



STACKSTONE®



FIRE PITS



PLANTERS



RETAINING WALLS



Available in three wall block sizes and two cap sizes accompanied by 90° corner units.

Combine multiple sizes of StackStone® to create intricate Ashlar, repeating or random patterns. Each size utilizes a unique, beveled shape that allows you to easily build curved and straight walls. Columns can be created by using the corner units.

StackStone uses a tongue and groove connection system. It is ideal for raised garden beds, tree rings, planters and short patio walls up to 2' tall.

Minimum radius using 4" x 8" units is approx. 1' 9". Minimum radius using 4" x 12" units is approx. 2' 11". StackStone Ashlar shapes are palletized and sold separately.

PRODUCT DATA*

	Coverage*	Units / Pallet	Coverage* / Pallet	Weight / Piece*	Weight / Pallet
4 x 8 Wall Unit	4.5 pcs / ft ² (48.44 pcs / m ²)	168	37.33 ft ² (3.47 m ²)	18 lb (8.6 kg)	3,242 lb (1,470 kg)
4 x 8 Cap Unit	1.6 pcs / ln ft (4.92 pcs / ln m)	168	122 ln ft (34.14 ln m)	18 lb (8.6 kg)	3,242 lb (1,470 kg)
4 x 12 Unit	3 pc / ft ² (32.3 pc / m ²)	126	42 ft ² (3.9 m ²)	26 lb / pc (11.8 kg / pc)	3,276 lb (1,487 kg)
4 x 12 Cap Unit	1 pc / ln ft (32.28 pc / ln m)	126	126 ln ft (38.4 ln m)	26 lb / pc (11.8 kg / pc)	3,276 lb (1,487 kg)
8 x 8 Jumbo Unit	2.25 pc / ft ² (24.22 pc / m ²)	96	42.67 ft ² (3.96 m ²)	32 lb / pc (14.5 kg / pc)	3,072 lb (1,392 kg)

	Coverage* / Pallet	Units / Pallet	Weight / Piece*	Weight / Pallet
90° Corner Unit	44 ft ² (4.08 m ²)	144	24 lb / pc (10.89 kg / pc)	3,456 lb (1,567.6 kg)

All **Weight per Pallet** noted above include a 50 lb pallet weight.

Maximum wall height: 2'.

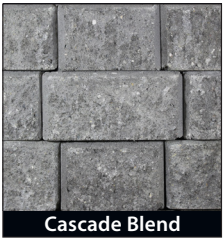
* For walls built by alternating 6" and 8" faces, there are 54.9 pcs / m² (5.1 pc / ft²) and 3.06 m² (32.94 ft²) per pallet.
For walls built by alternating 6" and 8" faces, there are 5.6 pc / ln m (1.7 pc / ln ft) and 30.11 ln m (98.8 ln ft) per pallet.

MagnumStone is manufactured to meet or exceed the requirements in ASTM C-1776.

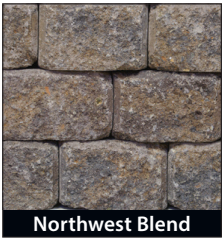
Standard Specification for Wetcast Modular Retaining Wall Units

AVAILABLE COLORS

For more information regarding custom colors, please contact a Mutual Materials sales representative. Custom colors may be restricted by the size of the order or project.



Cascade Blend



Northwest Blend

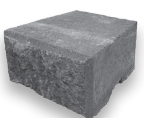


Summit Blend

4 x 8 Wall Unit
4" x 8" x (8" or 6" face)
10 cm x 20 cm x (20 cm or 15 cm)



4 x 8 Cap Unit
4" x 8" x (8" or 6" face)
10 cm x 20 cm x (20 cm or 15 cm)



4 x 12 Unit
4" x 8" x (12" or 10" face)
10 cm x 20 cm x (30 cm or 25 cm)



4 x 12 Cap Unit
4" x 8" x (12" or 10" face)
10 cm x 20 cm x (30 cm or 25 cm)



