CONCRETE PRODUCTS TECHNICAL GUIDE

AMCON
CONCRETE PRODUCTS®

A TCC MATERIALS® COMPANY

COST EFFECTIVE DESIGN

AMCON
CONCRETE PRODUCTS®

A TCC MATERIALS® COMPANY

Products available in a wide variety of sizes, shapes, and colors

Certified EnviroTrol™ curing available

Part of the national Concrete Products Group

Amcon Concrete Products, LLC is proud to be a part of the Concrete Products Group (CPG) offering product availability and consistency nationwide. CPG products offered by Amcon include Spec-Brik®, Spec-Brik® Jumbo, Spec-Finish®, WCT® Water Control Technology, and the most recent addition of Spec-Thermal™ Pre-Insulated Masonry.

CONCRETE PRODUCTS GROUP
INNOVATIVE CONCRETE MASONRY SYSTEMS

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FIRE RATINGS

RATED FIRE RESISTIVE PERIODS

Fire resistance of concrete masonry units is determined by the "equivalent thickness" of the block and the type of aggregate. The equivalent thickness is theoretical thickness of the block if all the concrete was molded into a solid unit. It is calculated by multiplying the actual thickness by the % of solids. As an example, an 8" block with 52% solids has an equivalent of 4.0 in. (7.625 x 52% = 4). The greater the equivalent thickness, the greater the fire rating. Lightweight aggregate (expanded clay) has a better fire rating than standard weight aggregate (siliceous gravel). As an example, an 8" standard weight block has a 1 hour rating and an 8" lightweight block has a 2 hour rating. Filling the cores of the block with grout or other non-combustible material will increase the fire resistance. Applying plaster or gypsum wall board will also increase the fire resistance.

Estimated Fire Resistive Periods of Walls and Partitions of Hollow Concrete Masonry Units

	Minimum equivalent thickness for ratings of:			
Type of coarse aggregate:	4 hour	3 hour	2 hour	1 hour
Expanded Clay (lightweight):	5.7"	4.9"	3.9"	2.7"
Siliceous Gravel (standard weight):	6.2"	5.3"	4.2"	2.8"

(Based on The International Building Code as adopted by the Minnesota State Building Code)

Block Size (Inches)	Block Core	Face Shell Thickness	Web Thickness	% Solids	Equivalent Thickness in Inches	Fire Rating Std. Weight	Fire Rating Lgt. Weight
4x8x16		1"	1"	75%	2.7	0.75	1
4x8x16		Solid	-	100%	3.6	1.5	1.5
6x8x16		1"	1"	57%	3.2	1	1
6x8x16		2"	1"	87%	4.9	2	3
8x8x16		1 1/4"	1"	52%	4	1	2
8x8x16		1 3/8"	1"	55.3%	4.2	2	2
8x8x16		2 1/8"	1 1/4"	75%	5.8	3	4
8x8x16	Open Core	1 7/8"	1"	56%	4.2	2	2
8x8x16	Open Core	2 1/2"	1"	70%	5.3	3	3
8x8x16	Open Core	3"	1"	81%	6.2	4	4
8x8x16		Solid	-	100%	7.6	4	4
10x8x16		1 3/8"	1 1/8"	51%	4.9	2	3
12x8x16		1 1/4"	1 1/8"	45%	5.2	2	3
12x8x16		1 1/2"	1 1/8"	47%	5.5	3	3
12x8x16		2 1/2"	1 1/8"	60%	7	4	4
12x8x16	Open Core	1 1/2"	1 1/4"	38%	4.4	2	2
12x8x16	Open Core	2 1/8"	1 1/4"	47%	5.4	3	3
12x8x16	Open Core	2 5/8"	1 1/4"	54%	6.3	4	4
14x8x16		1 1/2"	1 1/8"	46%	6.3	4	4
16x8x16		1 1/2"	1 1/8"	44%	6.9	4	4

The above table is based on the International Building Code (IBC) as adopted by the Minnesota State Building Code. More information about determining fire ratings can be found in TEK 7-1C or by contacting Amcon Concrete Products, LLC.

TECHNICAL DATA

SPECIFICATIONS, SOUND TRANSMISSION, AND CORE FILLING DATA

SPECIFICATIONS

All concrete masonry units manufactured by Amcon Block:

1) exceed minimum standards as established by ASTM C90 for load bearing concrete masonry units.
2) meet all existing code requirements (Minnesota State Building Code is based on the International Building Code– I.B.C.)

All standard weight aggregate conforms to the requirements of ASTM C33.

All lightweight aggregate conforms to the requirements of ASTM C331.

SOUND TRANSMISSION

SOUND TRANSMISSION CLASS (STC) FOR SINGLE WYTHE CONCRETE MASONRY WALLS

WALL DESCRIPTION	4”	6”	8”	10”	12”
No Surface Treatment:					
hollow, standard weight	44	45	48	50	51
hollow, lightweight	41	43	45	47	49
solid, standard weight	45	48	54	55	56

All STC ratings shown are calculated from test data and based on wall weights using standard and lightweight block as manufactured by Amcon Block.

References: (1) National Concrete Masonry Association Tek Bulletin 13-1B (2008).

CORE FILLING DATA

Wall Thickness	Block Size (Inches)	% Solids	Cu. Ft. of Material to Fill One Block	# of Block Per Cu. Yard
6”	6 x 8 x 16 Regular	57	.22	122
8”	8 x 8 x 16 Regular	52	.27	100
8”	8 x 8 x 16 3-hour Rated	77	.18	151
8”	8 x 8 x 16 BB	-	.23	118.5
10”	10 x 8 x 16 Regular	51	.325	83
12”	12 x 8 x 16 Regular	45	.47	57
12”	12 x 8 x 16 3-hour Rated	47	.46	59
12”	12 x 8 x 16 4-hour Rated	57	.37	73
12”	12 x 8 x 16 Lintel	-	.485	55.5
12”	12 x 8 x 16 BB	-	.42	64.5
14”	14 x 8 x 16 Regular	46	.50	54
16”	16 x 8 x 16 Regular	44	.61	44

COMPRESSIVE STRENGTH EVALUATION OF CONCRETE MASONRY – UNIT STRENGTH METHOD

Compliance with the specified compressive strength (f 'm) of concrete masonry structures is verified by one of two methods: the Unit Strength Method or the Prism Test Method. These two methods are referenced in masonry design codes (ref. 1) specifications (ref. 2), and standards (ref.3) as rational procedures for verifying masonry compressive strength.

The Unit Strength Method is the least expensive and most convenient of the two methods. It is important to note that the Unit Strength Method also yields more conservative results when compared to the Prism Test Method particularly at the higher end of unit masonry strengths, either method is acceptable for verifying compliance with the specified f 'm value of the project.

TABLE 1: The table below is from the 2012 Building Code Requirements for Masonry Structures.

Net Area Compressive Strength of Concrete Masonry Units, psi		Net Area Compressive Strength of Masonry (2), f'm psi
Type M or S Mortar	Type N Mortar	
1,250	1,900	1,350
1,900	2,150	1,500
2,350	2,600	1,750 (1)
2,800	3,050	2,000
3,275	3,550	2,250 (1)
3,750	4,050	2,500
4,275	4,650	2,750 (1)
4,800	5,250	3,000

(1) Linear Interpolation between shown values is permitted. (2) For units less than 4 in. in height, use 85% of the values listed.

TABLE 2: The table below is from the 2015 Building Code Requirements for Masonry Structures. Note that it now recognizes 2,000 psi CMU Walls Using Type S Mortar as having 2,000 psi f 'm comprehensive strength. Prior Code editions only recognized a value of 1,500 psi f 'm. **This is a 33% improvement over previous Codes, is long overdue, and results in more cost-effective wall structures.**

Net Area Compressive Strength of Concrete Masonry Units, psi		Net Area Compressive Strength of Masonry (2), f 'm psi
Type M or S Mortar	Type N Mortar	
---	1,900 (13.10)	1,700 (11.72)
1,900 (13.10)	2,350 (14.82)	1,900 (13.10)
2,000 (13.79)	2,650 (18.27)	2,000 (13.79)
2,600 (17.93)	3,400 (23.44)	2,250 (15.51)
3,250 (22.41)	4,350 (28.96)	2,500 (17.24)
3,900 (26.89)	-----	2,750 (18.96)
4,500 (26.89)	-----	4,500 (26.89)

****Due to the recent changes in International Building Code Requirements, it is important that you check local building codes to confirm current codes for your project location(s)****

Compliance with the specified f 'm by the Unit Strength Method is based on the net area compressive strength of the CMU's being used and on the type of mortar being used. The masonry assembly is then established in accordance with Table 1. Table 1 is based on criteria found in Section 1.4.B.2.b of Specification for Masonry Structures (ref. 2), and from similar provisions found in Section 2105.2.2.1.2 of the International Building Code (ref. 4). According to both of these documents, use of the Unit Strength Method requires the following:

1. Masonry Units must be sampled and tested in accordance with ASTM C 140 Standard Test Method for Sampling and Testing Concrete Masonry Units and Related Units (ref. 5) and meet the requirements of either ASTM C 55 Standard Specifications for Concrete Brick (ref. 6) or ASTM C 90 Standard Specification for Loadbearing Concrete Masonry Units (ref.7).
2. Thickness of bed joints used in construction must not exceed 5/8".
3. If grouted masonry is used in construction, the grout must either meet the proportion or property specification of ASTM C 476 Standard Specification for Grout for Masonry (ref. 8). When property specifications are used, the compressive strength of the grout is determined in accordance with ASTM C 1019 Standard Test Method of Sampling and testing Grout (ref. 9).
4. Mortar must comply with requirements of ASTM C270 Standard Specification for Mortar for Unit Masonry (ref. 10) or ASTM C 1329 Standard Specification for Mortar Cement (ref. 12).

When higher strength masonry materials are specified, it is usually more cost effective to utilize the Prism Test Method to demonstrate compliance with f 'm due to the level of conservatism inherent in the Unit Strength Method. If testing larger CMU's using the Prism Method, cutting the units in half prior to constructing the prism will provide a more accurate assessment of the strength of the materials in the masonry prism as well as lessening the likelihood of damage occurring to the prism when handling and transporting. The practice of cutting larger units in half prior to construction of prisms is encouraged in ASTM C 1314 (Note 2) Standard Test Method for Compressive Strength of Masonry Prisms (ref. 3).

DELIVERY DATA

Unit Sizes & Type	Unit Dry Weight	Units per Cube	Weight per Cube*	# Cube 40,000 lb. Max Load	Total # of Blocks Per Load 40,000 lb.	# Cubes 48,000 lb. Max Load**	Total # of Blocks Per Load 48,000 lb.
2 x 8 x 16 Solid (SF)	15	240	3640	11	2640	13	3120
3 x 8 x 16 Solid (SF)	25	135	3415	11	1485	13	1755
4 x 4 x 16 Solid (SF, Bur. or RF)	19	180	3240	12	2160	15	2700
4 x 4 x 24 Solid (RF)	28	120	3410	12	1440	14	1680
4 x 8 x 16 Solid (SF or Bur.)	39	120	4720	8	960	10	1200
4 x 8 x 16 Solid (RF)	39	120	4720	8	960	10	1200
4 x 8 x 12 Solid (SF or Bur.)	26	120	3120	13	1560	16	1920
4 x 8 x 12 Solid (RF)	28	120	3410	12	1440	14	1680
4 x 8 x 24 Solid (SF, RF or Bur.)	60	60	3350	12	720	14	840
4 x 12 x 12 Solid (SF, Bur. or RF)	38	72	2736	15	1080	18	1296
4 x 12 x 16 Solid (SF, Bur. or RF)	54	60	3280	12	720	14	840
4 x 12 x 24 Solid (RF)	84	42	3252	12	504	14	588
4 x 16 x 24 Solid (RF)	102	35	3630	11	385	13	455
4 x 16 x 16 Solid (SF, Bur. or RF)	73	36	2628	15	540	19	684
6 x 4 x 16 Solid (SF, Bur. or RF)	28	120	3120	13	1560	16	1920
6 x 8 x 16 Solid (SF, Bur. or RF)	56	60	3180	13	780	15	900
8 x 8 x 16 Solid (SF or Bur.)	73	60	4420	9	540	10	600
8 x 8 x 16 Solid (RF)	73	60	4420	9	540	10	600
10 x 8 x 16 Solid (SF or Bur.)	85	36	3060	13	468	16	576
10 x 8 x 16 Solid (RF)	87	36	3132	13	468	15	540
12 x 8 x 16 Solid (SF or Bur.)	107	30	3210	13	390	15	450
12 x 8 x 16 Solid (RF)	109	30	3270	12	360	15	450

CODE: SF = Smooth Face
Bur. = Burnished Block
RF = Rock Face

•Includes 40 lb. Pallet
•• Due to size and style of trucks and trailers, load weights may vary between 40,000 and 48.000 lb.

****Pallet quantities may vary by plant. Please check with your local plant to verify pallet quantities.****

DELIVERY DATA

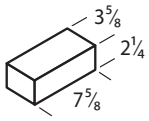
Unit Sizes & Type	Unit Dry Weight	Units per Cube	Weight per Cube*	# Cube 40,000 lb. Max Load	Total # of Blocks Per Load 40,000 lb.	# Cubes 48,000 lb. Max Load**	Total # of Blocks Per Load 48,000 lb.
4 x 8 x 16 Cored Std. Wt. (SF or Bur.)	25	120	3040	13	1560	15	1800
4 x 8 x 16 Cored Std. Wt. (RF)	29	120	3530	11	1320	14	1680
4 x 8 x 16 Cored LW (SF, Bur.)	20	120	2400	16	1920	20	2400
6 x 8 x 16 Cored St. Wt. (SF or Bur.)	30.5	100	3090	13	1300	15	1500
6 x 8 x 16 Std. Wt. (RF)	33	100	3340	12	1200	14	1400
6 x 8 x 16 Cored LW (SF or Bur.)	24	100	2440	16	1600	19	1900
8 x 8 x 16 Cored St. Wt. (SF or Bur.)	38	75	3040	13	975	15	1125
8 x 8 x 16 Cored Std. Wt. (RF)	43	60	2640	15	900	18	1080
8 x 8 x 16 Cored LW (SF or Bur.)	29	75	2440	16	1200	19	1425
8 x 8 x 16 Bond Beam Std. Wt. (SF or Bur.)	50	75	3790	11	825	12	900
8 x 8 x 16 Fill Top Std. Wt. (RF)	50	75	3790	11	825	12	900
8 x 8 x 16 Bond Beam LW (SF or Bur.)	39	75	2965	13	975	16	1200
8 x 8 x 16 Three Hour Fire Rated Units	50	75	3750	11	825	12	900
10 x 8 x 16 Cored St. Wt. (SF or Bur.)	46	66	3076	13	858	15	990
10 x 8 x 16 Cored St. Wt. (RF)	54	50	2740	14	700	17	850
10 x 8 x 16 Bond Beam Std. Wt. (SF or Bur.)	58	55	3240	12	660	14	770
10 x 8 x 16 Bond Beam LW (SF or Bur.)	36	55	2360	16	880	20	1100
12 x 8 x 16 Cored Std. Wt. (SF or Bur.)	51	60	3100	13	780	15	900
12 x 8 x 16 Cored Std. Wt. (RF)	50	50	2600	16	800	18	800
12 x 8 x 16 Cored LW (SF or Bur.)	42	60	2570	15	900	18	1080
12 x 8 x 16 Bond Beam Std. Wt. (SF or Bur.)	65	50	3290	12	600	14	700
12 x 8 x 16 Bond Beam Std. Wt. (RF)	67.5	50	3415	11	550	14	700
12 x 8 x 16 Bond Beam LW (SF or Bur.)	51	50	2590	15	750	18	900
12 x 8 x 16 Three Hour Fire Rated Units	58	60	3480	11	660	13	780
14 x 8 x 16 Cored Std. Wt. (SF or Bur.)	59	45	2700	15	675	17	765
14 x 8 x 16 Cored LW (SF or Bur.)	42	45	1930	16	720	20	900
16 x 8 x 16 Cored Std. Wt. (SF)	62	45	2840	14	630	17	765
16 x 8 x 16 Cored Std. Wt. (SF or Bur.)	62	45	2830	14	630	17	765
16 x 8 x 16 Cored LW. (SF or Bur.)	46	30	1400	16	480	20	600

CODE: SF = Smooth Face
Bur. = Burnished Block
RF = Rock Face
LW = Lightweight

•Includes 40 lb. Pallet
•• Due to size and style of trucks and trailers, load weights may vary between 40,000 and 48.000 lb..

****Pallet quantities may vary by plant. Please check with your local plant to verify pallet quantities.****

SOLID BLOCK



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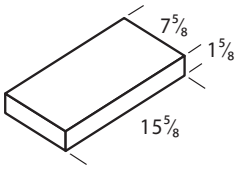

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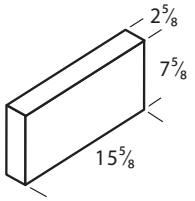

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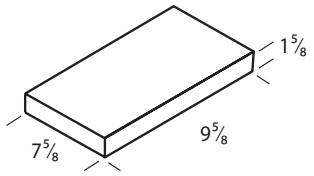

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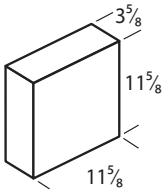

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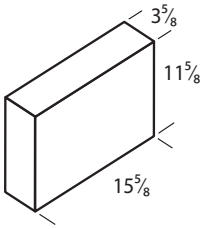

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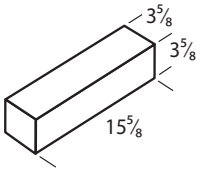

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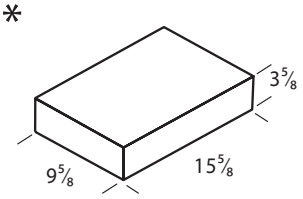

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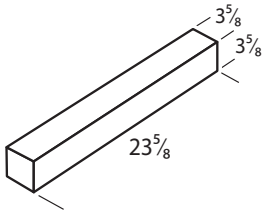

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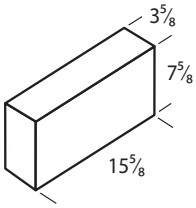

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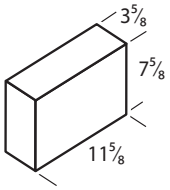

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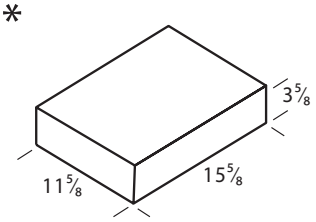

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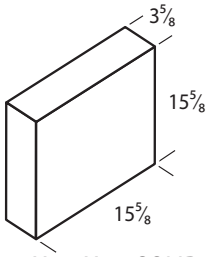

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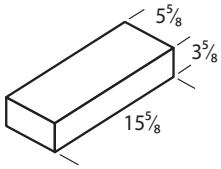

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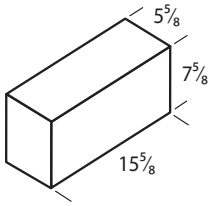

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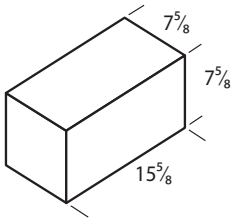

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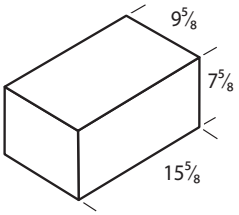

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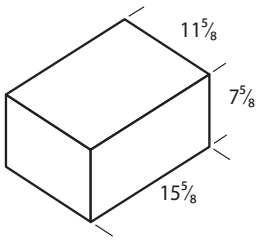

12" SOLID
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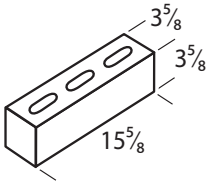
NOTE: Product availability varies by plant location. Please contact your sales rep or the plant for inventory questions.
*Denotes units which are normally special-order runs and may be subject to short run charges and/or minimum orders.
8 Denotes full 8" high units also available at some locations.

