

HARDSCAPE & MASONRY

PRODUCT INDEX

Colors
Shapes
Product Data
Patterns
Installation Guides



MUTUALMATERIALS®

www.MutualMaterials.com

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3 Ways to Buy

- 1 Visit a Mutual Materials branch location.**
 See product samples and displays, place orders and pickup products.
- 2 Shop online.**
 Some Mutual products are available for online purchase with local delivery and branch pickup options.
www.Store.MutualMaterials.com
- 3 Place orders by phone.**
 Product orders can be placed by phone during business hours including local delivery and branch pickup options.
1-888-MUTUAL0 (688-8250)

CLAY PAVERS



DRIVEWAYS



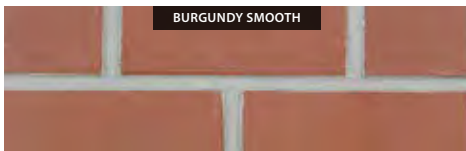
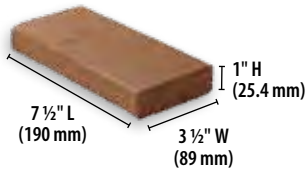
PATIOS



WALKWAYS

Mica Tile

(To be used in mortar-set applications only.)



BURGUNDY SMOOTH

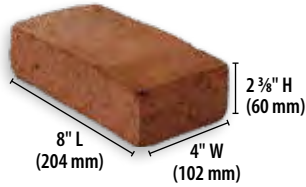


CHESTNUT SMOOTH



INCA SMOOTH

Roman Clay Pavers



INCA

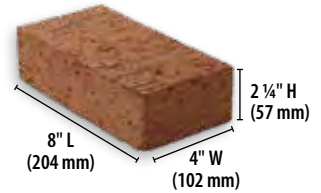


MAUNA LOA



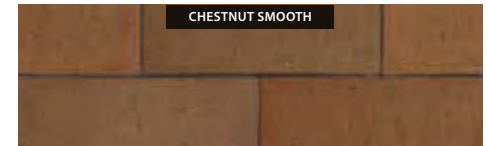
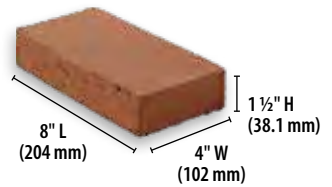
PIONEER USED

Patio Pavers

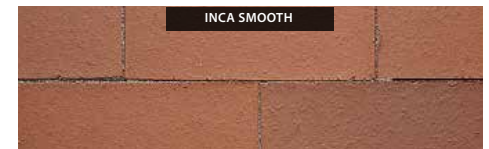


RED CLAY PATIO PAVER

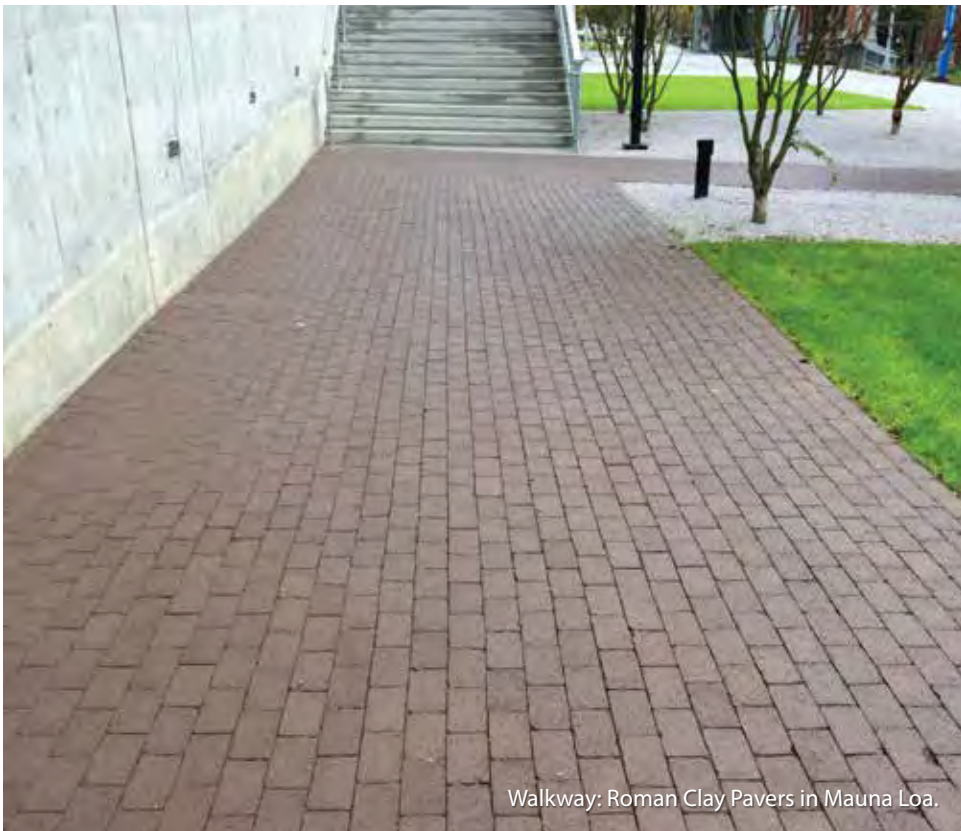
Clay Pavers



CHESTNUT SMOOTH



INCA SMOOTH

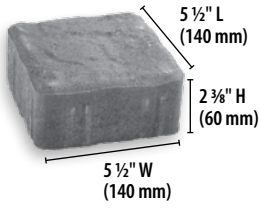


Walkway: Roman Clay Pavers in Mauna Loa.

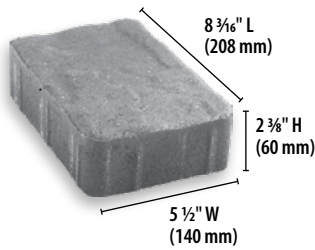
DOMINION SLATE



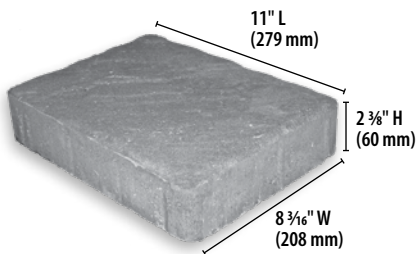
Square



Rectangle



Large Rectangle*

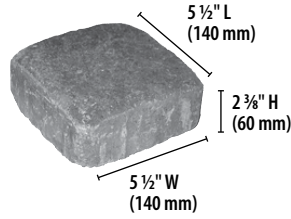


*Not recommended for vehicular use.

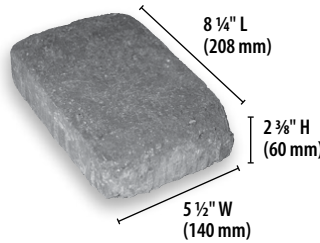
ROMAN DOMINION



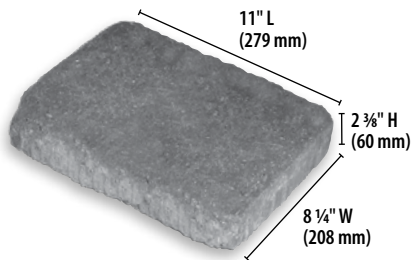
Square



Rectangle



Large Rectangle*

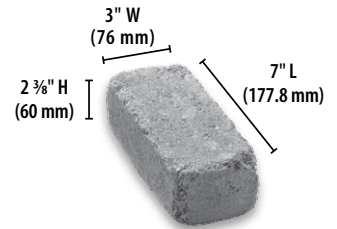


*Not recommended for vehicular use.

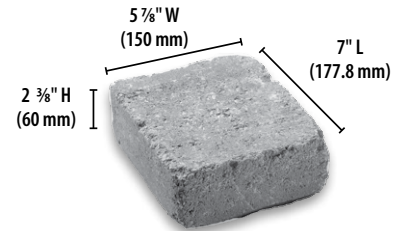
ROMAN COBBLESTONE



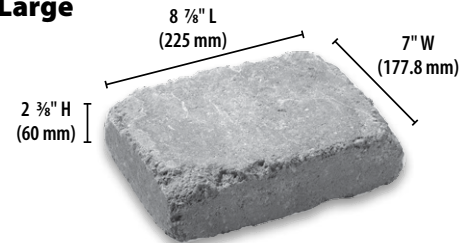
Small



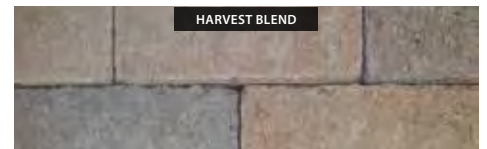
Medium



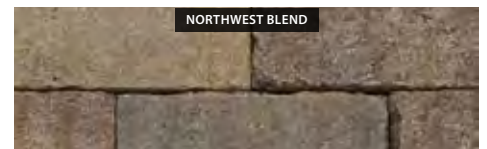
Large



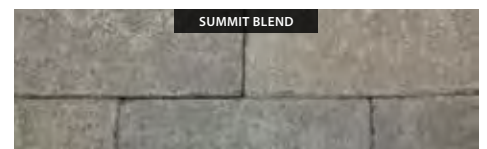
CHARCOAL



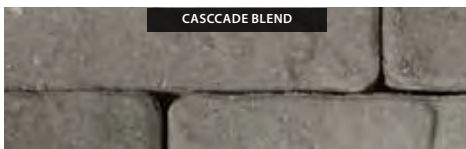
HARVEST BLEND



NORTHWEST BLEND



SUMMIT BLEND



CASCADE BLEND



NORTHWEST BLEND



CASCADE BLEND

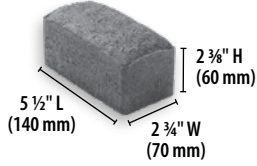


SUMMIT BLEND

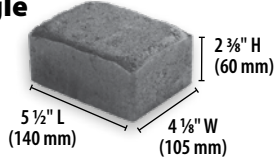
OLD DOMINION SQUARES & RECS



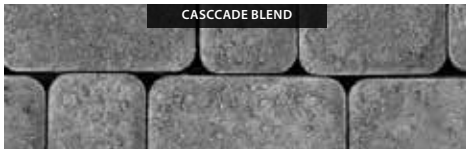
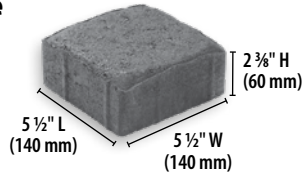
Small Rectangle