8 x 8 Jumbo Unit
8" x 8" x (8" or 6" face)
20 cm x 20 cm x (20 cm or 15 cm)



90° Corner Unit
4" x 8" x (11" or 6" face)
10 cm x 20 cm x (28 cm or 15 cm)



PROJECT ESTIMATION

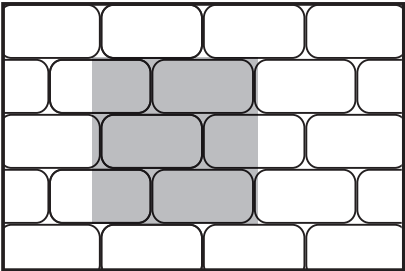
Max Height = 2' 0"		Wall Length			
		8" Faces		Alternating 8" & 6" Faces	
		10 ft	25 ft	10 ft	25 ft
Wall Height	Courses				
8"	2	30	75	34	85
1' 0"	3	45	113	51	128
1' 4"	4	60	150	68	170
1' 8"	5	75	188	85	213
Caps Needed	Top Course	15	38	17	43

Max Height = 2' 0"		Wall Length			
		12" Faces		Alternating 12" & 10" Faces	
		10 ft	25 ft	10 ft	25 ft
Wall Height	Courses				
8"	2	20	50	22	55
1' 0"	3	30	75	33	82
1' 4"	4	40	100	44	109
1' 8"	5	50	125	55	137
Caps Needed	Top Course	10	38	17	43

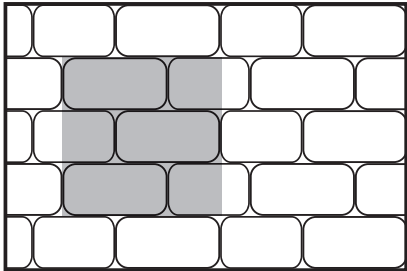
StackStone®'s three basic shapes may be combined to produce unlimited patterns. StackStone units can be used as a system or installed separately to give additional patterning options. Following, are some of those options.

STANDARD INSTALLATION PATTERNS

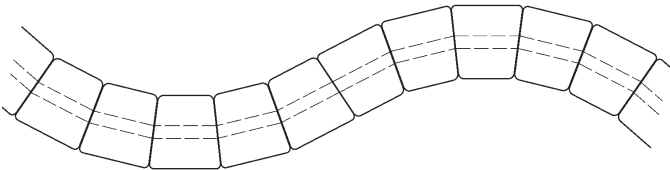
4 x 8 Units



8" Faces
(4.5 units / ft²)



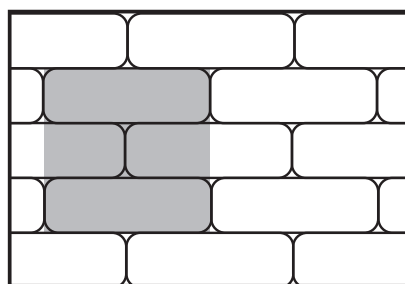
Alternating 6" & 8" Faces
(5.1 units / ft²)



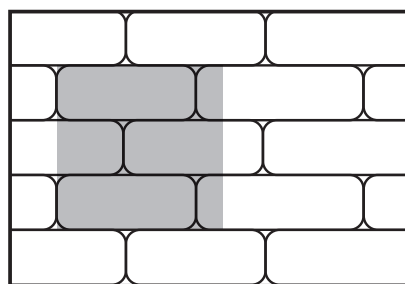
4 x 8 Units - Curved Wall Using 6" & 8" Faces
(can also be done with 8 x 8 and 4 x 12 units)

STANDARD INSTALLATION PATTERNS *(Continued)*

4 x 12 Units

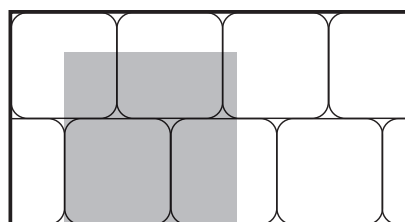


12" Faces
(3 units / ft²)

