Hall UW-Whitewater, Whitewater, Wis.

A Trusted Resource for Construction & Landscape Products

County Materials' manufacturing and sales locations proudly serve the industry with time-tested, quality concrete construction and landscape products, backed by excellent customer service and technical advice.

Concrete Block

- Burnished masonry
- Architectural and Decorative masonry
- Standard masonry
- Tumbled masonry
- Insulating units
- Lightweight block
- Acoustical block
- Oversize block
- Concrete Thin Veneers
- Masonry Products

Brick & Stone

- Concrete Brick
- Clay brick
- Heritage Cast Stone
- Manufactured stone
- Natural stone
- Address stones
- Keystones
- Thin-cut natural stone

Prestress

- Hollowcore Roof and Floor systems
- AASHTO "I" type girders
- Wide flange girders
- Post & beam
- Flat panel
- Specialty prestress
- NU girders
- Railway bridge girders
- Deck panels

Pipe & Precast

- Reinforced concrete culvert & storm sewer pipe
- Reinforced concrete horizontal & elliptical pipe
- Precast concrete box culverts
- Precast storm sewer manholes, inlets and catch basins
- Stormwater quality treatment structures
- Outlet control / Overflow / Specialty structures
- Reinforced concrete sanitary pipe
- Precast sanitary sewer manholes, lift stations
- Jacking / Tunneling pipe
- Specialty products & structures
- Precast modular jail cells
- Top & base slabs

Municipality Product Lines

- Sign post bases
- Parking curbs
- Grass pavers

Water Management Materials

- Galvanized-steel riveted culvert
- Geotextile fabrics
- Erosion control blankets
- Permeable Pavers

Highway Products

- Guiderail components
- Structural plate products
- W-beam and Thrie beam
- ET-2000 terminal ends

Ready-Mix & Materials

- Front-discharge trucks
- ICF's (Insulated Concrete Forms)
- Telebelt® material conveyor
- Sand and gravel
- Colored concrete
- Aggregate

Landscaping

- Segmental retaining wall systems
- Garden wall units
- Clay and concrete pavers
- Permeable pavers
- Patio stones, stepping stones and edgers
- Patio products and furnishings
- Outdoor Fireplaces and patio cabinets
- Sand, gravel, and aggregates
- Fieldstone
- Landscape fabric, adhesives, sealants and supplies
- Bagged mulch, aggregates, sands and soils

Introductory Information

County Materials Product Guide represents many of our quality Concrete Masonry Units (CMUs). However, it is impossible to include all of the construction materials and resources that we have available. Therefore, we invite you to explore the following avenues to obtain additional information on matters that you might not find within the confines of this guide.

WEB SITE

Please visit our web site at www.countymaterials.com for further valuable information:

- Photo gallery of projects utilizing various CMUs
- Integral color choices and availability
- County Materials Corp. locations and contact numbers
- Other County Materials Corp. products, including:
 - Landscape units
 - Concrete and clay pavers
 - Hollowcore planking
 - Septic tanks
 - Bridge beams
 - Precast concrete pipe and other products
 - Ready-Mix
 - ICFs (Insulated Concrete Forms)
- Links to NCMA Tek manual and construction details
- Technical Resources
- Events

SALES SHEETS & PRODUCT BROCHURES

For many of the individual products, sales sheets and product brochures are available through your local County Materials Sales Representative.

SUSTAINABLE CONSTRUCTION

County Materials is committed to providing our customers and communities assistance in achieving green building goals. We offer products that are produced with pre-consumer recycled content and use abundant, locally-sourced natural materials. Utilizing County Materials' products may contribute toward projects achieving sustainable building certifications, such as the U.S. Green Building Council's **LEED**® green building program.

If there is something that you do not find in this product guide, please call us at 800-289-2569 or contact your local County Materials Sales Representative.

WATER REPELLENTS

Integral water repellents can be added to most CMUs for improved performance both in the product and building structure. Water repellants are just one part of an improved wall system that includes proper design, sealers and professional workmanship.

Please call your County Sales Representative for a thorough discussion regarding the proper utilization of water repellants, manufacturer's recommendations on installation and use, details on proper flashing, weeps and other standard masonry practices.

INTEGRAL COLORING — SAMPLE KITS & PANELS

Integral colors can be added to most concrete masonry units. County Materials offers both solid and blended colors on most products. Please call your nearest County location samples.

MATERIAL SAFETY DATA SHEETS / LETTERS OF COMPLIANCE PRODUCT DATA SHEETS / SPECIFICATIONS

Many products have informative documentation. Please contact your County Materials Sales Representative for these items.

Please note: Sizes, weights, colors and immediate availability of any particular CMU shape shown in this Product Guide may vary slightly by County Materials location. Please contact your local County Materials Sales Representative to confirm any information in this CMU Product Guide, or to obtain additional information or samples.

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Information

MORTAR AND CEMENT MIXES

ALL TABLES PROVIDED ARE INTENDED AS A "RULE OF THUMB" ONLY.

MORTAR MIX & USE SELECTION:

**1 PART MORTAR, 3 PARTS MASON SAND OR
9 BAGS OF MORTAR TO ONE CUBIC YARD OF MASON SAND**

Number of Block per Bag of Mortar:

45 to 50 concrete block	(4" or 6" regular)
35 to 40 concrete block	(8" regular)
35 to 40 concrete block	(12" regular)

Number of Modular Brick per Bag of Mortar:

Approximately 125 brick

DO NOT use Masonry Cements for producing concrete.

C 270 - 07

TABLE X1.1 Guide for the Selection of Masonry Mortars

Mortar Type			
Location	Building Segment	Recommended	Alternative
Exterior, above grade	Load-bearing wall	N	S or M
	Non-load-bearing wall	O ^B	N or S
	Parapet wall	N	S
Exterior, at or below grade	Foundation wall, retaining wall, manholes, sewers, pavements, walks, and patios	S ^C	M or N ^C
Interior	Load-bearing wall	N	S or M
	Non-load-bearing partitions	O	N
Interior or Exterior	Tuck pointing	See Appendix X3	See Appendix X3

A. This table does not provide for many specialized mortar uses, such as chimney, reinforced masonry, and acid-resistant mortars.

B. Type O mortar is recommended for use where the masonry is unlikely to be frozen when saturated, or unlikely to be subjected to high winds or other significant lateral loads. Type N or S mortar should be used in other cases.

C. Masonry exposed to weather in a nominally horizontal surface is extremely vulnerable to weathering. Mortar for such masonry should be selected with due caution.

TYPICAL STUCCO MIXES: *Measured in Parts*

	Portland Cement	Hydrated Lime	Plaster Sand
Scratch Coat	1	1	6
Brown Coat	1	1	7.5
Finish Coat	1	2	9

(1) CUBIC FOOT BAG WEIGHTS

Portland Cement	(94 lb. bag)
Lime	(50 lb. bag)
M =	80 lbs.
S =	75 lbs.
N =	70 lbs.

DO NOT use Masonry Cements for producing concrete.

TYPICAL CONCRETE MIX:

Portland Cement	(94 lb. bag)
Concrete Sand	(235 lbs.)
3/4" to 1" Rock	(259 lbs.)

*This concrete mix will yield 3.5 to 3.75 cubic feet of concrete
(27 cubic feet = 1 cubic yard)*

$$\text{Cubic Feet} = \text{Length (ft.)} \times \text{Width (ft.)} \times \left(\frac{\text{Thickness (in.)}}{12} \right)$$

$$\text{Cubic Yards} = \frac{\text{Cubic Feet}}{27}$$

- **Do not use excessive water in your concrete mix!** Excessive water will reduce the strength of the concrete and its durability.
- **Curing** of the concrete is very important and must be started immediately after the finishing of the surface.
- **Sealing** of the concrete surface is also important. Sidewalks, patios and driveways should be sealed to prevent surface deterioration. Contact County Materials Corporation for recommended curing and sealing products.

SAND & MORTAR CEMENT – VOLUMES/RATIOS:

Yard/Cubic Foot Volume

Mason Sand: (1) cu. yd. = 27 cu. ft. = approx. 2,700 lbs. = 1.35 Ton
Mortar/Masonry Cements: (1) bag = (1) cu. ft.

Mason sand ratio: and a minimum of 2-1/4 to a maximum of 3 times the volume of cement materials.

Sand	to	Mortar
1Ton		7 bags
300 lbs.		1 bag

Mortar Type Proportions (Cement : Lime : sand)

M	S	N	O	K
1 : 0.25 : 3.75	1 : 0.5 : 4.5	1 : 1 : 6	1 : 2 : 9	1 : 3 : 12

Information

CALCULATING QUANTITIES

MORTAR PREMIX M,S,N

MORTAR ESTIMATING CHART FOR 80LB. BAG

Masonry Units	Yield Per 80 lb. Bag	No. of Bags Per 1,000 Units
Modular Brick	40	25
Queen Sized Brick	34	30
King Sized Brick	27	37
Utility Brick	16	63
4" Block	12	83
6" Block	12	83
8" Block	11	90
10" Block	11	90
12" Block	10	100

CORE FILL GROUT

Estimating Chart for 80lb. Bag

Masonry Units	Bags Required per 100 sq. ft.
4"	14
6"	35
8"	47
12"	80

NUMBER OF BLOCK PER (5) FT³ BAG OF POLYSTYRENE BEADS:

	Compacted Block/Bag	Loose Block/Bag
8" Regular	18	23
8" Thermal	22	28
8" Thermal 1 Stuffer	37	40
12" Regular	11	15
12" Thermal	11	15
12" Thermal 1 Stuffer	14	19
12" Thermal 2 Stuffers	18	23

NUMBER OF CLAY BRICK PER SQ. FT.*:

	W x H x L in inches	Sq. Ft. Mult. by
Modular	3 ⁵ / ₈ x 2 ¹ / ₄ x 7 ⁵ / ₈	6.86
Standard	3 ⁵ / ₈ x 2 ¹ / ₄ x 8	6.55
Roman	3 ¹ / ₂ x 1 ⁵ / ₈ x 11 ⁵ / ₈	6.00
Oversize/Scotty/Queen/Engineer	3 ¹ / ₂ x 2 ³ / ₄ x 7 ⁵ / ₈	5.76
Princess, Builders Special	3 x 2 ³ / ₄ x 8 ³ / ₄	5.05
Kingsize	3 ¹ / ₈ x 2 ⁵ / ₈ x 9 ⁵ / ₈	4.8
Norman	3 ⁵ / ₈ x 2 ¹ / ₄ x 11 ⁵ / ₈	4.57
Engineer, Kingsize	3 x 2 ¹³ / ₁₆ x 9 ⁵ / ₈	4.52
Closure, Economo	3 ⁵ / ₈ x 3 ⁵ / ₈ x 7 ⁵ / ₈	4.55
Utility	3 ⁵ / ₈ x 3 ⁵ / ₈ x 11 ⁵ / ₈	3.00