Rectangle



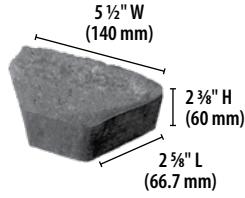
Square



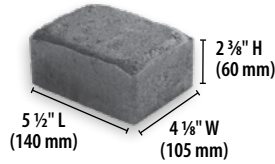
OLD DOMINION CIRCLE KIT



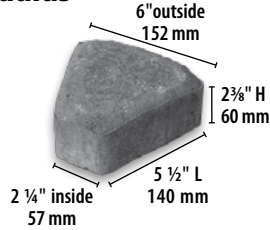
Center



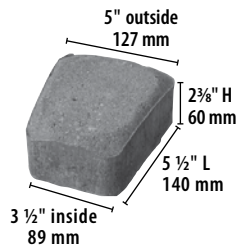
Rectangle



Small Radius



Large Radius



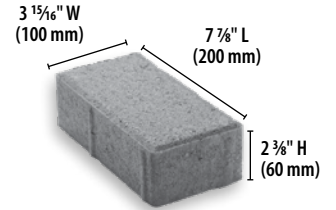
Old Dominion Circle in Summit Blend



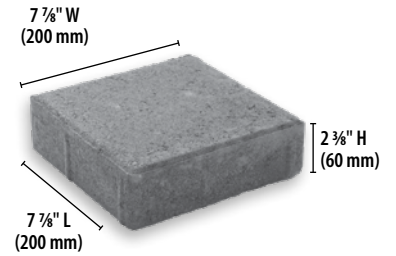
HOLLAND



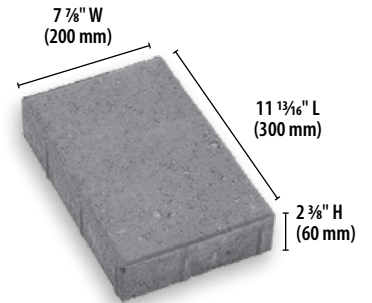
Holland



Double Holland



Triple Holland



PLANK PAVERS

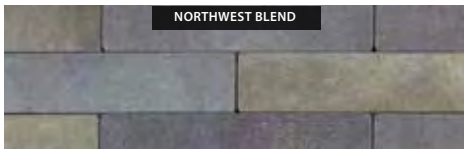
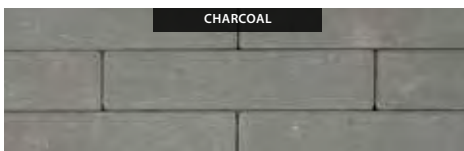
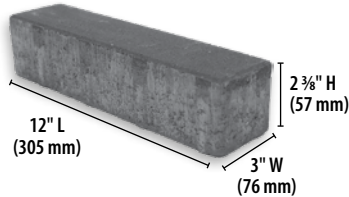


PATIOS



WALKWAYS

Plank Paver



UNI ECOLOC®



DRIVEWAYS



PATIOS



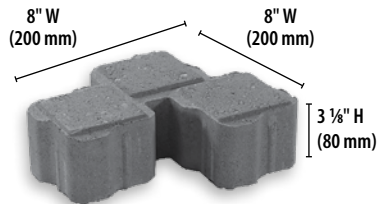
STREETS



WALKWAYS

Uni Ecoloc Unit

(There is a 12.8% void area per square foot.)



ECO-PRIORA®



DRIVEWAYS



PATIOS



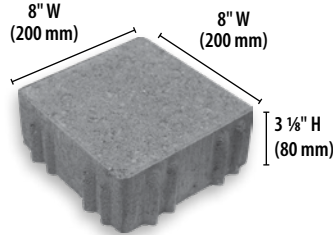
STREETS



WALKWAYS

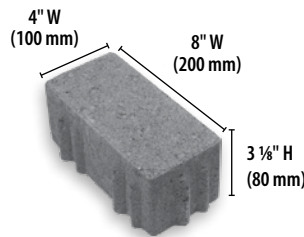
8 x 8 Unit

(There is a 9% void area per square foot.)



4 x 8 Unit

(There is a 13% void area per square foot.)



UNI ECO-STONE®



DRIVEWAYS



PATIOS



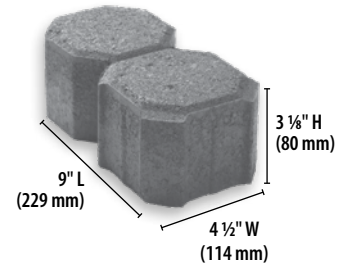
STREETS



WALKWAYS

Uni Eco-Stone® Unit

(There is a 12.8% void area per square foot.)



PERMEABLE HOLLAND HERRINGBONE 8 cm



DRIVEWAYS

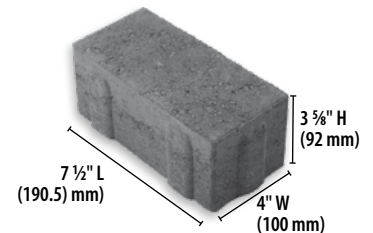


TERRACES



STREETS

Permeable Holland Unit



TURFSTONE®



DRIVEWAYS



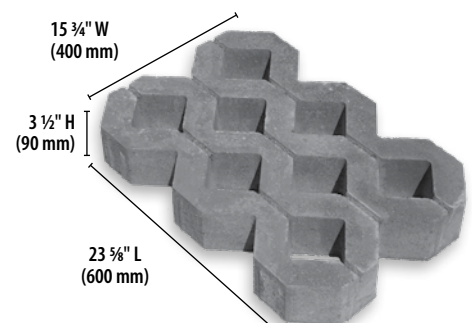
TERRACES



STREETS



WALKWAYS



VANCOUVER BAY ARCHITECTURAL SLABS*

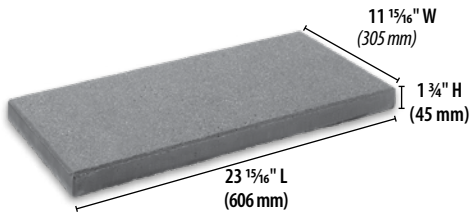


PATIOS

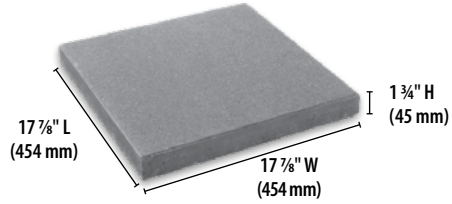


WALKWAYS

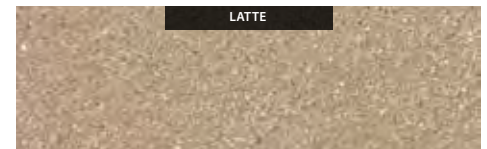
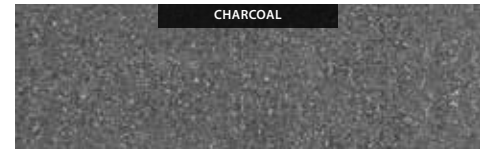
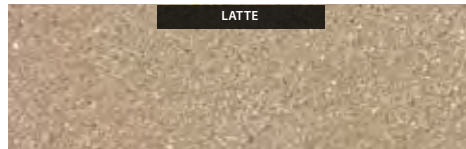
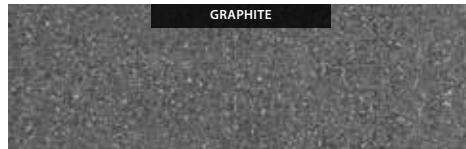
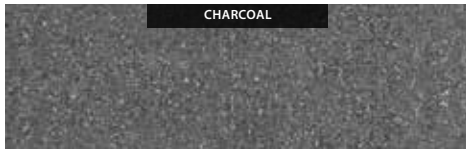
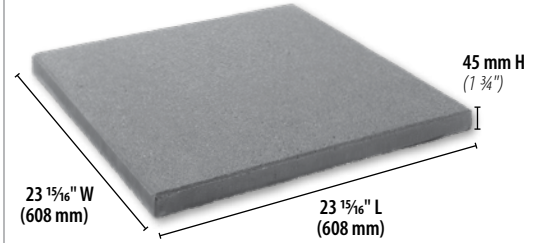
12 x 24



18 x 18



24 x 24



*Vancouver Bay Slabs are not suitable for vehicular traffic.

GLACIER SLATE*

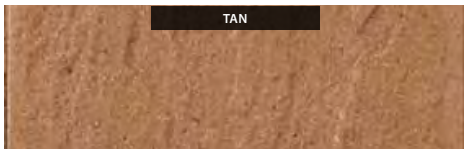
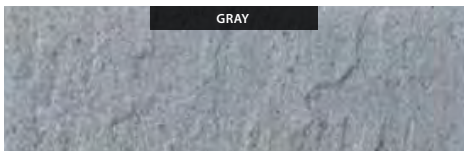
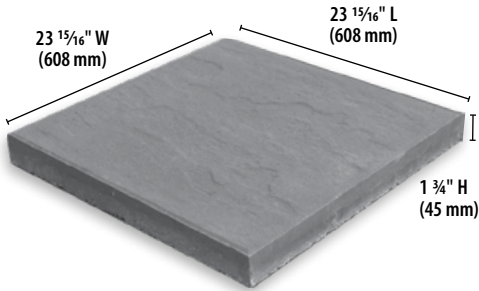


PATIOS



DRIVEWAYS

Glacier Slate Unit



* Glacier Slate Slabs are not suitable for vehicular traffic.

COLUMBIA SLATE

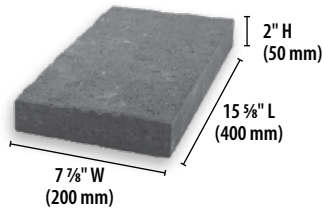


PATIOS

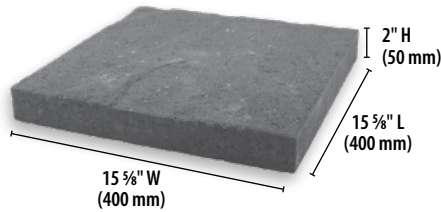


WALKWAYS

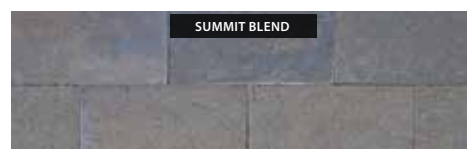
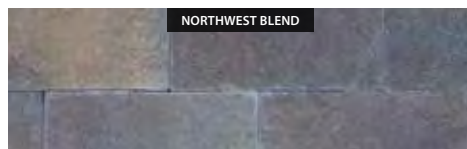
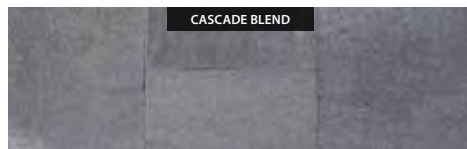
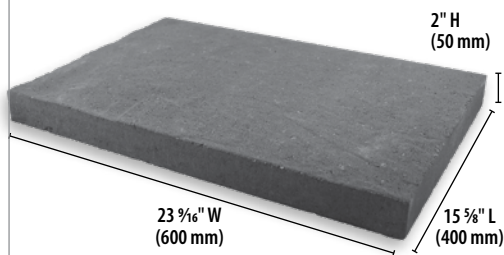
Rectangle



Square



Large Rectangle



PORCELAIN ARCHITECTURAL SLABS

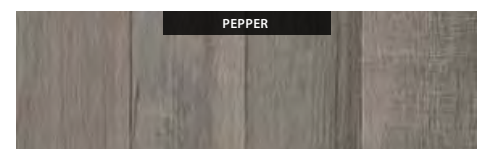
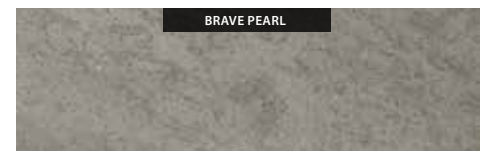
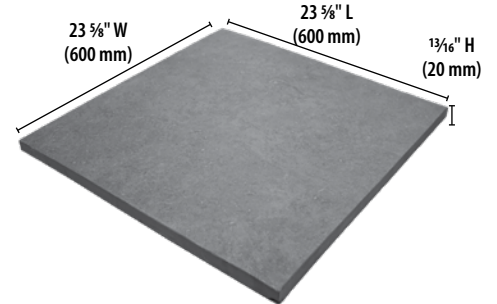