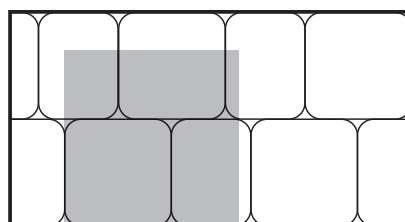


Alternating 10" & 12" Faces
(3.27 units / ft²)

8 x 8 Units



8" Faces
(2.25 units / ft²)



Alternating 6" & 8" Faces
(2.57 units / ft²)

SAMPLE ASHLAR INSTALLATION PATTERNS

Choose from one of the patterns shown here, or create a pattern of your own.

Unit quantities shown are estimates only and do not take into account cut units. You may wish to purchase a few extra pieces of each size to allow for cutting units.

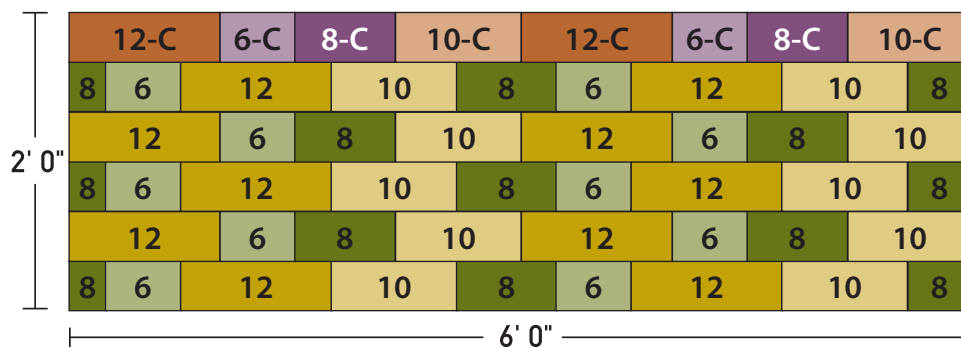
UNIT KEY:

-  4 x 8 Unit - 8" Face
-  4 x 8 Unit - 6" Face
-  4 x 12 Unit - 12" Face
-  4 x 12 Unit - 10" Face
-  4 x 8 Cap - 8" Face Cap
-  4 x 8 Cap - 6" Face Cap
-  4 x 12 Cap - 12" Face
-  4 x 12 Cap - 10" Face
-  8 x 8 Jumbo Unit
-  Right-Hand 90° Corner Unit*
-  Left-Hand 90° Corner Unit*

PATTERN #1A - Repeats every 3' 0" for free-standing wall

These are sample patterns only. For detailed help with your project, consult a Mutual Materials Representative.

	WALL LENGTH (height is 2' 0")					
	3'	6'	9'	15'	21'	33'
4 x 8 Unit	10	20	30	50	70	110
4 x 12 Unit	10	20	30	50	70	110
4 x 8 Cap	2	4	6	10	14	22
4 x 12 Cap	2	4	6	10	14	22



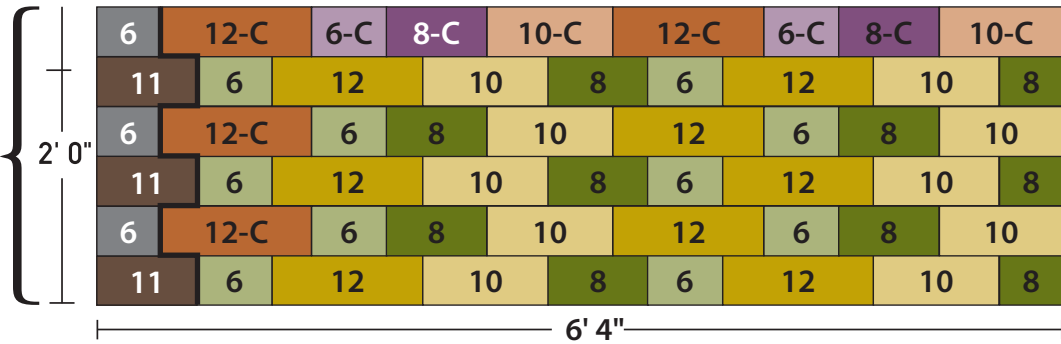
* Place one additional cap block adjacent to the short side of the 90-corner blocks

