

OUTDOOR LIVING

with Mutual Materials

BUILDING
BEAUTY
THAT LASTS

**Pavers
Retaining Walls
Patio Stones
Edgers**



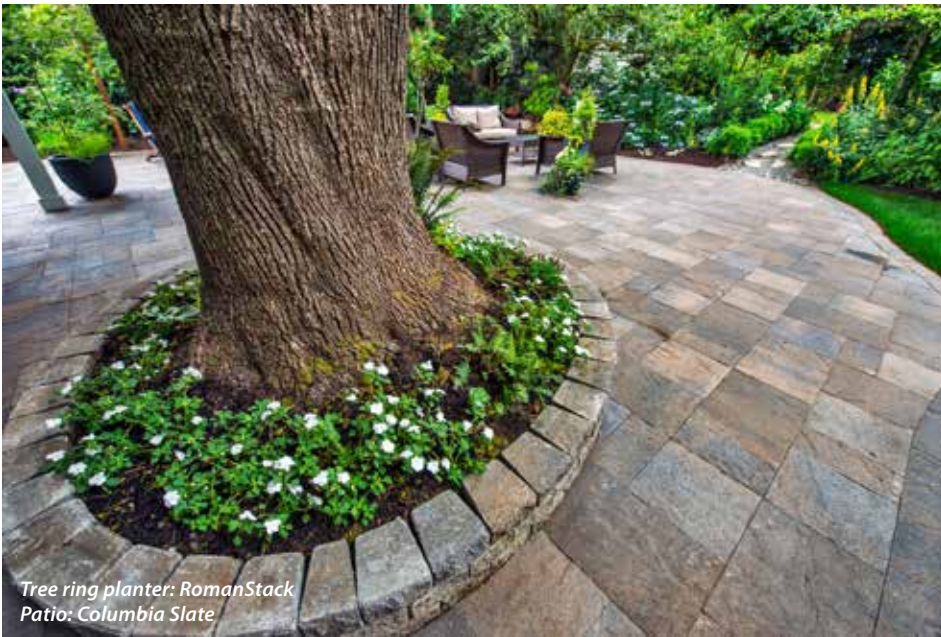
Roman Cobblestone

Mutual Materials hardscape products create Outdoor Living spaces that are beautiful to behold and inviting to walk through. From old world to contemporary, our pavers, blocks and stones lend a distinctive tone to the character of your yard. Start your project today and add a special area to your home where you can relax and entertain.

To see more products and project ideas, visit us online at www.mutualmaterials.com.

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PAVERS

From old world to contemporary, pavers can lend a distinctive tone to the character of your yard. Patios, walkways, driveways and pool decks all benefit from the beauty, strength and durability of concrete pavers. Mutual Materials pavers come in a variety of shapes, colors and textures so that you can make your dream a reality.



ROMAN COBBLESTONE

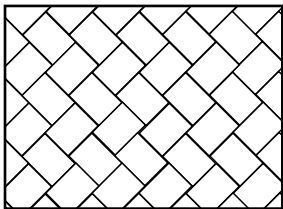


Roman Cobblestone Unit

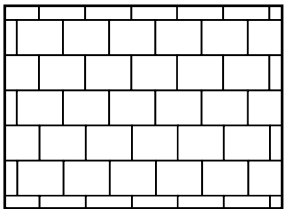
- Pcs. / Sq. Ft: 2.3
- Pcs. / Pallet: 225
- Weight / Each: 12 lbs.
- Weight / Pallet: 2,700 lbs.



Herringbone



Running Bond



Project Size	Pavers
50 sq. ft.	115
100 sq. ft.	230
150 sq. ft.	345
200 sq. ft.	460

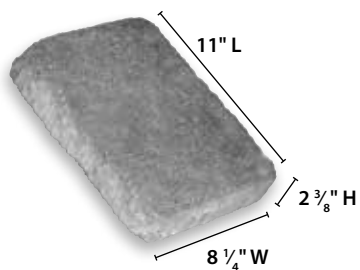
ROMAN DOMINION



Roman Dominion

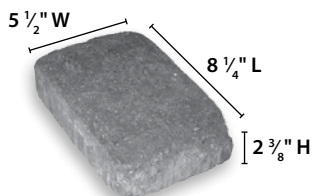
Roman Dominion Large Rectangle

Pcs. / Sq. Ft: 1.6
Pcs. / Pallet: 144
Weight / Each: 17.6 lbs.
Weight / Pallet: 2,835 lbs.



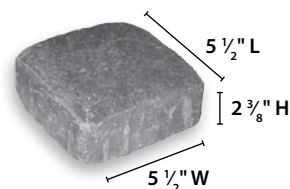
Roman Dominion Rectangle

Pcs. / Sq. Ft: 3.2
Pcs. / Pallet: 324
Weight / Each: 9 lbs.
Weight / Pallet: 2,870 lbs.

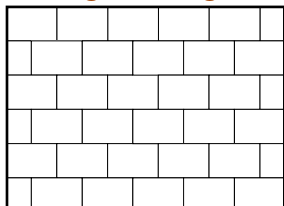


Roman Dominion Square

Pcs. / Sq. Ft: 4.7
Pcs. / Pallet: 432
Weight / Each: 6 lbs.
Weight / Pallet: 2,592 lbs.

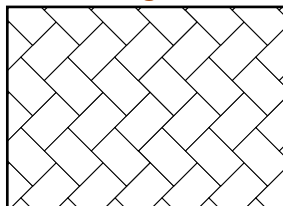


Rectangle Running Bond



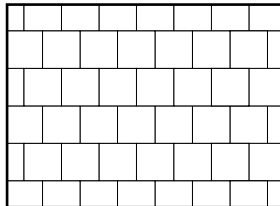
Project Size	Pavers
50 sq. ft.	158
100 sq. ft.	316
150 sq. ft.	474
200 sq. ft.	632

Herringbone



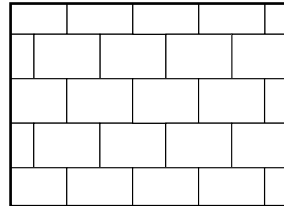
Project Size	Pavers
50 sq. ft.	158
100 sq. ft.	316
150 sq. ft.	474
200 sq. ft.	632

Square Running Bond



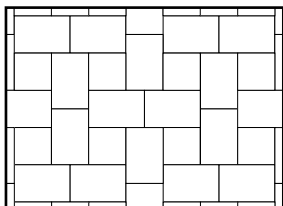
Project Size	Pavers
50 sq. ft.	237
100 sq. ft.	474
150 sq. ft.	711
200 sq. ft.	947

Large Rec Running Bond



Project Size	Pavers
50 sq. ft.	80
100 sq. ft.	159
150 sq. ft.	239
200 sq. ft.	318

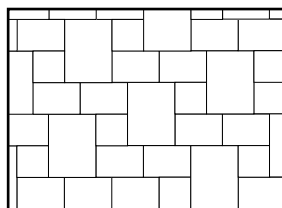
Muster K



Project Size	Pavers	
	Sq	Rec
50 sq. ft.	71	111
100 sq. ft.	142	221
150 sq. ft.	213	332
200 sq. ft.	284	443

Sq =30%, Rec =70%

3-Piece Ashlar



Project Size	Pavers		
	Sq	Rec	LR
50 sq. ft.	34	69	35
100 sq. ft.	67	138	69
150 sq. ft.	100	207	103
200 sq. ft.	133	276	137

Sq = 14%, Rec = 43%, Lg Rec = 43%

DOMINION SLATE



Dominion Slate

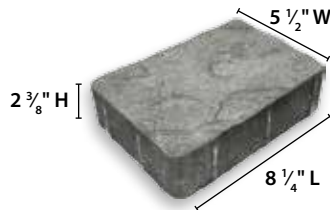
Dominion Slate Large Rectangle

Pcs. / Sq. Ft.: 1.6
Pcs. / Pallet: 144
Weight / Each: 17.6 lbs.
Weight / Pallet: 2,582 lbs.