PATIOS



WALKWAYS

Porcelain Slab Unit



SLATON™

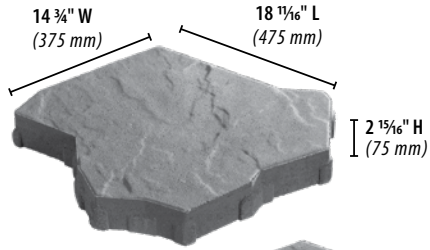


PATIOS



WALKWAYS

SIX FACE OPTIONS



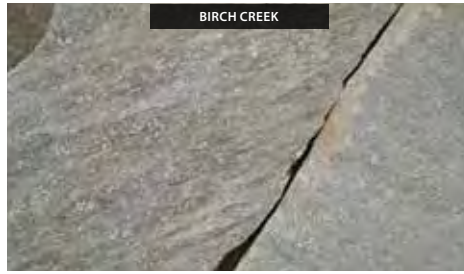
NATURAL STONE FLAGSTONE & PATIO STONES



PATIOS



WALKWAYS



$\frac{3}{4}$ " minus
 $\frac{3}{4}$ " - 1 $\frac{1}{4}$ "



$\frac{3}{4}$ " minus
 $\frac{3}{4}$ " - 1 $\frac{1}{4}$ "



Patio 1" - 2"



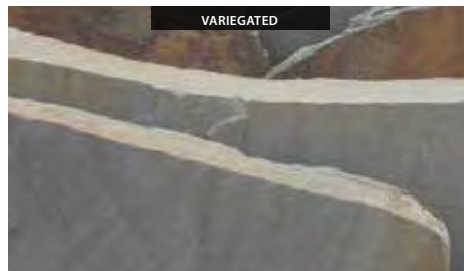
$\frac{3}{4}$ " minus
 $\frac{3}{4}$ " - 1 $\frac{1}{4}$ "



1 $\frac{1}{2}$ " - 2 $\frac{1}{2}$ "



1" - 2" Flagstone
1" - 2" Stepstone



$\frac{3}{4}$ " minus
 $\frac{3}{4}$ " - 1 $\frac{1}{4}$ "

ROMANSTACK®



FIRE PITS



PLANTERS



RETAINING WALLS

ROMAN CYPRESS™



PLANTERS



RETAINING WALLS



STAIRS

4 x 8 Cap



4 x 12 Cap



4 x 8 Unit



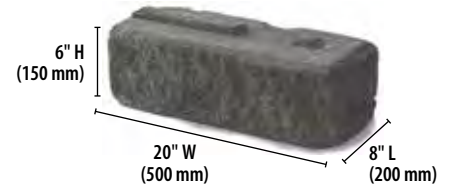
4 x 12 Unit



Tapered Unit



Corner Unit



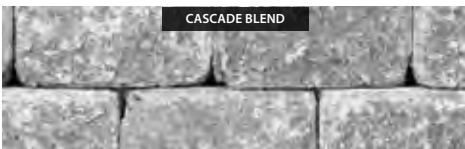
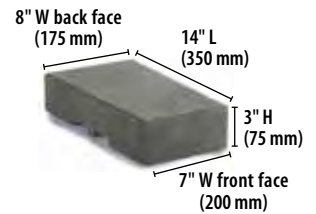
Jumbo Unit



90° Corner Unit



Revers-a-Cap*



CASCADE BLEND

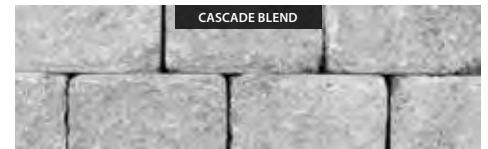
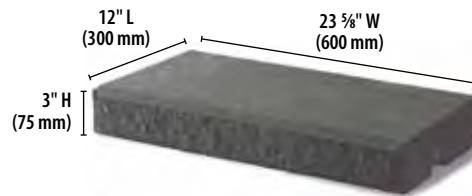


NORTHWEST BLEND



SUMMIT BLEND

Coping Unit*



CASCADE BLEND



HARVEST BLEND



SUMMIT BLEND

TUSCANSTONE™



BENCHES



FIRE PITS

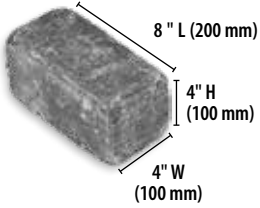


PATIOS

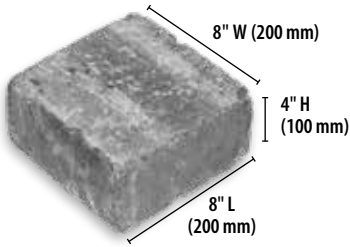


FOUNTAINS

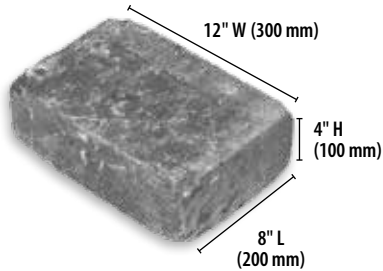
4" Unit



8" Unit



12" Unit



CHARCOAL



SUMMIT BLEND

CORNERSTONE®



TERRACES

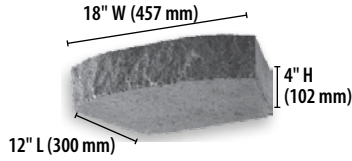


PLANTERS

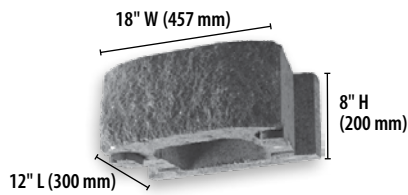


RETAINING WALLS

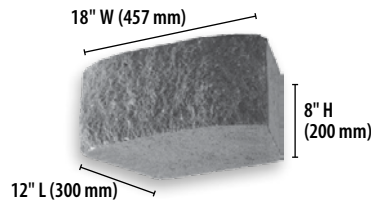
Radius Face 50 Cap*



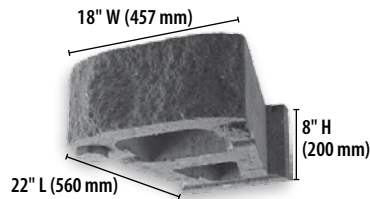
Radius Face 100 - New Shape



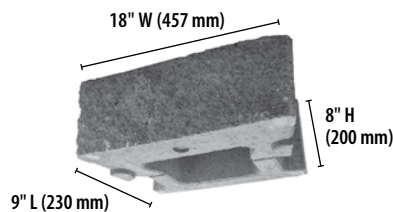
Radius Face 100 Cap



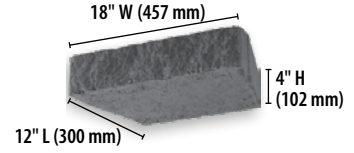
Radius Face 200



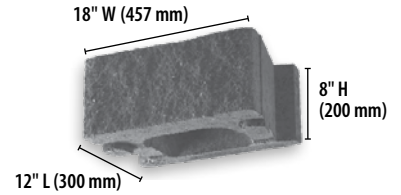
CornerStone® Near Vertical



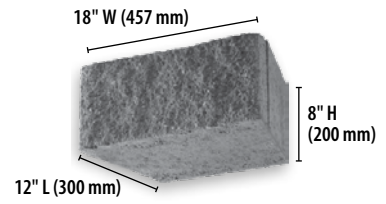
Flat Face 50 Cap*



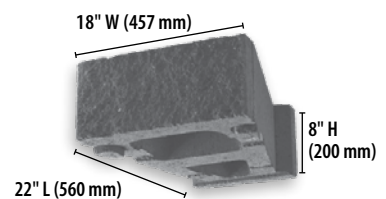
Flat Face 100 - New Shape



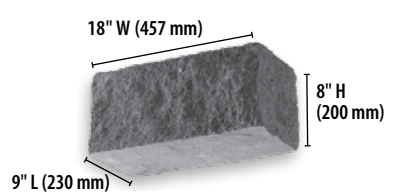
Flat Face 100 Cap



Flat Face 200



Flat Face 100 Corner**



GRAY



SUMMIT BLEND

CYPRESSSTONE™



TERRACES



PLANTERS

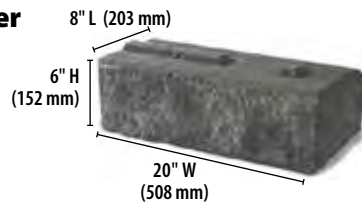


RETAINING WALLS

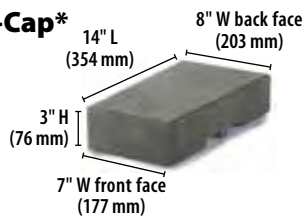
Tapered Unit



Corner Unit



Revers-a-Cap*



* Revers-a-Cap and Coping Unit are also available in Charcoal. CypressStone units are pre-split.

Coping Unit*



MANORSTONE®



TERRACES



PLANTERS



RETAINING WALLS

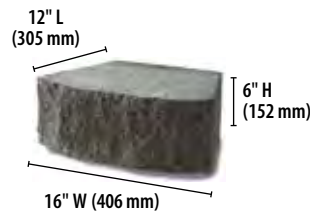
Flat Face Straight Sided



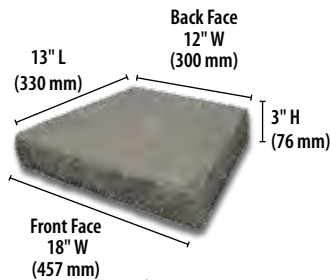
Flat Face Tapered



Radius Face Tapered

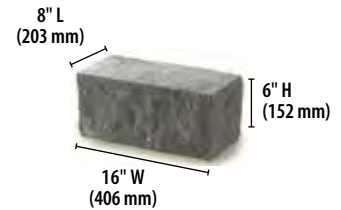


Flat Face Cap Tapered†



† Flat Face Cap Tapered is also available in Charcoal.

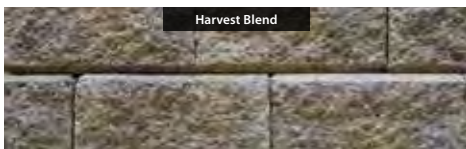
Corner**



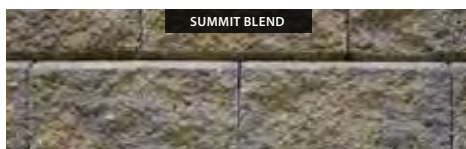
** Corners are available with Straight Sides and Flat Face only.



CASCADE BLEND



HARVEST BLEND



SUMMIT BLEND



GRAY



KHAKI



NORTHWEST BLEND



SUMMIT BLEND

PRE-PACKAGED KITS

FIRE PIT KITS:

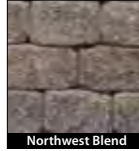
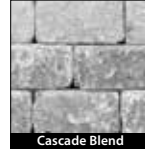
Pre-packaged on a pallet and ready for installation. Easy to order online at www.Store.MutualMaterials.com.