NUMBER OF CONCRETE BLOCK PER SQ. FT.*:

	Square Feet Multiplied by
Concrete Block (8"x16" face)	1.125

HERITAGE COLLECTION DESIGNER SERIES:

CONCRETE BRICK* (see page 40)	W x H x L in inches	No. Required per Sq. Ft.
Modular	3 ⁵ / ₈ x 2 ¹ / ₄ x 7 ⁵ / ₈	6.85
Engineer	3 ⁵ / ₈ x 2 ³ / ₄ x 7 ⁵ / ₈	5.67
King	3 ⁵ / ₈ x 3 x 9 ³ / ₄	4.2
Closure	3 ⁵ / ₈ x 3 ⁵ / ₈ x 7 ⁵ / ₈	4.5
Utility	3 ⁵ / ₈ x 3 ⁵ / ₈ x 11 ⁵ / ₈	3
Half High	3 ⁵ / ₈ x 3 ⁵ / ₈ x 15 ⁵ / ₈	2.25

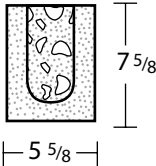
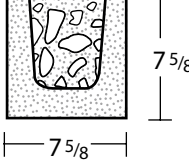
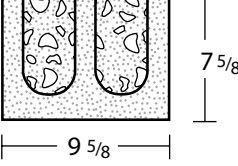
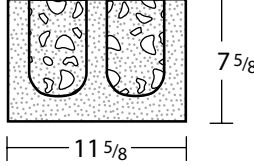
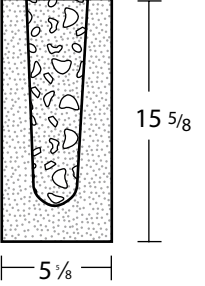
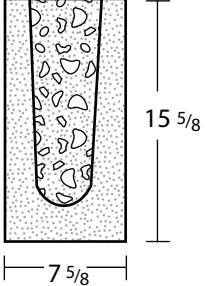
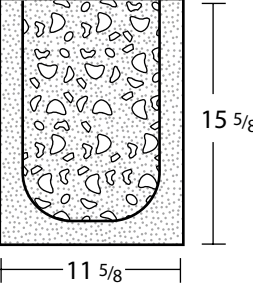
For metric conversions, refer to the tables on page 68.

* Includes mortar joint

Estimating Guides

ALL TABLES SHOWN BELOW ARE INTENDED AS A "RULE OF THUMB" ONLY.

REGULAR BLOCK			
UNIT QUANTITIES	APPROXIMATE VOLUME REQUIRED TO FILL CORE VOIDS IN BLOCK		
Standard Block (8" high x 16" long)-(nominal dimensions) 1.125 block per square foot of wall area Concrete Brick King = 4.2 brick per square foot of wall area Utility = 3 brick per square foot of wall area Half-high Block (4" high x 16" long) 2.25 block per square foot of wall area	6 x 8 x 16	2 core	0.19 cu. ft./block or 46% void
	8 x 8 x 16	2 core	0.27 cu. ft./block or 47% void
	10 x 8 x 16	2 core	0.37 cu. ft./block or 52% void
	12 x 8 x 16	2 core	0.48 cu. ft./block or 56% void
	14 x 8 x 16	2 core	0.55 cu. ft./block or 55% void
	16 x 8 x 16	2 core	0.64 cu. ft./block or 55% void
Calculation example: 5,000 - 8" block to be filled: $5,000 \times 0.27 = 1,350$ cu. ft. \div 27 cu. ft. per cu. yard = 50 cu. yards			

BOND BEAM & LINTEL BLOCK																			
APPROXIMATE VOLUME OF GROUT REQUIRED TO FILL BOND BEAMS AND LINTELS																			
6" BOND BEAM 	8" BOND BEAM 	10" BOND BEAM 	12" BOND BEAM 																
6" LINTEL - K/OUTS 	8" LINTEL - K/OUTS 	12" LINTEL - K/OUTS 	<table border="1"> <thead> <tr> <th colspan="2">CUBIC FEET AND % VOID TO FILL ONE BLOCK</th> </tr> </thead> <tbody> <tr> <td>6" Bond Beam</td> <td>0.16 cu. ft. / 39% void</td> </tr> <tr> <td>8" Bond Beam</td> <td>0.20 cu. ft. / 37% void</td> </tr> <tr> <td>10" Bond Beam</td> <td>0.27 cu. ft. / 39% void</td> </tr> <tr> <td>12" Bond Beam</td> <td>0.33 cu. ft. / 41% void</td> </tr> <tr> <td>6" Lintel</td> <td>0.19 cu. ft. / 47% void</td> </tr> <tr> <td>8" Lintel</td> <td>0.32 cu. ft. / 58% void</td> </tr> <tr> <td>12" Lintel</td> <td>0.56 cu. ft. / 67% void</td> </tr> </tbody> </table>	CUBIC FEET AND % VOID TO FILL ONE BLOCK		6" Bond Beam	0.16 cu. ft. / 39% void	8" Bond Beam	0.20 cu. ft. / 37% void	10" Bond Beam	0.27 cu. ft. / 39% void	12" Bond Beam	0.33 cu. ft. / 41% void	6" Lintel	0.19 cu. ft. / 47% void	8" Lintel	0.32 cu. ft. / 58% void	12" Lintel	0.56 cu. ft. / 67% void
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Fire Resistance Ratings

INTERNATIONAL BUILDING CODE

Table 721.3.2

Minimum Equivalent Thickness (Inches) of Bearing or Nonbearing Concrete Masonry Walls ^{a, b, c, d}

TYPE OF AGGREGATE	FIRE-RESISTANCE RATING (hours)														
	1/2	3/4	1.0	1-1/4	1-1/2	1-3/4	2.0	2-1/4	2-1/2	2-3/4	3.0	3-1/4	3-1/2	3-3/4	4
Pumice or expanded slag	1.5	1.9	2.1	2.5	2.7	3.0	3.2	3.4	3.6	3.8	4.0	4.2	4.4	4.5	4.7
Expanded shale, clay or slate	1.8	2.2	2.6	2.9	3.3	3.4	3.6	3.8	4.0	4.2	4.4	4.6	4.8	4.9	5.1
Limestone, cinders or unexpanded slag	1.9	2.3	2.7	3.1	3.4	3.7	4.0	4.3	4.5	4.8	5.0	5.2	5.5	5.7	5.9
Calcareous or siliceous gravel	2.0	2.4	2.8	3.2	3.6	3.9	4.2	4.5	4.8	5.0	5.3	5.5	5.8	6.0	6.2

For SI: 1 inch - 25.4 mm

- a.** Values between those shown in the table can be determined by direct interpolation.
- b.** Where combustible members are framed into the wall, the thickness of solid material between the end of each member and the opposite face of the wall, or between members set in from opposite sides, shall not be less than 93 percent of the thickness shown in the table.
- c.** Requirements of ASTM C 55, ASTM C 73 or ASTM C 90 shall apply.
- d.** Minimum required equivalent thickness corresponding to the hourly fire-resistance rating for units with a combination of aggregate shall be determined by linear interpolation based on the percent by volume of each aggregate used in manufacture.

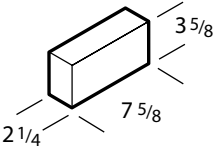
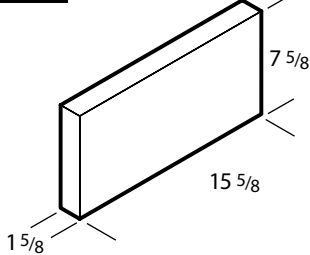
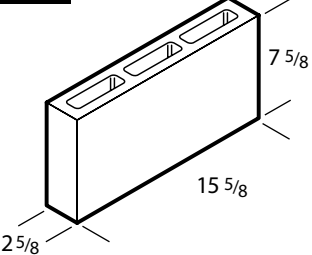
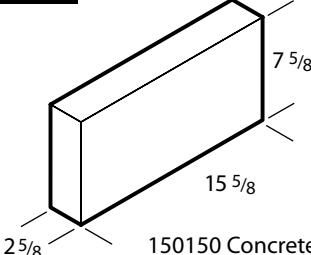
Technical and Delivery Data

BLOCK SIZE & DESCRIPTION <i>width x height x length</i>	STANDARD CONCRETE BLOCK				STANDARD LIGHTWEIGHT BLOCK			
	STOCK NO.	AVERAGE WT. PER BLOCK*	NO. BLOCK PER SKID*	FIRE RATING*	STOCK NO.	AVERAGE WT. PER BLOCK*	NO. BLOCK PER SKID*	FIRE RATING*
CONCRETE BRICK	150100	4	768	-	-	-	-	-
2 x 8 x 16 Solid (Soaps)	150135	15	225	-	-	-	-	-
3 x 8 x 16 Solid	150150	27	135	-	-	24	135	1 Hr.
4x8x16 REGULAR	040000	25	150	-	040200	18	150	1 Hr.
4 x 8 x 16 Solid	040054	35	120	1 Hr.	040254	26	120	2 Hrs.
4 x 4 x 16 Half Course	040008	12	341	-	040208	9	341	-
4 x 8 x 8 Half Block	040002	13	300	-	040202	10	300	-
6 x 8 x 16 REGULAR	060000	28	130	1 Hr.	060200	20	130	1 Hr.
6 x 8 x 16 Solid	060054	54	60	3 Hrs.	060254	40	60	4 Hrs.
6 x 4 x 16 Half Course	060008	14	260	-	060208	10	260	-
6 x 8 x 8 Half Block	060002	15	200	-	060202	11	200	-
8 x 8 x 16 REGULAR	080000	38	90	1 Hr.	080200	28	90	2 Hrs.
8 x 8 x 16 Special 2 Hr. Fire	080040	43	90	2 Hrs.	-	-	-	-
8 x 8 x 16 Solid	080055	78	45	4 Hrs.	-	-	-	-
8 x 8 x 16 Firewall 3 Hr. Fire	080045	56	60	3 Hrs.	-	-	-	-
8 x 8 x 16 - 75% Solid	-	-	-	-	080250	47	75	4 Hrs.
8 x 4 x 16 Half Course	080008	19	195	-	080208	14	195	-
8 x 8 x 4 Quarter Block	080001	19	210	-	080201	14	210	-
8 x 8 x 8 Half Block	080002	20	180	-	080202	16	180	-
8 x 8 x 12 Three Quarter Block	080003	33	120	-	080203	24	120	-
10 x 8 x 16 REGULAR	100000	45	80	2 Hrs.	100200	33	80	3 Hrs.
10 x 4 x 16 Half Course	100008	23	169	-	100208	17	169	-
10 x 8 x 4 Quarter Block	100001	24	182	-	100201	17	182	-
10 x 8 x 8 Half Block	100002	24	156	-	100202	18	156	-
10 x 8 x 12 Three Quarter Block	100003	36	102	-	100203	26	102	-
12 x 8 x 16 REGULAR	120000	50	65	2 Hrs.	120200	36	65	4 Hrs.
12 x 8 x 16 Firewall 3 Hr. Fire	120045	59	65	3 Hrs.	-	-	-	-
12 x 8 x 16 Firewall 4 Hr. Fire	120050	66	55	4 Hrs.	-	-	-	-
12 x 4 x 16 Half Course	120008	25	130	-	120208	18	130	-
12 x 8 x 4 Quarter Block	120001	26	140	-	120201	20	140	-
12 x 8 x 8 Half Block	120002	26	130	-	120202	20	130	-
12 x 8 x 12 Three Quarter Block	120003	40	60	-	120203	28	60	-
14 x 8 x 16 REGULAR	140000	60	54	3 Hrs.		46	54	4 Hrs.
16 x 8 x 16 REGULAR	160000	68	45	4 Hrs.		51	45	4 Hrs.