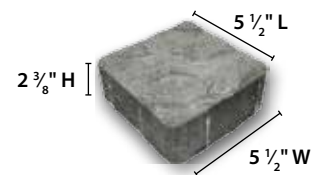
Dominion Slate Rectangle

Pcs. / Sq. Ft.: 3.2
Pcs. / Pallet: 324
Weight / Each: 8.7 lbs.
Weight / Pallet: 2,870 lbs.

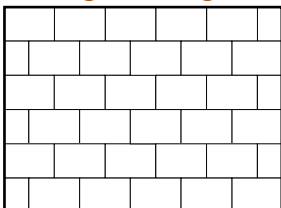


Dominion Slate Square

Pcs. / Sq. Ft.: 4.7
Pcs. / Pallet: 432
Weight / Each: 5.8 lbs.
Weight / Pallet: 2,560 lbs.

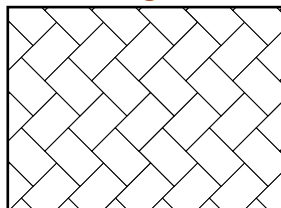


Rectangle Running Bond



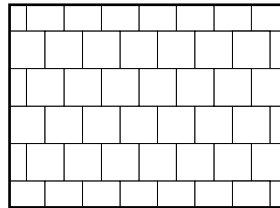
Project Size	Pavers
50 sq. ft.	158
100 sq. ft.	316
150 sq. ft.	474
200 sq. ft.	632

Herringbone



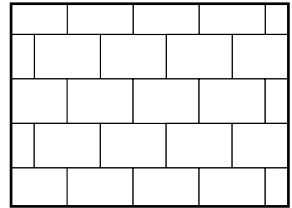
Project Size	Pavers
50 sq. ft.	158
100 sq. ft.	316
150 sq. ft.	474
200 sq. ft.	632

Square Running Bond



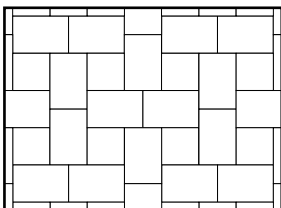
Project Size	Pavers
50 sq. ft.	237
100 sq. ft.	474
150 sq. ft.	711
200 sq. ft.	947

Large Rec Running Bond



Project Size	Pavers
50 sq. ft.	80
100 sq. ft.	159
150 sq. ft.	239
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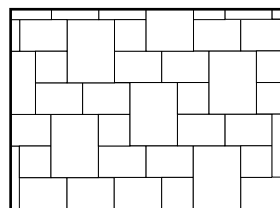
Muster K



Project Size	Pavers	
	Sq	Rec
50 sq. ft.	71	111
100 sq. ft.	142	221
150 sq. ft.	213	332
200 sq. ft.	284	443

Sq =30%, Rec =70%

3-Piece Ashlar



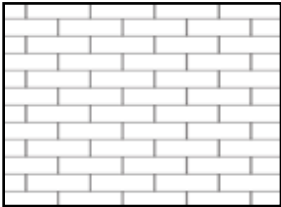
Project Size	Pavers		
	Sq	Rec	LR
50 sq. ft.	34	69	35
100 sq. ft.	67	138	69
150 sq. ft.	100	207	103
200 sq. ft.	133	276	137

Sq = 14%, Rec = 43%, Lg Rec = 43%

PLANK

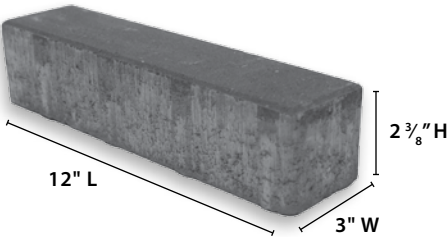


Large Rec Running Bond



Plank

Pcs. / Sq. Ft.: 4
Pcs. / Pallet: 396
Weight / Each: 7 lbs.
Weight / Pallet: 2,800 lbs



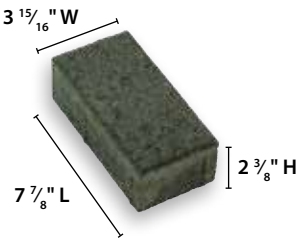
Project Size	Pavers Needed
50 sq. ft.	200
100 sq. ft.	400
150 sq. ft.	600
200 sq. ft.	800

HOLLAND

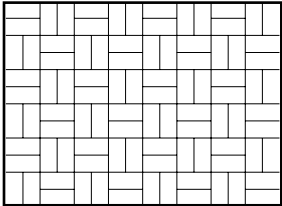


Holland

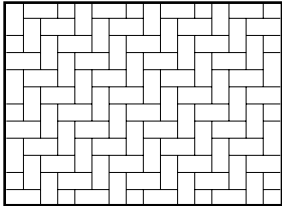
Pcs. / Sq. Ft.: 4.6
Pcs. / Pallet: 486
Weight / Each: 6 lbs.
Weight / Pallet: 2,916 lbs.



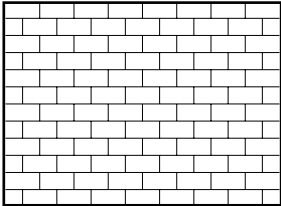
Basket Weave



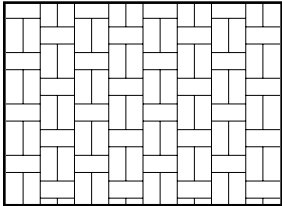
Herringbone



Running Bond



Single Offset Basket



Project Size	Pavers Needed
50 sq. ft.	230
100 sq. ft.	460
150 sq. ft.	690
200 sq. ft.	920

Project Size	Pavers Needed
50 sq. ft.	230
100 sq. ft.	460
150 sq. ft.	690
200 sq. ft.	920

PAVER COLORS*

Standard Texture



Tumbled Texture



Slate Texture



*These color photographs show the general appearance of color and texture ranges. Due to the limitations of photography, the actual product shipped is not guaranteed to duplicate the images shown here. Final color and product selection should be made from actual samples.

COLORS*

	Roman Cobblestone	Roman Dominion	Dominion Slate	Plank	Holland
Standard Texture					
Cascade Blend					
Charcoal					
Harvest Blend					
Northwest Blend					
Rustic Blend					
Summit Blend					
Tumbled Texture					
Cascade Blend					
Charcoal					
Harvest Blend					
Northwest Blend					
Rustic Blend					
Summit Blend					
Slate Texture					
Cascade Blend					
Harvest Blend					
Northwest Blend					

Note: Due to color variations between production runs, be sure to purchase all of the pavers for your project at one time.

* Color quantities and selections may vary by distributor location.
Please call to confirm availability. Product selection and availability may change without notice and/or at any time.



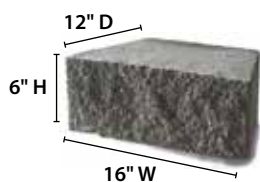
RETAINING WALLS

Whether your project involves adding terraces, raised planting beds or accent walls, Mutual Materials offers the ideal solution for your design and aesthetic needs. Choose between traditional radius and flat face units plus rustic tumbled units for the wall that best complements your landscape and architectural style.