Mutual Stonehenge Fire Pit Kit

Outside Diameter: 58"

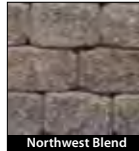
Inside Diameter: 43"



Mutual 39" Square Fire Pit Kit

Outside Diameter: 39" x 39"

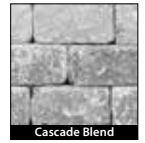
Inside Diameter: 23" x 23"



Mutual High-Back Round Fire Pit Kit

Outside Diameter: 58"

Inside Diameter: 42"



PRODUCTS FROM OUR PARTNERS

FIRE BOWLS

Artisan Fire Bowls provide an irresistible outdoor retreat of warmth and ambiance. Each bowl has been handcrafted by artisans through an extensive four-step finishing process, guaranteeing a one-of-a-kind creation with subtle variations in color and texture similar to natural limestone.



OYSTER SHELL
TRAVERTINE



MARBELLA

38.25" Dia x 20.375" H



INFINITE

36.25" Dia x 18.5" H



AGED TEAK
HONED

PRODUCTS FROM OUR PARTNERS

ISOKERN FIREPLACE & CHIMNEY COMPONENTS

Apply the brick or stone veneer of your choice.

Isokern Fireplace & Chimney components are lightweight while retaining UL 127 and UL 103HT (respectively) listings. Consequently, our Isokern Fireplace & Chimney Systems are less expensive to install than traditional masonry fireplaces. And, unlike typical metal-box fireplaces or concrete systems, they are built to last forever.

Pizza Oven

117526

Isokern Table Top Oven Isoveni

117527

Isokern Storage Base for Oven



Magnum Series, All Fuel Up to 48"

117446

Isokern Firebox Kit Magnum,
36" 82036

117447

Isokern Firebox Kit Magnum, 4
2" 82042

117448

Isokern Firebox Kit Magnum,
48" 82048



Standard Series, All Fuel

Non- Stock



Magnum Series, All Fuel Up to 72"

117449

Isokern Firebox Kit Magnum,
60/72" 82072



B Vent IBV Series, Gas Only

117444

Isokern Firebox Kit
Double Smoke Dome,
36" 80B

117445

Isokern Firebox Kit
Double Smoke Dome
46" 80B

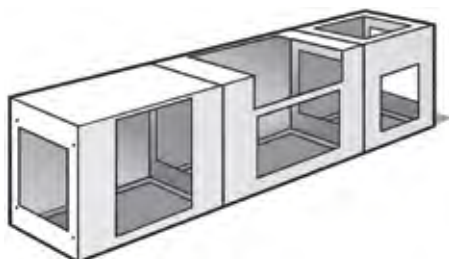


OUTDOOR KITCHEN CABINET SYSTEMS

Apply the brick or stone veneer of your choice.

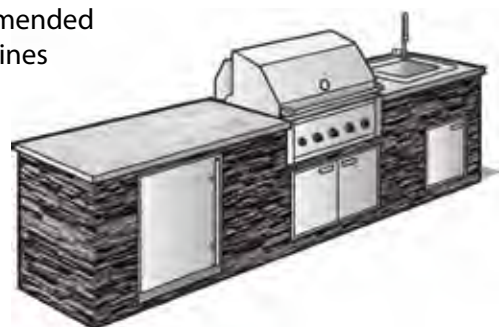
A great outdoor kitchen requires a strong foundation. The LOC fiberglass concrete outdoor cabinet systems allow you to purchase various pre-fabricated building blocks for your outdoor space. With the option of pre-cut appliance openings, installation is fast, easy and allows you to install the facing and counter-tops of your choice.

CUT APPLIANCE OPENINGS

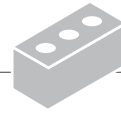


INSTALL FINISHING MATERIALS

- Install material directly to the pre-scratched cabinets
- Follow the recommended installation guidelines



FACE BRICK COLOR SELECTIONS*



Grays



Redondo Gray - Mission ■

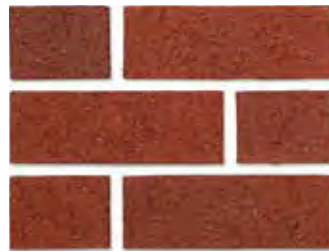


Redondo Gray - Smooth ■

Reds & Browns



Autumn Blend - Smooth ●



Inca - Mission ■



Inca - Smooth ■



Forest Blend - Mission ●



Mountain Blend - Mission ●

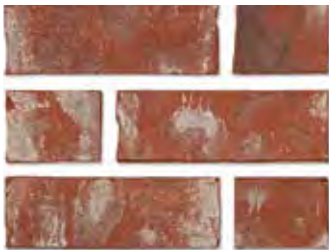


Mountain Blend - Smooth ●

Traditional Reds & Browns



Cedar Creek ●



Homestead Used ●



Old University ■



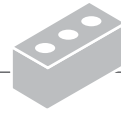
Pacific Handmold ●



Vancouver Used ●

Plant key: ● = Columbia ■ = Mica

FACE BRICK COLOR SELECTIONS*



Traditional Pastels



Canyon Mist ■



Harbor Mist ■



Ashland ●



Cascade Spice ●



Chateau Gray ■

Traditional Iron Wash



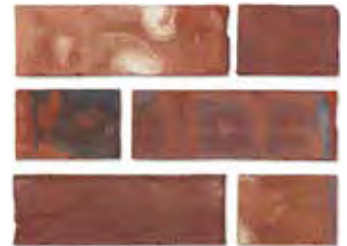
Clinker ●



Coal Creek ●



Covington ●



Sheffield ●



Windsor ●

Traditional Tumbled Used



Classic Used ■



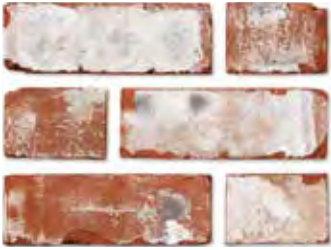
Mutual Used ●



Westport Used ■

Plant key: ● = Columbia ■ = Mica

SLIMBRICK® CRAFTSMAN COLOR SELECTIONS



Ashland Used ■



Canyon Mist ■



Chateau Gray ■



Classic Used ■



Coal Creek ●



Coffee House ●



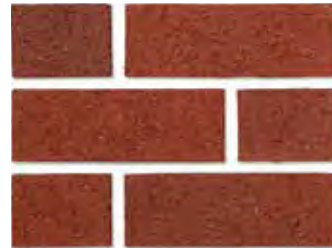
Covington ●



Ebony - Slimbrick Texture ■



Forest Blend ●



Inca - Slimbrick Texture ■



Mutual Used ●



Old University ■



Westport Used ■

Plant key: ● = Columbia ■ = Mica

SLIMBRICK® GLAZED COLOR SELECTIONS



SLIMBRICK® Glazed Gloss



Parchment ■



Smoke ■



Shadow ■



Onyx ■



Picket Fence ■



Sand ■



Tweed ■



Cobalt ■

SLIMBRICK® Glazed Matte



Powder ■



Ash ■



Carbon ■



Cranberry ■



Plant key: ● = Columbia ■ = Mica

Shop for Mutual Materials products online at store.mutualmaterials.com!

CULTURED STONE



Cobblefield®



Cobblefield®—Gray



Cobblefield—San Francisco

Country Ledgestone



Country Ledgestone—Ashfall



Country Ledgestone—Aspen

Country Ledgestone



Country Ledgestone—
Black Rundle



Country Ledgestone—
Bucks County



Country Ledgestone—
Chardonnay



Country Ledgestone—
Eucalyptus



Country Ledgestone—
Echo Ridge™



Country Ledgestone—
Hudson Bay



Country Ledgestone—
Skyline



Country Ledgestone—Wolf Creek

Fieldstone



Dressed Fieldstone—Aspen



Dressed Fieldstone—Bucks County



Dressed Fieldstone—Chardonnay



Dressed Fieldstone—Echo Ridge

Southern Ledgestone



Southern Ledgestone—Aspen



Southern Ledgestone—
Bucks County



Southern Ledgestone—
Chardonnay



Southern Ledgestone—
Echo Ridge

CULTURED STONE



European Castle Stone



European Castle Stone—
Bucks County



European Castle Stone—
Chardonnay

Limestone



Limestone—Bucks County



Limestone—Chardonnay

Del Mare LedgeStone



Del Mare LedgeStone—Black Isle

Hewn Stone™



Hewn Stone™—Talus

River Rock & Stream Stone



River Rock—Lake Tahoe



Stream Stone—Spring

ProStone®



Easy Fit Savannah LedgeStone—
Vintage Wine



Easy Fit Savannah LedgeStone—
Glacier Valley



LedgeStone—Charcoal Mist



LedgeStone—Vintage Wine



Pro-Fit® Alpine Ledgestone



ProFit® Alpine Ledgestone—
Black Mountain



ProFit® Alpine Ledgestone—
Chardonnay



ProFit® Alpine Ledgestone—
Echo Ridge



ProFit® Alpine Ledgestone—
Pheasant

Pro-Fit® Terrain Ledgestone



ProFit® Terrain Ledgestone—
Arcadia



ProFit® Terrain Ledgestone—
Arctic



ProFit® Terrain Ledgestone—
Ethos Ridge



ProFit® Terrain Ledgestone—
Trek

Pro-Fit® Ledgestone



ProFit® Ledgestone—Gray

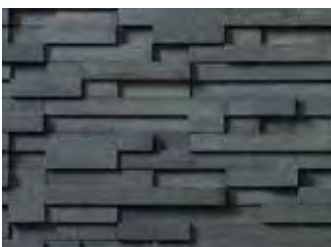


ProFit® Ledgestone—Shale



ProFit® Ledgestone—
Southwest Blend

Pro-Fit® Modera



ProFit® Modera—Carbon



ProFit® Modera—Vellum



Full Stone Random Veneer



Rocky Mountain Split Random

Full Stone Squares & Recs



Camas Squares & Recs

Ledgestone



Cabinet Gorge



Sage Hill

River Rock



Oregon River Rock

Flagstones, Stepstones & Patio Stones



Birch Creek



Blue Stone Tumbled



Blue Stone Treads

Flagstones, Stepstones & Patio Stones



Blue Stone Variegated Pre-Cut



Cabinet Ridge
Patio: 1"-2"



Charcoal
 $\frac{3}{4}$ " minus, $\frac{3}{4}$ "-1 $\frac{1}{4}$ "



Frontier
1 $\frac{1}{2}$ " - 2 $\frac{1}{2}$ "



Iron Mountain
1"-2" Flagstone, 1"-2" Stepstone



Lone Pine Gold
 $\frac{3}{4}$ " minus, $\frac{3}{4}$ "-1 $\frac{1}{4}$ "



Mica Slate Charcoal



Mica Slate Birch Creek



Variegated
 $\frac{3}{4}$ " minus, $\frac{3}{4}$ "-1 $\frac{1}{4}$ "

* Not all stone are stocked at all locations. Stock is based on local preferences. Mutual Materials offers a wide variety of natural stone. These images are representative of offerings, but may not be complete. If you are seeking natural stone, give us a call or stop in to a branch so that we can help you find the ideal stone for your project.