PATTERN #1B - Repeats every 3' 0" for free-standing wall

90° corner units may be split along score to reveal three split faces.
These split corner units can be used to start/stop a wall.

	WALL LENGTH (height is 2' 0")					
	3'	6'	9'	15'	21'	33'
4 x 8 Unit	10	20	30	50	70	110
4 x 12 Unit	10	20	30	50	70	110
4 x 8 Cap	2	4	6	10	14	22
4 x 12 Cap	2	4	6	10	14	22
90° Corner Unit	1 Per Course Per 90° Corner					
90° Corner Unit	1 Per Course to Start/Stop Wall					

The end sizes (11/6) represent 90° corner units.



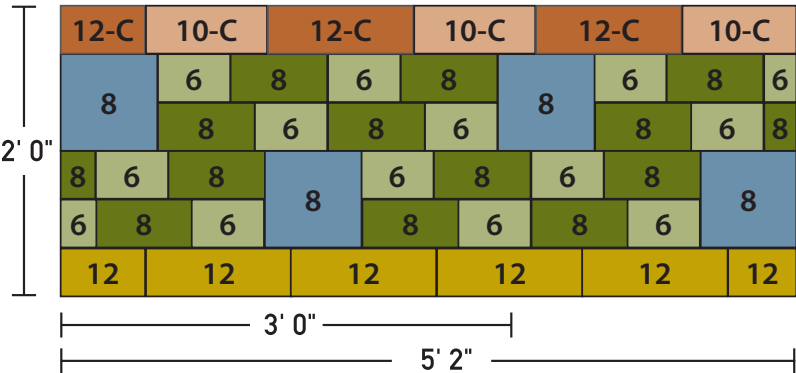
PATTERN #2 - Repeats every 3' 0" for retaining wall

These are sample patterns only. For detailed help with your project, consult a Mutual Materials Representative.

UNIT KEY:

- 8 4 x 8 Unit - 8" Face
- 6 4 x 8 Unit - 6" Face
- 12 4 x 12 Unit - 12" Face
- 10 4 x 12 Unit - 10" Face
- 8-C 4 x 8 Cap - 8" Face Cap
- 6-C 4 x 8 Cap - 6" Face Cap
- 12-C 4 x 12 Cap - 12" Face
- 10-C 4 x 12 Cap - 10" Face
- 8 8 x 8 Jumbo Unit
- Right-Hand 90° Corner Unit
- Left-Hand 90° Corner Unit

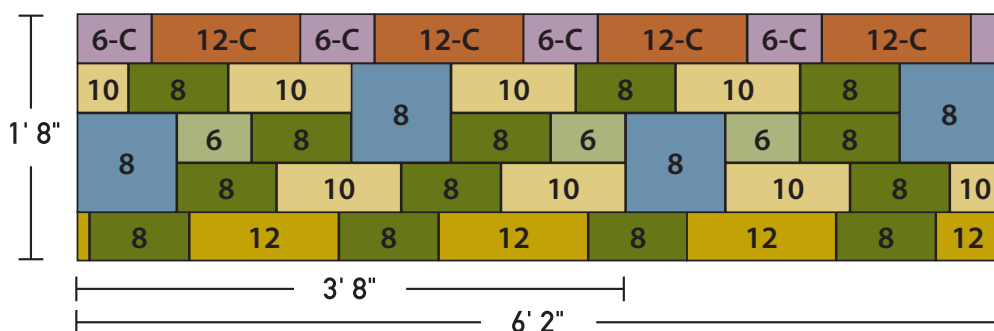
	WALL LENGTH (height is 2' 0")							
	3'	6'	9'	12'	18'	24'	30'	36'
4 x 8 Unit	18	36	54	72	108	144	180	216
4 x 12 Unit	3	6	9	12	48	24	30	36
8 x 8 Jumbo	2	4	6	8	12	16	20	24
4 x 12 Cap	4	8	12	14	20	27	33	40



These are sample patterns only. For detailed help with your project, consult a Mutual Materials Representative.

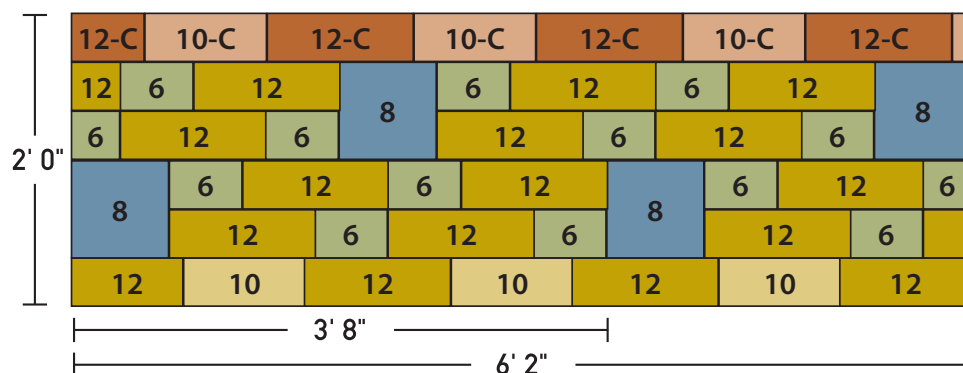
	4 x 8 Unit - 8" Face
	4 x 8 Unit - 6" Face
	4 x 12 Unit - 12" Face
	4 x 12 Unit - 10" Face
	4 x 12 Cap - 12" Face
	4 x 12 Cap - 10" Face
	8 x 8 Jumbo Unit
	Right-Hand 90° Corner Unit
	Left-Hand 90° Corner Unit

	WALL LENGTH (height is 1' 8")					
	3' 8"	7' 4"	11'	22'	29' 4"	36' 8"
4 x 8 Unit	11	22	33	64	88	110
4 x 12 Unit	7	14	21	42	56	70
8 x 8 Jumbo	2	4	6	12	16	20
4 x 8 Cap	3	6	9	18	24	30
4 x 12 Cap	3	6	9	18	24	30



These are sample patterns only. For detailed help with your project, consult a Mutual Materials Representative.

	WALL LENGTH (height is 2' 0")					
	3' 8"	7' 4"	11'	22'	29' 4"	36' 8"
4 x 8 Unit	8	17	25	50	67	84
4 x 12 Unit	12	25	37	74	99	124
8 x 8 Jumbo	2	4	6	12	16	20
4 x 12 Cap	3	6	9	18	24	30