Retaining Wall: ManorStone, Radius Face
Stairs: ManorStone, Flat Face



Flat Face Tapered Sides

Pcs. / Face Ft.: 1.5
Pcs. / Pallet: 45
Weight / Each: 65 lbs.
Weight / Pallet: 2,930 lbs.



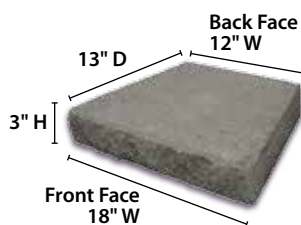
Flat Face Straight Sides

Pcs. / Face Ft.: 1.5
Pcs. / Pallet: 45
Weight / Each: 79 lbs.
Weight / Pallet: 3,605 lbs.



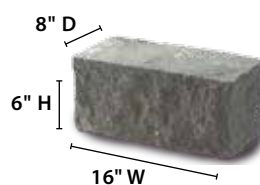
Radius Face Tapered Sides

Pcs. / Face Ft.: 1.5
Pcs. / Pallet: 45
Weight / Each: 62 lbs.
Weight / Pallet: 2,840 lbs.



Flat Face Tapered Cap Unit

Pcs. / Pallet: 72
Weight / Each: 45 lbs.
Weight / Pallet: 3,240 lbs.



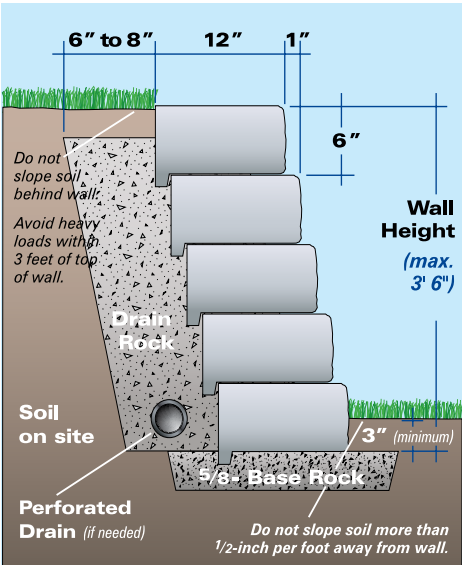
Corner Unit

Pcs. / Face Ft.: 1
Pcs. / Pallet: 60
Weight / Each: 56 lbs.
Weight / Pallet: 3,410 lbs.

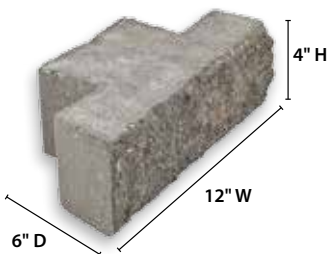
MANORSTONE®



Max Height = 3' 6"		Wall Length*		
Wall Height	Courses	10 ft.	25 ft.	50 ft.
1' 0"	2	15	38	75
1' 6"	3	23	57	114
2' 0"	4	30	75	150
2' 6"	5	38	94	188
3' 0"	6	45	113	226
3' 6"	7	53	132	264
Base Rock** ½ cu. ft. bags		4	10	20



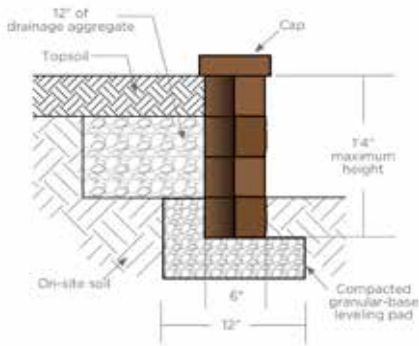
* 0.75 pc. per lineal ft.
** 3" deep base
Note: Minimum diameter circle is 5'5" using 12 ManorStone blocks.



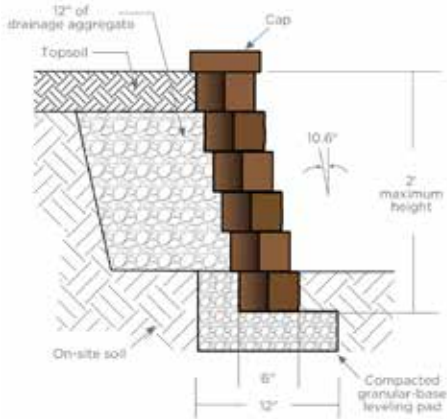
Tango
Pcs. / Sq. Ft.: 3
Pcs. / Pallet: 192
Weight / Each: 15 lbs.
Weight / Pallet: 2,930 lbs.

Max Height = 2'		Wall Length		
Wall Height	Courses	10 ft.	20 ft.	30 ft.
4"	Base	11	21	32
8"	2	21	42	63
1'	3	32	63	95
1' 4"	4	42	84	126
1' 8"	5	53	105	158
2'	6	63	126	189