Thin Natural Stone Veneer



Berkshire Ledgestone



Bitterroot Natural Ledgestone



Black Horse Alpine



Camas Squares & Recs**



Canyon Creek Natural Ledgestone



Choctaw Dark



Choctaw Light Tumbled



Falls Creek



Glacier Mountain Ledgestone



Hillside Blend



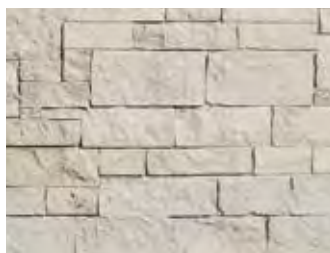
Loon Lake Ledgestone



Rocky Mountain Moss



Western Dry Stack



White Mountain

Thin Stone Panels



Autumn Sunset Craftsman



Autumn Sunset Ledgestone



Mountain Gold Craftsman

* Not all stone are stocked at all locations. Stock is based on local preferences. Mutual Materials offers a wide variety of natural stone. These images are representative of offerings, but may not be complete. If you are seeking natural stone, give us a call or stop in to a branch so that we can help you find the ideal stone for your project.

** Oregon only.

PRODUCT DATA: PAVERS

Clay Pavers*

	Coverage	Units / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet	Use
1" Mica-Tile	4.5 / ft ² (48.44 / m ²)	1,296	288 ft ² (26.86 m ²)	2 lb (0.9 kg)	2,642 lb (1,198.39 kg)	*
1 ½" Paver	4.5 / ft ² (48.44 / m ²)	750	166.7 ft ² (15.48 m ²)	3.6 lb (1.63 kg)	2,750 lb (1,247.38 kg)	**
2 ¼" Paver	4.5 / ft ² (48.44 / m ²)	576	128 ft ² (11.89 m ²)	5.5 lb (2.49 kg)	3,218 lb (1,459.66 kg)	***
2 ¾" Paver	4.5 / ft ² (48.44 / m ²)	576	128 ft ² (11.89 m ²)	6 lb (2.72 kg)	3,506 lb (1,590.29 kg)	***

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

* Designed for mortar-set, pedestrian applications only.

** Designed for mortar-set or sand-set, pedestrian applications only.

*** Designed to be sand-set. May be used for pedestrian and light vehicular applications.

Dominion Slate and Roman Dominion

	Coverage	Units / Pallet	Coverage / Pallet	Weight / Layer	Weight / Pallet
Square	4.73 pcs / ft ² (51.5 pcs / m ²)	432	91.26 ft ² (8.48 m ²)	5.8 lbs (2.6 kg)	2,560 lbs (1,161.2 kg)
Rectangle	3.16 pcs / ft ² (34.4 pcs / m ²)	324	102.6 ft ² (9.53 m ²)	8.7 lbs (3.9 kg)	2,870 lbs (1,302 kg)
Large Rectangle**	1.59 pcs / ft ² (17.1 pcs / m ²)	144	90.8 ft ² (8.43 m ²)	17.6 lbs (8 kg)	2,582 lbs (1,171.2 kg)

Roman Cobblestone

	Coverage	Units / Pallet	Coverage / Pallet	Weight / Unit	Weight / Pallet
Small	7.17 pcs / ft ² (77.17 m ²)	693	96.6 ft ² (8.98 m ²)	4.3 lb (2 kg)	2,960 lbs (1,342 kg)
Medium	3.53 pcs / ft ² (37.95 m ²)	378	107.2 ft ² (9.96 m ²)	8.5 lb (3.8 kg)	3,225 lbs (1,372 kg)
Large	2.29 pcs / ft ² (24.45 m ²)	225	97.1 ft ² (9 m ²)	13 lb (5.7 kg)	2,840 lbs (1,288 kg)

All **Weight per Pallet** noted above include a 50 lb pallet weight. Paleo must be purchased by the full layer—sizes are mixed on each layer.

* All metric dimensions are soft converted to Imperial. Dimensions and coverage include 1.5 mm (1/16") joint

Old Dominion Squares & Recs

	Coverage Layer	Layers / Pallet	Coverage / Pallet	Weight / Layer	Weight / Pallet
Squares & Recs	11.43 ft ² (1.06 m ²)	9	102.74 ft ² (9.54 m ²)	320 lbs (145 kg)	2,930 lbs (1,329 kg)

All **Weight per Pallet** noted above include a 50 lb pallet weight. Paleo must be purchased by the full layer—sizes are mixed on each layer.

* All metric dimensions are soft converted to Imperial. Dimensions and coverage include 1.5 mm (1/16") joint

Squares & Rectangles Purchase Requirement

All three (3) shapes are mixed on each layer and must be purchased by the full layer or full pallet.

Squares & Rectangles Pallet Layout

Old Dominion Squares & Rectangles can be installed in a number of random or linear patterns. Experiment until you achieve the look that you desire. The diagram below shows the layout of each layer on the pallet.



Square

2 ¾" x 5 ½" x 5 ½"
(6 cm x 14 cm x 14 cm)



Large Rectangle

2 ¾" x 5 ½" x 4 ⅛"
(6 cm x 14 cm x 10.5 cm)



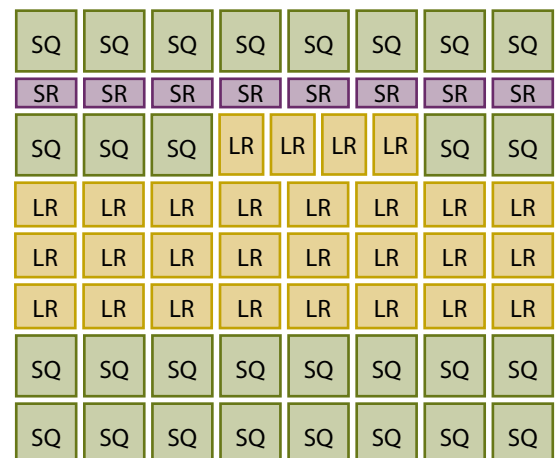
Small Rectangle

2 ¾" x 5 ½" x 2 ¾"
(6 cm x 14 cm x 7 cm)

SQ = Square
(5 ½" x 5 ½")

LR = Large Rectangle
(5 ½" x 4 ⅛")

SR = Small Rectangle
(5 ½" x 2 ¾")



PRODUCT DATA: PAVERS

Old Dominion Circle Kits

	Depth	Radius	Diameter	Circumference**	Area Of Circle	Pallet Wt
1 Pallet	2 3/8" (6 cm)	41 3/4" (106 cm)	83 1/2" (212 cm)	262 3/4" (615.8 cm)	39.27 ft ² (3.65 m ²)	1,150 lb (522 kg)
2 Pallets	2 3/8" (6 cm)	58 7/16" (148.4 cm)	116 7/8" (296.8 cm)	367 3/16" (932.7 cm)	78.54 ft ² (7.29 m ²)	1,150 lb (522 kg)

* All metric dimensions are soft converted to Imperial. Dimensions and coverage include 1/8" (3 mm) joint. Dimensions refer to completed circle.

** 262 3/8" = 21.86 ft, 367 3/16" = 30.6 ft

Holland

	Pieces / ft ² (m ²)	Pieces / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet
Holland	4.63 pcs / ft ² (50.04 pcs / m ²)	486	104.88 ft ² (9.74 m ²)	6 lb (2.7 kg)	2,966 lb (1,346 kg)
Double Holland	2.31 pcs / ft ² (24.86 pcs / m ²)	216	93.46 ft ² (8.68 m ²)	12 lb (5.4 kg)	2,642 lb (1,199 kg)
Triple Holland	1.57 pcs / ft ² (16.95 pcs / m ²)	144	92 ft ² (8.55 m ²)	18 lb (8.16 kg)	2,650 lb (1,202 kg)

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

* All metric dimensions are soft converted to Imperial. Dimensions and coverage include 1.5 mm (1/16") joint

Plank Pavers

	Pieces / Pallet	Coverage / Piece	Coverage / Pallet	Weight / Piece	Weight / Pallet
Plank Paver Unit	396	4 pcs / ft ² (43 pcs / m ²)	99 ft ² (9.2 m ²)	7 lb (3.2 kg)	2,772 lbs (1,257 kg)

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

Eco-Priora®

	Pieces / Pallet	Net Void / Ft ²	Coverage / Piece	Coverage / Pallet	Weight / Unit	Weight / Pallet
4 x 8 Unit	432	13%	4.5 pcs / ft ²	93.2 ft ² (8.65 m ²)	8 lbs (3.6 kg)	3,456 lbs (1,567 kg)
8 x 8 Unit	192	9%	2.25 / ft ²	83.04 ft ² (7.71 m ²)	16 lbs (7.2 kg)	3,172 lbs (1,439 kg)

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

* All metric dimensions are soft converted to Imperial.

Uni-Ecoloc®

Coverage / Layer	Net Void / Ft ²	Layers / Pallet**	Coverage / Pallet	Weight / Layer	Weight / Pallet
11.35 ft ² (1.055 m ²)	12.8%	8	90.8 ft ² (8.44 m ²)	315 lbs (143 kg)	2,570 lbs (1,166 kg)

** Uni Ecoloc must be purchased by the full layer or full pallet.

Uni-EcoStone®

Coverage	Net Void	Pieces / ft ²	Pieces / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet
3.52 pcs / ft ² (37.9 pcs / m ²)	12.18%	3.55	320	90.8 ft ² (8.44 m ²)	10 lb (4.5 kg)	3,250 lb (1,474.1 kg)

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

* All metric dimensions are soft converted to Imperial. Dimensions and coverage include 1.5 mm (1/16") joint.

PRODUCT DATA: PAVERS & SLABS

TurfStone

Coverage	Pieces / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet
2.6 ft ² / pc (0.24 pcs / m ²)	35	91 ft ² (8.45 m ²)	65 lb (30 kg)	2,325 lbs (1,055 kg)

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

* All metric dimensions are soft converted to Imperial. Dimensions and coverage include 1/16" (1.5 mm) joint.

Permeable Holland Herringbone 8 cm

Pieces / ft ²	Net Void	Pieces / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet
4.75	8.4%	432	91.12 ft ² (8.46 m ²)	8 lbs (3.6 kg)	3,456 lbs (1,567 kg)

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

* All metric dimensions are soft converted to Imperial.