* Average weights, number of blocks per skid and fire ratings may vary slightly by location.

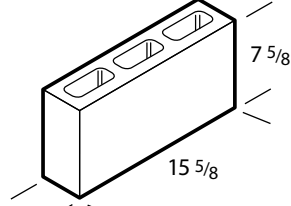
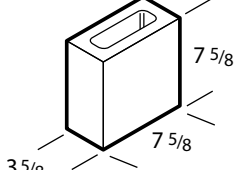
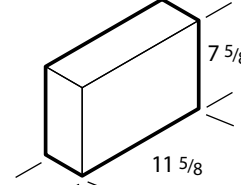
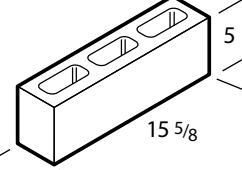
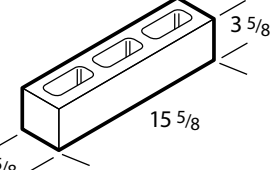
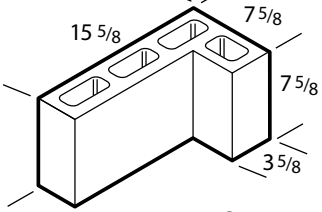
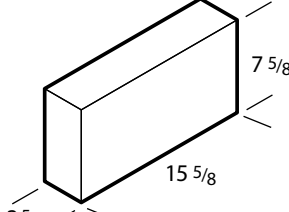
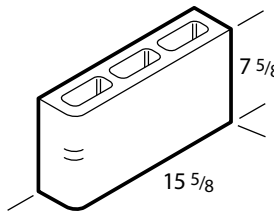
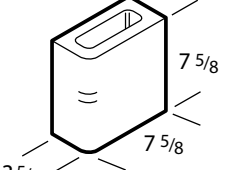
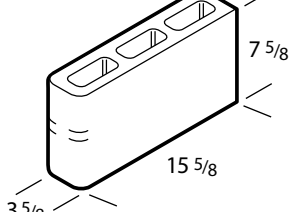
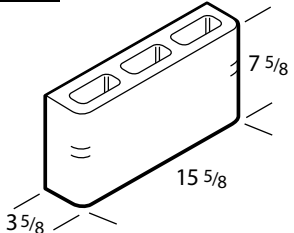
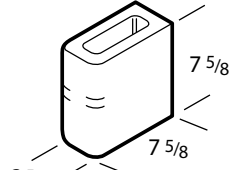
Sizes: 2" and 3"

SHAPES AND SIZES

<p>2 in. Brick (Common)</p>  <p>150100 Concrete</p>	<p>2 in. Solid/Soap</p>  <p>150135 Concrete</p>	<p>3 in. Regular</p>  <p>150140 Concrete</p>
<p>3 in. Solid</p>  <p>150150 Concrete 150152 Lightweight</p>		

Sizes: 4"

SHAPES AND SIZES

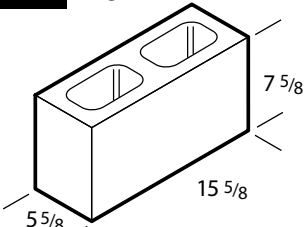
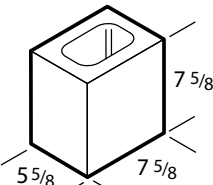
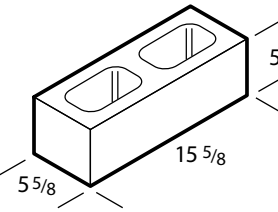
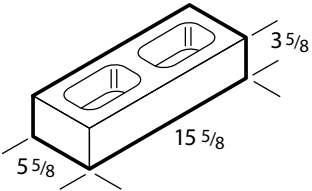
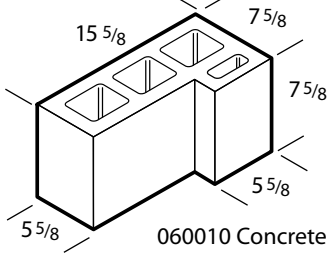
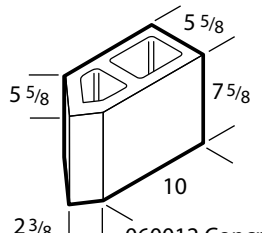
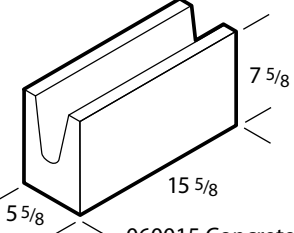
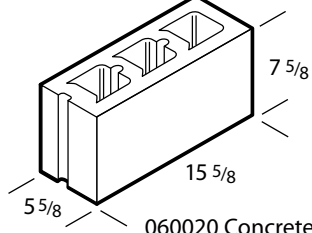
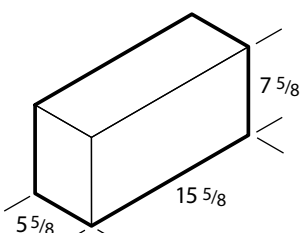
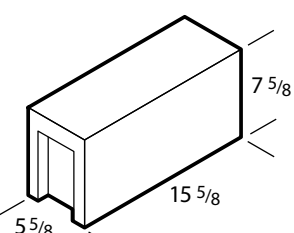
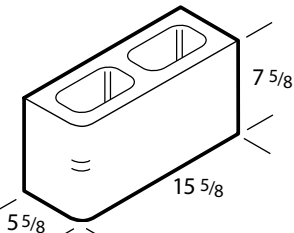
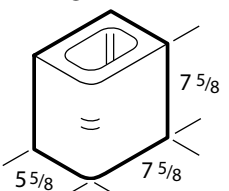
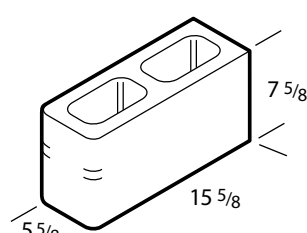
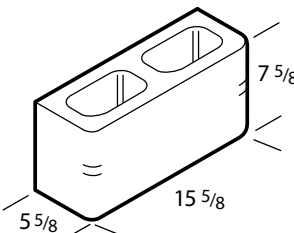
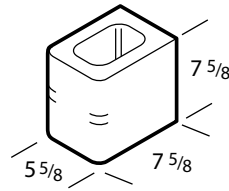
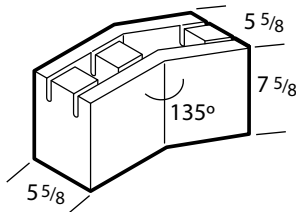
<p>4 in. Regular**</p>  <p>040000 Concrete 040200 Lightweight</p>	<p>4 in. Two Qtr. / Half Block</p>  <p>040002 Concrete 040202 Lightweight</p>	<p>4 in. Three Qtr.</p>  <p>040003 Concrete 040203 Lightweight (Alternate - 12" One Qtr.)</p>	<p>4 in. 5 High (Starter)</p>  <p>040006 Concrete 040206 Lightweight</p>
<p>4 in. Half High</p>  <p>040008 Concrete 040208 Lightweight</p>	<p>4 in. L-Corner***</p>  <p>040010 Concrete 040210 Lightweight</p>	<p>4 in. Solid</p>  <p>040054 Concrete 040254 Lightweight</p>	<p>4 in. Single Bullnose*</p>  <p>044001 Concrete 044201 Lightweight</p>
<p>4 in. Two Qtr. / Half Block Single Bullnose*</p>  <p>044006 Concrete 044206 Lightweight</p>	<p>4 in. Double Bullnose* End</p>  <p>044010 Concrete 044210 Lightweight</p>	<p>4 in. Double Bullnose* Face</p>  <p>044012 Concrete 044212 Lightweight</p>	<p>4 in. Two Qtr. / Half Block Double Bullnose*</p>  <p>044016 Concrete 044216 Lightweight</p>

* All Bullnose have 1" radius.

Note: Not all block immediately available at all County Materials locations.
 ** Full 8" high units available in select markets. Contact your sales representative.
 *** Only available in solid units at some locations.

Sizes: 6"

SHAPES AND SIZES

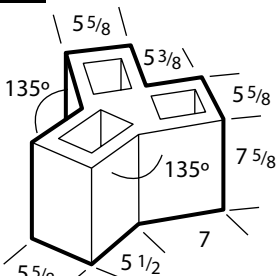
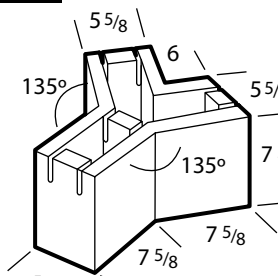
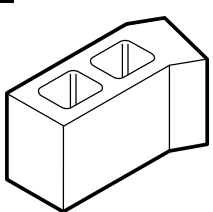
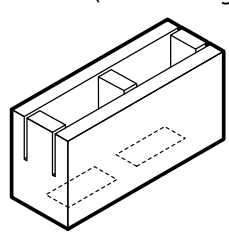
<p>6 in. Regular**</p>  <p>060000 Concrete 060200 Lightweight</p>	<p>6 in. Two Qtr. / Half Block</p>  <p>060002 Concrete 060202 Lightweight</p>	<p>6 in. 5 High (Starter)</p>  <p>060006 Concrete 060206 Lightweight (May be available as a solid)</p>	<p>6 in. Half High</p>  <p>060008 Concrete 060208 Lightweight (May be available as a solid)</p>
<p>6 in. L-Corner</p>  <p>060010 Concrete 060210 Lightweight</p>	<p>6 in. Bay Block (45° Corner)</p>  <p>060012 Concrete 060212 Lightweight</p>	<p>6 in. Bond Beam</p>  <p>060015 Concrete 060215 Lightweight</p>	<p>6 in. Utility Knockout</p>  <p>060020 Concrete 060220 Lightweight 060018 (Substitute for 6" Lintel)</p>
<p>6 in. Solid</p>  <p>060054 Concrete 060254 Lightweight</p>	<p>6 in. Solid Top/Cap**</p>  <p>060060 Concrete</p>	<p>6 in. Single Bullnose*</p>  <p>064001 Concrete 064201 Lightweight</p>	<p>6 in. Two Qtr. / Half Block Single Bullnose*</p>  <p>064006 Concrete 064206 Lightweight</p>
<p>6 in. Double Bullnose* End</p>  <p>064010 Concrete 064210 Lightweight</p>	<p>6 in. Double Bullnose* Face</p>  <p>064012 Concrete 064212 Lightweight</p>	<p>6 in. Two Qtr. / Half Block Double Bullnose*</p>  <p>064016 Concrete 064216 Lightweight</p>	<p>6 in. 45° Return Corner</p>  <p>060012R Concrete</p>

* All Bullnose have 1" radius.