4" BLOCK



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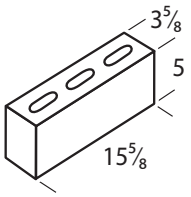

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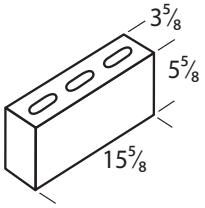

5 5/8 HIGH STARTER
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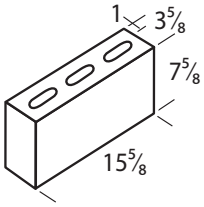
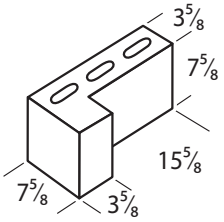
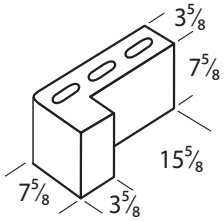
8



REGULAR
(ALSO AVAILABLE IN 2 CORE)
200400700000

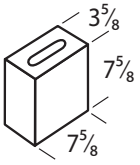


L - CORNER
200403700000

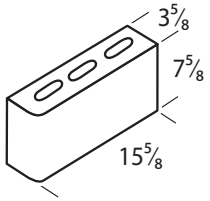


L - CORNER SINGLE
BULL NOSE
200446700000

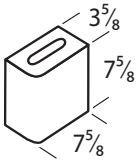
8



HALF SQUARE
200405700000

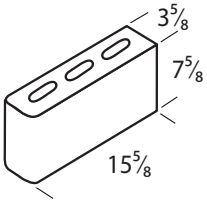


SINGLE BULL NOSE
200406700000



HALF SINGLE BULL NOSE
200407700000

*



DOUBLE BULL NOSE
200410700000

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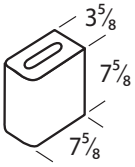

HALF DOUBLE
BULL NOSE
200411700000

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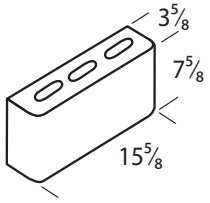

SINGLE BULL NOSE
TWO ENDS
200414700000

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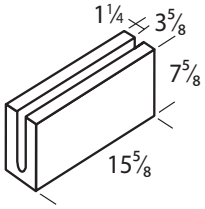
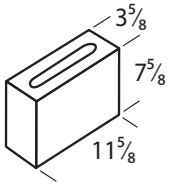
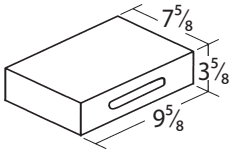


BOND BEAM
200472700000
NOTE: Not available in Ground Stone

8



3/4 LONG
200476700000



10" Plug
201013700000

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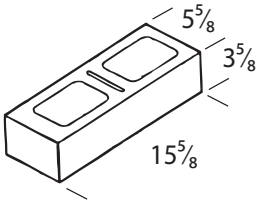
*Denotes units which are normally special-order runs and may be subject to short run charges and/or minimum orders.
8 Denotes full 8" high units also available at some locations.

6" BLOCK



HALF HIGH REGULAR
200600400000

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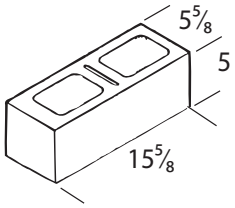
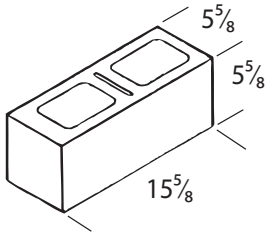
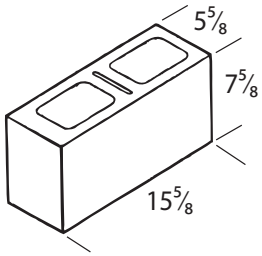


5" HIGH STARTER
200600500000

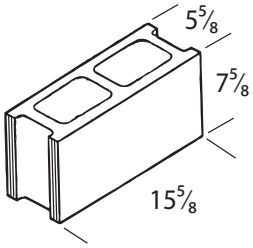


5 5/8 HIGH STARTER
200600600000

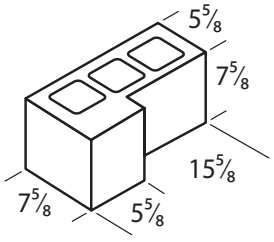
8



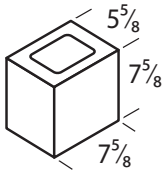
FULL SQUARE
200612700000



REGULAR
200600700000



L-CORNER
200603700000



HALF SQUARE
200605700000

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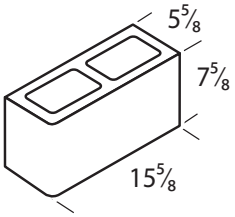

SINGLE BULL NOSE
200606700000

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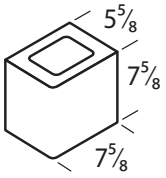

HALF SINGLE BULL NOSE
200607700000

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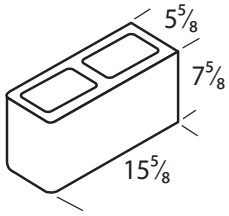
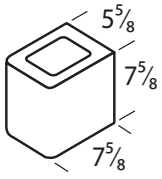


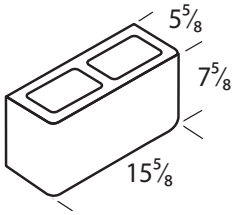
DOUBLE BULL NOSE
200610700000

*



HALF DOUBLE BULL NOSE
200611700000

*



SINGLE BULL NOSE
TWO ENDS
200614700000

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*Denotes units which are normally special-order runs and may be subject to short run charges and/or minimum orders.
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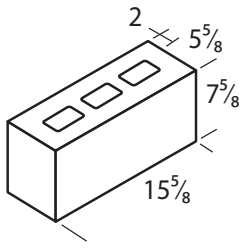
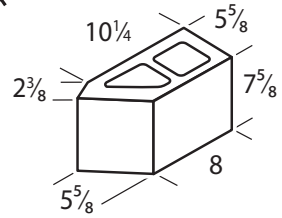
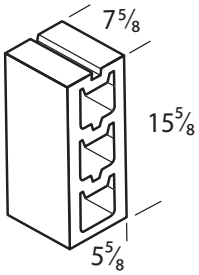
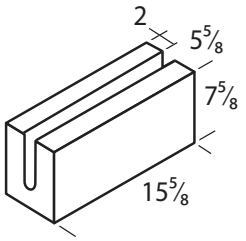
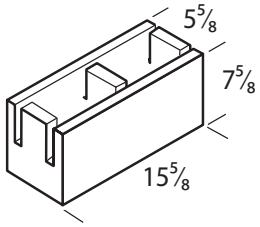
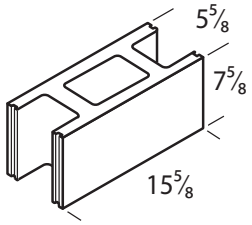
6" BLOCK

*  6” 2 HOUR FIRE RATED 200621700000	*  45° MITER 200679700000	 CONDUIT (KNOCK OUT) 200673700000
 BOND BEAM 200672700000	*  FLOW THRU BOND BEAM 200670700000	*  OPEN CORE 200671700000

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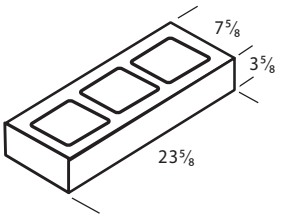
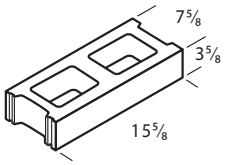
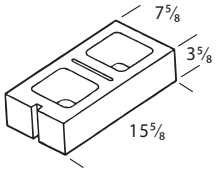
8" BLOCK



8" HALF HIGH 24" LONG
200848400000

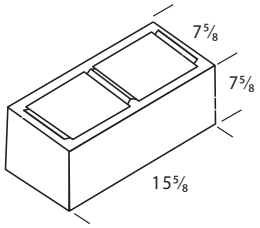


HALF HIGH REG
200800400000



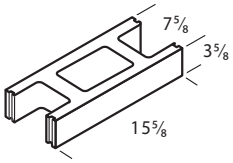
HALF HIGH FULL SQUARE
W/ SASH
200802400000

*



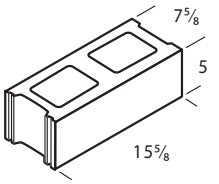
WATER CONTROL
TECHNOLOGIES UNIT
8" FULL SQUARE

*

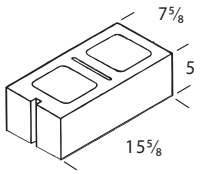


HALF HIGH OPEN CORE
200871400000

*

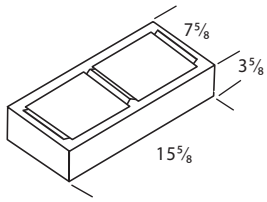


5" HIGH
REGULAR STARTER
200800500000

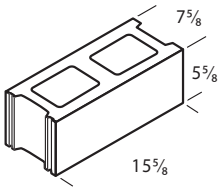


5" HIGH FULL SQUARE
W/ SASH
200802500000

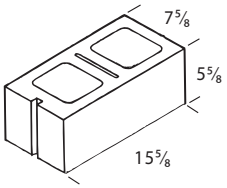
*



WATER CONTROL
TECHNOLOGIES UNIT
8" HALF HIGH DOUBLE END

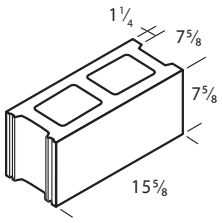


5 5/8 HIGH
REGULAR STARTER
200800600000



5 5/8 HIGH FULL
SQUARE STARTER
200802600000

8



REGULAR
200800700000

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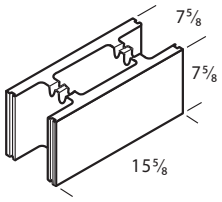
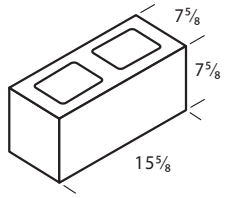


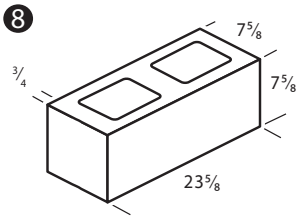
OPEN CORE
200871700000

8

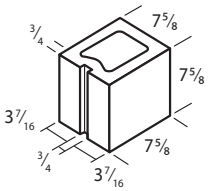


FULL SQUARE
200812700000

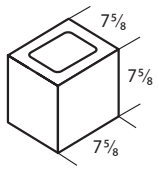
8



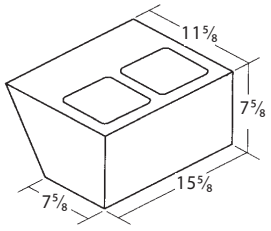
24" FULL SQUARE
200848700000



HALF SQUARE W/ SASH
200805700000



HALF SQUARE W/O SASH
200804700000



8" CORBEL
200891700000

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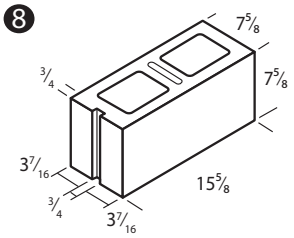
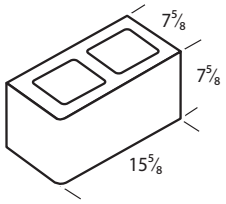
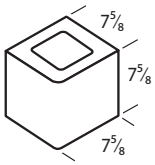
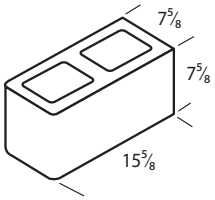
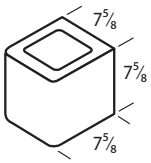
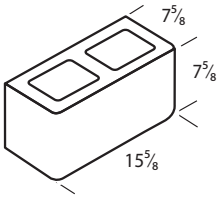
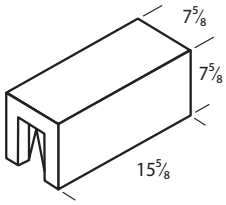
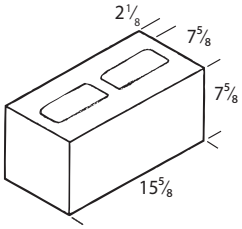
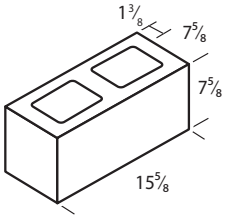
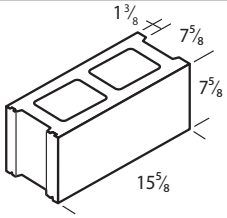
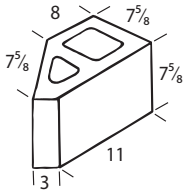
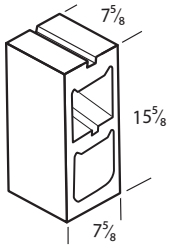
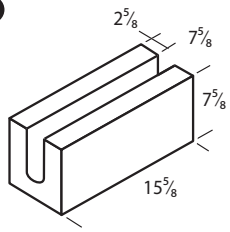
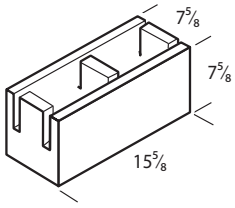
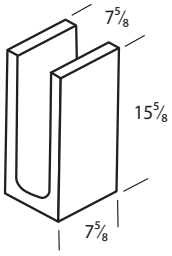
8" BLOCK

8  FULL SQUARE W/ SASH 200802700000	 SINGLE BULL NOSE 200806700000	 HALF SINGLE BULL NOSE 200807700000
*  DOUBLE BULL NOSE 200810700000	*  HALF DOUBLE BULL NOSE 200811700000	*  SINGLE BULL NOSE TWO ENDS 200814700000
8  FILL TOP 200825700000	 75% SOLID 3 HOUR FIRE RATED 200822700000	 55.3% SOLID 2 HOUR FIRE RATED 200821700000
 55.3% SOLID 2 HOUR FIRE RATED 200826700000	8  45° MITER 200879700000	 CONDUIT (KNOCK OUT) 200873700000
8  BOND BEAM 200872700000	 FLOW THRU BOND BEAM (KNOCK OUT) 200870700000	 8" HORSECOLLAR 200865700000

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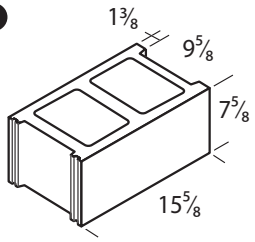
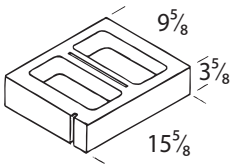
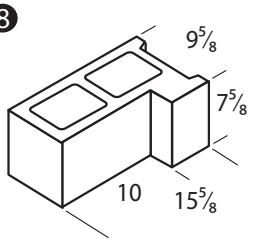
10" BLOCK



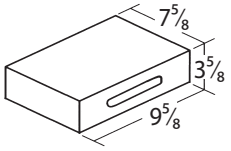
REGULAR
201000700000



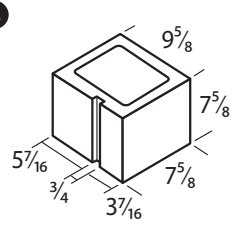
HALF HIGH FULL SQUARE W/ SASH
201002400000



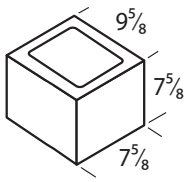
L-CORNER
201003700000



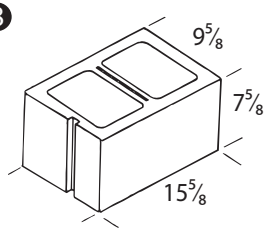
10" Plug
201013700000



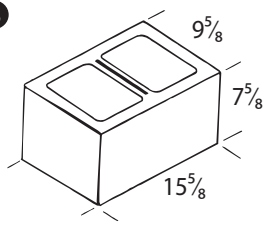
HALF SQUARE W/ SASH
201005700000



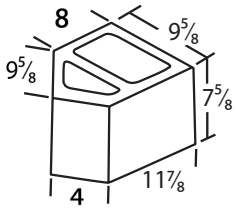
HALF SQUARE W/O SASH
201004700000



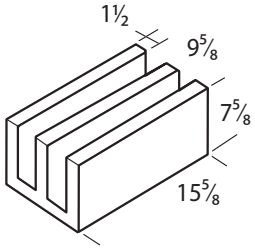
FULL SQUARE W/ SASH
201002700000



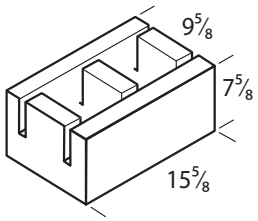
FULL SQUARE W/O SASH
201012700000



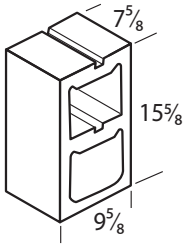
45 DEGREE MITER
201079700000



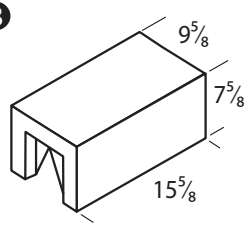
BOND BEAM
201072700000



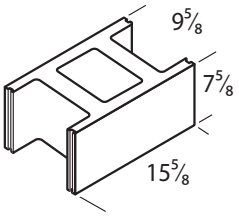
FLOW THRU BOND BEAM (KNOCK OUT)
201070700000



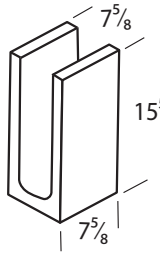
CONDUIT (KNOCKOUT)
201073700000



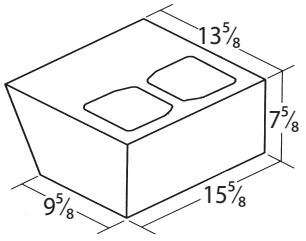
FILL TOP
201025700000



OPEN CORE
201071700000



10" HORSECOLLAR
201065700000



10" CORBEL
201091700000

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*Denotes units which are normally special-order runs and may be subject to short run charges and/or minimum orders.
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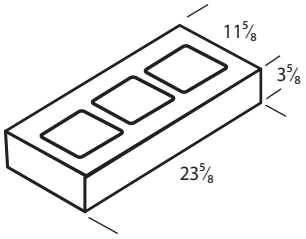
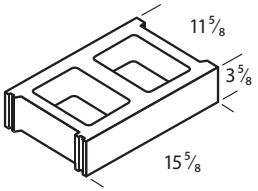
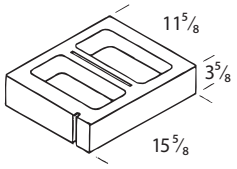
12" BLOCK



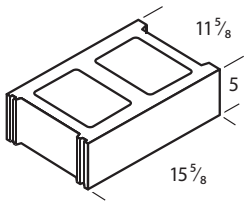
12" 24" LONG HALF HIGH
201248400000



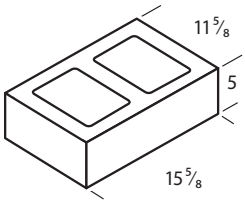
HALF HIGH REG
201200400000



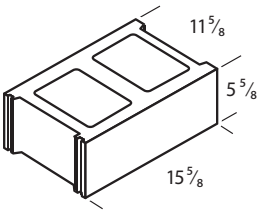
HALF HIGH FULL SQUARE
W/ SASH
201202400000



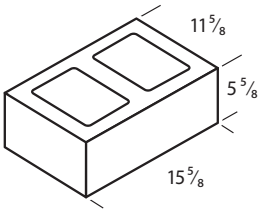
5" STARTER
201200500000



5" HIGH
STARTER FULL SQUARE
201212500000

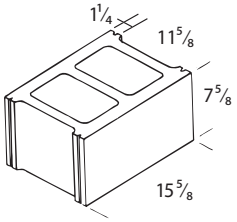


5 5/8" HIGH
REGULAR STARTER
201200600000

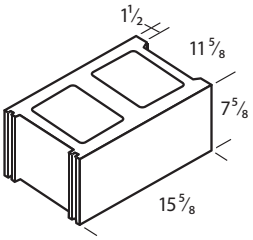


5 5/8" HIGH
FULL SQUARE STARTER
201212600000

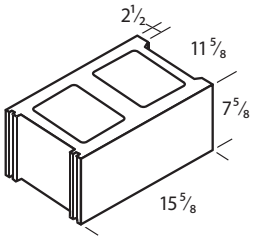
8



REGULAR
201200700000

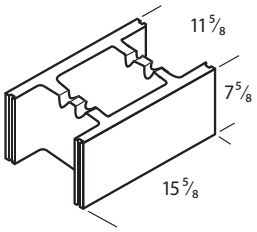


3 HR FIRE RATED
201227700000

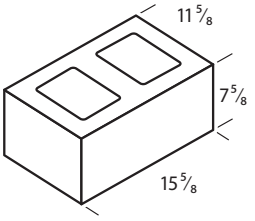


4 HR FIRE RATED
201228700000

*

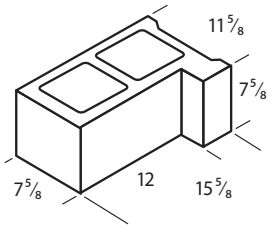


OPEN CORE
201271700000



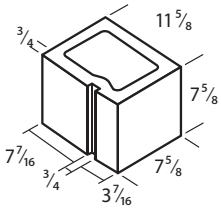
FULL SQUARE
201212700000

8

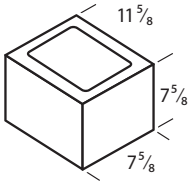


L-CORNER
201203700000

8



HALF SQ. W/ SASH
201205700000



HALF SQUARE
201204700000

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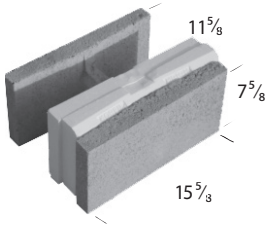
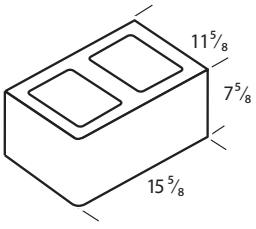
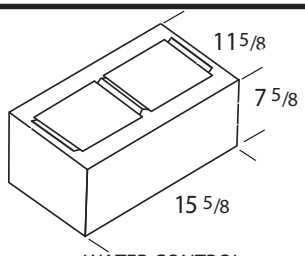