Columbia Slate

Unit	Units / Pallet	Coverage	Coverage / Pallet	Weight / Piece	Weight / Pallet
Rectangle	168	1.125 pcs/ft ² (12.5 pcs/m ²)	149.33 ft ² (18.15 m ²)	18 lb (8.2 kg)	3,074 lb (1,394.3 kg)
Square	84	.58 pcs/ft ² (6.25 pcs/m ²)	144.83 ft ² (13.44 m ²)	36 lb (16.4 kg)	3,074 lb (1,394.3 kg)
Large Rectangle	56	.39 pcs/ft ² (4.17 pcs/m ²)	143.6 ft ² (13.34 m ²)	60 lb (27.2 kg)	3,410 lb (1,546.75 kg)

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

* All metric dimensions are soft converted to Imperial. Dimensions and coverage include 1.5 mm (1/16") joint

Architectural Slabs

Product	Actual Size	Coverage / Unit	Coverage / Pallet	Pieces/Pallet	Weight / Unit	Weight / Pallet
Vancouver Bay 24 x 24	23 15/16" x 23 15/16" x 1 7/8" (608 mm x 606 mm x 45 mm)	4.0 ft ² (0.37 m ²)	112 ft ² (10.4 m ²)	24	90 lb (40.8 kg)	2200 (998 kg)
Vancouver Bay 12 x 24	11 15/16" x 23 15/16" x 1 7/8" (304 mm x 608 mm x 45 mm)	2.0 ft ² (0.185 m ²)	112 ft ² (10.4 m ²)	56	45 lb (20.4 kg)	2500 (1,143 kg)
Vancouver Bay 18 x 18	17 15/16" x 17 15/16" x 1 3/4" (454 mm x 454 mm x 45 mm)	2.25 ft ² (0.21 m ²)	126 ft ² (11.7 m ²)	56	45 lb (20.4 kg)	2500 (1,143 kg)
Glacier Slate 24 x 24	23 15/16" x 23 15/16" x 1 3/4 7/8" (608 mm x 606 mm x 45 mm)	4.0 ft ² (0.37 m ²)	112 ft ² (10.4 m ²)	24	90 lb (40.8 kg)	2200 (998 kg)

Porcelain Pavers

Description	Dimensions	Weight Lbs		Packaging	
		Each	Per SF	Per Case	Per Pallet
Bluestone Select	23 5/8" x 23 5/8" (60 cm x 60 cm)	36.4 lbs each	9.4 lbs per SF	2 pieces	60 pieces
Brave Pearl					
Limestone					
Pepper					
Seastone Grey					
Trust Gold					
Trust Silver					
Vintage					

Slaton™

Coverage	Units / Pallet	Weight / Piece	Coverage /Pallet	Weight / Pallet
1.39 ft ² / pcs (0.42 m ² / pcs)	48	43 lb (19.5 kg)	66.7 ft ² (6.2 m ²)	2,114 lb (956 kg)

* All metric dimensions are soft converted to Imperial. Dimensions and coverage include 1/2" (12.7 mm) joint.

PRODUCT DATA: WALLS

CornerStone 50

	Coverage	Units / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet
R-50 Cap Tapered	1.5 ln ft / pc (0.457 ln m / pc)	48	72 ln ft (21.95 ln m)	60 lb (27 kg)	2,930 lb (1,329 kg)
R-50 Cap Straight-Sides	1.5 ln ft / pc (0.457 ln m / pc)	48	72 ln ft (21.95 ln m)	60 lb (27 kg)	2,930 lb (1,329 kg)
F-50 Cap Tapered	1.5 ln ft / pc (0.457 ln m / pc)	48	72 ln ft (21.95 ln m)	60 lb (27 kg)	2,930 lb (1,329 kg)
F-50 Cap Straight-Sides	1.5 ln ft / pc (0.457 ln m / pc)	48	72 ln ft (21.95 ln m)	60 lb (27 kg)	2,930 lb (1,329 kg)

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

* R-50 Cap and F-50 Cap are available with straight sides.

Maximum gravity wall height: 3'.

Note: Each course batters back 5/8" from the previous course.

CornerStone 100

	Coverage	Units / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet
R-100 Unit	1 pc / ft ² (10.76 pc / m ²)	40	40 ft ² (3.72 m ²)	76 lb (34.5 kg)	3,090 lb (1,402 kg)
R-100 Cap	1.5 ln ft / pc (0.457 ln m / pc)	32	48 ln ft (14.63 ln m)	110 lb (50 kg)	3,570 lb (1,690.3 kg)
R-100 Cap Straight-Sides	1.5 ln ft / pc (0.457 ln m / pc)	24	48 ln ft (14.63 ln m)	110 lb (50 kg)	3,570 lb (1,690.3 kg)
F-100 Unit	1 pc / ft ² (10.76 pc / m ²)	40	40 ft ² (3.72 m ²)	83 lb (34 kg)	3,570 lb (1,690.3 kg)
F-100 Cap	1.5 ln ft / pc (0.457 ln m / pc)	32	48 ln ft (14.63 ln m)	110 lb (50 kg)	3,570 lb (1,690.3 kg)
F-100 Cap Straight-Sides	1.5 ln ft / pc (0.457 ln m / pc)	24	48 ln ft (14.63 ln m)	110 lb (50 kg)	3,570 lb (1,690.3 kg)
F-100 Corner	1.5 ft ² / pc (.093 m ² / pc)	40	60 ft ² (3.72 m ²)	85 lb (38.5 kg)	3,450 lb (1,565 kg)

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

Maximum gravity wall height: 4'. Without any surcharges. Maximum reinforced wall height: 30'. Minimum radius 3' 5".

* Also available with straight-sides.

Note: Each course batters back 5/8" from the previous course.

CornerStone 200

	Coverage	Units / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet
R-200 Unit	1 pc / ft ² (10.76 pc / m ²)	25	25 ft ² (2.325 m ²)	130 lb (59 kg)	3,330 lb (1,510 kg)
F-200 Unit	1 pc / ft ² (10.76 pc / m ²)	25	25 ft ² (2.325 m ²)	130 lb (59 kg)	3,330 lb (1,510 kg)

* All metric dimensions are soft converted to Imperial. Dimensions and coverage include 1/8" (3 mm) joint. Dimensions refer to completed circle.

** 262 3/8" = 21.86 ft, 367 3/8" = 30.6 ft

ManorStone®

	Coverage	Units / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet
Radius Face Tapered-Sides	1.5 pcs / ft ² (16.2 pcs / m ²)	45	30 ft ² (2.79 m ²)	62 lb. (28 kg)	2,840 lbs (1,289 kg)
Radius Face Straight-Sides	1.5 pcs / ft ² (16.2 pcs / m ²)	45	30 ft ² (2.79 m ²)	75 lb. (34 kg)	3,425 lbs (1,554 kg)
Flat Face Tapered-Sides	1.5 pcs / ft ² (16.2 pcs / m ²)	45	30 ft ² (2.79 m ²)	64 lb. (29 kg)	2,930 lbs (1,329 kg)
Flat Face Straight-Sides	1.5 pcs / ft ² (16.2 pcs / m ²)	45	30 ft ² (2.79 m ²)	79 lb. (36 kg)	3,605 lbs (1,636 kg)
Corner Unit	1 pc / ft ²	60	60 ft ²	56 lb. (25.5 kg)	3,410 lbs (1,547 kg)
Cap Unit	0.8 pcs/Ln ft	72	90 Ln ft	45 lb. (20.4 kg)	3,290 lbs (1,493 kg)

All **Weight per Pallet** noted above include a 50 lb pallet weight. Maximum wall height: 3'. Minimum radius: 2' 8".

PRODUCT DATA: WALLS

CypressStone

	Coverage	Units / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet
Standard/Tapered Unit	3 pcs / ft ² (32.3 pcs / m ²)	72	24 ft ² (1.85 m ²)	45 lb (43 lb)	3,240 lb (2,630 lb)
Corner Unit	1.2 ft ² / pc (0.077 m ² / pc)	30	36 ft ² (2.32 m ²)	77 lb (35 kg)	2,360 lb (1,070 kg)
Revers-a-Cap*	1.5 pcs / ln ft (4.92 pcs / ln m)	96	64 ln ft (22.9 ln m)	22 lb (10 kg)	2,640 lb (1,220 kg)
12" Coping Unit	2 ln ft / pc (0.6 ln m / pc)	36	72 ln ft (19.5 ln m)	62 lb (30.8 kg)	2,262 lb (1,010 kg)

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

Maximum gravity wall height: 4'. Minimum radius: 8'. Please consult sales representative for maximum reinforced wall height.

* Coverage is for 8" faces only. If alternating 7" and 8" faces, there are 1.6 pcs / ln ft (5.25 pcs / ln. m).

Coverage per pallet is 60 ln ft (18.29 ln m). There are 24 end caps on each pallet. Purchase Requirement

Roman Cypress

	Coverage	Units / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet
Standard/Tapered Unit	3 pcs / ft ² (32.3 pcs / m ²)	72	24 ft ² (2.23 m ²)	45 lb / 20 lb	3,290 lb (1,493 kg)
Corner Unit	1.2 ft ² / pc (0.111 m ² / pc)	30	36 ft ² (3.34 m ²)	77 lb (35 kg)	2,360 lb (1,070 kg)
Revers-a-Cap*	1.5 pcs / ln ft (4.92 pcs / ln m)	96	64 ln ft (19.5 ln m)	22 lb (10 kg)	2,162 lb (981 kg)
12" Coping Unit	2 ln ft / pc (0.6 ln m / pc)	36	72 ln ft (21.9 ln m)	62 lb (28 kg)	2,282 lb (1,035 kg)

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

Maximum gravity wall height: 4'. Minimum radius: 8'. Please consult an engineer for maximum reinforced wall height.

* Coverage is for 8" faces only. If alternating 7" and 8" faces, there are 1.6 pcs / ln ft (5.25 pcs / ln. m).

Coverage per pallet is 60 ln ft (18.29 ln m). There are 24 end caps on each pallet.

RomanStack®

	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	1.1 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'. Minimum radius: 2' 4".

* 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.

TuscanStone™

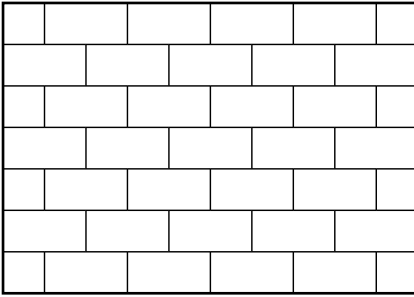
	Coverage	Units / Pallet	Coverage / Pallet	Weight / Piece	Weight / Pallet
12" Unit	3 pcs / ft ² (32.15 pcs m ²)	90	30 ft ² (2.80 m ²)*	30 lb (14 kg)	2,750 lb (1,247.3 kg)
8" Unit	4.55 pcs / ft ² (50 pcs m ²)	120	26.4 ft ² (2.45 m ²)**	20 lb (10 kg)	2,450 lb (1,111.3 kg)
4" Unit	4.55 pcs / ft ² (50 pcs m ²)	240	26.4 ft ² (2.45 m ²)**	10 lb (4.54 kg)	2,450 lb (1,111.3 kg)

* Using a 4" x 12" face.