Note: Not all block immediately available at all County Materials locations.
** Full 8" high units available in select markets. Contact your sales representative.

Sizes: 6"

SHAPES AND SIZES

<p>6 in. Y Block¹</p>  <p>060013 Concrete</p>	<p>6 in.</p>  <p>060014 Concrete</p>	<p>6 in. LW 20° Corner</p>  <p>Special Order Required</p>	<p>6 in. LW Knockout Bond Beam (Flow Through)</p>  <p>060217 Concrete</p>
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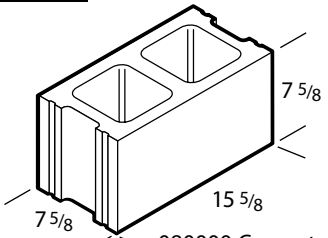
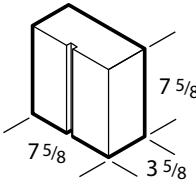
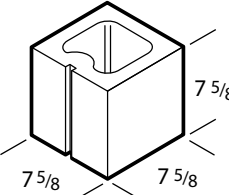
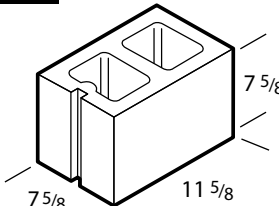
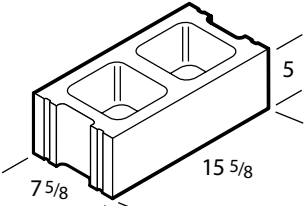
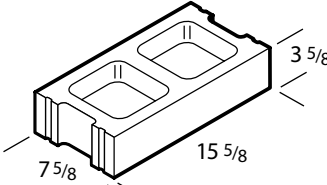
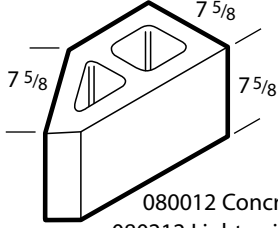
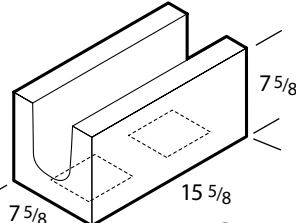
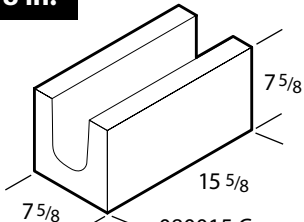
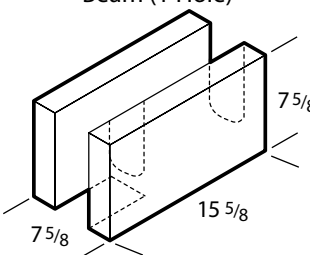
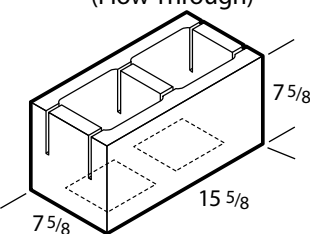
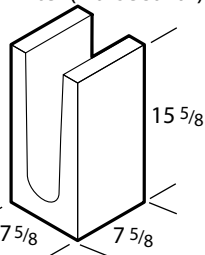
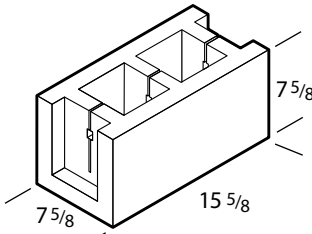
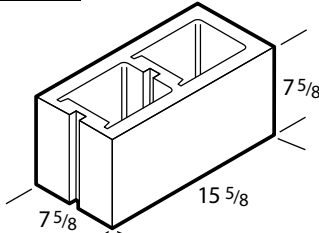
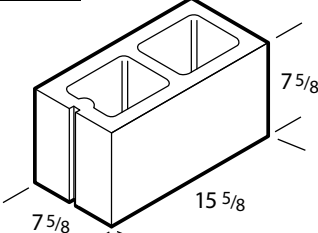
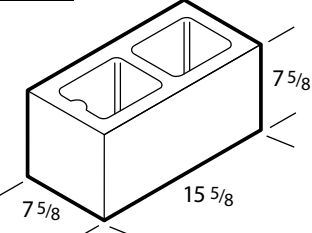
* All Bullnose have 1" radius.

¹The two "Y" block shown above, with and without knockouts, are not compatible. Select one or the other for your project.

Note: Not all block immediately available at all County Materials locations. Full 8" high units available in select markets. Contact your sales representative.

Sizes: 8"

SHAPES AND SIZES

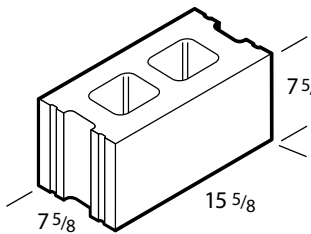
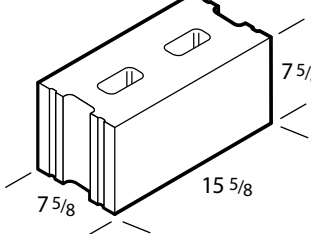
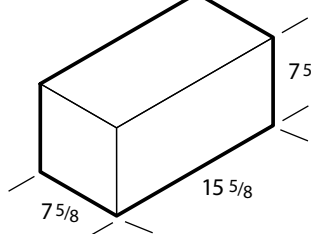
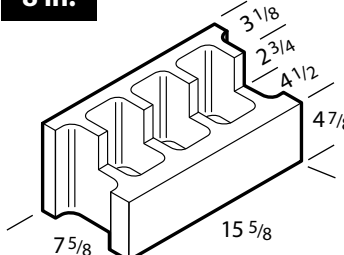
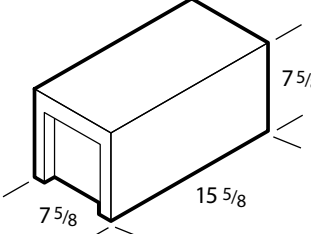
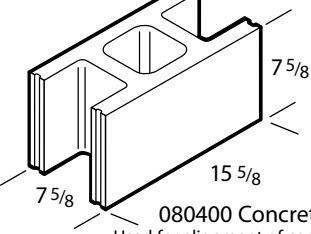
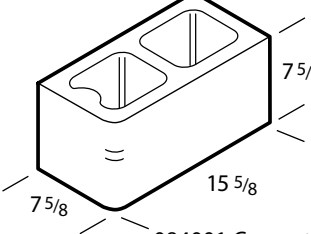
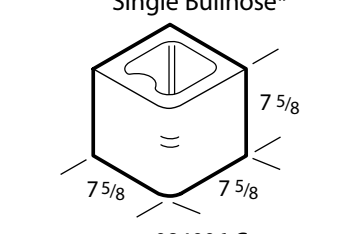
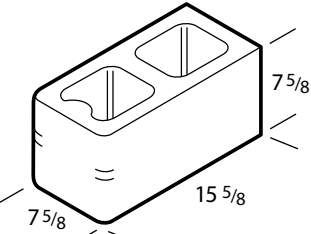
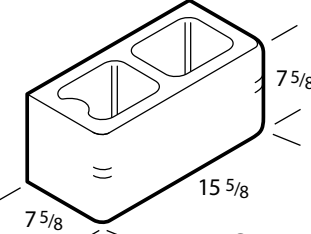
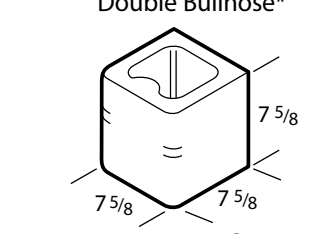
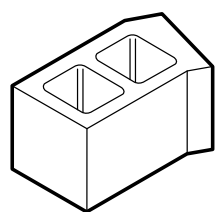
<p>8 in. Stretcher**</p>  <p>080000 Concrete 080200 Lightweight</p>	<p>8 in. One Quarter</p>  <p>080001 Concrete 080201 Lightweight (Alternate - 4" Two Qtr.)</p>	<p>8 in. Two Qtr. / Half Block</p>  <p>080002 Concrete 080202 Lightweight</p>	<p>8 in. Three Quarter</p>  <p>080003 Concrete 080203 Lightweight (Alternate - 12" Two Qtr.)</p>
<p>8 in. 5 High (Starter)</p>  <p>080006 Concrete 080206 Lightweight</p>	<p>8 in. Half High</p>  <p>080008 Concrete 080208 Lightweight (Available as Double Flush Jamb/sash and 2Sash)</p>	<p>8 in. Bay Block** (45° Corner)</p>  <p>080012 Concrete 080212 Lightweight</p>	<p>8 in. Flow Through Bond Beam (2 Holes)</p>  <p>080014 Concrete 080214 Lightweight</p>
<p>8 in. Bond Beam</p>  <p>080015 Concrete 080215 Lightweight (8" Half-High Bond Beam Avail. See drawing on pg. 41)</p>	<p>8 in. Flow Through Bond Beam (1 Hole)</p>  <p>080016 Concrete</p>	<p>8 in. Knockout Bond Beam (Flow Through)</p>  <p>080017 Concrete 080217 Lightweight</p>	<p>8 in. Lintel (Horsecollar)</p>  <p>080018 Concrete 080218 Lightweight</p>
<p>8 in. FHA*** Special Knockout Bond Beam</p>  <p>080019 Concrete</p>	<p>8 in. Utility Knockout</p>  <p>080020 Concrete 080220 Lightweight</p>	<p>8 in. Jamb Sash</p>  <p>080025 Concrete 080225 Lightweight</p>	<p>8 in. Double Flush**</p>  <p>080027 Concrete 080227 Lightweight</p>

*** FHA = Federal Housing Authority Approved

Note: Not all block immediately available at all County Materials locations.
** Full 8" high units available in select markets. Contact your sales representative.