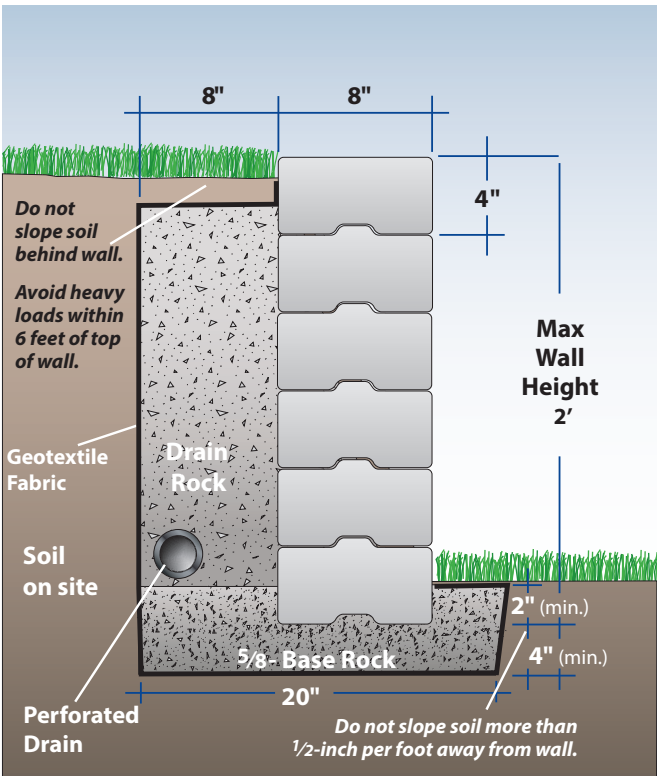


INSTALLATION INSTRUCTIONS

Due to the complexity of StackStone®/StackStone Ashlar installation, Mutual Materials recommends you consult a Mutual Materials representative before beginning your StackStone/StackStone Ashlar project.

Maximum height: 2'

- 1. Excavation:** First mark the area of the wall with chalk or spray paint and then string a line. Dig out a trench that is a minimum of 6" (152 mm) deep plus one inch for every foot of wall height. Allow 8" (200 mm) of space behind the wall for ¾" washed drain rock (this means your trench should be 20" wide). Roots and large rocks should be removed from the trench.
 - 2. Base Preparation:** The project requires a perforated drain, so cover the back and the bottom of the trench with a geotextile fabric to prevent soil from blocking the drainage system. Measure geotextile fabric with excess length of about 12" (305 mm) at the top of the bank, which will be folded over the completed drainage fill.
 - 3. Foundation:** Install a 4" (102 mm) diameter perforated drain in this foundation, and connect it to the existing drainage system. Next, prepare a 4" (102 mm) deep foundation, with ⅝ minus or ¾ minus crushed rock. Add 1"-2" of ⅝ minus or ¾ minus crushed rock, rake smooth and compact with plate compactor. Base rock should have a certain amount of moisture content. Repeat steps until final 4" base elevation is achieved.
 - 4. First Course:** Lay the base course of retaining wall blocks. Using a string line at the back of the units for alignment, place units side by side on the gravel checking for level in both directions. Begin laying block at the lowest point of the wall and/or 90° corner. It is easier to start at a straight section of the wall. Complete the base course before proceeding to the second course. When curves are laid out, space the base course block slightly apart to allow for their set back.
- NOTE:** Before installing additional courses, it is recommended that the installer front fills and backfills the first course with base rock and compacts to ensure stability of the wall.
- 5. Second & Additional Courses:** Sweep top of underlying course and stack next course in running bond pattern so the middle of the unit is above the joint between adjacent blocks below. To cut blocks for the ends of the wall, or in tight curved sections, use a hammer and chisel to score the unit on all sides. Always wear eye protection when splitting stones. If many cuts are needed, a masonry saw may be the better option to use.
 - 6. Backfilling:** After each course is laid, backfill behind the wall with ¾" washed drain rock. This improves drainage and prevents soil from leaching through the wall face.
 - 7. Top Course:** Use concrete adhesive to secure the cap course. Lay the cap down and press firmly. Finish backfilling behind the wall



StackStone® is a registered trademark of Risi Stone Products.

MUTUAL MATERIALS LOCATIONS

For product information and customer service, call 1-888-MUTUALØ (688-8250).

WASHINGTON		OREGON	IDAHO	MONTANA
Auburn	Port Orchard	Bend	Boise	Missoula
Bellevue	South Seattle	Clackamas	Hayden	
Bellingham	Spokane	Durham		
Marysville	Tacoma (Parkland)	Portland		
Olympia (Tumwater)	Vancouver, WA	Salem		