Cross Section of Straight Wall

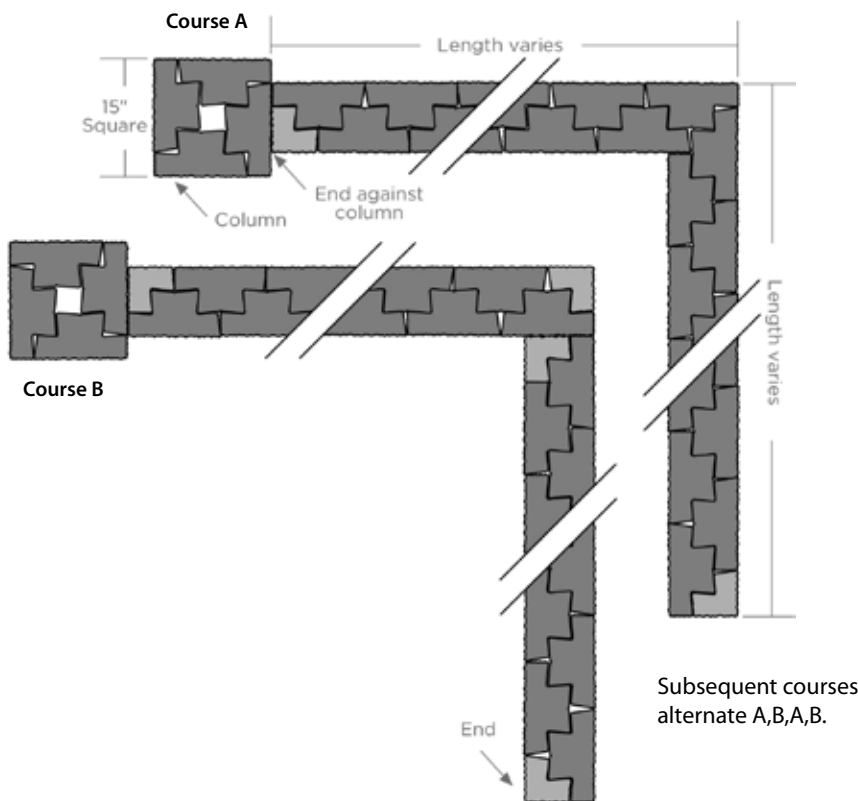


Cross Section of Battered Wall

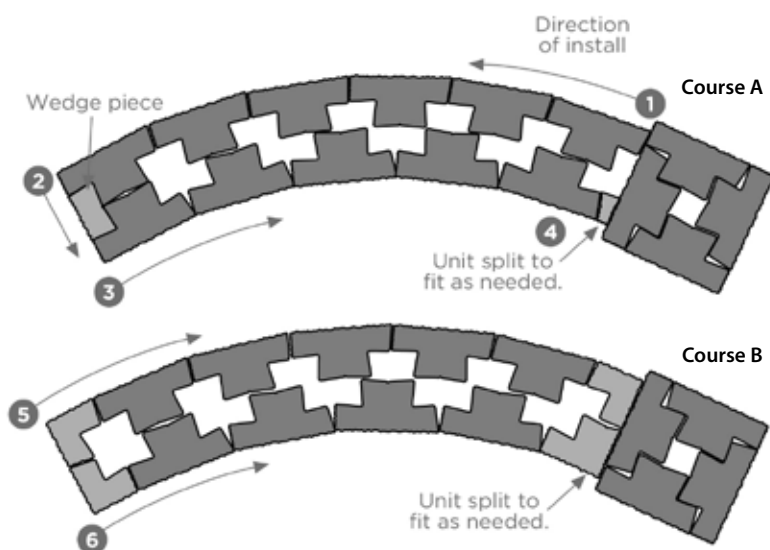
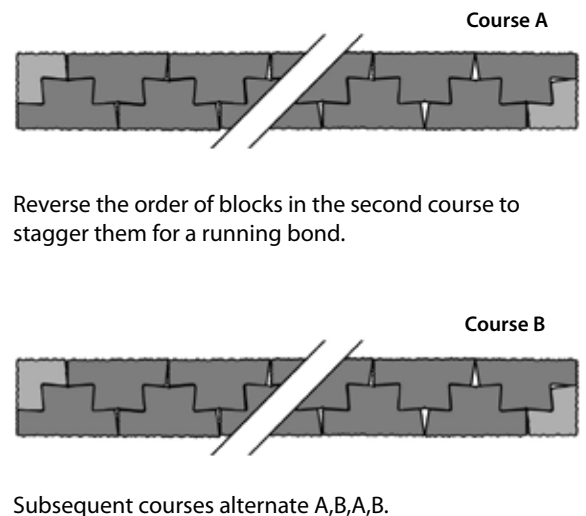


INSTALLATION PATTERNS

Straight Wall Nested Corner Layout



Straight Wall Nested Layout



Curved Wall Tail-To-Tail Layout

Subsequent courses alternate A,B,A,B.

Always start subsequent courses at the end opposite of a column/structure.

ROMANSTACK®



RomanStack's basic shapes combine together to produce unlimited patterns. The RomanStack units can be used as a system, or installed separately to give additional patterning options.



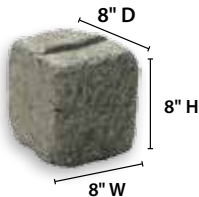
4 x 8 Unit

Pcs. / Face Ft.: 4.5 (or 5.1)
Pcs. / Pallet: 168
Weight / Each: 18 lbs.
Weight / Pallet: 3,000 lbs.
23 units to make circle 44" inside dia.



4 x 12 Unit

Pcs. / Face Ft.: 3 (or 3.27)
Pcs. / Pallet: 126
Weight / Each: 26 lbs.
Weight / Pallet: 3,300 lbs.
23 units to make circle 68" inside dia.



8 x 8 Jumbo Unit

Pcs. / Face Ft.: 2.25 (or 2.57)
Pcs. / Pallet: 96
Weight / Each: 32 lbs.
Weight / Pallet: 3,100 lbs.
23 units to make circle 44" inside dia.



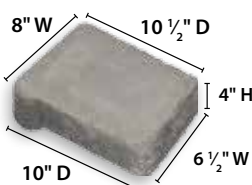
4 x 8 Cap

Pcs. / Lineal Ft.: 1.5 (or 1.7)
Pcs. / Pallet: 168
Weight / Each: 18 lbs.
Weight / Pallet: 3,000 lbs.
23 units to make circle 44" inside dia.



4 x 12 Cap

Pcs. / Lineal Ft.: 1 (or 1.09)
Pcs. / Pallet: 126
Weight / Each: 26 lbs.
Weight / Pallet: 3,300 lbs.
23 units to make circle 68" inside dia.

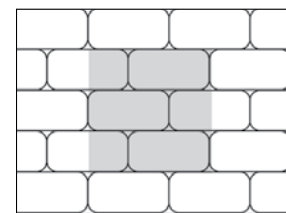


Corner Unit

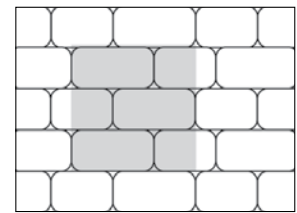
Pcs. / Pallet: 144
Weight / Each: 24 lbs.
Weight / Pallet: 3,456 lbs.

Walls Using 4 x 8 Units & Caps Only

Max Height = 2' 0"		Wall Length			
		8" Faces		Alternating 6" & 8" Faces	
Wall Height	Courses	10 ft.	25 ft.	10 ft.	25 ft.
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



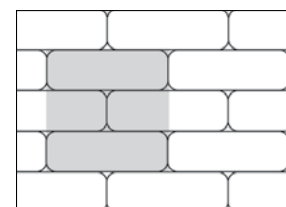
4 x 8 Units - 8" Faces
(4.5 units / sq. ft.)



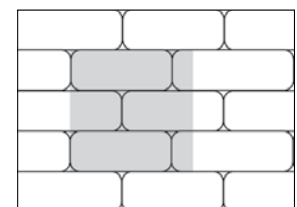
4 x 8 Units - Alternating 6" & 8" Faces
(5.1 units / sq. ft.)

Walls Using 4 x 12 Units & Caps Only

Max Height = 2' 0"		Wall Length			
		12" Faces		Alternating 10" & 12" Faces	
Wall Height	Courses	10 ft.	25 ft.	10 ft.	25 ft.
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	25	11	28



4 x 12 Units - 12" Faces
(3 units / sq. ft.)









4 x 12 Units - Alternating 10" & 12" Faces
(3.27 units / sq. ft.)

INSTALLATION PATTERNS

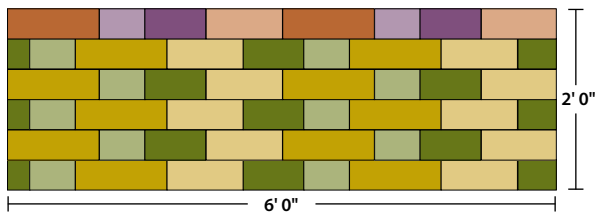
Choose from one of the patterns shown here, or create a random or repeating pattern of your own.

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:

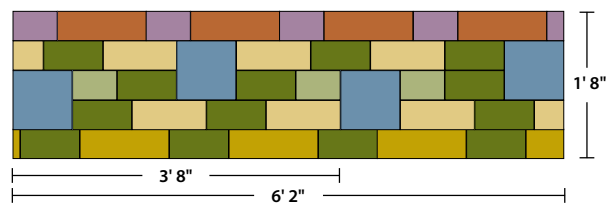
	= 4 x 8 Unit - 8" Face		= 4 x 8 Cap - 8" Face
	= 4 x 8 Unit - 6" Face		= 4 x 8 Cap - 6" Face
	= 4 x 12 Unit - 12" Face		= 4 x 12 Cap - 12" Face
	= 4 x 12 Unit - 10" Face		= 4 x 12 Cap - 10" Face
	= 8 x 8 Jumbo Unit		

Pattern #1 - repeats every 3' 0"