** Using a 4" x 8" face All **Weight per Pallet** noted above include a 50 lb pallet weight.

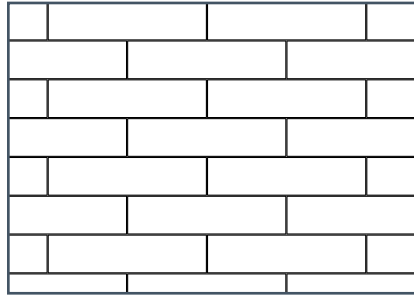
PAVER PATTERNS

RUNNING BOND 1



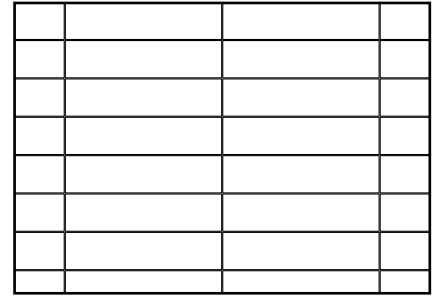
Clay Pavers
Columbia Slate Rectangles
Eco-Priora 4 X 8
Holland

RUNNING BOND 4



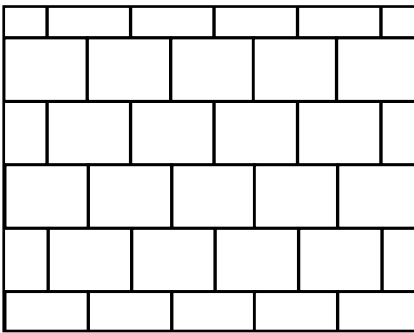
Plank Pavers

Stacked bond 2



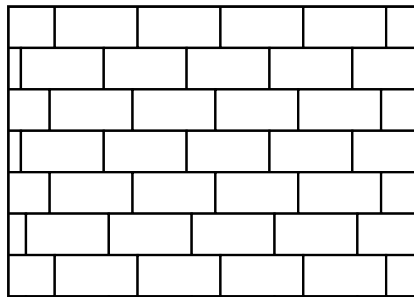
Plank Pavers

RUNNING BOND 2



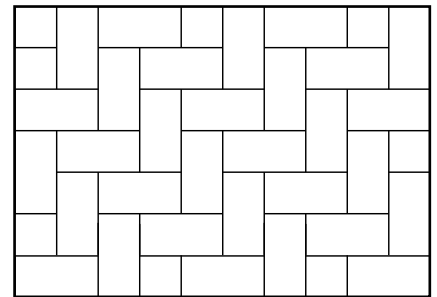
Roman Cobblestone Large
Dominion Slate
Roman Dominion

1/3 RUNNING BOND



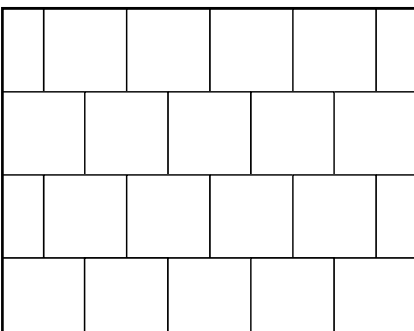
Clay Pavers
Columbia Slate Rectangles
Eco-Priora 4 x 8
Holland

Herringbone-1



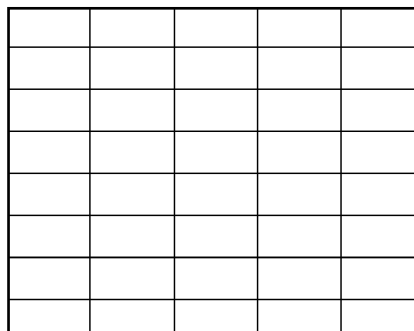
Clay Pavers
Columbia Slate Rectangles
Eco-Priora 4 x 8
Holland

RUNNING BOND 3



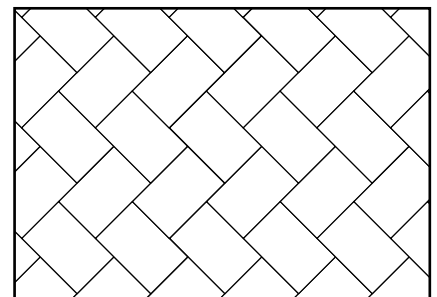
Dominion Slate Squares
Eco-Priora Squares
Architectural Slabs
Columbia Slate Squares
Roman Dominion Squares
Holland
Double Holland

STACKED BOND



Clay Pavers
Columbia Slate Rectangles
Eco-Priora 4 x 8
Holland

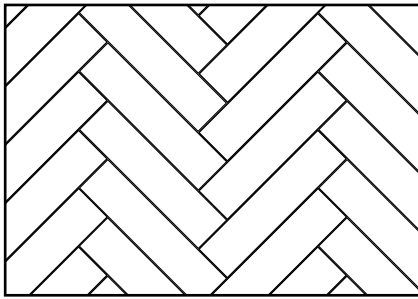
Herringbone-2



Roman Cobblestone Large
Dominion Slate
Roman Dominion

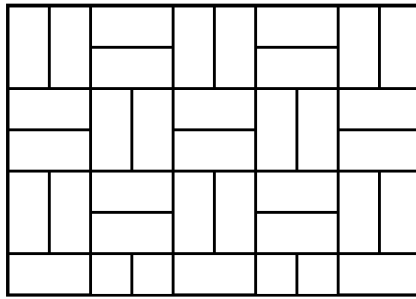
PAVER PATTERNS

Herringbone 3



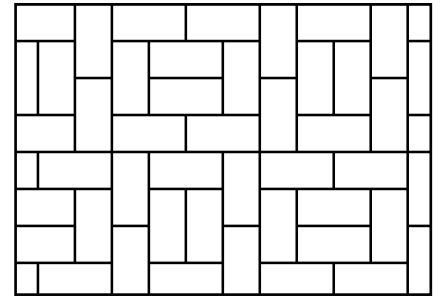
Plank Pavers

Double Basketweave



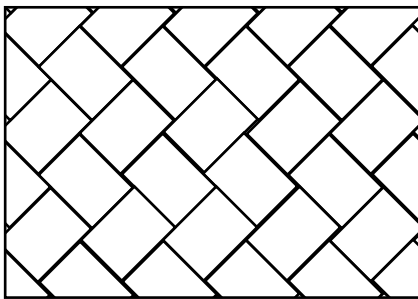
Clay Pavers
Columbia Slate Rectangles
Eco-Priora 4 x 8
Holland

Boxed Basketweave-1



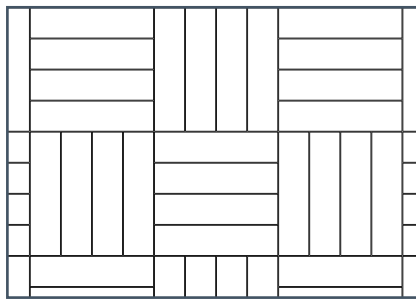
Clay Pavers
Columbia Slate Rectangles
Eco-Priora 4 x 8
Holland

Offset 45° Herringbone



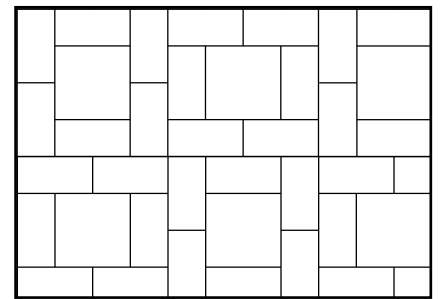
Roman Cobblestone

Basketweave



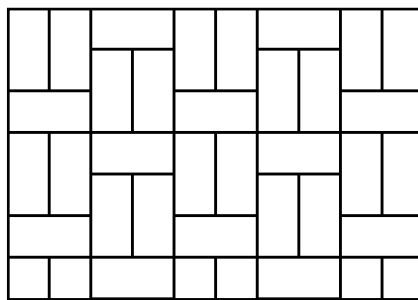
Plank Pavers

Boxed Basketweave-2



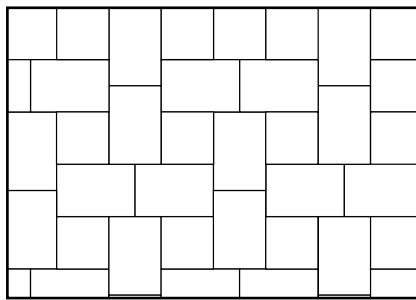
75% Rectangles, 25% Squares
Columbia Slate Rectangles + Squares
Eco-Priora 4 x 8 + 8 x 8
Holland + Double Holland
Roman Cobblestone Small & Medium

Single Basketweave



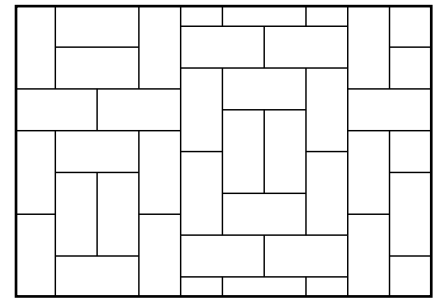
Clay Pavers
Columbia Slate Rectangles
Eco-Priora 4 x 8
Holland

Muster K



70% Rectangles, 30% Squares
Roman Dominion
Dominion Slate

Offset Boxed Basketweave



Clay Pavers
Columbia Slate Rectangles
Eco-Priora 4 x 8
Holland



The following are standard installation guidelines for a typical sand-set paver application. Please refer to the individual tech sheets for more specific information and installation instructions*.

Vehicular applications, such as a driveway or parking lot, require separate guidelines and one should consult a Mutual Materials representative, contractor or engineer before installing pavers for these purposes.

STEP 1: Excavation

Mark area to be paved with stakes and string lines at the desired finished elevation. Locate stakes outside the project area by a minimum of 12". This will



allow room for the edge restraint system. Excavate a minimum of 7" below final paver elevation. Allow 1/8" to 1/4" per foot slope for correct water runoff. Slope can be in more than one direction depending on jobsite circumstances. Water will not penetrate joints unless it is allowed to puddle or remain in an area. Remove any loose soils after excavation is complete.

STEP 2: Base Preparation

Add a dusting of 3/4" minus rock to the excavated area. This will allow the plate compactor to glide across area without sticking to sub grade. Compact the entire sub-grade



soils with a plate compactor. After compacting subgrade soils, add 1"-2" of 3/4" minus rock, rake smooth and compact. Base rock should have a certain amount of moisture content. Repeat steps until final base elevation is achieved. For a standard 2 3/8" concrete paver, the final base elevation should be 3" below final paver elevation. Remember, the final product will mirror the base elevation. Any deviation in base should be corrected at this time with base rock (not sand).

STEP 3: Edge Restraint

Any edge not retained by a solid, rigid structure (i.e. concrete, asphalt, etc.) should be contained with a plastic edge restraint system. These are easier to install after the pavers are laid. With spray nozzle, carefully moisten sand bed around perimeter of paver area. Remove excess sand around the perimeter with a trowel without disturbing the base. Place edge restraint system against paver/bedding sand and on top of compacted base rock. Install 10" spikes every 8"-12". Make sure that all edges are contained before compaction of pavers.



STEP 4: Bedding Sand

Bedding sand should be screeded at a depth of 1". Place 1" rigid pipes below elevation lines and measure down 2" to top of pipe. Place pipes parallel to each other and almost as wide as the strike board (2 x 4). Place sand in between pipes and pull strike board across both pipes. This will allow approximately 1" of sand screeded between the two pipes. Pull pipes out of sand; fill pipe voids with sand and trowel smooth. Do not compact sand bed.



STEP 5: Install Pavers**

Depending on the type of paver and pattern, starting points and direction of installation will vary. More times than not, opt for the easiest access



with the longest run where no cutting will be made. Also consider more visual areas (i.e. in line with windows, doors, water features, etc.). Pavers should be placed gently onto the sand bed and not pushed into it. Do not hammer-set pavers. Setting a string line 3" above setting bed will allow the installer to maintain straight pattern lines. After installing a larger area, place plywood on top of pavers to walk around on. This will distribute weight so individual pavers will not get embedded into sand before adjustments and final compaction is done. Slight adjusting can be accomplished by moving pavers to desired spot by inserting a flat head screwdriver in between pavers and pushing them. Cut pavers can be used to fill any voids in the pattern along the edges. Be sure to mix pavers from multiple pallets to achieve a consistent color blend.

STEP 6: Compaction

Compact first to achieve proper interlock and then sweep joint sand over entire area to fill paver joints and lock up pattern lines. Sweep excess joint sand off of paver surface. Place plate compactor on pavers and run compactor around perimeter. Then make back and forth runs, slightly overlapping the previous run. Sweep joint sand into joints again. Compact pavers in perpendicular runs to first compaction. When finished, sweep joint sand into paver joints until they are completely full. Plate compactors can be rented at most hardware stores.