Sizes: 8"

SHAPES AND SIZES

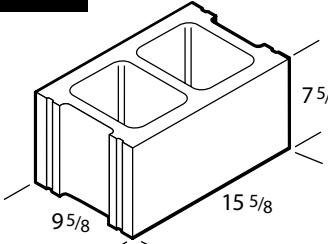
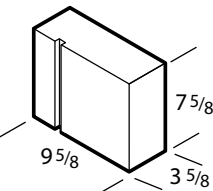
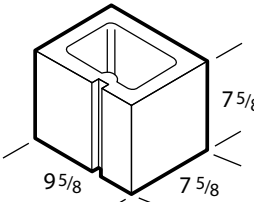
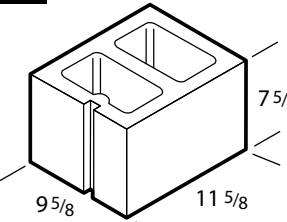
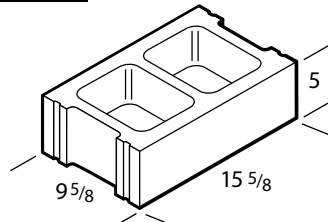
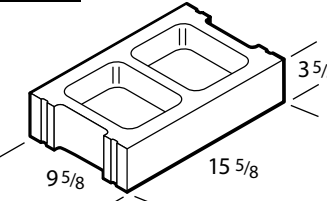
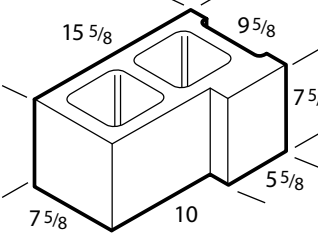
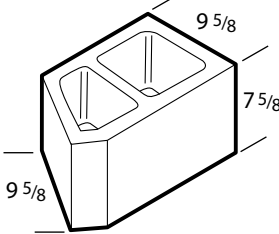
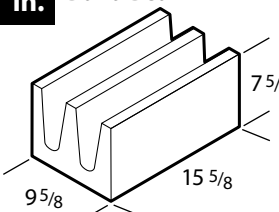
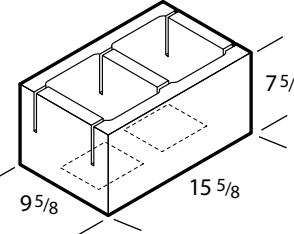
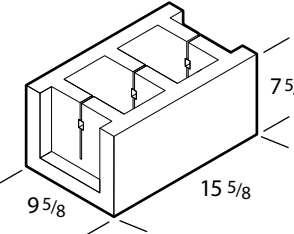
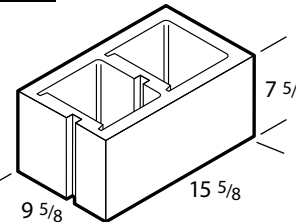
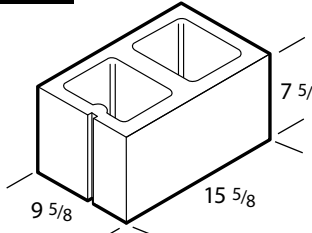
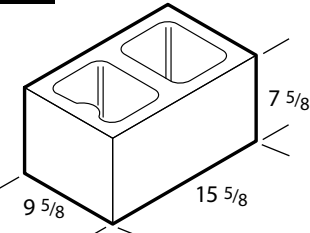
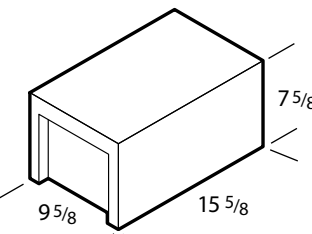
<p>8 in. Two Hour</p>  <p>080040 Concrete</p>	<p>8 in. Fire Rated Block</p>  <p>080045 Concrete (3 Hr.) 080250 Lightweight (4 Hr.)</p>	<p>8 in. Solid</p>  <p>080055 Concrete 080254 Lightweight</p>	
<p>8 in. Header</p>  <p>080058 Concrete</p>	<p>8 in. Solid Top/Cap**</p>  <p>080060 Concrete</p>	<p>8 in. Open Cell</p>  <p>080400 Concrete Used for alignment of cores for rebar and grouting. Notches on the webs are available for rebar.</p>	<p>8 in. Single Bullnose*</p>  <p>084001 Concrete 084201 Lightweight</p>
<p>8 in. Two Qtr./Half Block Single Bullnose*</p>  <p>084006 Concrete 084206 Lightweight</p>	<p>8 in. Double Bullnose* End</p>  <p>084010 Concrete 084210 Lightweight</p>	<p>8 in. Double Bullnose* Face</p>  <p>084012 Concrete 084212 Lightweight</p>	<p>8 in. Two Qtr./Half Block Double Bullnose*</p>  <p>084016 Concrete 084216 Lightweight</p>
<p>8 in. LW 20° Corner</p>  <p>Special Order Required</p>			

* All Bullnose have 1" radius.

Note: Not all block immediately available at all County Materials locations.
** Full 8" high units available in select markets. Contact your sales representative.

Sizes: 10"

SHAPES AND SIZES

<p>10 in. Stretcher**</p>  <p>100000 Concrete 100200 Lightweight</p>	<p>10 in. One Quarter</p>  <p>100001 Concrete 100201 Lightweight</p>	<p>10 in. Two Qtr. / Half Block</p>  <p>100002 Concrete 100202 Lightweight</p>	<p>10 in. Three Quarter</p>  <p>100003 Concrete 100203 Lightweight</p>
<p>10 in. 5" High (Starter)</p>  <p>100006 Concrete 100206 Lightweight</p>	<p>10 in. Half High</p>  <p>100008 Concrete 100208 Lightweight (Available as Double Flush Jamb/sash and 2Sash)</p>	<p>10 in. L-Corner (Offset)**</p>  <p>100010 Concrete 100210 Lightweight</p>	<p>10 in. Bay Block** (45° Corner)</p>  <p>100012 Concrete</p>
<p>10 in. Bond Beam</p>  <p>100015 Concrete 100215 Lightweight (10" Half-High Bond Beam Avail. See drawing on pg. 41)</p>	<p>10 in. Knockout Bond Beam Flow Through</p>  <p>100017 Concrete</p>	<p>10 in. FHA¹ Special Knockout Bond Beam</p>  <p>100019 Concrete</p>	<p>10 in. Utility Knockout</p>  <p>100020 Concrete 100220 Lightweight</p>
<p>10 in. Jamb Sash</p>  <p>100025 Concrete 100225 Lightweight</p>	<p>10 in. Double Flush**</p>  <p>100027 Concrete 100227 Lightweight</p>		<p>10 in. Solid Top/Cap**</p>  <p>100060 Concrete</p>

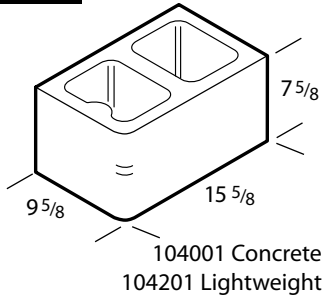
¹FHA = Federal Housing Authority Approved

Note: Not all block immediately available at all County Materials locations.
** Full 8" high units available in select markets. Contact your sales representative.

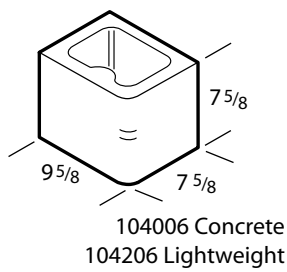
Sizes: 10"

SHAPES AND SIZES

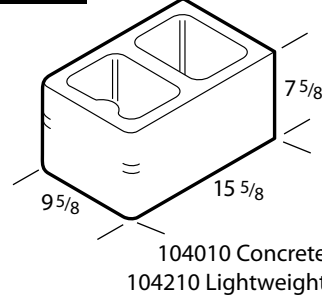
10 in. Single Bullnose*



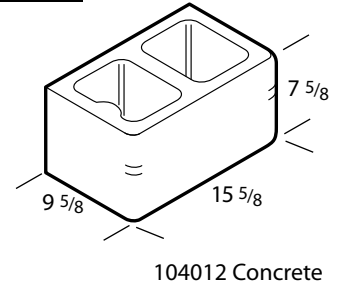
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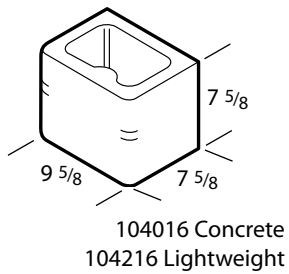
10 in. Double Bullnose* End



10 in. Double Bullnose* Face



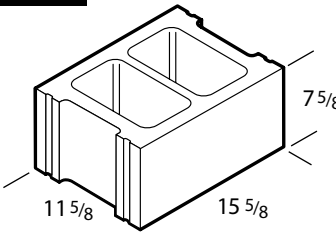
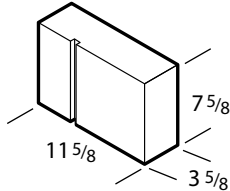
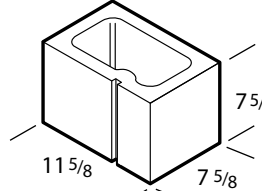
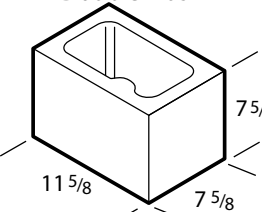
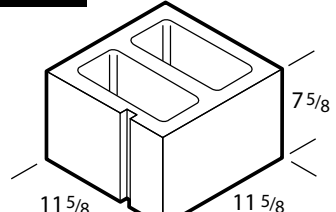
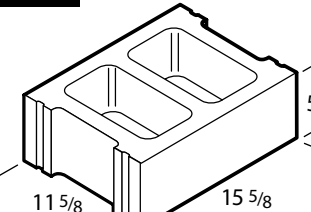
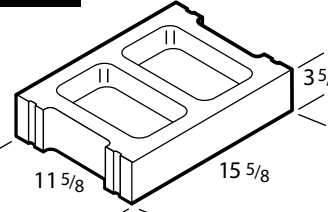
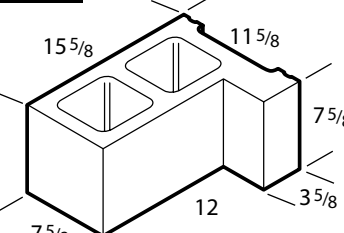
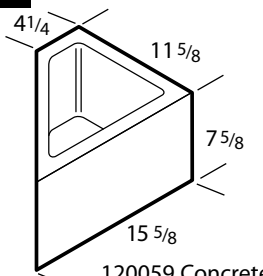
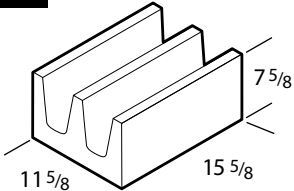
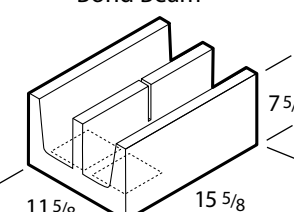
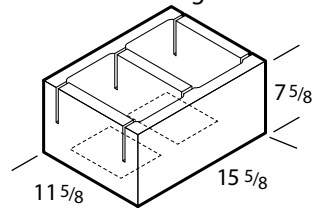
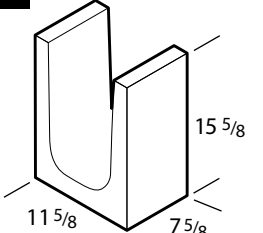
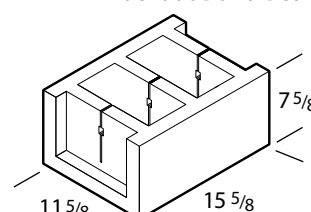
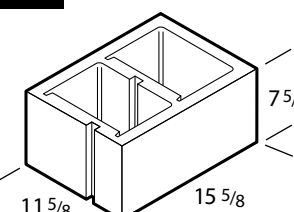
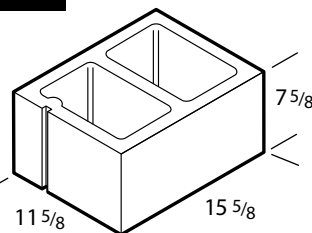
10 in. Two Qtr. / Half Block Double Bullnose*