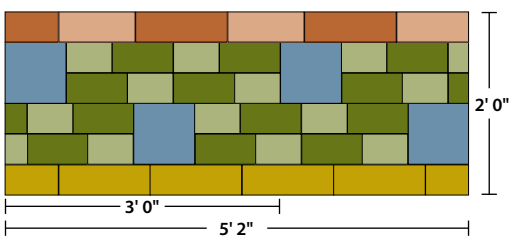
WALL LENGTH (height is 2' 0")							
	3'	6'	9'	15'	21'	33'	
4 x 8 Unit	10	20	30	50	70	110	
4 x 12 Unit	10	20	30	50	70	110	
4 x 8 Cap	2	4	6	10	14	22	
4 x 12 Cap	2	4	6	10	14	22	

Pattern #3 - repeats every 3' 8"



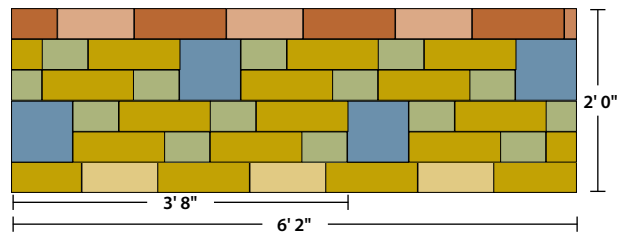
WALL LENGTH (height is 1' 8")							
	3' 8"	7' 4"	11'	22'	29' 4"	36' 8"	
4 x 8 Unit	11	22	33	64	88	110	
4 x 12 Unit	7	14	21	42	56	70	
8 x 8 Jumbo	2	4	6	12	16	20	
4 x 8 Cap	3	6	9	18	24	30	
4 x 12 Cap	3	6	9	18	24	30	

Pattern #2 - repeats every 3' 0"



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	18	24	30	36	
8 x 8 Jumbo	2	4	6	8	12	16	20	24	
4 x 12 Cap	4	7	10	14	20	27	33	40	

Pattern #4 - repeats every 3' 8"



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	81	
4 x 12 Unit	12	25	37	74	65	81	
8 x 8 Jumbo	2	4	6	12	16	20	
4 x 12 Cap	4	8	12	24	30	38	

ROMANSTACK® FIRE PITS



39" Square Fire Pit

Outside Diameter: 39" x 39"
Inside Diameter: 23" x 23"
12" Cap Units: 24
Corner Units: 12



53" Square Fire Pit

Outside Diameter: 53" x 53"
Inside Diameter: 45" x 45"
12" Cap Units: 24
8" Cap Units: 24
Corner Units: 12



Round Fire Pit

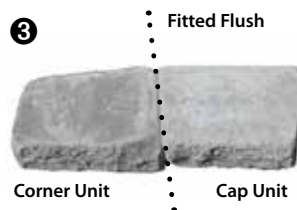
Outside Diameter: 58"
Inside Diameter: 42"
4 x 8 Units: 46
4 x 8 Caps: 23
Jumbo: 13

INSTRUCTIONS:

1. Prepare the fire pit location by establishing a level surface about 45" x 45".
2. Make sure you have the correct number of pieces (corners and caps) for the corresponding fire pit.
3. Place a corner unit in the desired fire pit location. Lay a cap unit against a corner unit as shown, rotated and fitted flush.
4. Place a second unit rotated 180° from the first unit. Lay the other corner unit against the cap to complete the first side of the square.

Note that on each side of the layer there will be one long-faced corner and one short-faced corner.

5. Begin the second course by placing the alternate corner unit. Note the 11" side of the corner block will now be over the 6.5" side and vice-versa.
6. Place the remaining units to complete the course.



Fire pits should only be built over a non-combustible surface. They may be installed on concrete patios, pavers or a compacted gravel base. Never install over a wood deck.

COTTAGESTONE® ADVANTAGE



CottageStone Advantage

Pcs. / Face Ft.: 3
Pcs. / Pallet: 144
Weight / Each: 23 lbs.
Weight / Pallet: 3,312 lbs.
Max. Height: 2' 0"



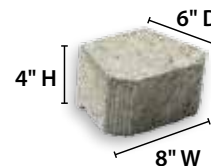
Max Height = 2'		Wall Length*		
Wall Height	Courses	10 ft.	25 ft.	50 ft.
8"	2	20	50	100
1' 0"	3	30	75	150
1' 4"	4	40	100	200
1' 8"	5	50	125	250
2' 0"	6	60	150	300
Base Rock** 1/2 cu. ft. bags		4	9	17

VINEYARDSTONE

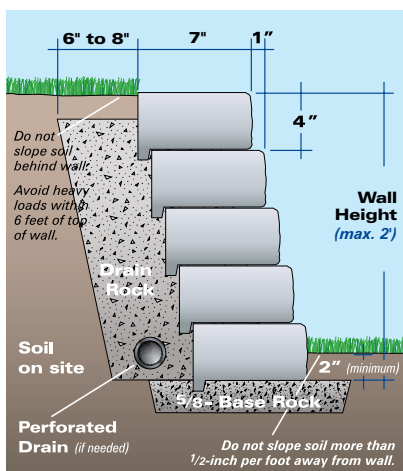


VineyardStone

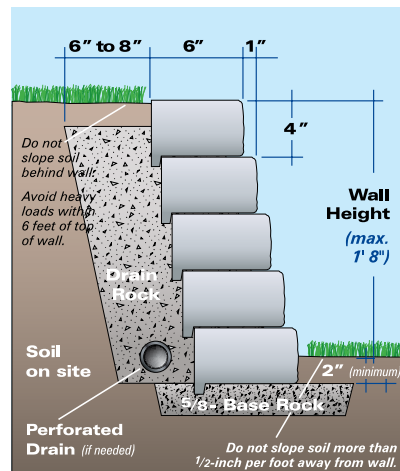
Pcs. / Face Ft.: 4.5
Pcs. / Pallet: 216
Weight / Each: 13 lbs.
Weight / Pallet: 2,850 lbs.
Max. Height: 1' 8"



Max Height = 1' 8"		Wall Length*		
Wall Height	Courses	10 ft.	25 ft.	50 ft.
4"	1	15	38	75
8"	2	30	76	152
1' 0"	3	45	113	225
1' 4"	4	60	150	300
1' 8"	5	75	188	375
Base Rock** 1/2 cu. ft. bags		3	6	12



* 1 pc. per lineal ft.
** 3" deep base
Note: Minimum dia. circle is 4'0"
using 12 CottageStone blocks.



* 1.5 pcs. per lineal ft.
** 3" deep base
Note: Minimum dia. circle is 32"
using 12 VineyardStone blocks.

WALL COLORS *

Split-Face Texture



Tumbled Texture



*These color photographs show the general appearance of color and texture ranges. Due to the limitations of photography, the actual product shipped is not guaranteed to duplicate the images shown here. Final color and product selection should be made from actual samples.

COLORS *

	Cascade Blend	Harvest Blend	Khaki Blend	Natural / Gray	Northwest Blend	Rustic Blend	Summit Blend
Split-Face Texture							
Tango™	■						■
CottageStone® Advantage				■	■	■	■
VineyardStone					■	■	
ManorStone®							
Flat Face Tapered				■	■	■	
Flat Face Straight-Sided				■	■	■	
Radius Face Tapered				■	■	■	
Flat Face Tapered Cap		■		■	■	■	■
Corner Unit				■	■	■	■
Tumbled Texture							
RomanStack®	■		■			■	■

Note: Due to color variations between production runs, be sure to purchase all of the pavers for your project at one time.

* Color quantities and selections may vary by distributor location.
Please call to confirm availability. Product selection and availability may change without notice and/or at any time.



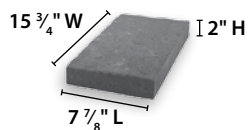
PATIO STONES

Patio stones are a cost-effective solution for basic landscaping projects such as paths, walkways, and patios. The large format and straight edges allow them to be installed flush together with no spacing required. Patio stones can be used individually as stepping stones or combined together for larger projects.

Patio stones are not suitable for vehicle traffic (such as driveways) and are intended for walking surfaces only.

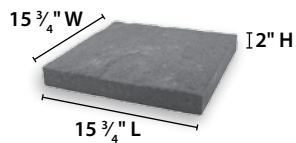


COLUMBIA SLATE



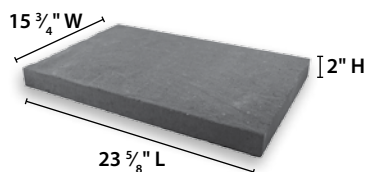
8 x 16 Unit

Pcs. / Sq. Ft.: 1.125
Pcs. / Pallet: 168
Weight / Each: 18 lbs.
Weight / Pallet: 3,074 lbs.



16 x 16 Unit

Pcs. / Sq. Ft.: 0.58
Pcs. / Pallet: 84
Weight / Each: 36 lbs.
Weight / Pallet: 3,074 lbs.



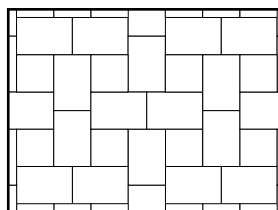
16 x 24 Unit

Pcs. / Sq. Ft.: 0.39
Pcs. / Pallet: 56
Weight / Each: 60 lbs.
Weight / Pallet: 3,410 lbs.

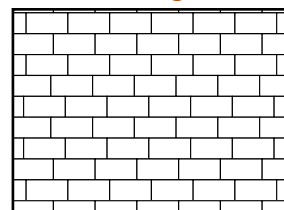
Available Color:



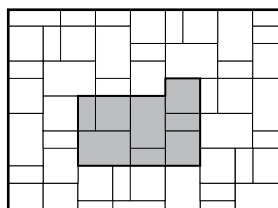
Muster K



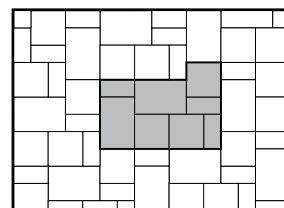
1/3 Running Bond



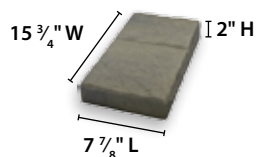
Pattern 1



Pattern 2



ASHLAR SLATE



8 x 16 Unit
 Pcs. / Sq. Ft.: 1.125
 Pcs. / Pallet: 168
 Weight / Each: 18 lbs.
 Weight / Pallet: 3,074 lbs.



16 x 16 Unit
 Pcs. / Sq. Ft.: 0.58
 Pcs. / Pallet: 84
 Weight / Each: 36 lbs.
 Weight / Pallet: 3,074 lbs.

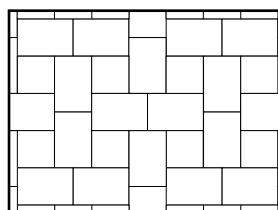


16 x 24 Unit
 Pcs. / Sq. Ft.: 0.39
 Pcs. / Pallet: 56
 Weight / Each: 60 lbs.
 Weight / Pallet: 3,410 lbs.

Available Color:

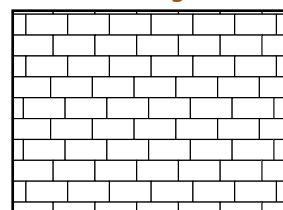


Muster K

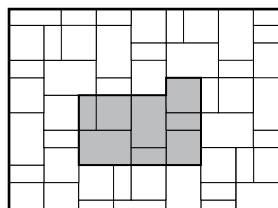


16 x 16=30%, 16 x 24=70%

1/3 Running Bond

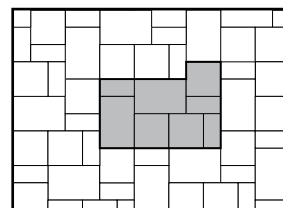


Pattern 1



8 x 16=20%, 16 x 16=40%,
 16 x 24=40%

Pattern 2



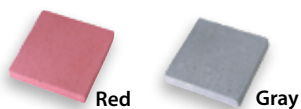
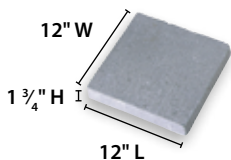
8 x 16=20%, 16 x 16=40%,
 16 x 24=40%

PATIO STONES

12" Square Patio Stone



Pcs. / Sq. Ft.: 1
Pcs. / Pallet: 144
Weight / Each: 21 lbs.
Weight / Pallet: 3,024 lbs.



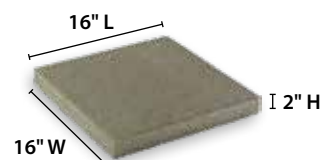
Red

Gray

16" Square Patio Stone



Pcs. / Sq. Ft.: $1 \frac{3}{4}$
Pcs. / Pallet: 84
Weight / Each: 36 lbs.
Weight / Pallet: 3,300 lbs.



Basketweave



Gray

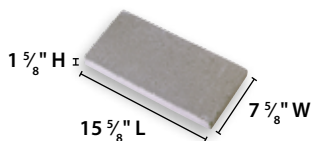


Exp. Aggregate

16" Patio Stone



Pcs. / Sq. Ft.: $1 \frac{1}{8}$
Pcs. / Pallet: 180
Weight / Each: 16 lbs.
Weight / Pallet: 2,950 lbs.



Red



Gray

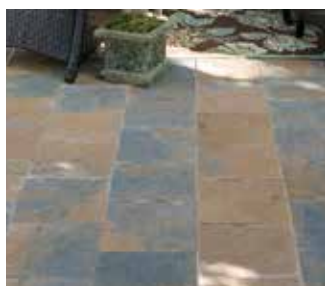
12" Square Exposed Aggregate Patio Stone



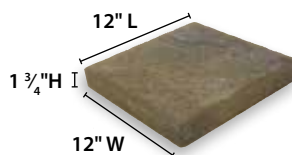
Pcs. / Sq. Ft.: 1
Pcs. / Pallet: 120
Weight / Each: 29 lbs.
Weight / Pallet: 3,300 lbs.



12" Square Slate Texture Patio Stone



Pcs. / Sq. Ft.: 1
Pcs. / Pallet: 144
Weight / Each: 21 lbs.
Weight / Pallet: 3,024 lbs.



Summit Blend



STEPPING STONES & FLAGSTONES

16" Round Stepping Stone



Pcs. / Pallet: 80
Weight / Each: 30 lbs.
Weight / Pallet: 2,500 lbs.



Natural Stone: Stepping Stones



Pcs. / Sq. Ft.: approx. 1 1/2
Pcs. / Pallet: 120
Weight / Each: 28 lbs.
Weight / Pallet: 3,400 lbs.



Amber Stepping Stone

Natural Stone: Iron Mountain Flagstone



Pcs. / Sq. Ft.: approx. 3
Pcs. / Pallet: 60
Weight / Each: 56 lbs.
Weight / Pallet: 2,600 lbs.



Iron Mountain

EDGERS

Edgestones



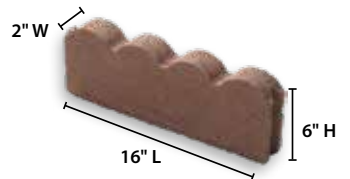
Pcs. / Lineal Ft.: 1 1/2
Pcs. / Pallet: 336
Weight / Each: 9 lbs.
Weight / Pallet: 3,024 lbs.



Scalloped Edge



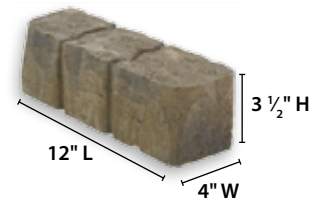
Pcs. / Lineal Ft.: 3/4
Pcs. / Pallet: 240
Weight / Each: 12 lbs.
Weight / Pallet: 2,880 lbs.



Cobble Edger



Pcs. / Lineal Ft.: 1
Pcs. / Pallet: 224
Weight / Each: 13 lbs.
Weight / Pallet: 2,912 lbs.



HARDSCAPE ACCESSORIES

Sands, Gravel, Cements and Mortars

Packaged products are designed to meet the needs of homeowners, contractors and masons. Available products include base rock, paver sand, drain rock, joint sand, sand lock and polysweep.

Cleaners, Sealers and Joint Stabilizers

Mutual Materials offers a wide array of cleaners and sealers to help you maintain the beauty and durability of your pavers or retaining wall. We carry only products designed to safely protect and enhance our concrete products.



PAVER & PATIO STONE INSTALLATION

TOOLS NEEDED:

- ▶ Gloves & Safety Glasses
- ▶ String Line & Wood Stakes
- ▶ Wheelbarrow
- ▶ (2) 10' lengths of 1" electrical conduit
- ▶ Rake & Broom
- ▶ Shovel & Level
- ▶ Mallet & Chisel
- ▶ (1) 8' straight 2x4
- ▶ Plate Compactor

MATERIALS NEEDED:

- ▶ Base Rock: 1 1/3 cubic yards per 100 sq. ft. or 7 bags of Base Rock (1/2 cu. ft. bags) per 10 sq. ft. for a 4" layer.
- ▶ Paver Base Sand: 1/3 cubic yard per 100 sq. ft. (or 1.5 bags of All Purpose Sand per sq. ft.—80 lb. bags) for a 1" layer.
- ▶ Joint Sand: 1 80 lb. bag Paver Joint Sand per 150 sq. ft. (you may also use your base sand to fill the joints).
- ▶ Edge Restraint: Purchase enough Barrier Edging for your project (80" per piece) along with landscape spikes for every 18".



STEP 1:

Mark your project area with wooden stakes and string lines where paver height is desired. Remove the sod and dig out the area to at least 7 1/2" below string line.



STEP 2:

Place 5/8" minus or 3/4" minus crushed rock for your sub-base. Bring the crushed rock up to 3 1/2" below your string line - the rock should be at least 4" deep in all places. Level and compact crushed rock using a plate compactor.* This procedure provides a level surface upon which the sand base is laid, and is very important to the quality of the finished pavement.



STEP 3:

Install the first edge restraint starting at the corner: follow the edging manufacturer's recommendations for anchoring the edge in place (typically, use 10" landscape spikes spaced 18"-24" apart).



STEP 4:

Screed the bedding sand in place by using two 1" pieces of steel electrical conduit for spacing. Place them parallel to one another on the base, about 4' apart. Shovel coarse sand between the conduit and screed smooth over the conduit with a straight 2 x 4 (approx. 40 sq. ft. at a time).

Remove conduit and fill in voids (do not compact or walk on sand). Screed only as much sand as you can cover with pavers in one day. Sand left overnight or longer can become uneven or wet.



STEP 5:

Lay pavers in your desired pattern**. Start in corner of project and lay pavers outward in a triangular pattern. If cut pavers are necessary, you can use a guillotine cutter,* masonry saw,* or a hammer and chisel.

Measure over to your string every few feet to make sure that you are staying on track. You can tap pavers together using a rubber mallet, or you can leave a slight gap between them.



STEP 6:

Install remaining edge restraints. Vibrate the pavers into place using the plate compactor. Do not leave the compactor in one place too long, it can cause the pavers to compact unevenly or crack.

For patio stones, use a rubber mallet. DO NOT USE COMPACTOR WITH PATIO STONES AS IT WILL DAMAGE PATIO STONES.



STEP 7:

Spread joint sand over the surface of your project. Sweep the sand diagonally into the joints between the pavers. Run the compactor diagonally to push sand up into joints and fall into joints too. Save the extra sand, you may want to sweep sand into your pavers again later to refill joints that rain and wind can displace.

* Guillotine cutter, masonry saw and plate compactor can be rented at rental outlets.

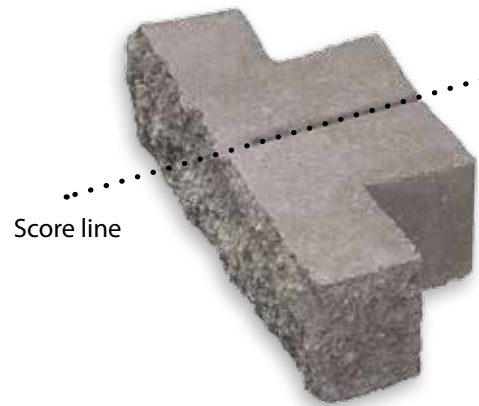
** To achieve a consistent color blend, it is important that you mix pavers from multiple pallets together as you lay your design.

TANGO™ PROJECT BLOCK INSTRUCTIONS

HOW TO SPLIT A BLOCK IN HALF

Just four simple steps split a Tango project block into two L-shaped pieces which are used for corners and ends. Following these steps will result in cleaner splits.

1. Place the block on the grass or soft surface with the score line facing up. With a metal chisel and framing hammer, lightly tap starting from the face of the block to extend the score line. Continue tapping along the score line to the tail.
2. Stand block on its face and again lightly tap, creating a score line on the end of the block.
3. Flip the block over and continue lightly tapping, creating another centered score line from the tail to the face of the block.
4. Repeat process with solid force as needed until the block splits in half.

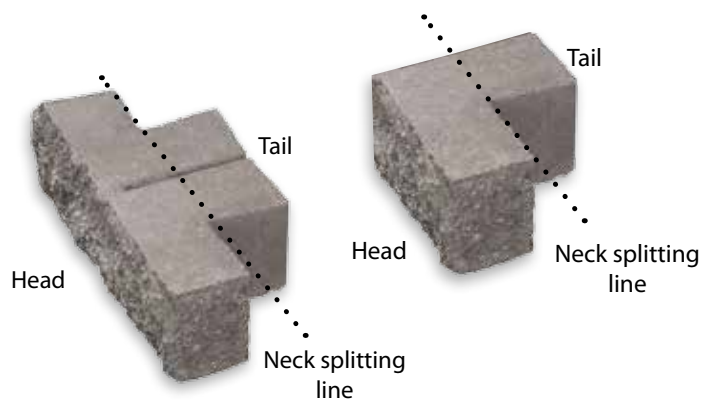


HOW TO CREATE WEDGE PIECES

Option 1. Use the tail to create a wedge piece for ends of curved walls or for one of the edger options.

1. Place the block on the grass or soft surface.
2. With a metal chisel and framing hammer, lightly tap along the neck.
3. Flip the block over and continue lightly tapping, creating a score line all the way around the four sides of the block.
4. Repeat process with solid force as needed until the block splits in two.

Option 2. Create L-shaped pieces (see above), then split at the neck to create wedge pieces.



RETAINING WALL INSTALLATION

TOOLS NEEDED:

- ▶ Gloves & Safety Glasses
- ▶ String Line & Wood Stakes
- ▶ Plate Compactor or Hand Tamper
- ▶ Wheelbarrow
- ▶ Shovel & Level
- ▶ Mallet & Chisel

STEP 1:

First mark the area of the wall with chalk or spray paint. Dig out a trench that is a minimum of 2"–4" deep plus one inch for every foot of wall height (**Photo A**).

Allow 6"–8" of space behind the wall for $\frac{3}{4}$ " drain rock (this means your trench is a minimum of 12"). Roots and big rocks should be removed from the trench.

When the trench is dug out, put 3" of $\frac{5}{8}$ " minus or $\frac{3}{4}$ " minus crushed rock in the trench (**Photo B**). Tamp (compact) the base and level it front to back and side to side (**Photo C**).



STEP 2:

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.

Tip: Begin laying block at the lowest point of the wall. It is also easier to start at a straight part of the wall.

Complete the base course before proceeding to the second course.

Be aware that lipped blocks have a set back so when curves are laid out, space the base course block apart slightly to allow for their set back. If using RomanStack® units, there is no set back and blocks will stack vertically.



STEP 3:

Start placing the second course. Center each unit on the seams of the first course.

If using ManorStone, CottageStone or VineyardStone the connecting lip should be pointed down to overhang the back edge of the base units (**Photo D**).

If using RomanStack units the bottom groove should be fitted over the tongue on the base units (**Photo E**).



RETAINING WALL INSTALLATION, CONT.

STEP 4:

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.

Pound the chisel with a three pound sledge on the score line until the unit splits. Always wear eye protection when splitting blocks.

If many cuts are required, you might consider renting a wet saw.



STEP 5:

After each course is laid, backfill behind wall with washed 3/4" gravel or drain rock **(Photo F)**.

This step is important to help drainage and to prevent soil from leaching through the wall face. For an additional safeguard, landscape fabric may also be used between the backfill and the drain rock.

To help drainage behind taller walls, perforated flexible drainpipe can be used **(Photo G)**.

Slope gravel behind wall so that the pipe laid behind the wall slopes 1" for every 4' toward the desired run-off area.



STEP 6:

If using RomanStack units, place the final layer using cap units for a finished look **(Photo H)**. For CottageStone, ManorStone and VineyardStone, place the final layer.

An option for finishing the wall is to secure the top course with construction adhesive.

Apply a bead of adhesive with a caulking gun.

Lay the top course down on the bead and press firmly.

Finish back filling behind the wall **(Photo I)**.



FREQUENTLY ASKED QUESTIONS

How do I order Mutual Materials' products that my home store doesn't stock?

Most stores have a Special Order program for non-stock items. Please check with a store representative for product availability in your area.

Can I install my own project even if I've never done this sort of work before?

Yes you can. Use the installation instructions in this catalog and the design ideas and tips on our website www.mutualmaterials.com to guide your project.

What type of maintenance do Mutual Materials' pavers require?

Our pavers require minimal maintenance. Simply pressure wash or use a leaf blower on your project approximately once per year. You may need to sweep more sand into the joints after pressure washing.

Do I need to seal my pavers?

No. However, sealers do offer 3 key benefits:

- 1) Sealers help resist penetrating stains.
- 2) Sealers enhance the color.
- 3) Certain types of sealers can bind the sand particles in the joints reducing the ability of weeds to generate.

Will weeds grow between my pavers?

Weeds and grass may start to grow between your pavers from seeds and spores blown in by the wind. When this happens you can easily pull them out or use a spot weed killer, or herbicide - it won't damage the pavers.

What is the white haze or powder on the pavers?

This is known as efflorescence. All concrete products contain cement which produces water-soluble calcium oxide. Calcium oxide inside the pavers reacts with water and—when carried to the surface through capillaries—reacts with carbon dioxide to form a haze of calcium carbonate. It is a natural process and will wear off in time. The amount of efflorescence is difficult to predict but it does eventually go away. Some specially-formulated cleaners may also be used to wash away efflorescence.

What do I do if my pavers become stained?

One of the great benefits to concrete pavers is that the individual stained or damaged pavers can be removed and replaced. Remove the sand around the paver(s) and then use two flat-head screwdrivers to lift them out. It's a good idea to keep a few extra pavers in your shed or garage for just this need.

How tall can I build my retaining wall?

The maximum height you can build your wall depends on the retaining wall block you have chosen. The maximum heights for our walls are:

- ♦ ManorStone - 3' 6"
- ♦ CottageStone Advantage - 2' 0"
- ♦ RomanStack - 2' 0"
- ♦ VineyardStone - 1' 8"

Do I have to bury part of the bottom course of my wall?

Retaining wall blocks need to be securely anchored in the ground. If your wall is three (3) courses or fewer tall, we recommend you bury half of the bottom layer. If your wall is four (4) courses or more tall (up to the maximum recommended height), we recommend burying the entire bottom layer.

If I'm building terraces, how far apart should they be?

The distance between terraces (face of wall to face of wall) should be at least two times the lower wall height. For example, if your lower wall is 2 feet tall, you need to go back 4 feet before building your next wall.

What are the advantages of Mutual Materials retaining wall blocks versus using landscape timbers?

Our retaining wall units are available in a variety of styles and colors to blend with your home's exterior. And unlike products made from untreated wood which rot, warp, and become insect and rodent motels, our products are made to be durable, flexible and timeless.

Will the color vary between runs of products?

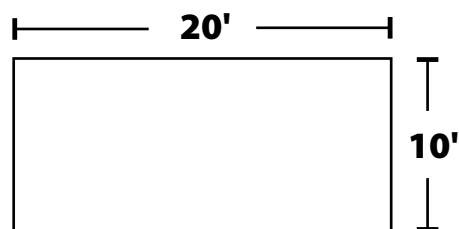
Color may vary from one run to the next. It is best to buy all the product for a project at once. We recommend mixing product from different pallets in order to get a more consistent color in your project. This is also known as blending pallets.

PROJECT WORKSHEETS

PAVING STONE PROJECT

STEP A: Find total square footage

1. Make a drawing of your project (to 1 inch scale if possible).
2. Choose your stone shape and color.
3. Find the total square footage of your project using Step B below.
4. Locate your stone square footage on the product price label.



STEP B: Formula to determine stones for the project

1. Multiply the length by the width to get the total square footage of the project.

_____ Length in feet **X** _____ Length in feet **=** _____ Total square feet

2. Multiply the total square footage of the project by square footage of the stone you chose.

_____ Sq. ft. **X** _____ Sq. ft. per stone **=** _____ Total stones needed
 (calculated above) (calculated on price labels)

RETAINING WALL PROJECT

How many stones do I buy? 4" x 12" Wall Block

(Stones required per square foot of wall surface area)

# of Courses	Wall Height	5'	10'	15'	20'	25'
1	4"	5	10	15	20	25
2	8"	10	20	30	40	50
3	12"	15	30	45	60	75
4	16"	20	40	60	80	100
5	20"	25	50	75	100	125
6	24"	30	60	90	120	150

How many stones do I buy? 6" x 16" Wall Block

(Stones required per square foot of wall surface area)

# of Courses	Wall Height	5'	10'	15'	20'	25'
1	4"	4	8	12	15	19
2	12"	8	16	24	30	38
3	18"	12	24	36	45	57
4	24"	16	32	48	60	76
5	30"	32	48	60	75	95
6	36"	24	48	72	90	114



BUILDING BEAUTY THAT LASTS

In the style of the Pacific Northwest

We are a local, family-owned company with a 100-year history of building communities across the Pacific Northwest. Our masonry and hardscape products are the foundation for schools, hospitals, stadiums, fire stations, businesses, parks, and local family homes and back yards.

We are proud of our Northwest heritage and thrilled that home owners can build beautiful Outdoor Living areas with our products.

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