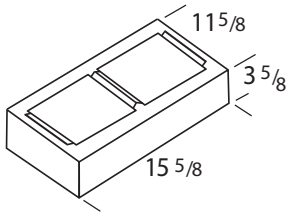
Hi R H PRE-INSULATED



SINGLE BULL NOSE
201206700000

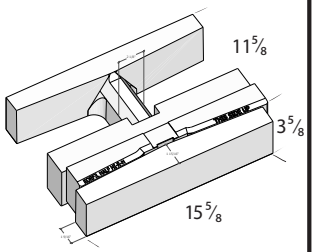


WATER CONTROL
TECHNOLOGIES UNIT
12" FULL SQUARE



WATER CONTROL
TECHNOLOGIES UNIT
12" HALF HIGH DOUBLE END

*



Hi R H HALF HIGH PRE-INSULATED

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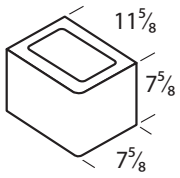
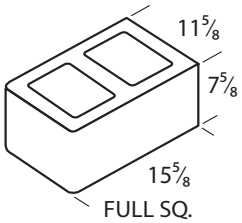
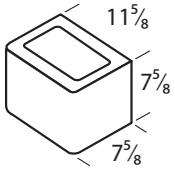
12" BLOCK



HALF SINGLE BULL NOSE
201207700000



FULL SQ.
DOUBLE BULL NOSE
201210700000



HALF DOUBLE BULL NOSE
201211700000

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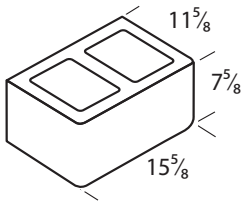
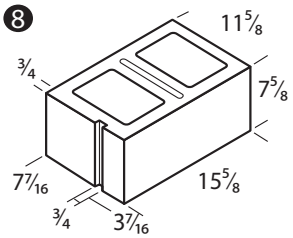


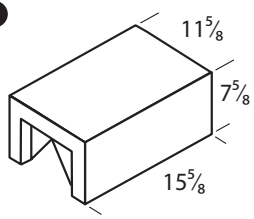
FULL SQ. SBN TWO ENDS
201214700000

8



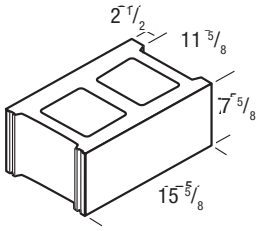
FULL SQUARE W/ SASH
201202700000

8



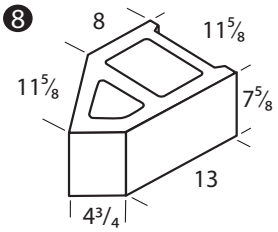
FILL TOP
201225700000

*

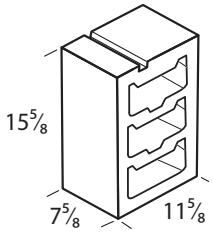


4 HR FIRE RATED
201228700000

8

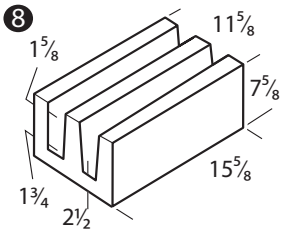


45° MITER CORNER
201279700000



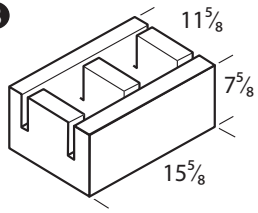
CONDUIT (KNOCK OUT)
201273700000

8

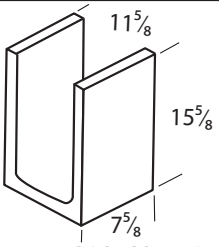


BOND BEAM
201272700000

8

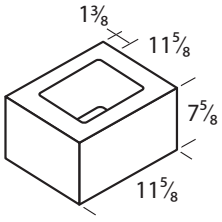


FLOW THRU BOND BEAM
(KNOCK OUT)
201270700000



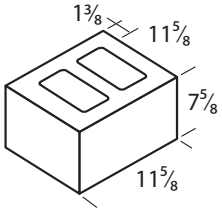
12" HORSECOLLAR
201265700000

8

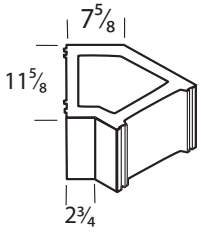


3/4" LONG COLUMN
201276700000

8



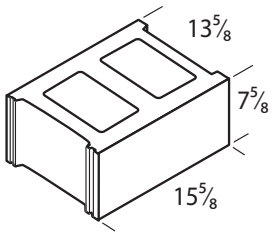
3/4" LONG
COLUMN W/WEB
201277700000



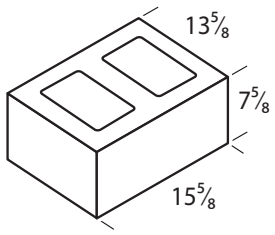
12" 45° BIRDHOUSE
201209700000

NOTE: Product availability varies by plant location. Please contact your sales rep or the plant for inventory questions.
*Denotes units which are normally special-order runs and may be subject to short run charges and/or minimum orders.
8 Denotes full 8" high units also available at some locations.

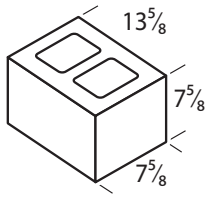
14" BLOCK



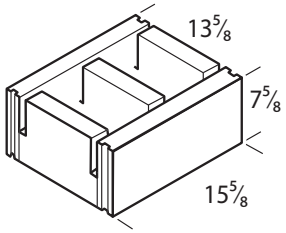
REGULAR
201400700000



FULL SQUARE
201412700000



HALF SQUARE
201404700000



FLOW THRU BOND BEAM
(KNOCK OUT)
201470700000

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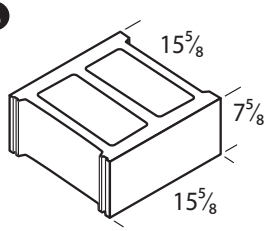
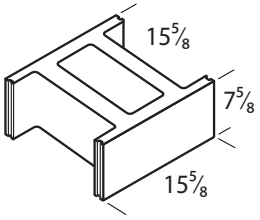
16" BLOCK

8

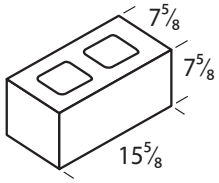


REGULAR
20160700000

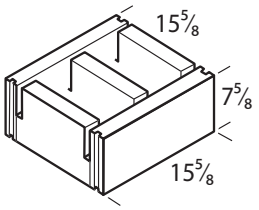
*



OPEN CORE
201671700000

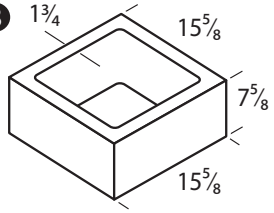


HALF SQUARE
201604700000

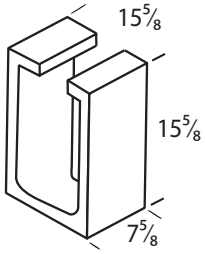


FLOW THRU BOND BEAM
(KNOCK OUT)
201670700000

8



16" FULL SQUARE
(12 1/8" SQ. OPENING)
201612700000



16" HORSE COLLAR
201665700000

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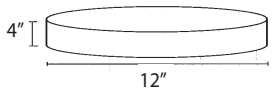
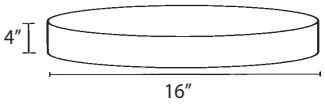
*Denotes units which are normally special-order runs and may be subject to short run charges and/or minimum orders.
8 Denotes full 8" high units also available at some locations.

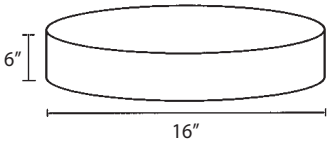
24" BLOCK & SPECIAL SHAPES



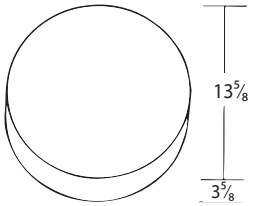
12″ X 4″ POLE BARN PAD
201250400000



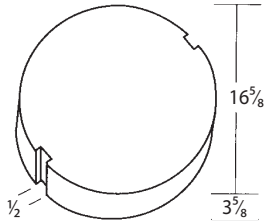
16″ X 4″ POLE BARN PAD
201650400000



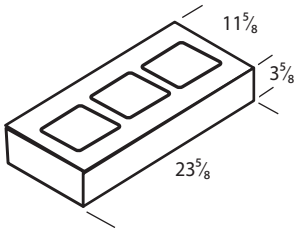
16″ X 6″ POLE BARN PAD
201650600000



14″ X 4″ POLE BARN PAD
201450400000

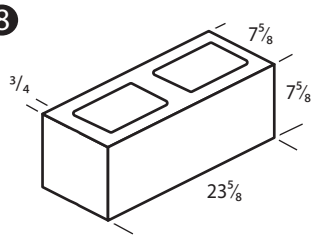


17″ X 4″ POLE BARN PAD
201750400000

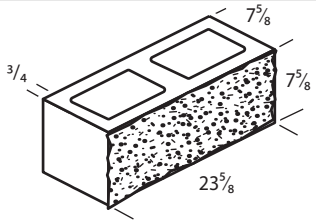


12" 24" LONG HALF HIGH
201248400000

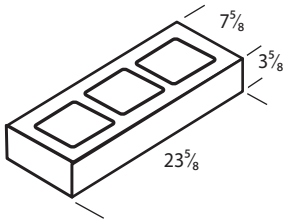
❽



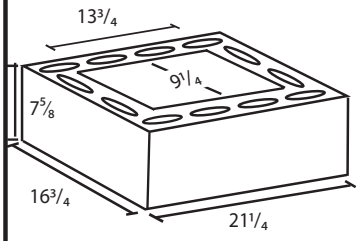
24" FULL SQUARE



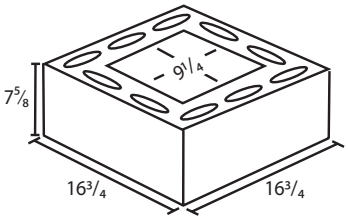
24" FULL SQUARE
ROCK FACE



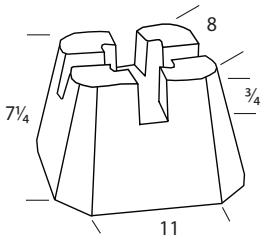
8" 24" LONG HALF HIGH
200848400000



8″ x 12″ CHIMNEY BLOCK
301260800000



8″ x 8″ CHIMNEY BLOCK
300860800000



DEK BLOCK
201167700000

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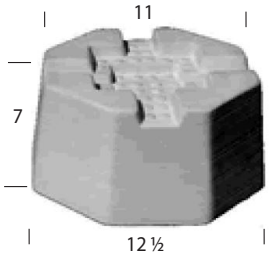
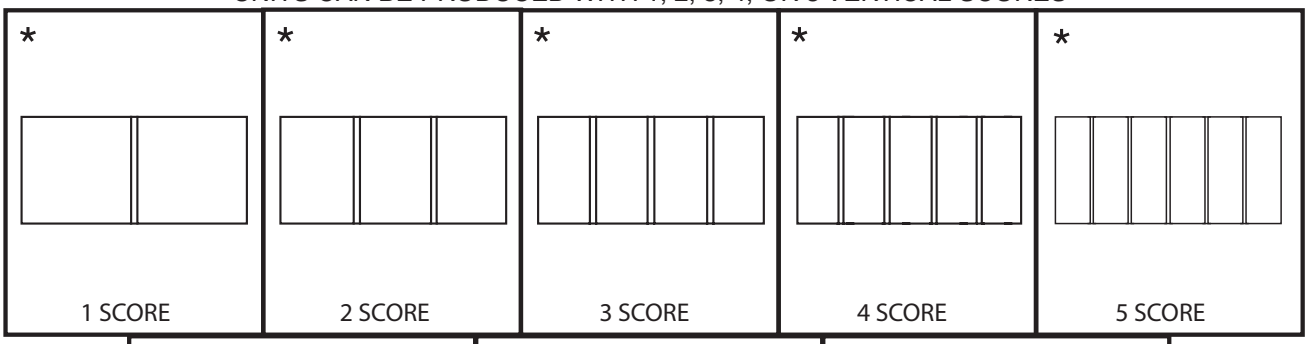
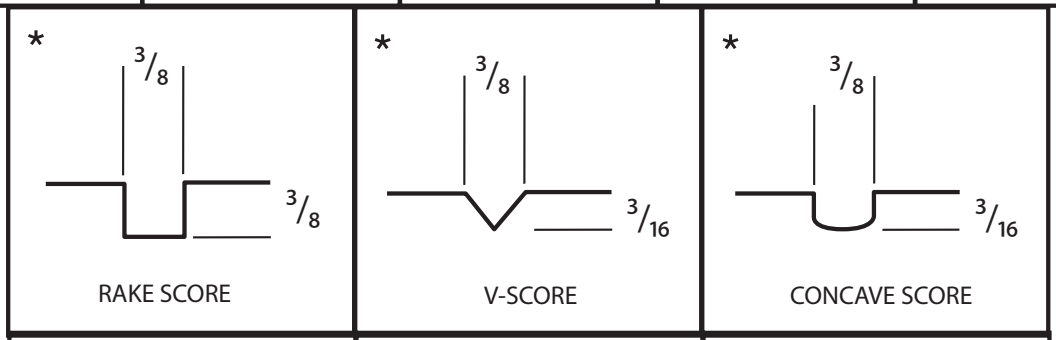


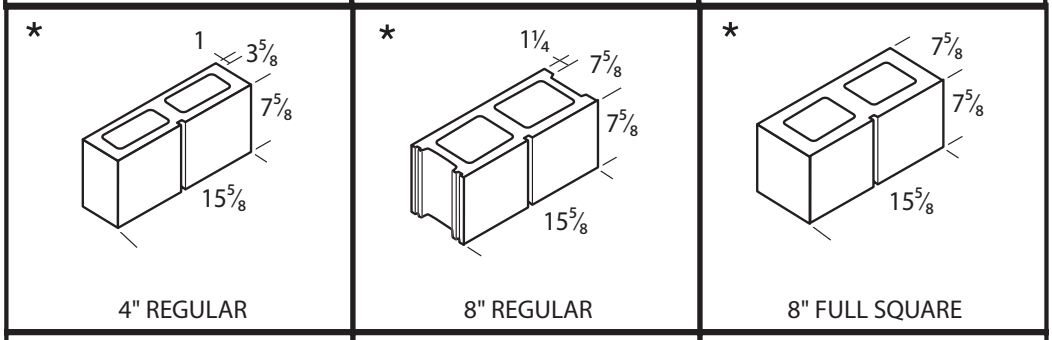
6x6 DEK BLOCK (PRECAST)

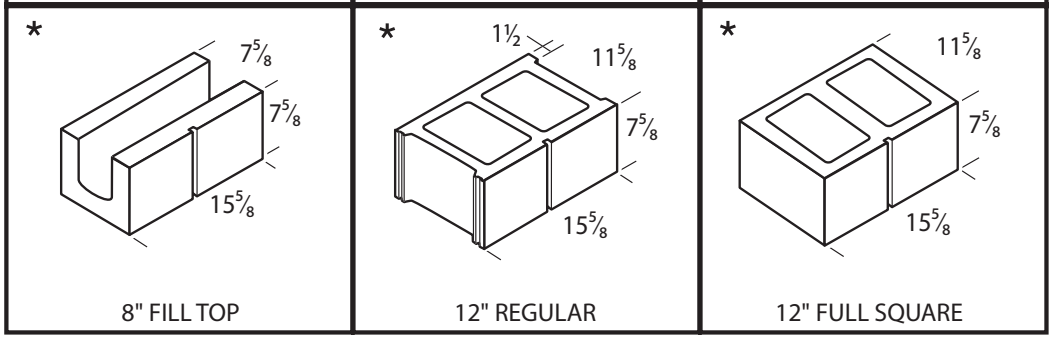
SCORED BLOCK

UNITS CAN BE PRODUCED WITH 1, 2, 3, 4, OR 5 VERTICAL SCORES









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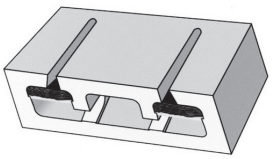
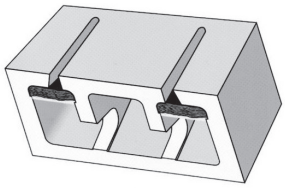
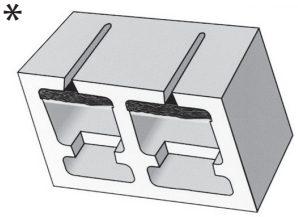
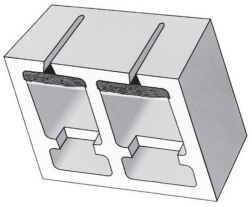
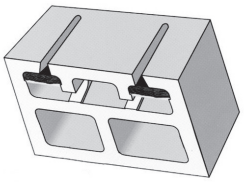
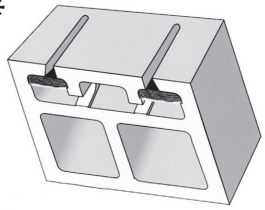
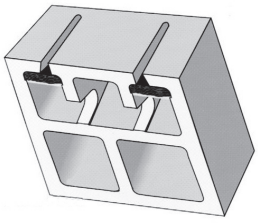
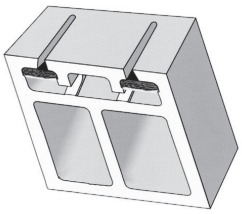
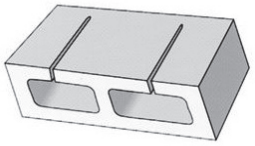
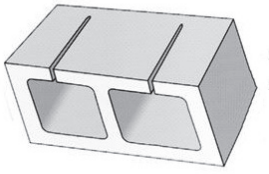
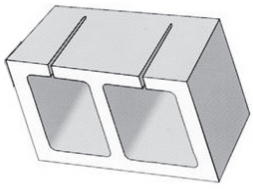
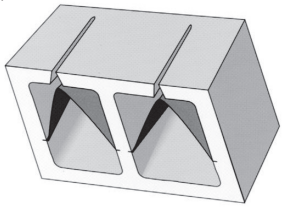
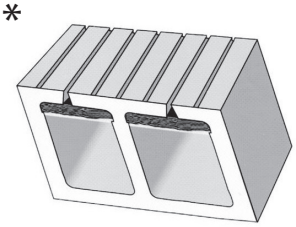
SOUNDBLOX

SOUND ABSORPTION COEFFICIENTS - TYPE RSC/RF and RSC

Size	Type	Surface	Exposed Slots/ Cavities	Frequency - Hertz																
				125	160	200	250	315	400	500	630	800	1000	1250	1600	2000	2500	3150	4000	5000	NRC
8"	RSC/RF	PAINTED	2/5	.18	.22	.36	.64	1.12	1.16	1.02	.89	.76	.72	.76	.77	.80	.73	.68	.58	.65	**.80**
10"	RSC/RF	PAINTED	2/5	.18	.22	.36	.64	1.12	1.16	1.02	.89	.76	.72	.76	.77	.80	.73	.68	.58	.65	**.80**
12"	RSC/RF	PAINTED	2/5	.48	.70	.93	1.14	1.05	.97	.91	.84	.75	.76	.77	.70	.67	.68	.56	.51	.59	**.85**
12"	RSC/RF-4	PAINTED	2/5	.18	.22	.36	.64	1.12	1.16	1.02	.89	.76	.72	.76	.77	.80	.73	.68	.58	.65	**.80**
4"	RSC	PAINTED	2/3	.18	.22	.36	.64	1.12	1.16	1.02	.89	.76	.72	.76	.77	.80	.73	.68	.58	.65	**.80**
6"	RSC	PAINTED	2/3	.48	.70	.93	1.14	1.05	.97	.91	.84	.75	.76	.77	.70	.67	.68	.56	.51	.59	**.85**
8"	RSC	PAINTED	2/4	.48	.85	1.17	.99	.90	.88	.98	.79	.62	.58	.60	.61	.70	.69	.70	.64	.51	**.80**
12"	RSC	PAINTED	2/4	.57	*	*	.76	*	*	1.09	*	*	.94	*	*	.54	*	*	.59	*	**.85**

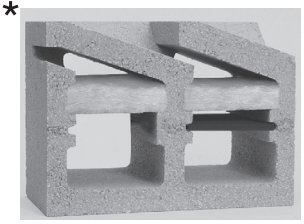
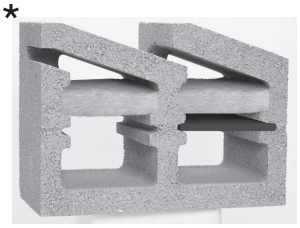
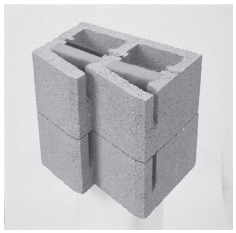
The above sound absorption data was determined by tests conducted at Geiger and Hamme Acoustical Laboratory in strict compliance with ASTM C423 specifications.
Actual installed performance may vary.
* Measurements at these frequencies were not taken.