**All Bullnose have 1" radius.
Note: Not all block immediately available at all County Materials locations.
** Full 8" high units available in select markets. Contact your sales representative.*

Sizes: 12"

SHAPES AND SIZES

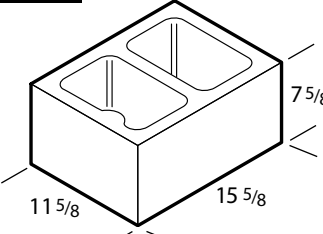
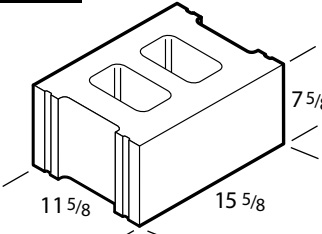
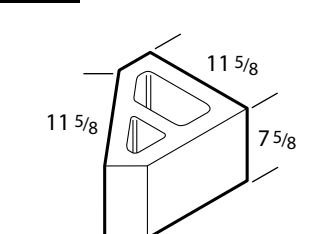
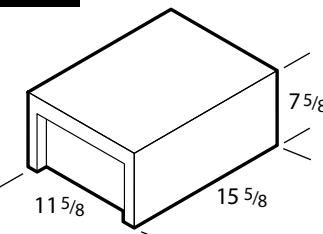
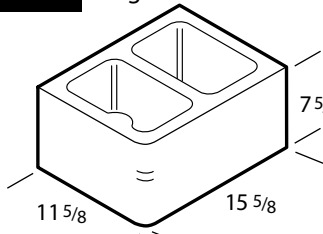
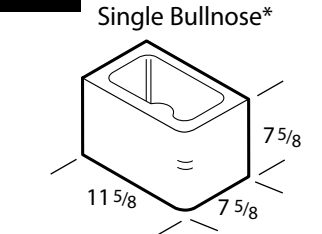
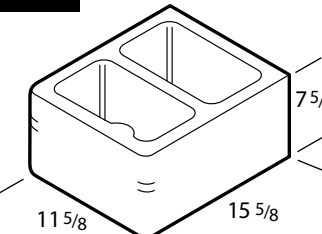
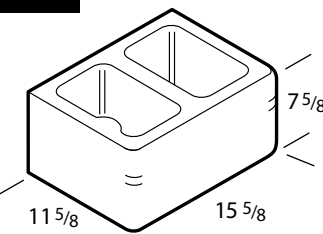
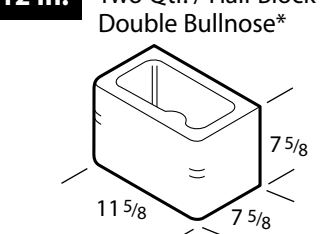
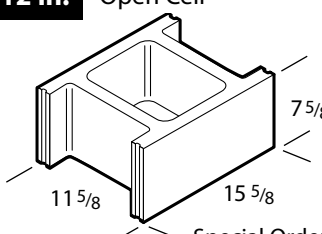
<p>12 in. Stretcher**</p>  <p>120000 Concrete 120200 Lightweight</p>	<p>12 in. One Quarter</p>  <p>120001 Concrete 120201 Lightweight (Alternate - 4" Three Qtr.)</p>	<p>12 in. Two Qtr. / Half Block</p>  <p>120002 Concrete 120202 Lightweight</p>	<p>12 in. Two Qtr. / Half Block Double Flush</p>  <p>120004 Concrete 120204 Lightweight</p>
<p>12 in. Three Quarter</p>  <p>120003 Concrete 120203 Lightweight</p>	<p>12 in. 5 High (Starter)</p>  <p>120006 Concrete 120206 Lightweight</p>	<p>12 in. Half High</p>  <p>120008 Concrete 120208 Lightweight (Available as Double Flush Jamb/sash and 2Sash)</p>	<p>12 in. L-Corner (Offset)**</p>  <p>120010 Concrete 120210 Lightweight</p>
<p>12 in. 45° Mitered Corner</p>  <p>120059 Concrete</p>	<p>12 in. Bond Beam</p>  <p>120015 Concrete 120215 Lightweight (12" Half-High Bond Beam Avail. See drawing on pg. 41)</p>	<p>12 in. Flow Through Bond Beam</p>  <p>120016 Concrete</p>	<p>12 in. Knockout Bond Beam Flow Through</p>  <p>120017 Concrete 120217 Lightweight</p>
<p>12 in. Lintel (Horsecollar)</p>  <p>120018 Concrete 120218 Lightweight</p>	<p>12 in. FHA*** Special Knockout Bond Beam</p>  <p>120019 Concrete</p>	<p>12 in. Utility Knockout</p>  <p>120020 Concrete 120220 Lightweight</p>	<p>12 in. Jamb One Sash</p>  <p>120025 Concrete 120225 Lightweight</p>

*** FHA = Federal Housing Authority Approved

Note: Not all block immediately available at all County Materials locations.
** Full 8" high units available in select markets. Contact your sales representative.

Sizes: 12"

SHAPES AND SIZES

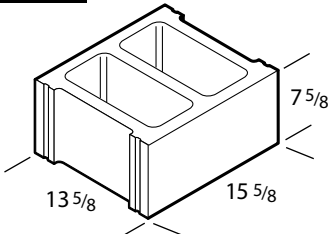
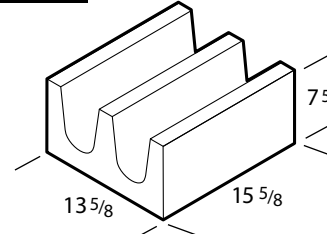
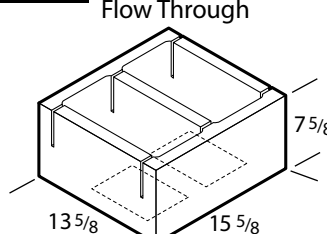
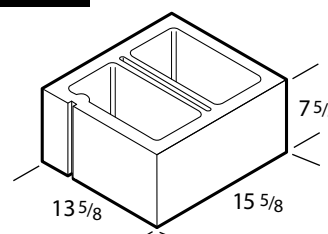
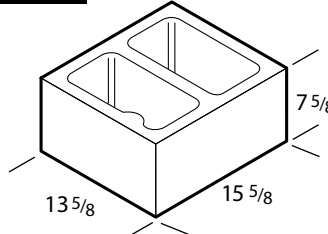
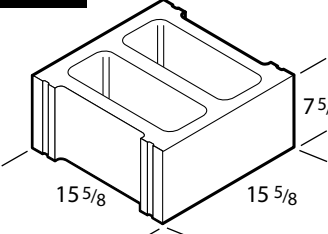
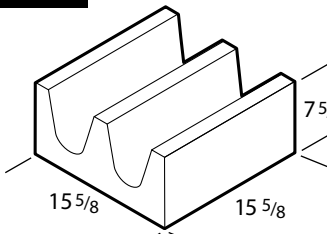
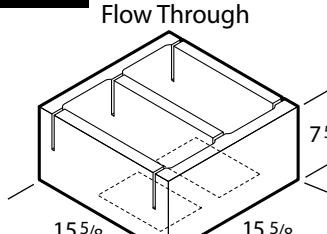
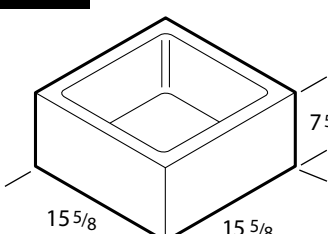
<p>12 in. Double Flush**</p>  <p>120027 Concrete 120227 Lightweight</p>	<p>12 in. Fire Rated Block - 4 Hr.</p>  <p>120050 Concrete (4 Hr.) 12" (3) hour available at some locations</p>	<p>12 in. Bay Block (45° Corner)</p>  <p>120012 Concrete</p>	<p>12 in. Solid Top/Cap**</p>  <p>120060 Concrete</p>
<p>12 in. Single Bullnose*</p>  <p>124001 Concrete 124201 Lightweight</p>	<p>12 in. Two Qtr. / Half Block Single Bullnose*</p>  <p>124006 Concrete 124206 Lightweight</p>	<p>12 in. Double Bullnose* End</p>  <p>124010 Concrete 124210 Lightweight</p>	<p>12 in. Double Bullnose* Face</p>  <p>124012 Concrete 124212 Lightweight</p>
<p>12 in. Two Qtr. / Half Block Double Bullnose*</p>  <p>124016 Concrete 124216 Lightweight</p>	<p>12 in. Open Cell</p>  <p>Special Order Used for alignment of cores for rebar and grouting. Notches on the webs are available for rebar.</p>		

*All Bullnose have 1" radius.

Note: Not all block immediately available at all County Materials locations.
** Full 8" high units available in select markets. Contact your sales representative.