* Special design is required with permeable paving systems. Please contact a Mutual Materials salesperson.

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



These instructions are intended as a general guide for walls less than 4 feet only. Please consult the technical specification sheet for the wall shape you choose for more specific installation instructions. Technical information for CypressStone™, Roman Cypress™, and CornerStone® walls over 4 feet requiring engineering and reinforcement are available from a Mutual Materials Representative.

View video demonstrations of installation online at www.mutualmaterials.com, or on YouTube.

STEP 1:

First mark the area of the wall with chalk or spray paint.

Dig out a trench that is a minimum of 6" (155 mm) deep plus 1" for every foot of wall height.



Allow 6"-8" (150-200 mm) of space behind the wall for ¾" clean crushed rock (this

means your trench is a minimum of 12" or 305 mm wide). Roots and big rocks should be removed from the trench. When the trench is dug out, put 3" of 5/8 minus crushed rock in the trench.



Tamp (compact) the base and level it front to back and side to side.



STEP 2:

Lay the base course of retaining wall blocks. Using a string line at the back of the blocks for alignment, place blocks 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.



STEP 3:

Start placing the second course. Center each block on the seams of the first course. If using ManorStone®, CottageStone® Advantage, or VineyardStone™ the connecting lip should be pointed down to overhang the back edge of the base units. If using RomanStack®, StackStone®, CypressStone®, or Roman Cypress, the bottom groove should be fitted over the tongue on the base blocks. If using CornerStone the connecting lugs should be pointed down to lock into the cores of the block below them.



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 on the score line until the unit splits. Always wear eye protection when splitting blocks. If many cuts are needed, a saw rental may be the way to go.

STEP 4:

After each course is laid, backfill behind wall with washed ¾" gravel or drain rock and compact in 3" to 4" layers. This step is important to help drainage and to prevent soil from leaching through the wall face. For an additional safeguard, landscape fabric can also be used between the backfill and the drain rock. To help drainage behind taller walls, perforated flexible drainpipe should also be used. Slope gravel behind wall so that the pipe laid behind the wall slopes 1" (25 mm) for every 4' (1.2 m) toward the desired run-off area.



STEP 5:

If using RomanStack, StackStone, CypressStone, Roman Cypress or CornerStone, place the final layer using cap units for a finished look.



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.





The following are standard installation guidelines for Concrete Architectural Slabs in a sand-set application. Concrete Architectural Slabs cannot be used in a vehicular application. For pedestal-set guidelines, please refer to the Architectural Slab Tech Sheet or visit us at www.mutualmaterials.com.

STEP 1: Excavation

Mark area to be paved with stakes and string lines at the desired finished elevation. Locate stakes outside the project



area by a minimum of 12". This will allow room for the edge restraint system. Excavate a minimum of 7" below final pavement elevation. Allow 1/8" to 1/4" per foot slope for correct water runoff. Slope can be in more than one direction depending on jobsite circumstances. Water will not penetrate joints unless it is allowed to puddle or remain in an area. Remove any loose soils after excavation is complete.

STEP 2: Base Preparation

Add a dusting of 3/4" minus rock to the excavated area. This will allow the plate compactor to glide across area



without sticking to sub grade. Compact entire sub-grade soil with plate compactor.* After compacting subgrade soil, add 1"-2" of 3/4" minus rock, rake smooth and compact. Base rock should have a certain amount of moisture content. Repeat steps until final base elevation is achieved. For a standard 1 3/4" architectural slab, the final base elevation should be 2 1/2" below final pavement elevation. Remember, the final product will mirror the base elevation. Any deviation in base should be corrected at this time with base rock (not sand).

STEP 3: Bedding Sand

Bedding sand should be screeded at a depth of 1". Place 1" rigid pipes below elevation lines and measure down 1 1/2"



to top of pipe. Place pipes parallel to each other and almost as wide as the strike board (2 x 4). Place sand in between pipes and pull strike board across both pipes. This will allow approximately 1" of sand screeded between the two pipes. Pull pipes out of sand; fill pipe voids with sand and trowel smooth. Do not compact sand bed.

STEP 4: Install Slabs

Depending on the size of slab and pattern, starting points and direction of installation will vary. More times then not,



opt for the easiest access with the longest run where no cutting will be made. Also consider more visual areas (i.e. in line with windows, doors, water features, etc). Slabs should be placed gently onto the sand bed and not pushed into it. Setting a string line 3" above setting bed will allow the installer to maintain straight pattern lines. After installing a larger area, place plywood on top of slabs to walk around on. This will distribute weight so individual slabs will not get embedded into sand before adjustments and final compaction is done. Slight adjusting can be accomplished by moving slabs to desired spot by inserting a flat head screwdriver in between slabs and pushing them. Cut slabs can be used to fill any voids in the pattern along the edges. Be sure to mix slabs from multiple pallets to achieve a consistent color blend.

STEP 5: Edge Restraint

Any edge not retained by a solid, rigid structure (i.e. concrete, asphalt, etc) should be contained with a plastic edge restraint system. These are easier to install after the slabs are laid. With spray nozzle, carefully moisten sand bed around perimeter of pavement area. Remove excess sand around the perimeter with a trowel without disturbing the base. Place edge restraint system against slab/ bedding sand and on top of compacted base rock. Install 10" spikes every 8"-12". Make sure that all edges are contained before compaction of slabs.



* Plate compactor can be rented at most rental outlets.

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



How to Install Flagstone in Crushed Base Rock

STEP 1:

First, you will need to determine the size of your patio, by staking it out with a string line and taking into consideration the type and thickness of your stone.

STEP 2:

Excavate the area to allow for a 3" layer of $\frac{3}{4}$ minus, a 1"-1½" layer of $\frac{1}{4}$ minus and the thickness of your stone.

STEP 3:

Lay out edging for the patio or walkway using ledge stone, plastic edging or concrete curb.

STEP 4:

Put a 4" layer of $\frac{3}{4}$ minus base rock. If drainage is a concern, you can use 1½ minus. Compact this base by tamping and watering or using a mechanical compactor, then lay out a 1½" thickness of fine $\frac{1}{4}$ minus as a bed for your stones.

STEP 5:

If your stone is of varying thickness, add or remove the $\frac{1}{4}$ minus as you go, keeping the stones level with each other and your border.

STEP 6:

Fill the joints between the stone with $\frac{1}{4}$ minus or screened decomposed granite while sweeping and watering as you go. This step will have to be repeated until you are satisfied with the finish or you can use a polymeric joint sand stabilizer. You may also elect to fill with conditioned topsoil between the stone joints and plant a ground cover if that is the look you desire.

How to Mortar Set a Pathway or Patio



STEP 1:

First, you will need to determine the size of your patio, by staking it out with a string line and taking into consideration the type and thickness of your stone.

STEP 2:

Excavate the area to a depth of 6"-7".

STEP 3:

Lay a 2" base of $\frac{3}{4}$ or 1½ minus base rock and compact it thoroughly.

STEP 4:

Form, pour and screed a 3" pad of concrete. When the cement is beginning to set, take a coarse broom or steel rake and roughen the surface to aid in the adhesion of the mortar bed and stone.

STEP 5:

Lay a 1" mortar* bed, screed level. Screed only as much mortar as you can lay stone on before the mortar begins to set. Stones should be free of any dirt or debris. Apply a neet cement** to the back of each stone just before laying. Set your stone, leveling as you go. Tap stones with a rubber mallet to level and provide consistent contact with the mortar bed. Compensate for the variations in the thickness by adding or removing mortar as you go. Try to keep your joint spaces about $\frac{3}{4}$ " or so and avoid long, continuous joint lines.

STEP 6:

Grout*** joints with a float. Clean excess grout from stone with a damp sponge before grout sets.

* Mortar should be 1 part portland cement and 4 to 5 parts damp sand by volume with just enough water to form a loose ball.

** Neet cement should be portland cement and water in a cake batter consistency

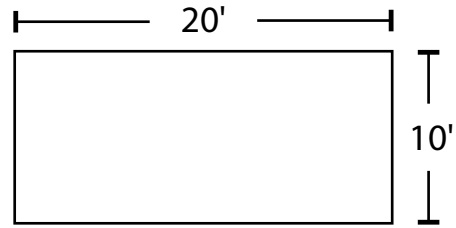
*** Grout should be 1 part portland cement to 3 parts sand with water to mortar consistency.

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 \times _____ 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. \times _____ 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

PROJECT WORKSHEETS

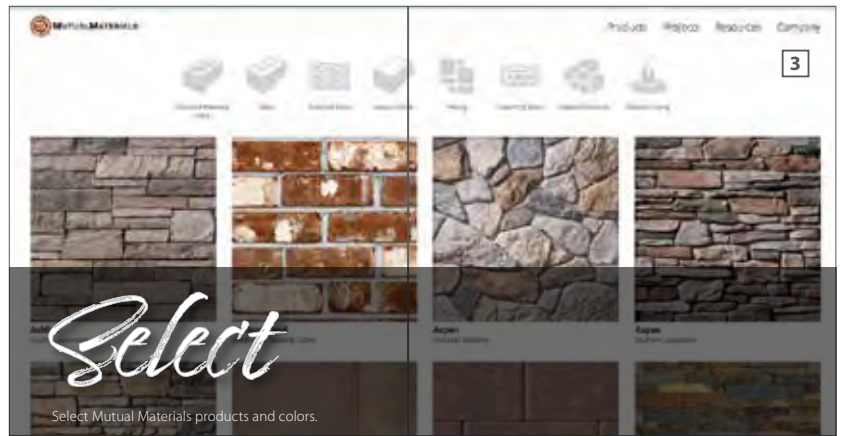
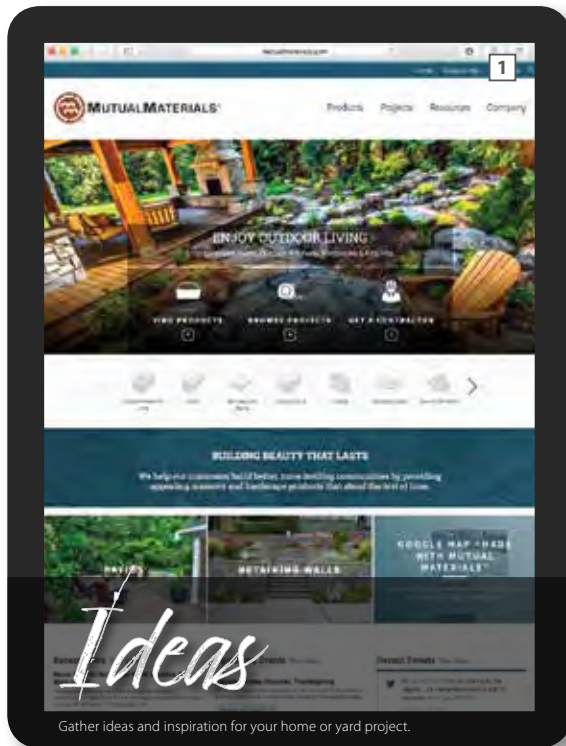
A large grid of 20 columns and 30 rows, intended for project worksheets. The grid is composed of thin gray lines forming a series of small squares.

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