SOUNDBLOX

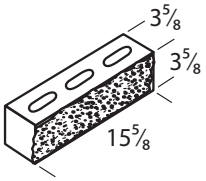
*  TYPE RSC (4") 200433700000	*  TYPE RSC (6") 200633700000	*  TYPE RSC (8") 200833700000
*  TYPE RSC (12") 201233700000	*  TYPE RSC/RF (8") 200832700010	*  TYPE RSC/RF (10") 201032700010
*  TYPE RSC/RF (12") 201232700010	*  TYPE RSC/RF 4 (12") 201230700010	*  TYPE A-1 (4") 200434700000
*  TYPE A-1 (6") 200634700000	*  TYPE A-1 (8") 200834700000	*  TYPE Q (8" ONLY) 200835700000
*  TYPE RSR (8" ONLY) 200836700000		

NOTE: Product availability varies by plant location. Please contact your sales rep or the plant for inventory questions.
*Denotes units which are normally special-order runs and may be subject to short run charges and/or minimum orders.
❽ Denotes full 8" high units also available at some locations.

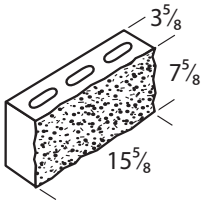
SOUNDCELL

*  SOUNDCELL (8") 200831700000	*  SOUNDCELL (12") 201231700000	*  ACOUSTADE (8") 200837700000
*  ACOUSTADE (12") 201237700000	NOTE: Product availability varies by plant location. Please contact your sales rep or the plant for inventory questions. *Denotes units which are normally special-order runs and may be subject to short run charges and/or minimum orders. ❽ Denotes full 8" high units also available at some locations.	

ROCKFACE/SPLITFACE

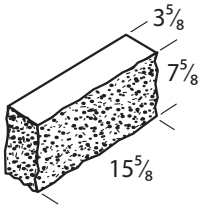


4" HALF HIGH
26040040010

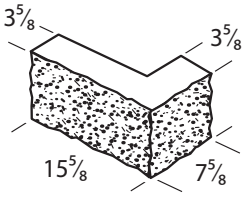


4" REGULAR
260400700010

*

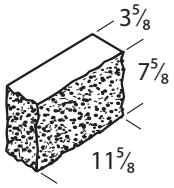


4" FACE & END CORNER
260490700009



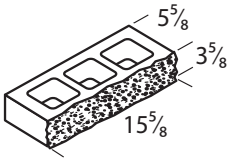
4" L-CORNER
260493700009

*

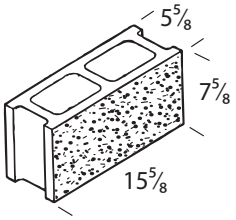


4" 3/4 LENGTH
FACE & END CORNER
260478700009

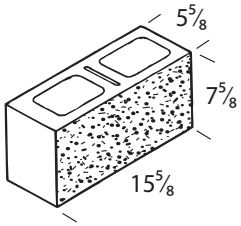
*



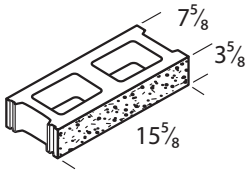
6" 1/2 HIGH REGULAR
260600400010



6" REGULAR
260600700010

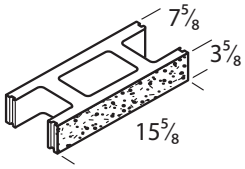


6" FULL SQUARE
260612700010



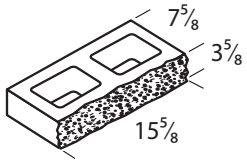
8" HALF HIGH REG
260800400010

*



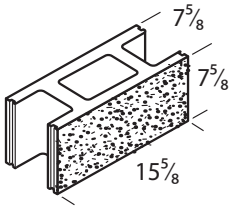
8" HALF
HIGH OPEN CORE
260871400010

*

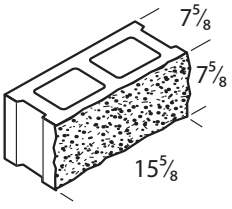


8" HALF HIGH FULL SQUARE
260812400010

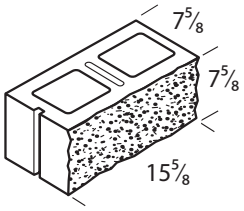
*



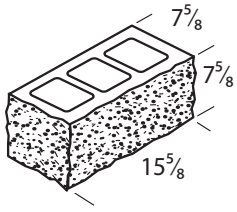
8" OPEN CORE
260871700010



8" REGULAR
260800700010



8" FULL SQUARE W/SASH
260802700010



8" FACE & END CORNER
260812700009

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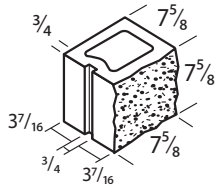
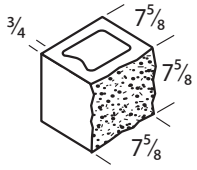
8 Denotes full 8" high units also available at some locations.

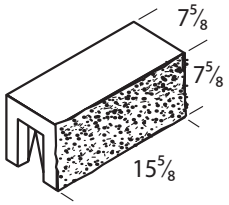
ROCKFACE/SPLITFACE



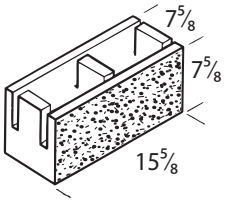
8" HALF SQUARE W/ SASH
260805700010



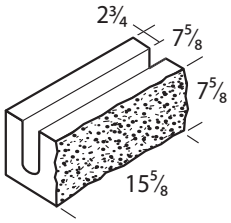
8" HALF
SQUARE W/O SASH
260804700010



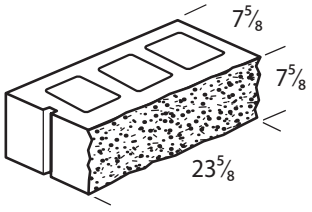
8" FILL TOP
260825700010



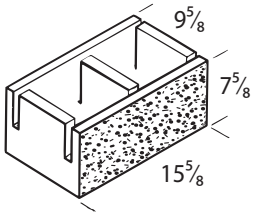
8" FLOW THRU
(KNOCK OUT)
260870700010



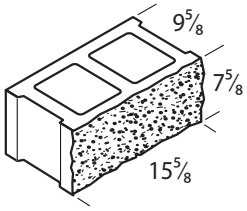
8" BOND BEAM
260872700010



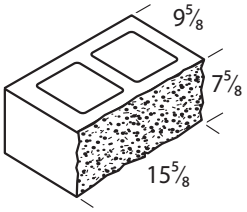
24" LONG FULL SQUARE
W/ SASH
260848700010

* 

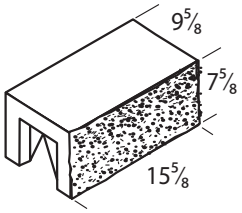
10" FLOW THRU
BOND BEAM
261070700010

* 

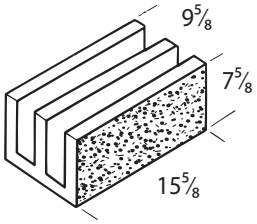
10" REGULAR
261000700010

* 

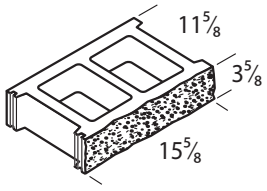
10" FULL SQUARE
261012700010

* 

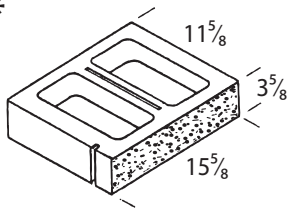
10" FILL TOP
261025700010

* 

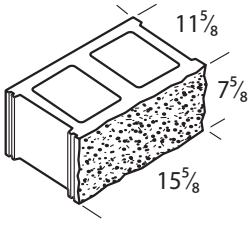
10" BOND BEAM
261072700010

* 

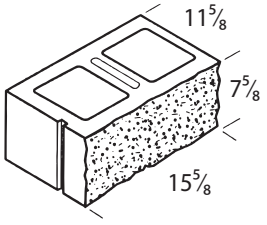
12" REGULAR HALF HIGH
261200400010

* 

12" HALF HIGH FULL SQUARE
261202400010



12" REGULAR
261200700010



12" FULL SQUARE W/ SASH
261202700010

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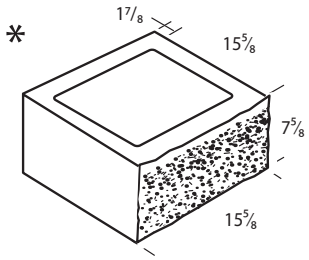
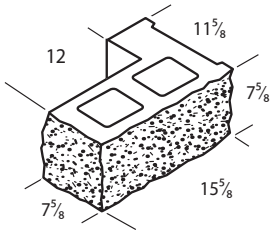
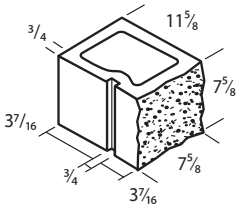
ROCKFACE/SPLITFACE



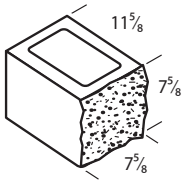
* 16" FULL SQUARE
261602700010



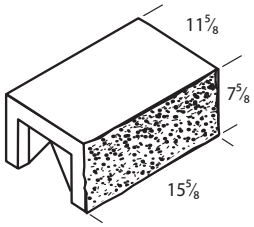
12" L-CORNER
261203700009



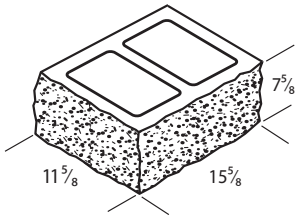
12" HALF
SQUARE W/SASH
261205700010



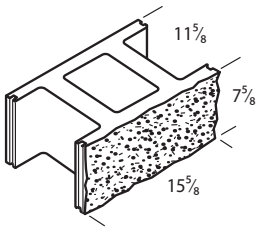
* 12" HALF
SQUARE W/O SASH
261204700010



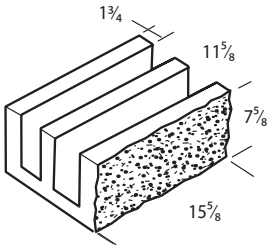
12" FILL TOP
261225700010



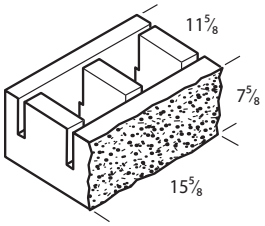
12" FULL SQUARE
FACE & END
261202700009



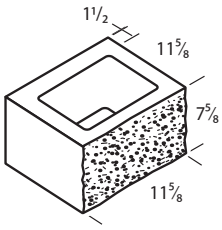
* 12" OPEN CORE
261271700010



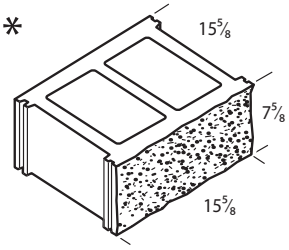
12" BOND BEAM
261272700010



12" FLOW THRU BOND
BEAM (KNOCK-OUT)
261270700010



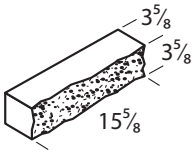
* 12" 3/4 LONG
261276700010



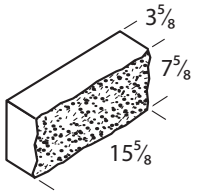
* 16" REGULAR
261600700010

NOTE: Product availability varies by plant location. Please contact your sales rep or the plant for inventory questions.
*Denotes units which are normally special-order runs and may be subject to short run charges and/or minimum orders.
8 Denotes full 8" high units also available at some locations.

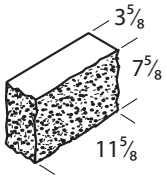
MAMMOTH STONE® SERIES



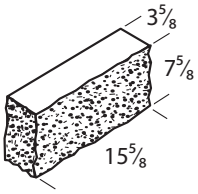
* 4" HALF HIGH SOLID VENEER



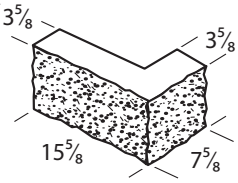
* 4" SOLID VENEER



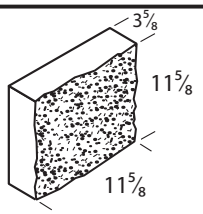
* 4" 3/4 LENGTH FACE & END CORNER



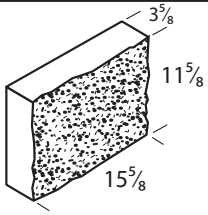
* 4" FACE & END CORNER



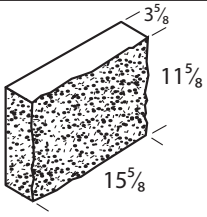
* 4" L-CORNER



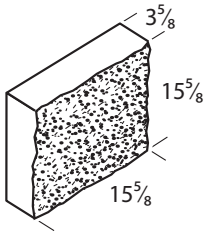
* 4"x12"x12" SOLID VENEER



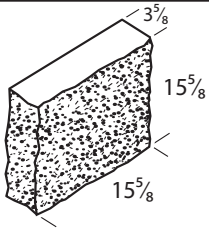
* 4"x12"x16" SOLID VENEER



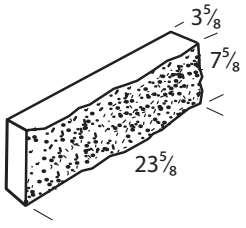
* 4"x12"x16" SOLID VENEER CORNER



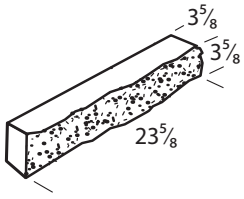
* 4"x16"x16" SOLID VENEER



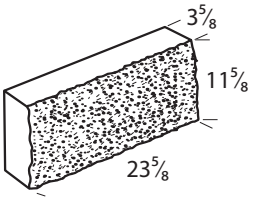
* 4"x16"x16" SOLID VENEER CORNER



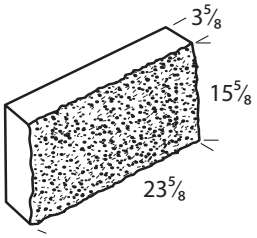
* 4"x 8"x 24" SOLID VENEER



* 4"x 4"x 24" SOLID VENEER



* 4"x12"x24" SOLID VENEER



* 4"x16"x24" SOLID VENEER

All Mammoth Stone shapes are available in Rockface (shown), burnished, Travertina™, and ultra-fine finishes.

For Mammoth Stone ashlar patterns, see pages 40-50.

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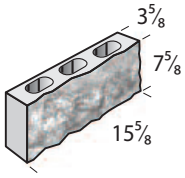
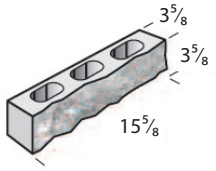
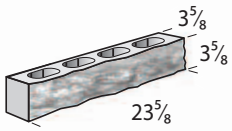
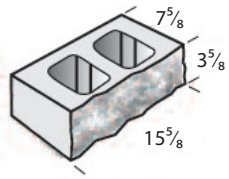
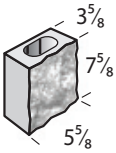
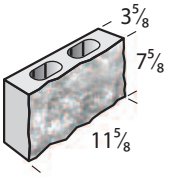
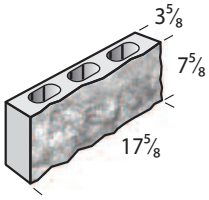
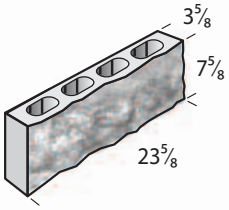
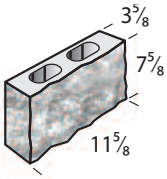
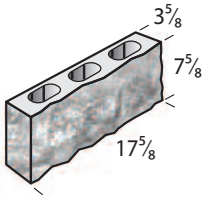
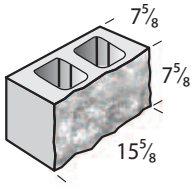
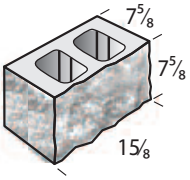
STONE MASON™ SERIES

*  4 X 8 X 16 STONE MASON SERIES	*  4 X 4 X 16 STONE MASON SERIES	*  4 X 4 X 24 STONE MASON SERIES	*  8 X 4 X 16 STONE MASON SERIES
*  4 X 8 X 6 S TONE MASON SERIES	*  4 X 8 X 12 STONE MASON SERIES	*  4 X 8 X 18 S TONE MASON SERIES	*  4 X 8 X 24 STONE MASON SERIES
*  4 X 8 X 12 CORNER STONE MASON SERIES	*  4 X 8 X 18 CORNER STONE MASON SERIES	*  8 x 8 x 16 STONE MASON SERIES	*  8 x 8 x 16 CORNER STONE MASON SERIES

18" Long, 12" Long and 6" Long Mixed Cubes:
Square Feet per cube- 73.6
Pieces per cube- 120 (40 pieces of each size)
Weight per cube- 2880 lb..

24" Long, 12" Long and 6" Long Mixed Cubes:
Square feet per cube- 69.12
Pieces per cube- 96 (32 pieces of each size)
Weight per cube- 2688

Mixed 18" Long Corner, 12" Long Corner & 6" Long Plain Cubes:
Square feet per cube- 88.8
Pieces per cube- 120 (40 pieces of each size)
Weight per cube 2880

* Special Order - Units may be subject to short run charges and minimum order requirements.

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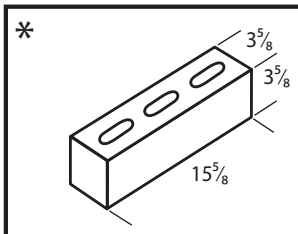
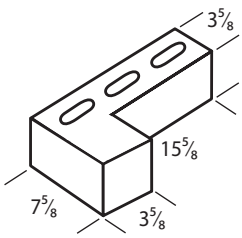
8 Denotes full 8" high units also available at some locations.

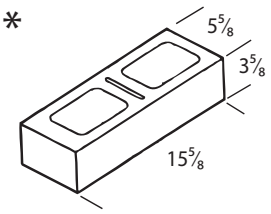
SPEC-BRIK®



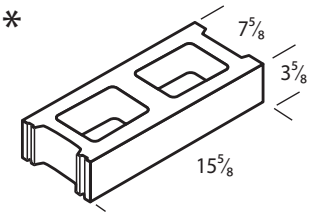
SPEC-BRIK
4" HALF HIGH



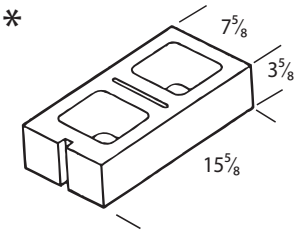
SPEC-BRIK
4" HALF HIGH L-CORNER



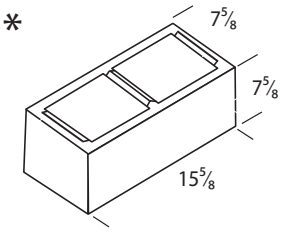
SPEC-BRIK
6" HALF HIGH
DOUBLE END



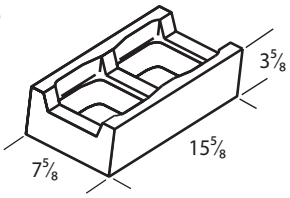
SPEC-BRIK
8" HALF HIGH PLAIN



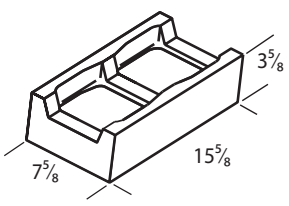
SPEC-BRIK - 8" HALF HIGH
DOUBLE END W/ SASH



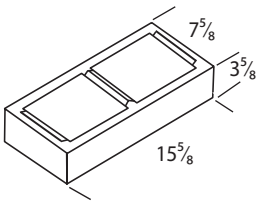
SPEC-BRIK WATER CONTROL
TECHNOLOGIES UNIT
8" FULL SQUARE



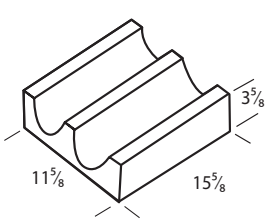
SPEC-BRIK
8" HALF HIGH FLOW-THRU
BOND BEAM



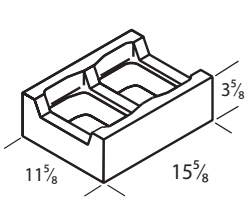
SPEC-BRIK
8" HALF HIGH SOLID BOTTOM
BOND BEAM



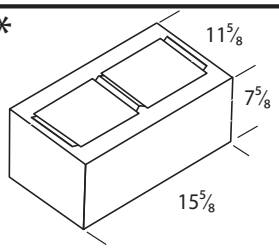
SPEC-BRIK WATER CONTROL
TECHNOLOGIES UNIT
8" HALF HIGH DOUBLE END



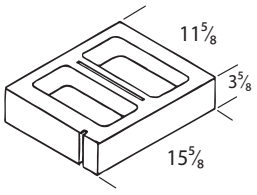
SPEC-BRIK
12" HALF HIGH BOND BEAM



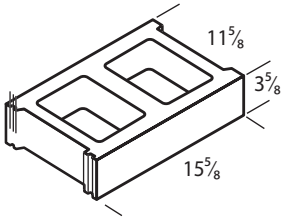
SPEC-BRIK
12" HALF HIGH FLOW-THRU
BOND BEAM



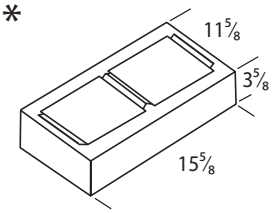
SPEC-BRIK WATER CONTROL
TECHNOLOGIES UNIT
12" FULL SQUARE



SPEC-BRIK
12" HALF HIGH
DOUBLE END W/ SASH



SPEC-BRIK
12" HALF HIGH PLAIN



SPEC-BRIK WATER CONTROL
TECHNOLOGIES UNIT
12" HALF HIGH DOUBLE END

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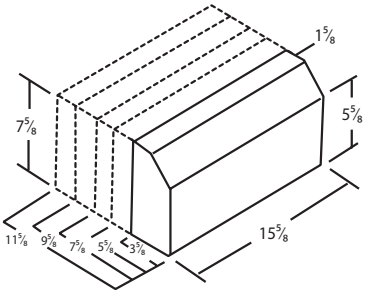
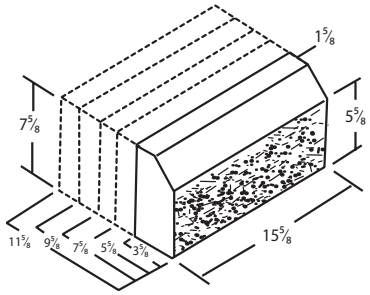
SILL BLOCK



320422700000 3 5/8 x 7 5/8 x 15 5/8
320622700000 5 5/8 x 7 5/8 x 15 5/8
320822700000 7 5/8 x 7 5/8 x 15 5/8
321022700000 9 5/8 x 7 5/8 x 15 5/8
321222700000 11 5/8 x 7 5/8 x 15 5/8



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320622700010 5 5/8 x 7 5/8 x 15 5/8
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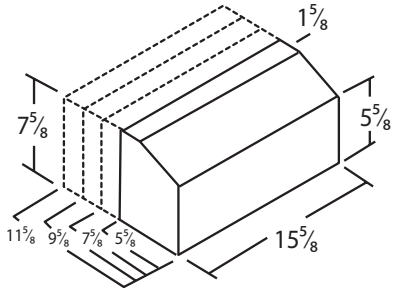
321022700010 9 5/8 x 7 5/8 x 15 5/8
321222700010 11 5/8 x 7 5/8 x 15 5/8



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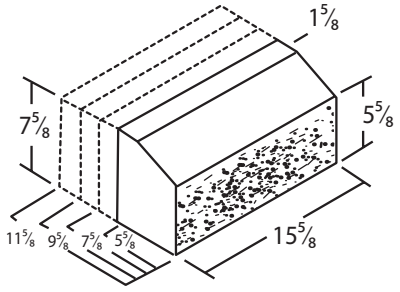

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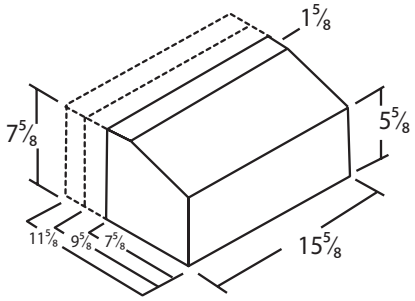

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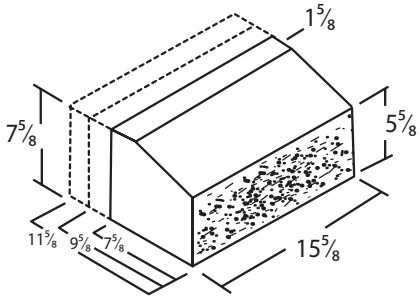

320826700010 7 5/8 x 7 5/8 x 15 5/8
321026700010 9 5/8 x 7 5/8 x 15 5/8
321226700010 11 5/8 x 7 5/8 x 15 5/8

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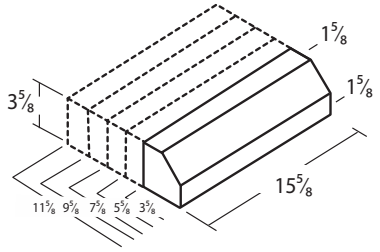
SILL BLOCK

*



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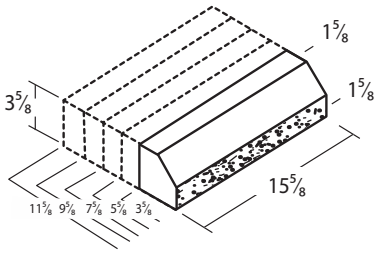
320622400000 5 5/8 x 3 5/8 x 15 5/8
320822400000 7 5/8 x 3 5/8 x 15 5/8
321022400000 9 5/8 x 3 5/8 x 15 5/8
321222400000 11 5/8 x 3 5/8 x 15 5/8

*



320422400010 3 5/8 x 3 5/8 x 15 5/8
320622400010 5 5/8 x 3 5/8 x 15 5/8
320822400010 7 5/8 x 3 5/8 x 15 5/8
321022400010 9 5/8 x 3 5/8 x 15 5/8
321222400010 11 5/8 x 3 5/8 x 15 5/8

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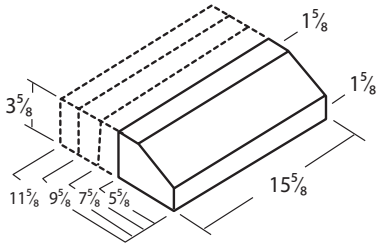

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320824400000 7 5/8 x 3 5/8x 15 5/8
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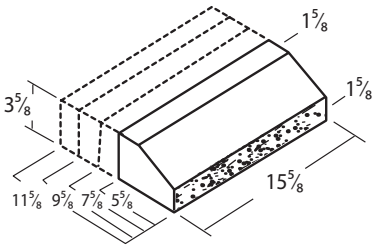

320624400010 5 5/8 x 3 5/8 x 15 5/8
320824400010 7 5/8 x 3 5/8 x 15 5/8
321024400010 9 5/8 x 3 5/8 x 15 5/8
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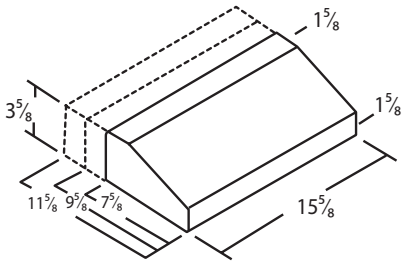

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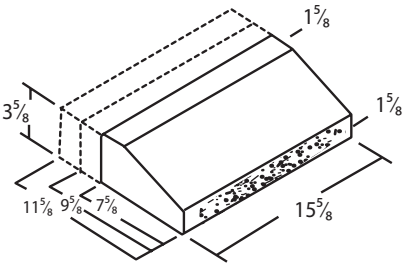

320826400010 7 5/8 x 3 5/8 x 15 5/8
321026400010 9 5/8 x 3 5/8 x 15 5/8
321226400010 11 5/8 x 3 5/8 x 15 5/8

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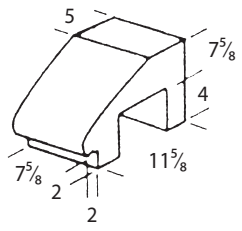
*Denotes units which are normally special-order runs and may be subject to short run charges and/or minimum orders.
8 Denotes full 8" high units also available at some locations.

SILL BLOCK

*



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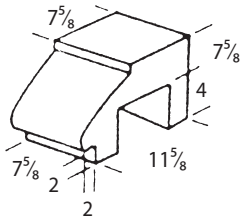

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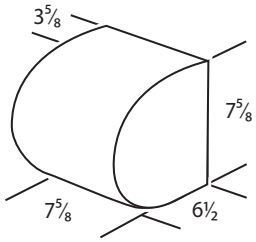

FULL HIGH CRESCENT FACE SILL
320410700000

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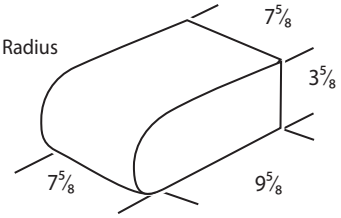
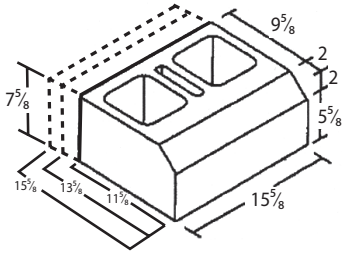
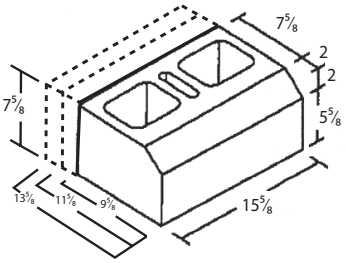


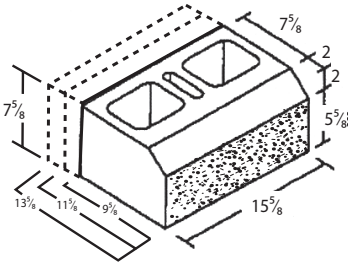
HALF HIGH CRESCENT FACE SILL
321010400000



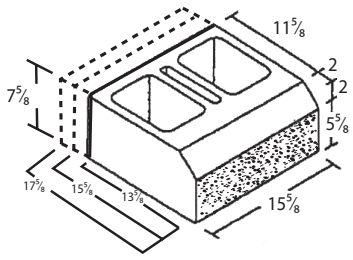
11 ⅝ x 7 ⅝ x 15 ⅝
13 ⅝ x 7 ⅝ x 15 ⅝
15 ⅝ x 7 ⅝ x 15 ⅝



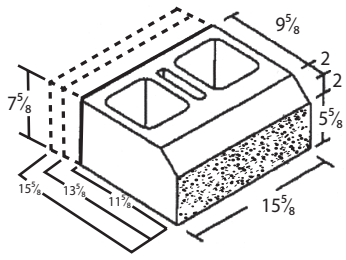
9 ⅝ x 7 ⅝ x 15 ⅝
11 ⅝ x 7 ⅝ x 15 ⅝
13 ⅝ x 7 ⅝ x 15 ⅝



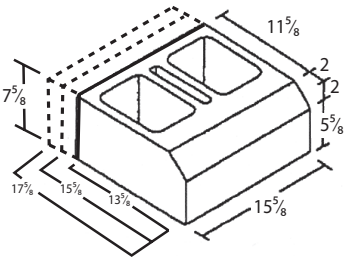
9 ⅝ x 7 ⅝ x 15 ⅝
11 ⅝ x 7 ⅝ x 15 ⅝
13 ⅝ x 7 ⅝ x 15 ⅝



13 ⅝ x 7 ⅝ x 15 ⅝
15 ⅝ x 7 ⅝ x 15 ⅝
17 ⅝ x 7 ⅝ x 15 ⅝



11 ⅝ x 7 ⅝ x 15 ⅝
13 ⅝ x 7 ⅝ x 15 ⅝
15 ⅝ x 7 ⅝ x 15 ⅝



13 ⅝ x 7 ⅝ x 15 ⅝
15 ⅝ x 7 ⅝ x 15 ⅝
17 ⅝ x 7 ⅝ x 15 ⅝

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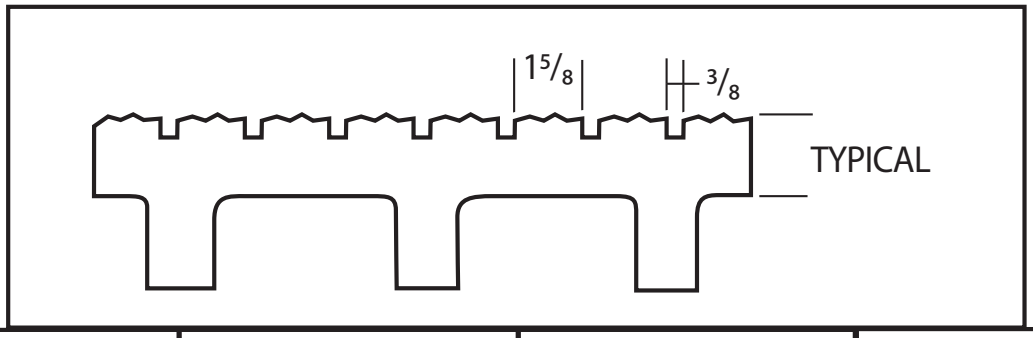
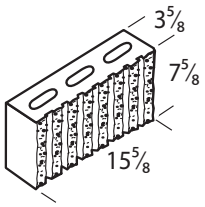
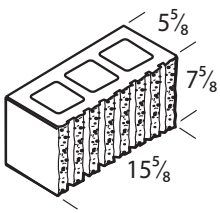
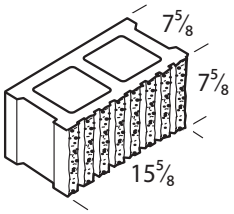
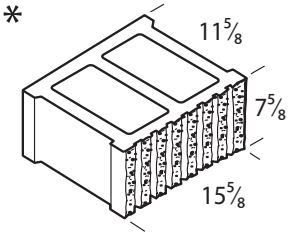
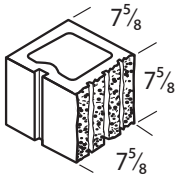
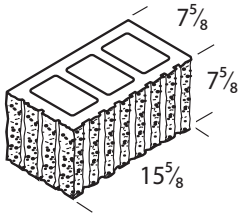
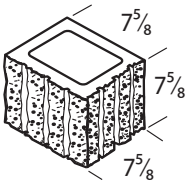
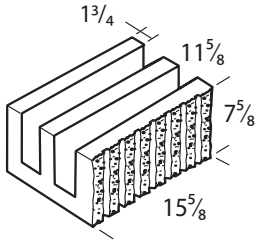
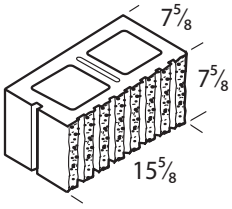
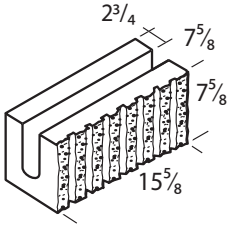
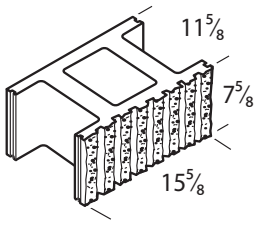
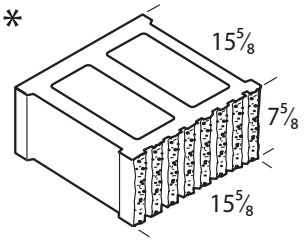
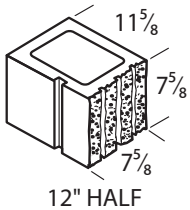
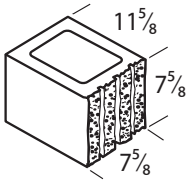
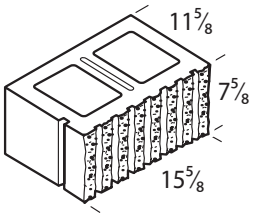
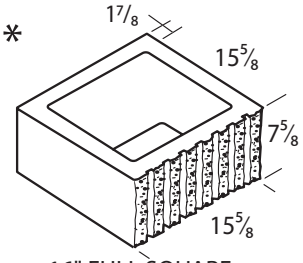
8 RIB SPLIT



*  4" REGULAR 260400700011	*  6" FULL SQUARE 260600700011	*  8" REGULAR 260800700011	*  12" REGULAR 2612007700011
*  8" HALF SQUARE W/ SASH 260805700011	*  8" FACE & END CORNER 260800700017	*  8" HALF SQUARE FACE & END 260812700017	*  12" BOND BEAM 261272700011
*  8" FULL SQUARE W/ SASH 260802700011	*  8" BOND BEAM 260872700011	*  12" OPEN CORE 261271700011	*  16" REGULAR 261600700011
*  12" HALF SQUARE W/ SASH 261205700011	*  12" HALF SQUARE 261204700011	*  12" FULL SQUARE W/ SASH 261202700011	*  16" FULL SQUARE 261612700011

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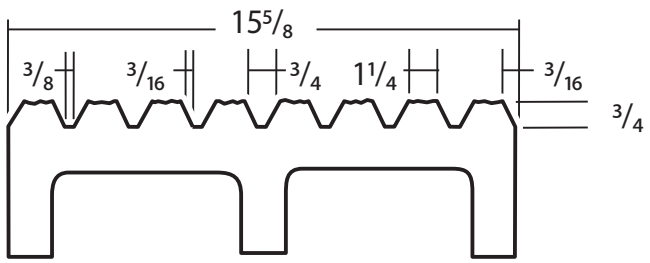
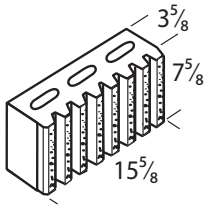
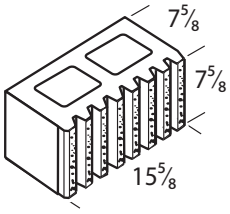
CORDUROY

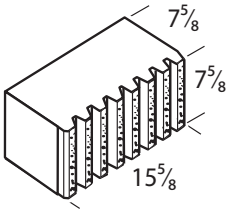


* 

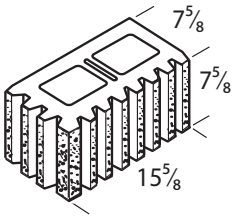
4" REGULAR
260400700012

* 

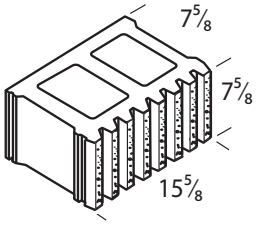
8" FULL SQUARE
260812700012

* 

8" SOLID FULL SQUARE
260890700012

* 

8" FACE & END CORNER
260812700018

* 

8" REGULAR
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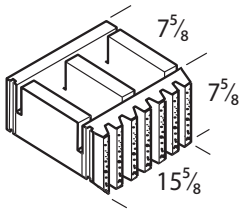
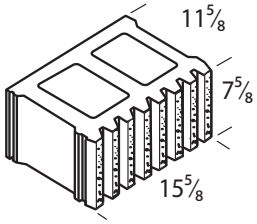
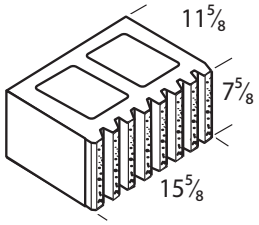
* 

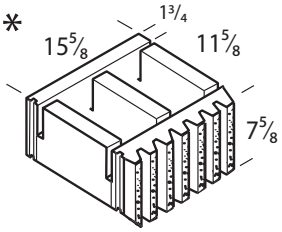
8" SOLID BOTTOM
(KNOCK OUT)
260870700012

* 

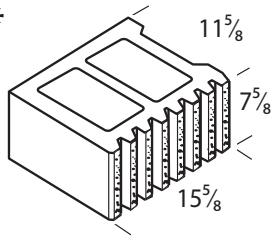
12" REGULAR
261200700012

* 

12" FULL SQUARE
261212700012

* 

12" BOND BEAM
(KNOCK OUT)
261270700012

* 

12" SINGLE END

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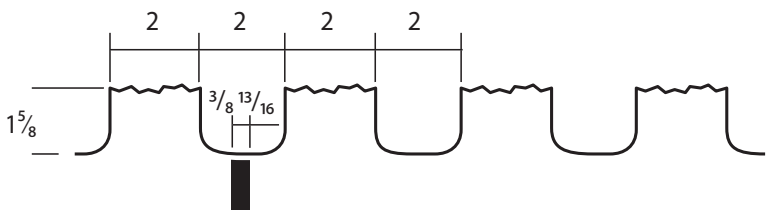
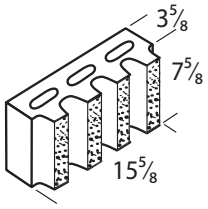
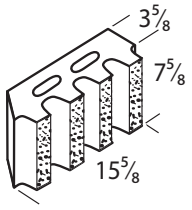
4 FLUTE



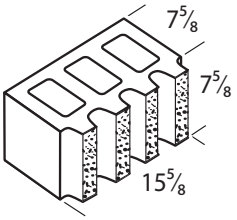
TYPICAL JOINT DETAIL



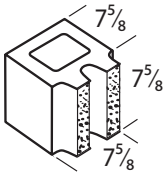
4" REGULAR
260400700013



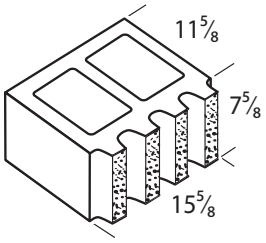
4" SINGLE
MITERED CORNER
260479700013



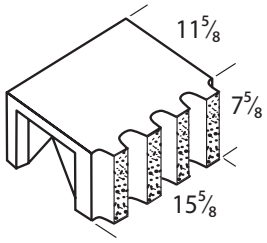
8" FULL SQUARE
260812700013



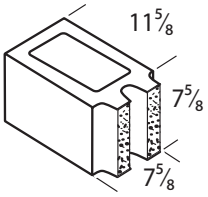
8" HALF SQUARE
260804700013



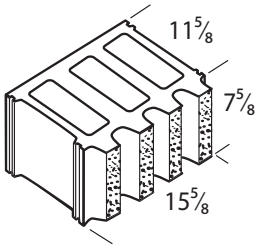
12" FULL SQUARE
261212700013



12" FILL TOP
261225700013



12" HALF SQUARE
261204700013



12" REGULAR
261200700013

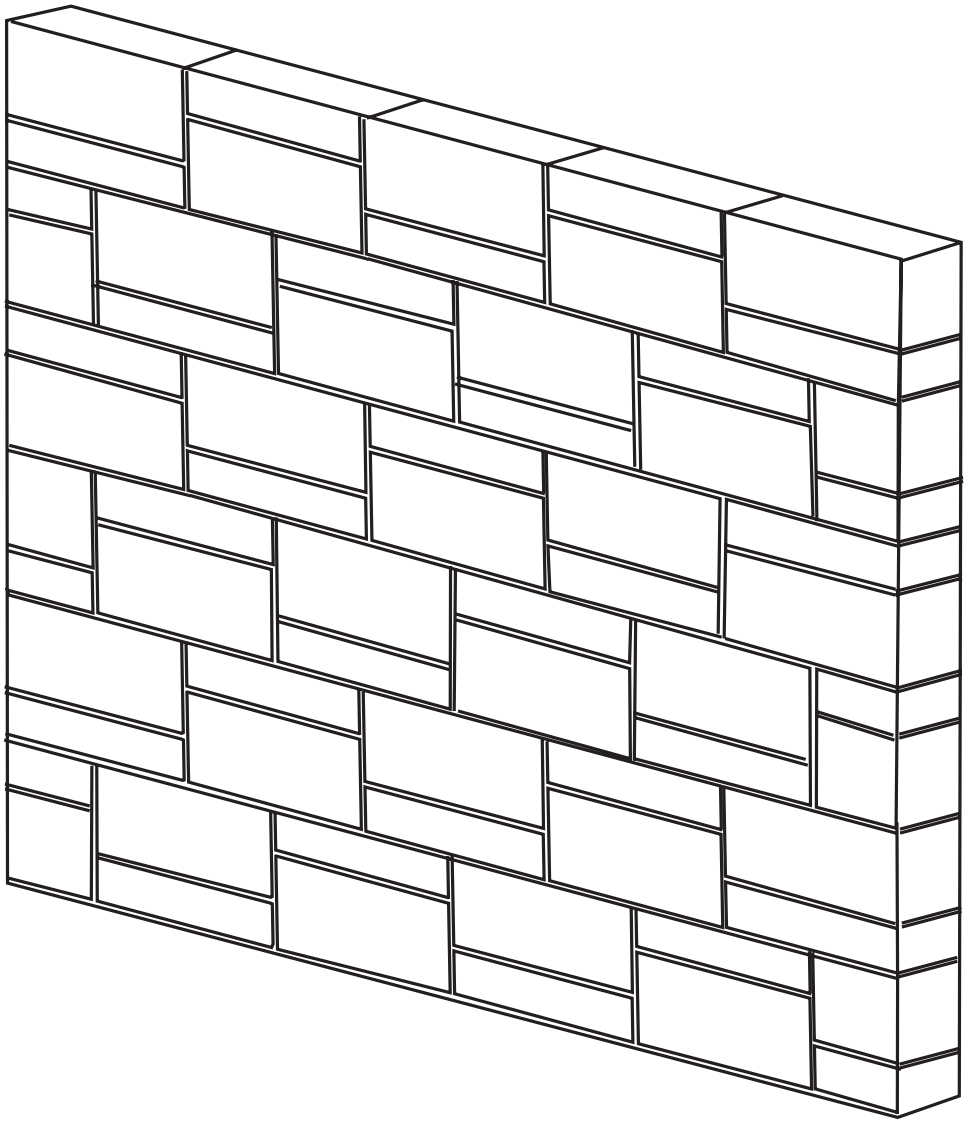
NOTE:

4 Flute (smooth flutes) available in:
4” Regular
4” 45º Mitered Solid
8” Full Square
12” Full Square

5 Flute (broken flute face) available in:
4” Full Square
12” Single Square End

NOTE: Product availability varies by plant location. Please contact your sales rep or the plant for inventory questions.
*Denotes units which are normally special-order runs and may be subject to short run charges and/or minimum orders.
8 Denotes full 8” high units also available at some locations.

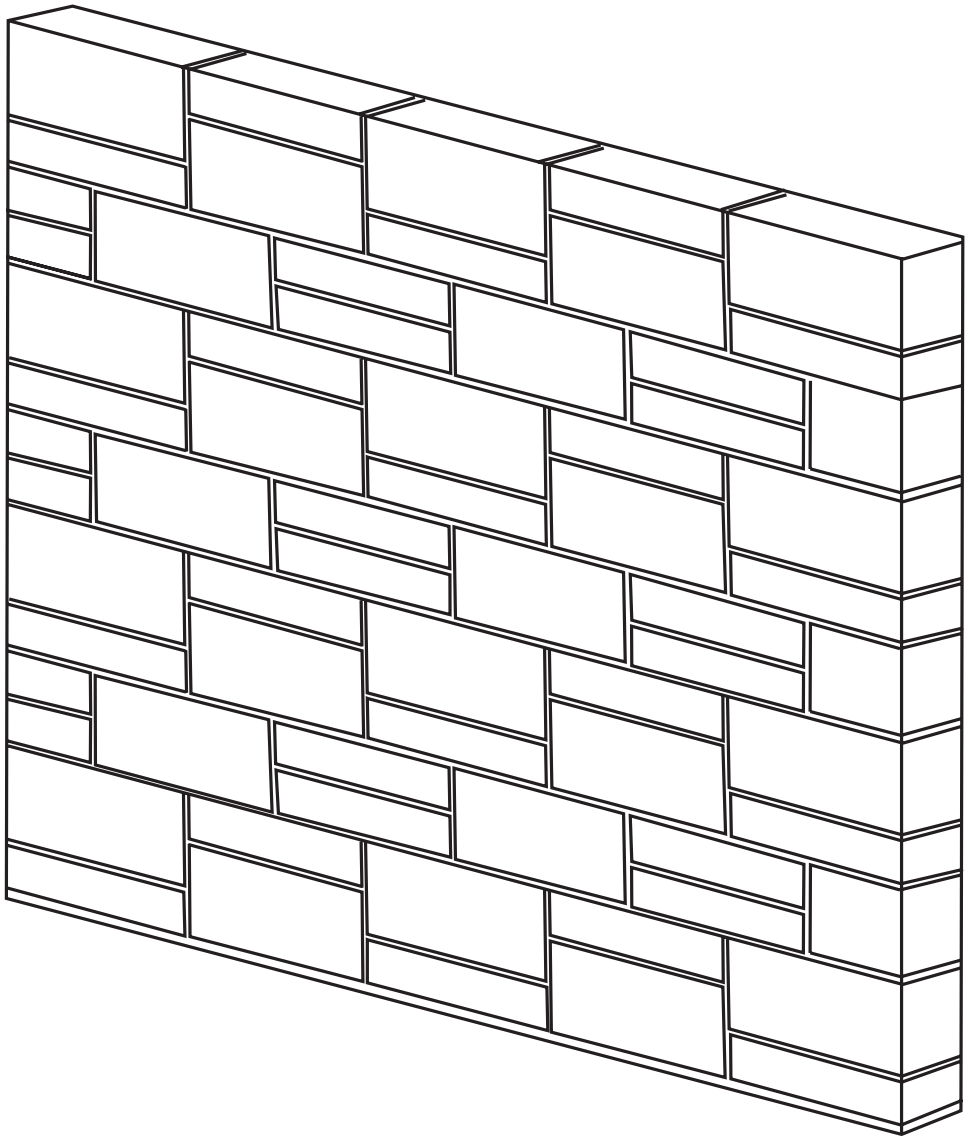
PATTERNED ASHLAR BOND
MAMMOTH STONE™ SERIES



Pattern A
Unit Sizes:
$3^5/_8$ x $3^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $15^5/_8$

This pattern can also be made using 6, 8, or 12 inch units in Rockface, Mammoth Stone™, Travertina™, Ultra-Fine, or Burnished CMU's. This pattern can also be used with 8 inch Stone Mason™ units.

PATTERNED ASHLAR BOND
MAMMOTH STONE™ SERIES



Pattern B

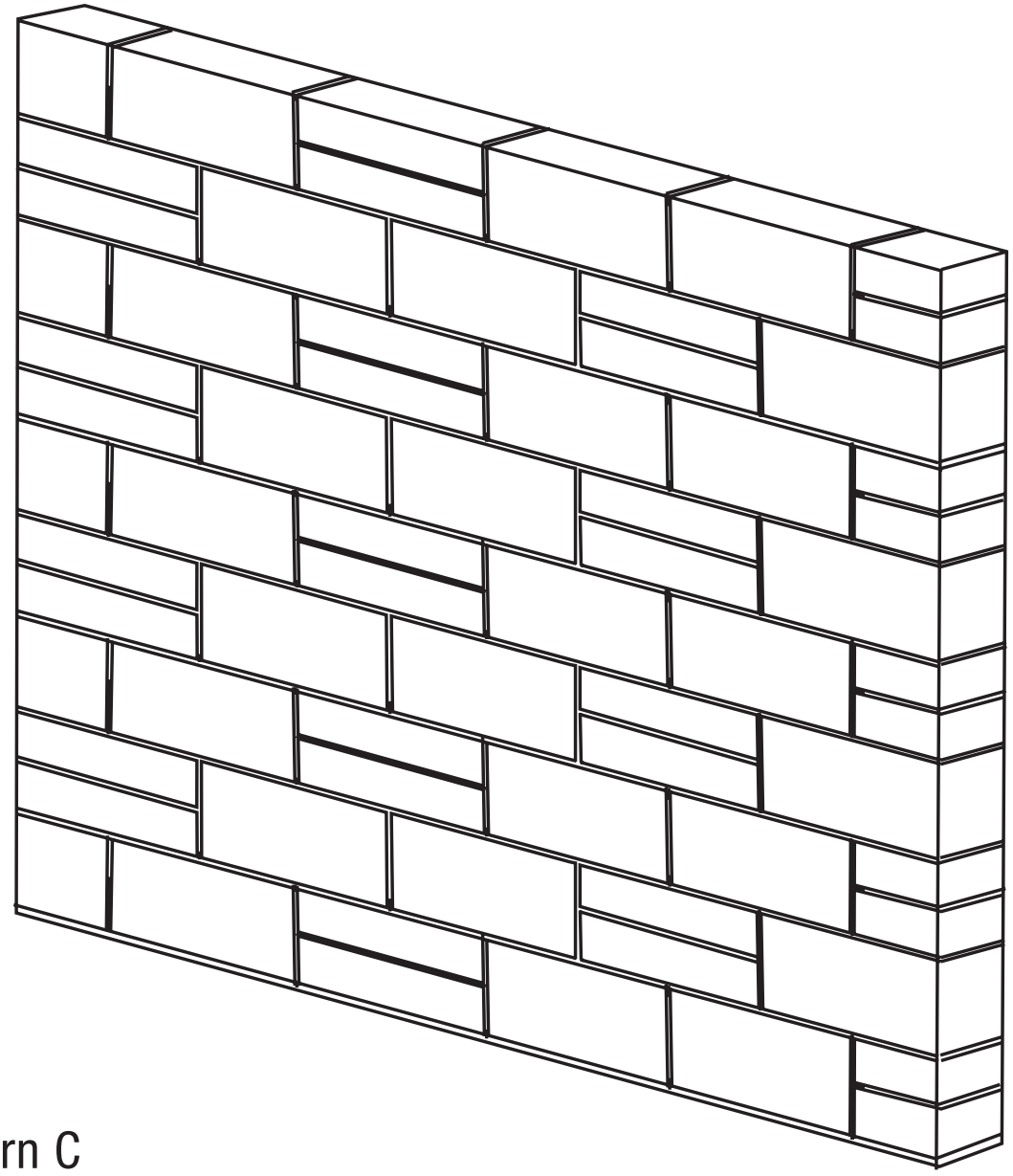
Unit Sizes:

$3^5/_8$ x $3^5/_8$ x $15^5/_8$

$3^5/_8$ x $7^5/_8$ x $15^5/_8$

This pattern can also be made using 6, 8, or 12 inch units in Rockface, Mammoth Stone™, Travertina™, Ultra-Fine, or Burnished CMU's. This pattern can also be used with 8 inch Stone Mason™ units.

PATTERNED ASHLAR BOND
MAMMOTH STONE™ SERIES



Pattern C

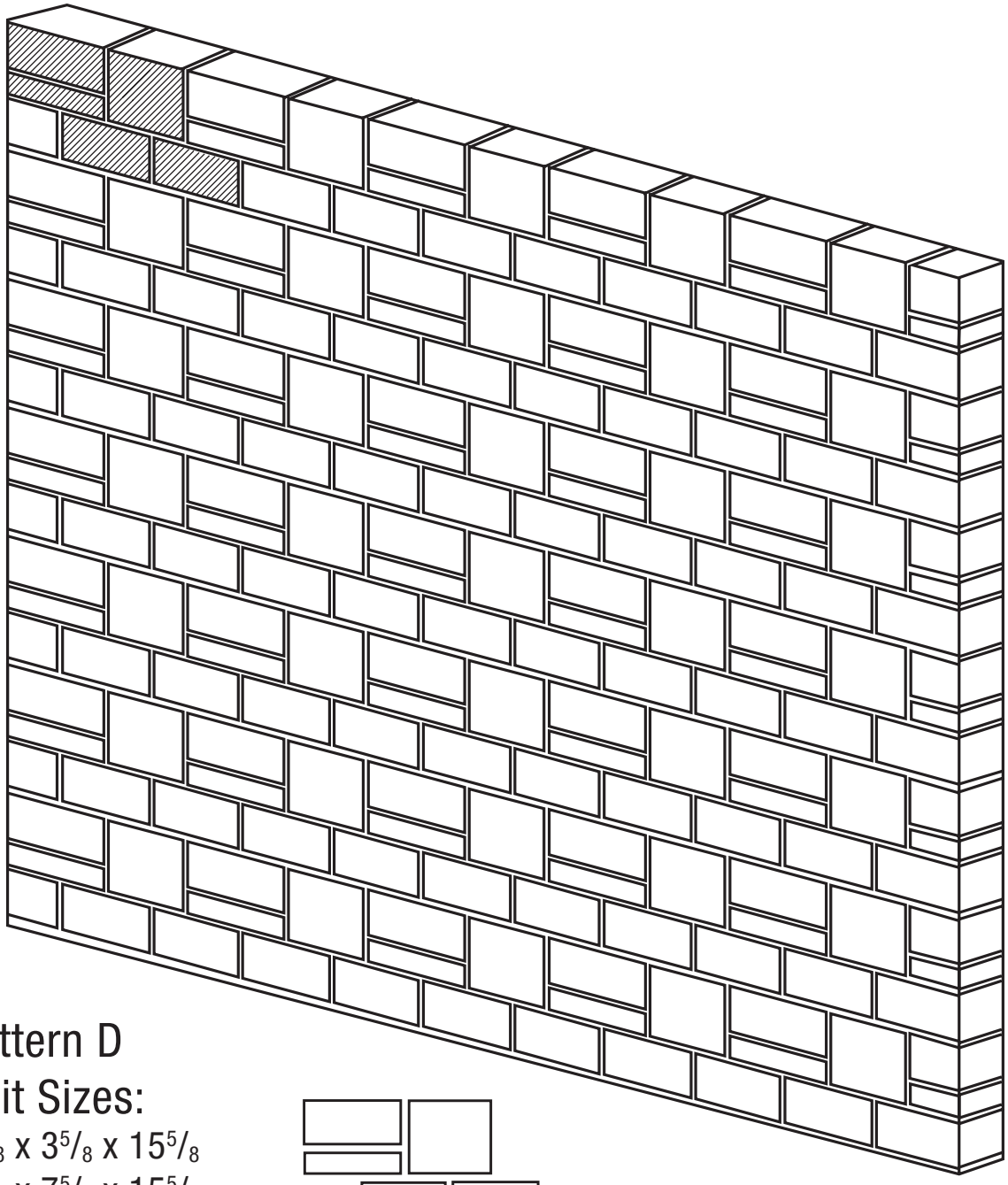
Unit Sizes:

$3^5/_8$ x $3^5/_8$ x $15^5/_8$

$3^5/_8$ x $7^5/_8$ x $15^5/_8$

This pattern can also be made using 6, 8, or 12 inch units in Rockface, Mammoth Stone™, Travertina™, Ultra-Fine, or Burnished CMU's. This pattern can also be used with 8 inch Stone Mason™ units.

PATTERNED ASHLAR BOND
MAMMOTH STONE™ SERIES



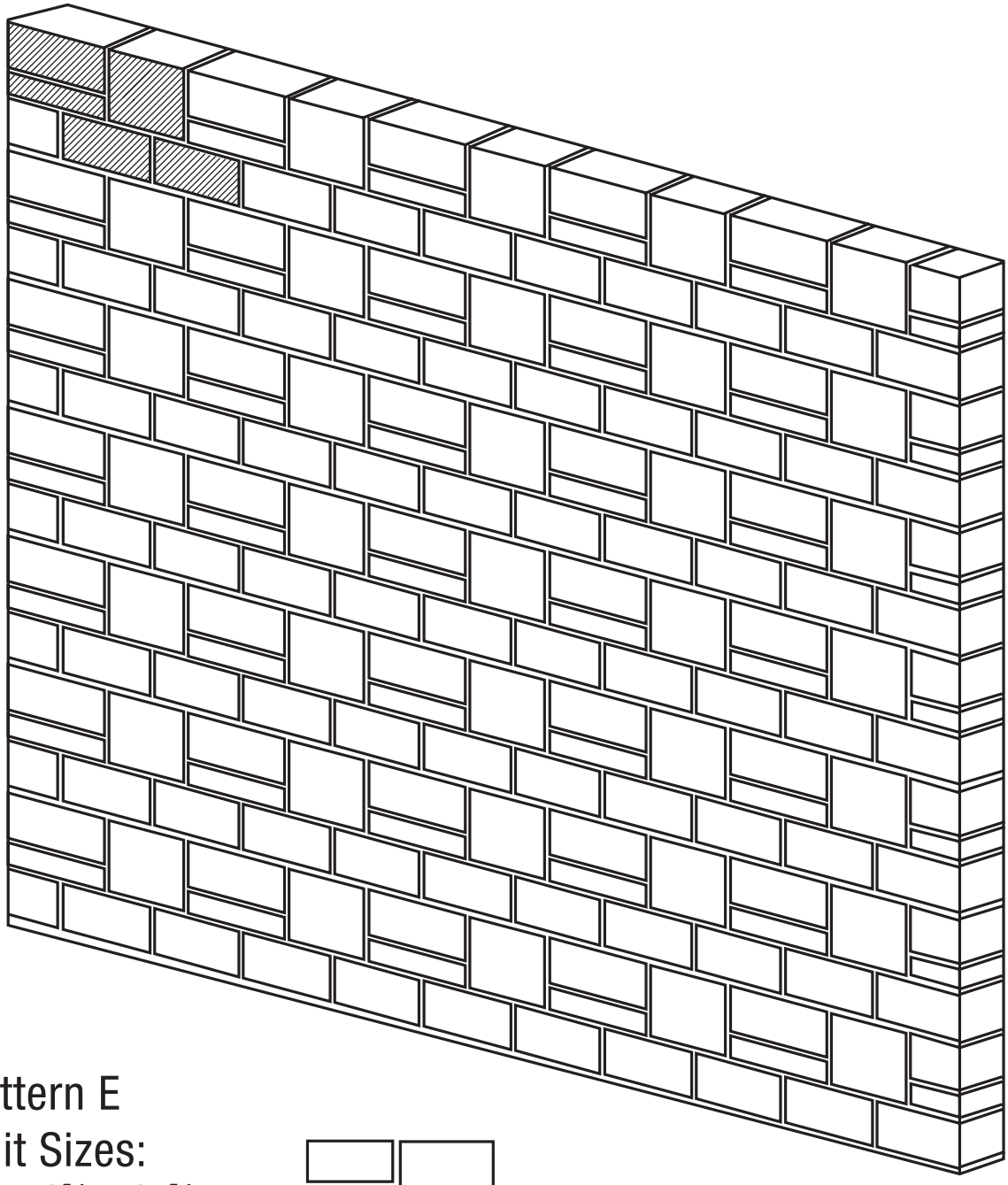
Pattern D

Unit Sizes:

$3^5/_8$ x $3^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $15^5/_8$
$3^5/_8$ x $11^5/_8$ x $15^5/_8$

This pattern can also be made using 6, 8, or 12 inch units in Rockface, Mammoth Stone™, Travertina™, Ultra-Fine, or Burnished CMU's.

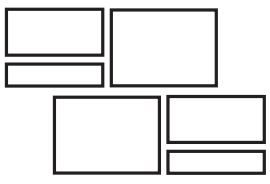
PATTERNED ASHLAR BOND
MAMMOTH STONE™ SERIES



Pattern E

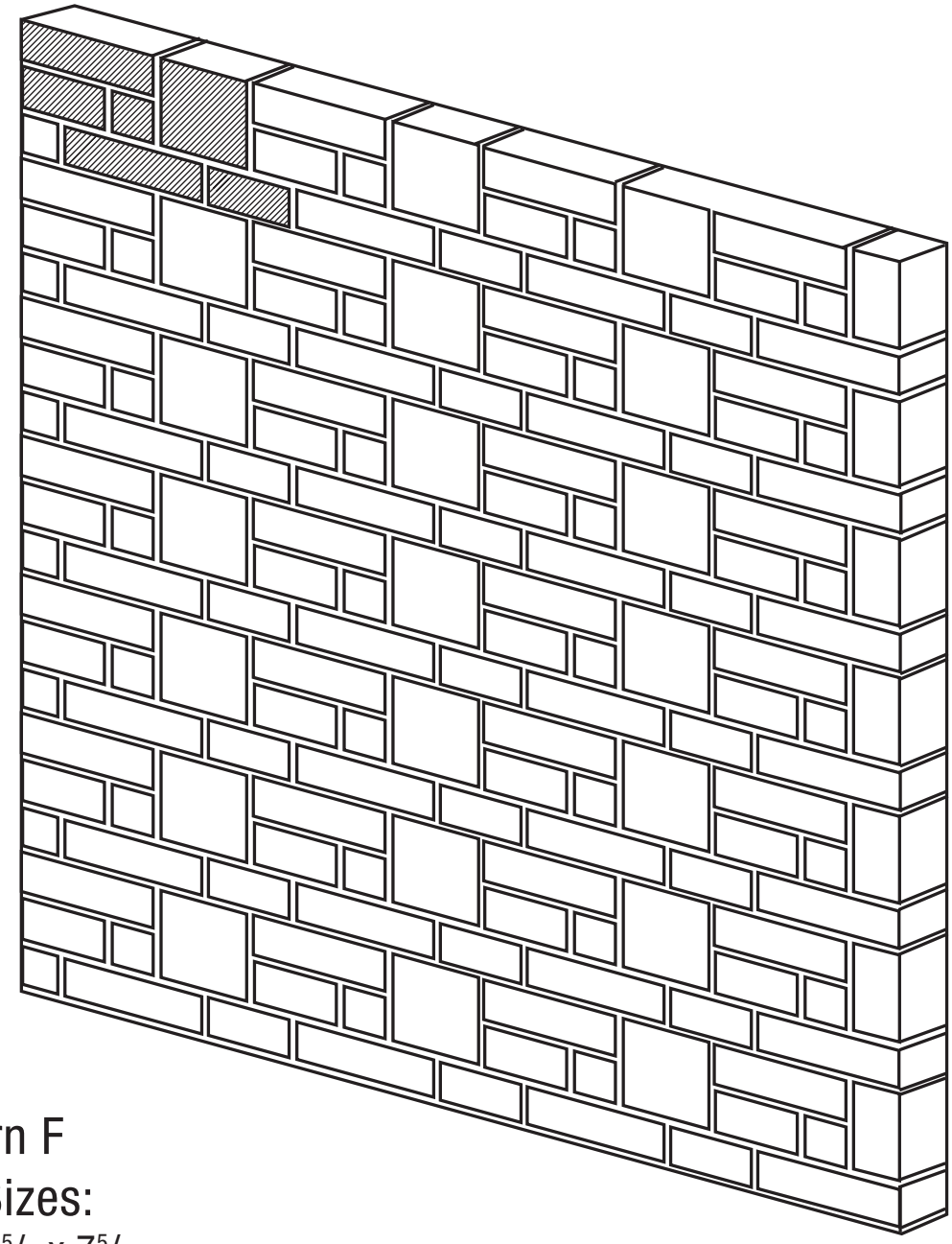
Unit Sizes:

$3^5/_8$ x $3^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $15^5/_8$
$3^5/_8$ x $11^5/_8$ x $15^5/_8$



This pattern can also be made using 6, 8, or 12 inch units in Rockface, Mammoth Stone™, Travertina™, Ultra-Fine, or Burnished CMU's.

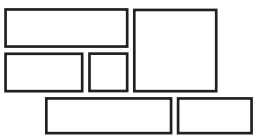
PATTERNED ASHLAR BOND
MAMMOTH STONE™ SERIES



Pattern F

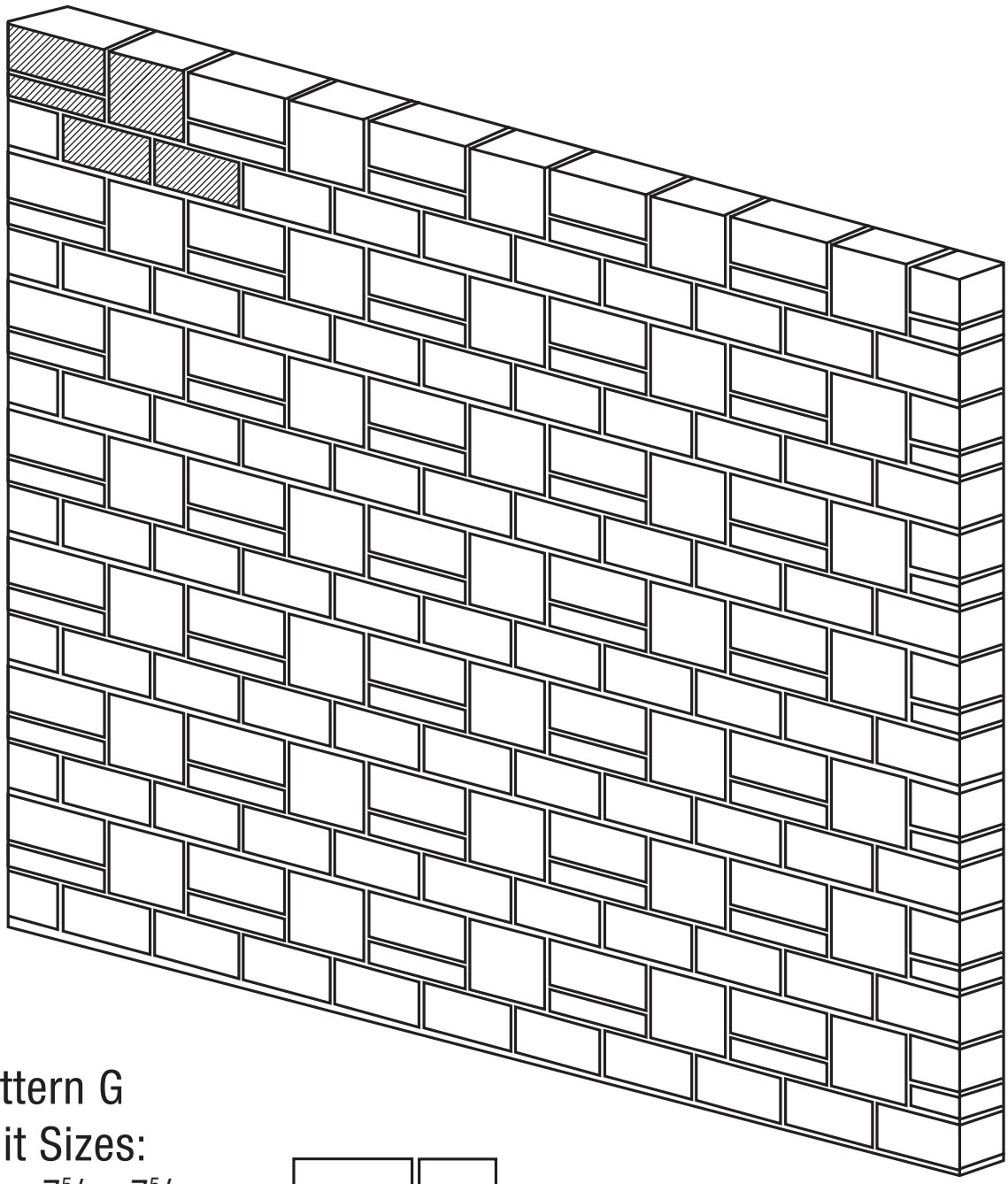
Unit Sizes:

$3^5/_8$ x $7^5/_8$ x $7^5/_8$
$3^5/_8$ x $7^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $23^5/_8$
$3^5/_8$ x $15^5/_8$ x $15^5/_8$



This pattern can also be made using 6, 8, or 12 inch units in Rockface, Mammoth Stone™, Travertina™, Ultra-Fine, or Burnished CMU's.

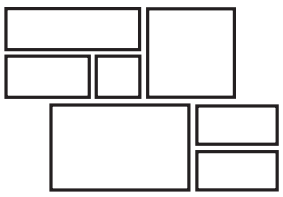
PATTERNED ASHLAR BOND
MAMMOTH STONE™ SERIES



Pattern G

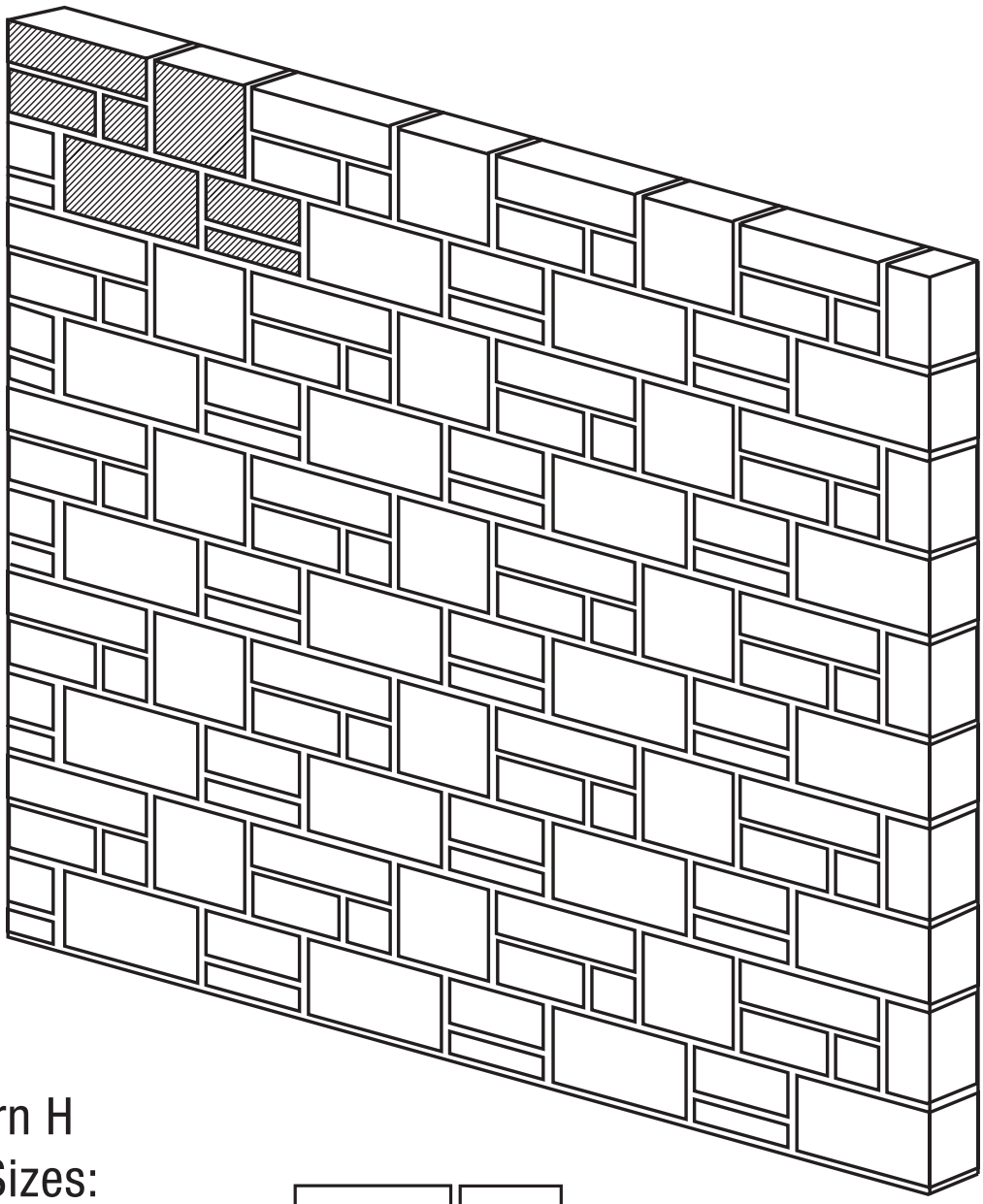
Unit Sizes:

$3^5/_8$ x $7^5/_8$ x $7^5/_8$
$3^5/_8$ x $7^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $23^5/_8$
$3^5/_8$ x $15^5/_8$ x $15^5/_8$
*$3^5/_8$ x $15^5/_8$ x $23^5/_8$



This pattern can also be made using 6, 8, or 12 inch units in Rockface, Mammoth Stone™, Travertina™, Ultra-Fine, or Burnished CMU's.

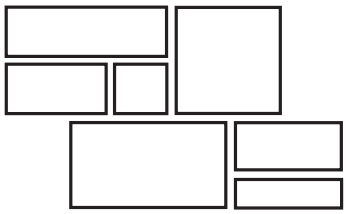
PATTERNED ASHLAR BOND
MAMMOTH STONE™ SERIES



Pattern H

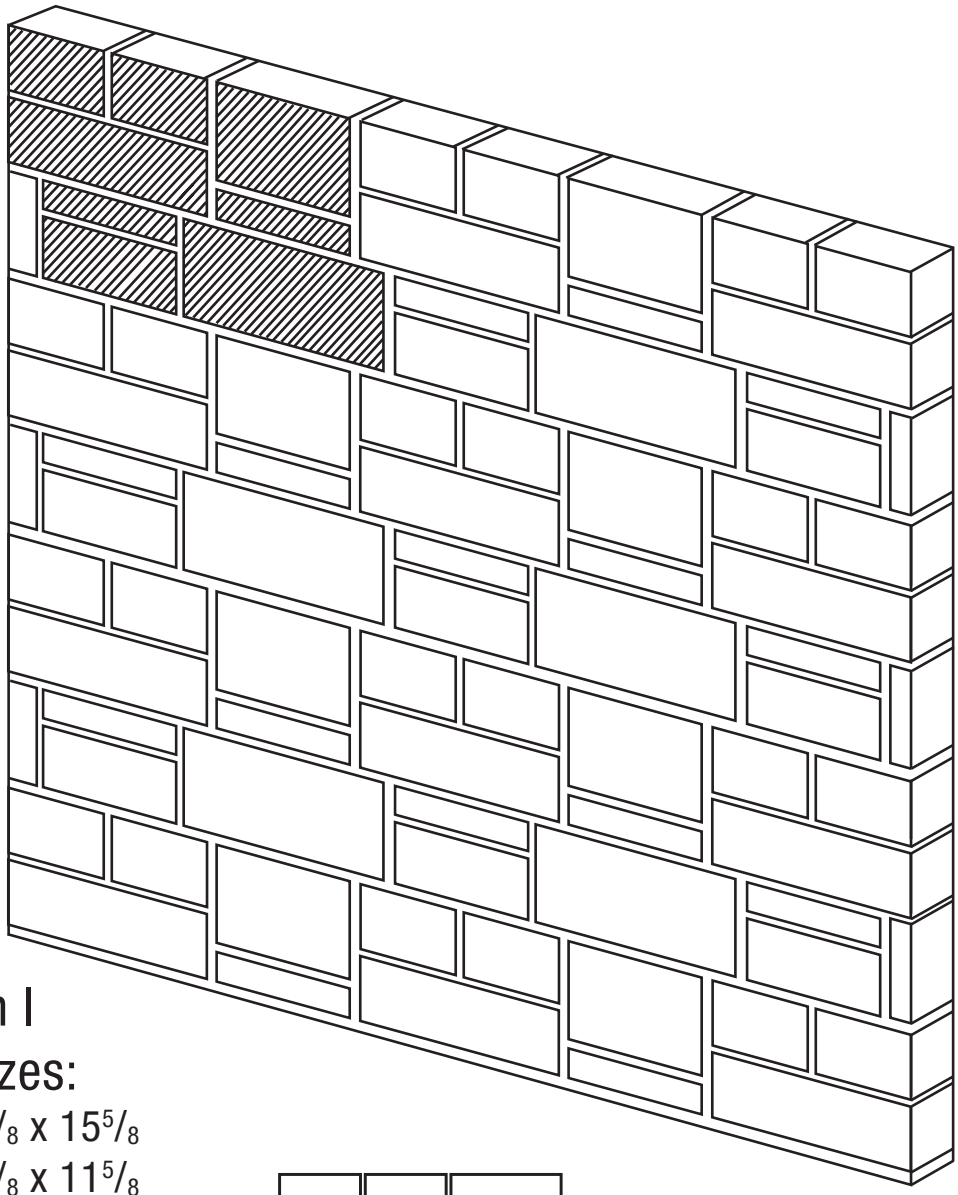
Unit Sizes:

$3^5/_8$ x $3^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $7^5/_8$
$3^5/_8$ x $7^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $23^5/_8$
$3^5/_8$ x $11^5/_8$ x $23^5/_8$
$3^5/_8$ x $15^5/_8$ x $15^5/_8$



This pattern can also be made using 6, 8, or 12 inch units in Rockface, Mammoth Stone™, Travertina™, Ultra-Fine, or Burnished CMU's.

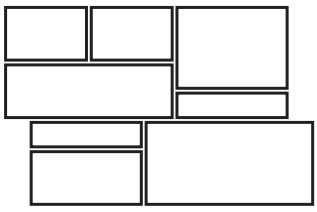
PATTERNED ASHLAR BOND
MAMMOTH STONE™ SERIES



Pattern I

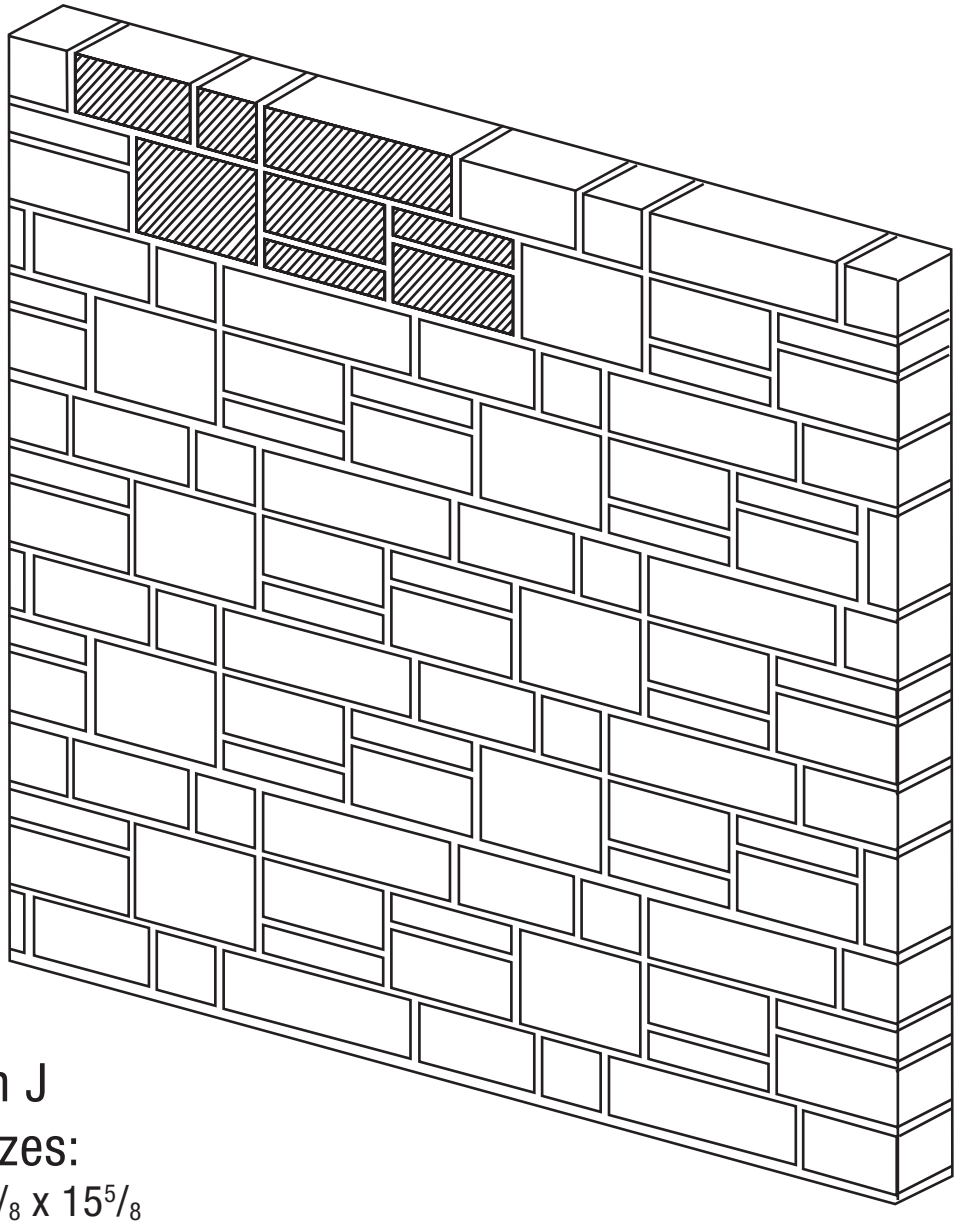
Unit Sizes:

$3^5/_8$ x $3^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $11^5/_8$
$3^5/_8$ x $7^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $23^5/_8$
$3^5/_8$ x $11^5/_8$ x $15^5/_8$
$3^5/_8$ x $11^5/_8$ x $23^5/_8$



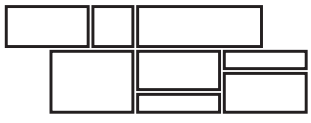
This pattern can also be made using 6, 8, or 12 inch units in Rockface, Mammoth Stone™, Travertina™, Ultra-Fine, or Burnished CMU's.

PATTERNED ASHLAR BOND
MAMMOTH STONE™ SERIES



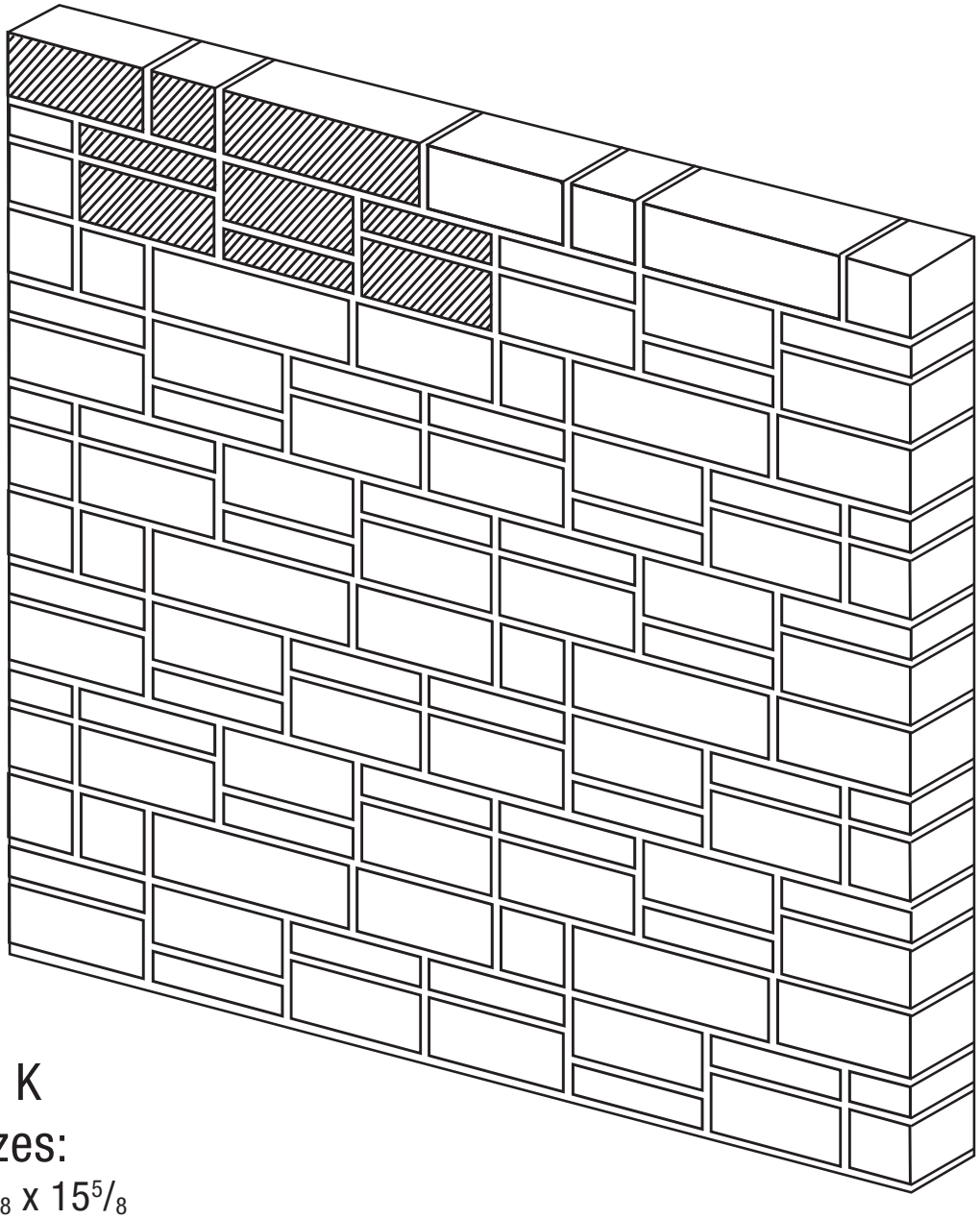
Pattern J
Unit Sizes:

$3^5/_8$ x $3^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $7^5/_8$
$3^5/_8$ x $7^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $23^5/_8$
$3^5/_8$ x $11^5/_8$ x $15^5/_8$



This pattern can also be made using 6, 8, or 12 inch units in Rockface, Mammoth Stone™, Travertina™, Ultra-Fine, or Burnished CMU's.

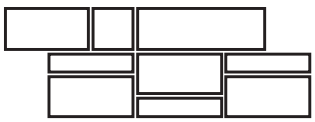
PATTERNED ASHLAR BOND
MAMMOTH STONE™ SERIES



Pattern K

Unit Sizes:

$3^5/_8$ x $3^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $7^5/_8$
$3^5/_8$ x $7^5/_8$ x $15^5/_8$
$3^5/_8$ x $7^5/_8$ x $23^5/_8$



This pattern can also be made using 6, 8, or 12 inch units in Rockface, Mammoth Stone™, Travertina™, Ultra-Fine, or Burnished CMU's.

PRODUCT GLOSSARY

ALLAN BLOCK® FENCE SYSTEMS

The patented Allan Block Fence System is an attractive an economical choice for privacy, commercial containment, and noise barrier applications. Allan Block Fence Systems are available in a range of attractive colors.

BURNISHED CMU

For load–bearing or veneer applications, the natural beauty of exposed, ground aggregate in Amcon's burnished CMUs make them and excellent choice where smart appearance and durability are important.

CMU

Concrete Masonry Unit (CMU) is a concrete block manufactured on a block machine to standardized sizes and used in building construction. Available in a wide variety of shapes, colors, textures, and sizes for flexibility in architectural design.

ENVIROTROL™

Amcon's EnviroTrol curing system incorporates numerous cycles of high temperature, steam, and carbon dioxide (CO2) to aggressively accelerate the hydration process. The results are architectural units which are dry, color consistent, resistant to carbonation shrinkage, and have a greatly–reduced efflorescence potential when compared to conventionally cured CMUs.

LEDGEROCK®

Amcon's own Commercial Retaining Wall System (or "Big Block") composed of large–format, interconnecting, precast block which allows users to build taller, stronger walls. The faces are molded uniquely for Amcon from actual native Midwestern stone and can be stained with solid or blended colors after installation.

MAMMOTH STONE® SERIES

Use separately or combine shapes in this innovative product line to simulate natural stone with ashlar patterns to create a signature look on your next project. This veneer–depth family of shapes is available in either a rockface or burnished finish in any of the Amcon colors.

NOVABRIK®

A self–ventilated mortarless concrete brick siding system, Novabrik is ideal for residential or commercial retrofit or new construction. Ideal for cold weather installation because no heat and cover are required! Available in a wide variety of attractive colors.

ROCKFACE CMU

For load–bearing or veneer applications, the full face split of Amcon's rockface CMUs are available in a wide range of sizes and colors with a variety of fittings and accent pieces.

PRODUCT GLOSSARY

SPEC–BRIK®

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

SPEC–FINISH®

Amcon Concrete Products and the Concrete Products group have partnered with Tnemec Coatings and ACM Chemistries Inc. to introduce the first true High Performance Coated Concrete Masonry Wall System on the market today.

SRW

Segmental Retaining Wall units are manufactured on a block machine to standardized sizes and used to retain earth for vertical grade changes and be constructed into a gravity wall (usually limited by height) or reinforced soil walls (for taller walls). Amcon offers a variety of options including Allan Block®, Keystone®, and LedgeRock®.

STONE MASON™ SERIES

Experience the timeless appearance and texture of authentic, hand–dressed, natural stone with the strength and economy of a CMU. The Stone Mason Series is available in either an 8” full depth unit or in a 4 piece random pattern veneer system and is ideal for communities with “brick or better” requirements.

SUSTAINABLE SOLUTIONS

Amcon's Sustainable Solutions CMU mix designs are a proprietary blend of recycled materials used as a partial replacement for ordinary portland cement (OPC) and virgin sand aggregates (50% pre–consumer waste content) which are perfect for any project including LEED and projects incorporating Minnesota Sustainability Guidelines. These mix designs are available in most Amcon products.

TRAVERTINA™ SERIES

Features a unique, multi–dimensional burnished, recessed facial texture similar to natural travertine stone, but with the economy of a CMU.

ULTRA–FINE FINISH

Contains a finer aggregate and more cement, along with premium–graded sands to create a smoother, fin–er, more satin–like texture on smooth–face architectural CMUs. Ultra–Fine Finish is available in any of the smooth–face shapes, including structural units, sills, and our Mammoth Stone® Series.

FEATURED PRODUCT:
SPEC-THERMAL® KORFIL HI-R H

SPEC-THERMAL®

PRE–INSULATED MASONRY

High Performance Pre-Insulated Masonry

The ***Hi-R H Wall System*** is a specially designed concrete masonry unit and individually molded insulation insert that provide industry best thermal performance in compliance with prevailing Codes and Standards. The ***Hi-R H*** Masonry Unit has been designed to provide reduced thermal bridging even more than prior Hi-R designs. The block and the insulation are combined at the block manufacturing plant prior to delivery to the job site. The assembly provides a wall system capable of achieving higher thermal R-values than conventional masonry, while providing full Code-based load resistance. A Structural Design Guide is available upon request.

Insulation Inserts

Hi-R H Inserts are made by **Concrete Block Insulating Systems, Inc.** from flame-retardant treated expandable polystyrene. Like all foamed plastics, good fire procedures must be followed during storage and installation. Inserts give off no toxic products of combustion, except carbon monoxide and carbon dioxide, concentrations of which are far less than those given off by equal volumes of more dense building construction products. Expandable polystyrene contains no fluorocarbons and no formaldehyde.

Masonry Units

Hi-R H Masonry Units are available in precision faced and architectural decorative faced units. Units are available in 12 inch widths with nominal 8 inch x 16 inch face dimensions. Check for availability in your region.

Applicable Standards

- ASTM C 578, Type X, replacing Federal Specifications HH-I-524C. Specification for Rigid Cellular Polystyrene Thermal Insulation.
- ASTM C 90 Standard Specification for Load-bearing Concrete Masonry Units.

THERMAL PROPERTIES:

The Values below are for Pre-insulated Hi-R H Masonry Units. The Thermal Properties tables show the thermal resistance **(R_t)**, including inside and outside air surface resistances of 0.68 and 0.17 h*ft2-°F/BTU, respectively, and the U-Factors for the various densities of concrete masonry units indicated. U-Factors are based on conventional 3/8" Mortar Joint Construction. U-Factor units are Btu/hr/sqft/Deg.F. The results below are calculated based on the results of a third party thermal analysis that was completed making use of the Hot Box Test Data from three accredited laboratory services. A complete Engineering Report dated November 20, 1996, including Addendum Added Nov. 1, 2002, is available upon request. It covers the thermal values of the Hi-R Masonry Wall System.

12" Wide Hi-R H Wall System						
Density of Block lb/ft^3	Wall Type 1*		Wall Type 2**		Wall Type 3***	
	R_t	U	R_t	U	R_t	U
80	**18.417**	**0.054**	**19.82**	**0.050**	**21.247**	**0.047**
95	**16.337**	**0.061**	**17.74**	**0.056**	**19.167**	**0.052**
100	**15.647**	**0.064**	**17.05**	**0.059**	**18.477**	**0.054**
110	**14.297**	**0.070**	**15.70**	**0.064**	**17.127**	**0.058**
120	**12.987**	**0.077**	**14.39**	**0.070**	**15.817**	**0.063**
125	**12.347**	**0.081**	**13.75**	**0.073**	**15.177**	**0.066**
135	**11.137**	**0.090**	**12.54**	**0.080**	**13.967**	**0.072**

12" Wide Cavity Wall with 4" Dense Outer Wyth; ¾" Air Space and 8"Hi-R H Wall System						
Density of Block lb/ft^3	Wall Type 1*		Wall Type 2**		Wall Type 3***	
	R_t	U	R_t	U	R_t	U
80	**15.88**	**0.063**	**17.28**	**0.058**	**18.71**	**0.053**
95	**13.90**	**0.072**	**15.30**	**0.065**	**16.73**	**0.060**
100	**13.26**	**0.075**	**14.66**	**0.068**	**16.09**	**0.062**
110	**12.04**	**0.083**	**13.44**	**0.074**	**14.87**	**0.067**
120	**10.89**	**0.092**	**12.29**	**0.081**	**13.72**	**0.073**
125	**10.35**	**0.097**	**11.75**	**0.085**	**13.18**	**0.076**
135	**9.34**	**0.107**	**10.74**	**0.093**	**12.17**	**0.082**

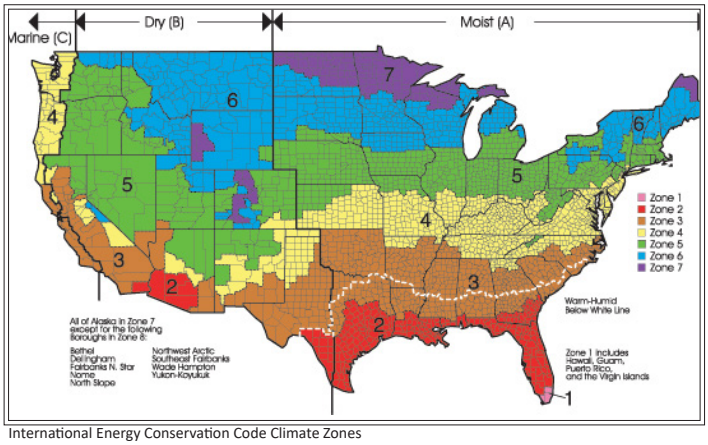
* Wall Type 1: Hi-R H Wall System only; **Hi R H Units with fully grouted cells** (125 lb./ft^3 density grout).

** Wall Type 2: Hi-R H Wall System, **Hi R H Units with fully grouted cells** (125 lb./ft^3 density grout)**;** 1/2 inch gypsum board on furring strips.

*** Wall Type 3: Hi-R H Wall System, **Hi R H Units with fully grouted cells** (125 lb./ft^3 density grout)**;** 1/2 inch foil-backed gypsum board on furring strips.

The Two-Piece CBIS Korfil Hi-R H inserts form a lap joint with adjacent inserts, both above and below and from side to side, for maximum insulation efficiency.

Please visit:
www.amconconcreteproducts.com
or
www.concreteproductsgroup.com
for design and construction resources including CAD details, design and construction videos and structural design guidance



International Energy Conservation Code Climate Zones

The Hi-R H Wall System allows the construction of single wythe masonry walls that meet the stringent R-Value requirements of the 2015 IECC in all climate zones

MAXIMUM U-FACTORS FOR COMMERCIAL MASS WALLS PRESCRIPTIVE REQUIREMENTS (2015 IECC)		
	All Other	Group R
Zone 1	U-0.151	U-0.151
Zone 2	U-0.151	U-0.123
Zone 3	U-0.123	U-0.104
Zone 4 (except Marine)	U-0.104	U-0.090
Zone 5 (& Marine 4)	U-0.090	U-0.080
Zone 6	U-0.80	U-0.071
Zone 7	U-0.071	U-0.061
Zone 8	U-0.061	U-0.061

IECC (2015): Section C402 BUILDING ENVELOPE REQUIREMENTS and Table 402.1. BUILDING ENVELOPE REQUIREMENTS OPAQUE ELEMENT, MAXIMUM U-FACTORS.

Hi-R H units are suitable for construction of bond beams without the need for any modifications to the units and the insulation inserts remain fully in place

Insulated corners are built using conventional masonry fittings and Hi-R H units

LOCATIONS

Corporate Headquarters: 2025 Centre Pointe Blvd, Mendota Heights, MN 55120
Corporate Phone: 651–688–9116
www.amconconcreteproducts.com

Mendota Heights, MN
Corporate Office

Fergus Falls, MN
Gray Block
Architectural Block

Waite Park, MN
Precast Products

Annandale, MN
Precast & Gray Block

Rapid City, SD (TCC)
Hardscape Products
Architectural Block
& Gray Block

Harrisburg, SD
Hardscape Products
Gray Block
Architectural Block

Medford, MN
Gray Block
Architectural Block

St. Joseph, MN
Hardscape Products
Precast Products
Gray Block

St. Cloud, MN
Gray Block
Architectural Block

New London, MN
Hardscape Products
Gray Block
Architectural Block

Amcon Concrete Products Supports and is a Proud Member of the following Associations:

MCAA Mason Contractors Association of America
CSI Building Knowledge Improving Project Delivery
CMBA
Concrete Products Group – Innovative Concrete Masonry Systems
National NCMA Concrete Masonry Association
BAM
MN Concrete & Masonry MC& MCA Contractors Association
AIA
NAHB National Association of Home Builders
MNLA Minnesota Nursery & Landscape Association

Rev 4.22