Sizes: 14" & 16"

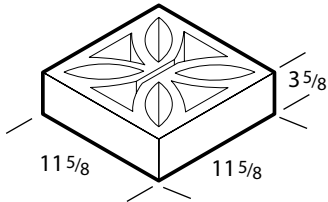
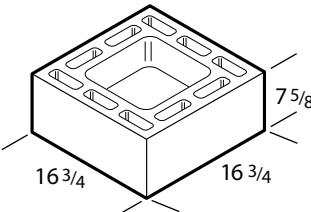
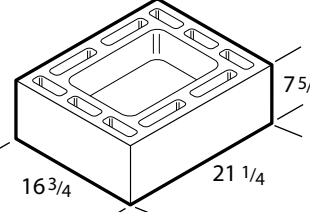
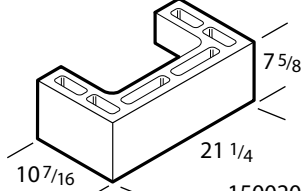
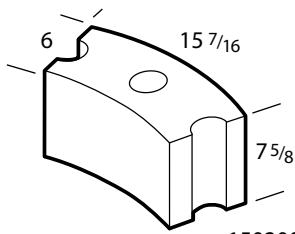
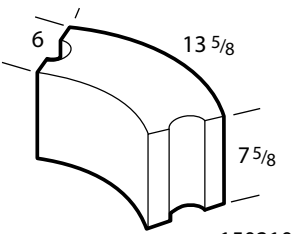
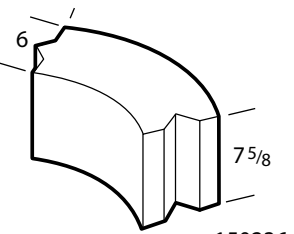
SHAPES AND SIZES

<p>14 in. Stretcher</p>  <p>140000 Concrete (62 lbs.) 140200 Lightweight</p>	<p>14 in. Bond Beam</p>  <p>140015 Concrete (81 lbs.) 140215 Lightweight</p>	<p>14 in. Knockout Bond Beam Flow Through</p>  <p>140017 Concrete</p>	<p>14 in. Jamb Sash Splitable</p>  <p>140025 Concrete</p>
<p>14 in. Double Flush</p>  <p>140027 Concrete 140226 Lightweight</p>			
<p>16 in. Stretcher</p>  <p>160000 Concrete (69 lbs.) 160200 Lightweight</p>	<p>16 in. Bond Beam</p>  <p>160015 Concrete 160215 Lightweight</p>	<p>16 in. Knockout Bond Beam Flow Through</p>  <p>160017 Concrete</p>	<p>16 in. Pier Block</p>  <p>160086 Concrete</p>

Note: Not all block immediately available at all County Materials locations.

Special Block

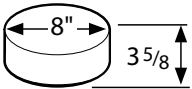
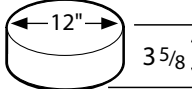
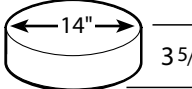
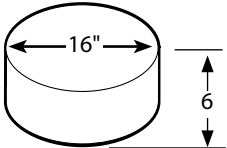
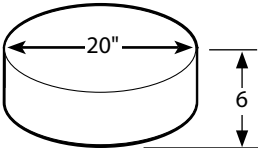
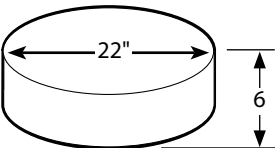
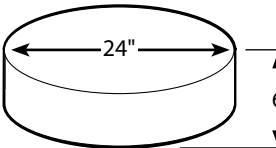
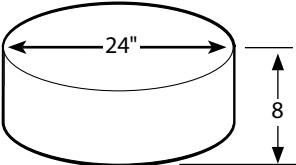
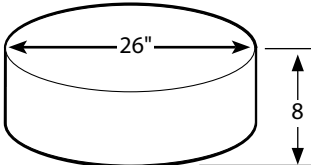
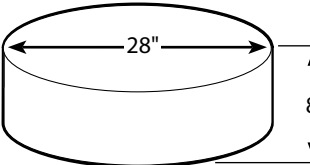
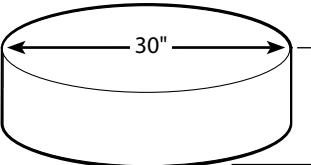
SHAPES AND SIZES

<p>Beauty Block</p>  <p>Special Order</p>	<p>8 x 8 Chimney Block</p>  <p>150000 Inside Dimension = 9 3/8 x 9 3/8 Available with Cut-Outs</p>	<p>8 x 12 Chimney Block</p>  <p>150010 Inside Dimension = 9 3/8 x 13 5/8 Available with Cut-Outs</p>	<p>12 x 12 Chimney Block</p>  <p>150020 Inside Dia. = 13 5/8 x 13 5/8 (Requires 2 pcs.) Available with Cut-Outs</p>
<p>Manhole Block</p>  <p>150200 49 lbs. / 12 pc. = 48" Inside Dia.</p>	<p>Manhole Block</p>  <p>150210 42 lbs. / 8 pc. = 24" Inside Dia.</p>	<p>Fire Pit Block</p>  <p>150236</p> <p>8 pc. = 36" Inside Dia. 9 pc. = 42" Inside Dia. 10 pc. = 48" Inside Dia.</p>	

*Note: Not all block immediately available at all County Materials locations.
* Additional Pole Pad sizes including 8" thick are available. Contact your sales representative.*

Special Block

SHAPES AND SIZES

<p>8 in. Diameter Pole Pad*</p>  <p>150345 14.5 lbs.</p>	<p>12 in. Diameter Pole Pad*</p>  <p>150340 35 lbs.</p>	<p>14 in. Diameter Pole Pad*</p>  <p>150300 45 lbs.</p>	
<p>16 in. Diameter Pole Pad*</p>  <p>150305 106 lbs.</p>	<p>20 in. Diameter Pole Pad*</p>  <p>150310 160 lbs.</p>	<p>22 in. Diameter Pole Pad*</p>  <p>150320 195 lbs.</p>	<p>24 in. Diameter Pole Pad*</p>  <p>150330 232 lbs.</p>
<p>24 in. Diameter Pole Pad*</p>  <p>150332 310 lbs.</p>	<p>26 in. Diameter Pole Pad*</p>  <p>150335 366 lbs.</p>	<p>28 in. Diameter Pole Pad*</p>  <p>150333 410 lbs.</p>	<p>30 in. Diameter Pole Pad*</p>  <p>150334 480 lbs.</p>

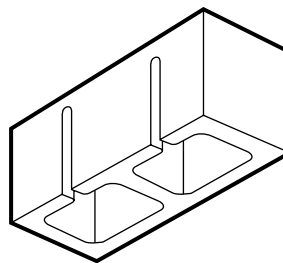
*Note: Not all block immediately available at all County Materials locations.
* Additional Pole Pad sizes including 8" thick are available. Contact your sales representative.*

Acoustical Masonry Units

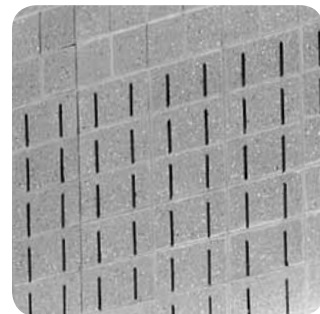
SHAPES AND SIZES

SOUNDBLOX®

Sound absorbing structural masonry units*.
Featuring the new Types
'RSC' and 'RSC-RF'.

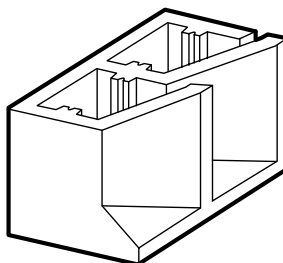


4"-6"-8"-10"-12" Widths

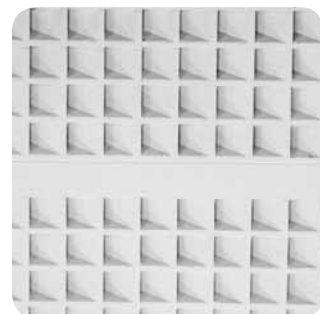


SOUNDCELL®

SOUNDCELL'S **innovative configuration*** effectively absorbs noise, diffuses sound energy, and thoroughly captures flutter echo, standing waves and sound intensity annoyances. This acoustical masonry is also visually appealing.

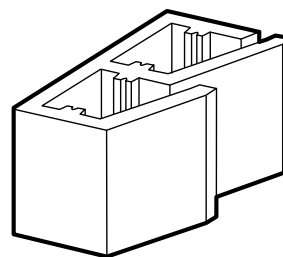


8"-12" Widths

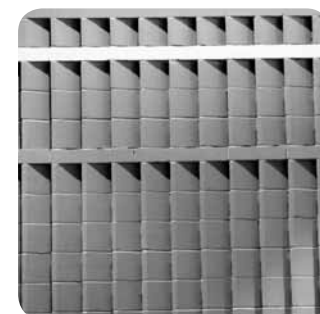


ACOUSTADE®

ACOUSTADE offers a new look* while providing the same load-bearing aesthetics and superior sound control characteristics as experienced with Sound Cell. Finally, you now have the choice to blend form and function.



8"-12" Widths



All acoustical units are special order.

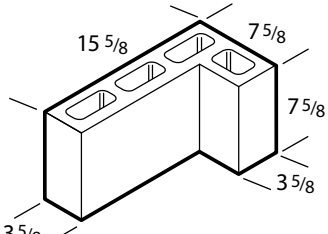
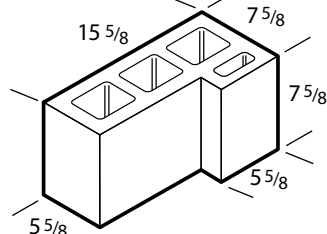
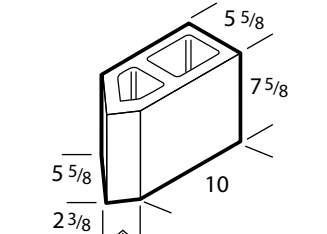
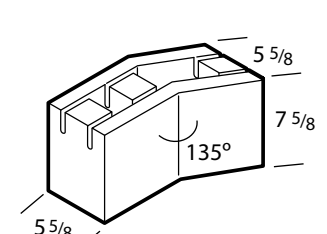
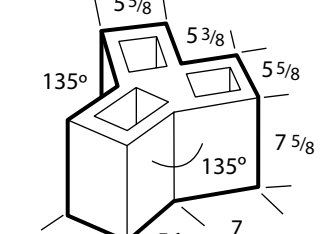
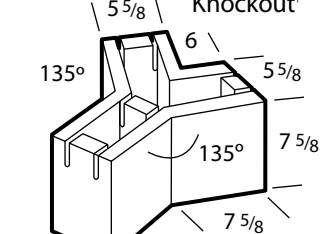
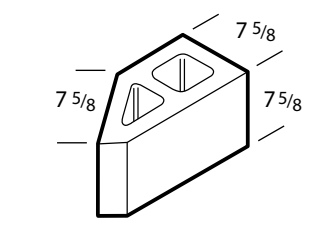
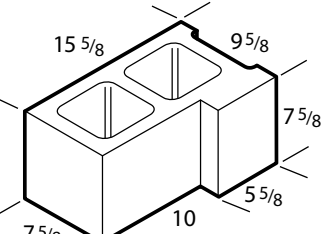
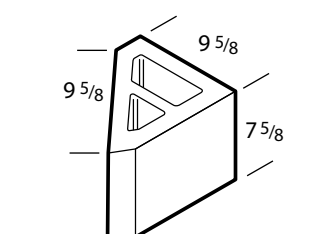
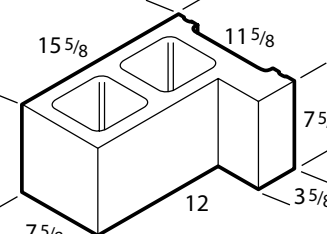
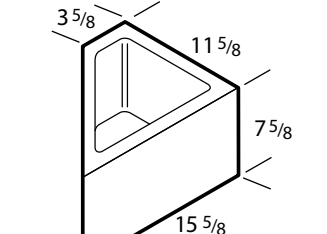
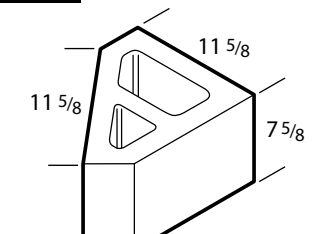
**SoundCell®, Acoustade® and SoundBlox® units are a product of the Proudfoot company.*

Note: Stout Face Block may be used in conjunction with SoundCell or Acoustade units to ensure proper alignment. See Stout Faced units on page 56.

Note: Not all block immediately available at all County Materials locations.

Bay, "Y" & Corner Block

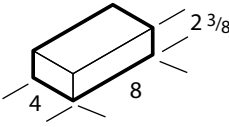
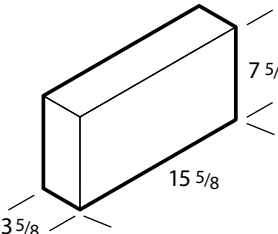
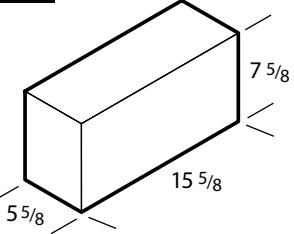
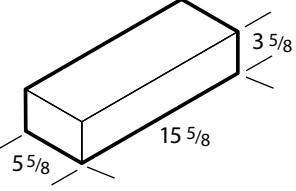
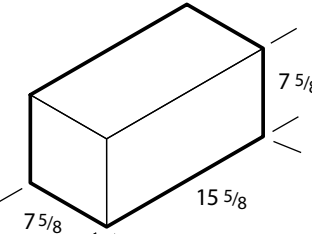
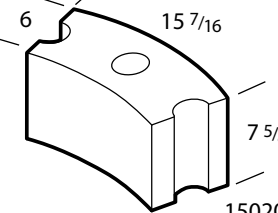
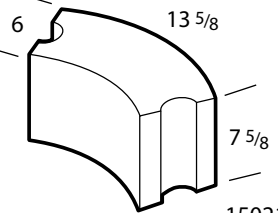
SHAPES AND SIZES

<p>4 in. L-Corner</p>  <p>040010 Concrete 040210 Lightweight</p>	<p>6 in. L-Corner</p>  <p>060010 Concrete 060210 Lightweight</p>	<p>6 in. Bay Block (45° Corner)</p>  <p>060012 Concrete 060212 Lightweight</p>	<p>6 in. 45° Return Corner</p>  <p>060012R Concrete</p>
<p>6 in. Y Block†</p>  <p>060013 Concrete</p>	<p>6 in. Y Block With Knockout†</p>  <p>060014 Concrete</p>	<p>8 in. Bay Block (45° Corner)</p>  <p>080012 Concrete 080212 Lightweight</p>	<p>10 in. L-Corner (Offset)</p>  <p>100010 Concrete 100210 Lightweight</p>
<p>10 in. Bay Block (45° Corner)</p>  <p>100012 Concrete</p>	<p>12 in. L-Corner (Offset)</p>  <p>120010 Concrete 120210 Lightweight</p>	<p>12 in. 45° Mitered Corner</p>  <p>120059 Concrete</p>	<p>12 in. Bay Block (45° Corner)</p>  <p>120012 Concrete</p>

†The two "Y" block shown above, with and without knockouts, are not compatible. Select one or the other for your project.
Note: Not all block immediately available at all County Materials locations.

DOT & Labor Saving Block

SHAPES AND SIZES

<p>4 in. Concrete Brick DOT</p>  <p>150239 Concrete</p>	<p>4 in. Solid DOT</p>  <p>040056 Concrete</p>	<p>6 in. Solid DOT</p>  <p>060056 Concrete</p>	<p>6 in. 1/2 Course Solid DOT</p>  <p>150247 Concrete</p>
<p>8 in. Solid DOT</p>  <p>080056 Concrete</p>	<p>Barrel/Manhole Block</p>  <p>150200 49 lbs. 12 pc. = 48" Inside Dia.</p>	<p>Manhole</p>  <p>150210 42 lbs. 8 pc. = 24" Inside Dia.</p>	

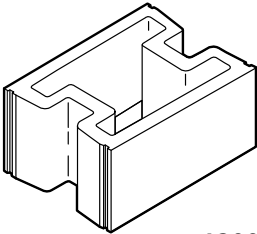
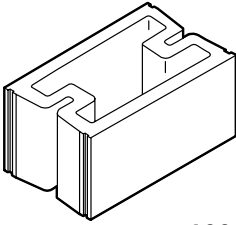
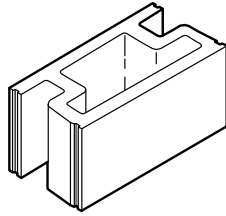
Note: Not all block immediately available at all County Materials locations.

Insulating Units

SHAPES AND SIZES

THERMAL BLOCK

THERMAL BLOCKS have **rigid insulating inserts installed** in them during the manufacturing process to reduce jobsite labor. Additional thermal protection between units may be installed in the field. Note: *These units are available in Splitface/ Fullface Split/Rockface.*

<p>12 in. Thermal</p>  <p>120030 Special Order Required</p>	<p>10 in. Thermal</p>  <p>100030 Special Order Required</p>	<p>8 in. Thermal</p>  <p>080030 Special Order Required</p>	<p>FACTORY INSTALLED INSERT SIZE 1⁷/₁₆" x 7⁵/₈" x 11¹⁵/₁₆" – 152010</p> <p>FIELD INSTALLED INSERT SIZE 1¹/₂" x 6" x 16" – 8" & 12" – 152040 3³/₄" x 6" x 16" – 10" – Special Order</p> <p>*Insert sizes vary by location</p>
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U-Values & Fire Ratings	BLOCK SIZE					
	12"		10"		8"	
	CONCRETE U-VALUE	LIGHT WEIGHT U-VALUE	CONCRETE U-VALUE	LIGHT WEIGHT U-VALUE	CONCRETE U-VALUE	LIGHT WEIGHT U-VALUE
Unfilled	0.301	0.215	.0318	0.235	0.4	0.305
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	2 Hours	2 Hours
One Factory Installed Insulation Insert	0.281	0.184	0.292	0.205	0.355	0.25
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	2 Hours	2 Hours
Two Factory Installed Insulation Inserts	0.261	0.16	0.267	0.182	-	-
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	-	-
One Factory & One 1 ¹ / ₂ " Field Installed	0.236	0.176	0.269	0.182	0.32	0.212
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	2 Hours	2 Hours
Two Factory & One 1 ¹ / ₂ " Field Installed	0.223	0.144	0.25	0.164	-	-
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	-	-
EPS Loose Fill Only – Field Installed	0.21	0.134	0.255	0.166	0.324	0.217
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	2 Hours	2 Hours
One Factory & EPS Loose Fill – Field Installed	0.209	0.132	0.254	0.165	0.322	0.213
Fire Rating	3 Hours	4 Hours	2 Hours	3 Hours	2 Hours	2 Hours

Note: The chart above shows "U"-Values for concrete and lightweight Thermal Block using the "Series-Parallel Method," effective 4/1/97 for compliance with ASHRAE – IES Standard 90.1. **State of Wisconsin Block Approval #930043-R**



Insulating Units

SHAPES AND SIZES

ONESTEP CFMU BUILDING SYSTEM

The OneStep CFMU Building System dramatically simplifies the construction process and reduces the environmental impact of high performance buildings. OneStep Concrete Form Masonry Units can be used to build the entire exterior structure of a building with only One Product, One Trade, One Step.

Units available in four sizes:

- 12"W x 4"H - 7-3/8" Solid Concrete Member
- 12"W x 8"H - 2" Rigid Insulation
- 16"W x 4"H - 11" Solid Concrete Member
- 16"W x 8"H - 2-1/2", or 3" Rigid Insulation



Benefits:

- Withstand extreme wind loads, bullet and blast resistance, four hour fire wall rating
- Flexibility in design options for exterior and interior walls. Can accommodate concrete masonry, clay brick, and natural stone face options
- Mason friendly and lower construction costs (two-thirds lighter than 12" standard block for quick and easy installation)
- High R values, dense thermal mass, no thermal path through the wall that yield reduced thermal costs
- Can contribute to high number of LEED credits
- Five layer moisture blocking system designed to prevent black mold, water leakage, and condensation
- Fewer products, fewer trades, and less steps result in lower construction costs
- Installation for a typical 10,000 SQFT gym is four to six weeks
- Offers improved indoor air quality, a safe environment, quiet buildings.
- Design simplicity saves natural and human resources, transportation and energy costs

Features:

- Thermal efficiency is achieved through a combination of 105 lbs thermal mass per sq ft, a continuous rigid insulation blanket, a continuous weep cavity/air space, and a 2" thick outer face shell
- 7-3/8" of solid concrete = four hour fire rating
- Patented connector system eliminates the thermal path through the wall
- Only one trade required for wall construction
- 12" OneStep with insulation and a density of 135 pcf has a CFMU R-Value of 15.02, calculated by using the Series-Parallel method
- Array of colors available from our County Materials Corporation color listing
- Normal compatibility with built in items

OneStep complies with ASTM C-90 for concrete masonry.

Specifications can be found at Masterformat Section 04-28-23, Concrete Masonry Units.

CAD details are available.

Please contact our sales department for more product and price information.



ASK FOR MORE INFORMATION ON OUR FULL LINE OF CONSTRUCTION AND LANDSCAPING PRODUCTS:

