



**MUTUAL MATERIALS®**

*Trusted Since 1900*

# **HARDSCAPE** *Create it today, enjoy it forever.*



**PAVERS | RETAINING WALLS | NATURAL STONE**



**Kendall Anderegg**  
President, Mutual Materials

Hello,

Thank you for considering Mutual Materials for your project.

At Mutual Materials our mission is to provide high quality masonry and hardscape products, which are ultimately used to create beautiful buildings, family homes, relaxing public landscapes and private outdoor living areas. It is inspiring to see in our community the visionary uses of our products in creating hospitals, schools, stadiums, businesses, homes, parks and backyard spaces.

Mutual Materials is also a family business and we locally manufacture the products we sell. From humble beginnings with one brick plant in Seattle during 1900, we have grown today into a major regional employer operating more than 10 manufacturing plants and 16 branch offices across Washington, Oregon, Idaho, Montana and British Columbia.

On behalf of the team here at Mutual Materials, we appreciate our customers. Thanks for the opportunity to win your business, and we hope that we can help you build something great.

Sincerely,



Kendall Anderegg  
President, Mutual Materials



## Contents

<b>Environmental Commitment</b> .....	<b>4</b>	<b>Pavers Intro</b> .....	<b>10</b>
<b>Sustainability &amp; LEED</b> .....	<b>5</b>	Terra Villa.....	11
<b>Environmental Intro</b> .....	<b>6</b>	Clay Pavers .....	12–13
Eco-Priora® .....	7	Dominion Slate .....	14
Uni-Ecoloc® .....	8	Roman Dominion™ .....	15
TurfStone .....	8	Roman Holland .....	16
Uni-EcoStone® .....	9	Roman Cobblestone .....	17
		Paleo® .....	18
		Plank Pavers .....	19
		Old Dominion Circles .....	20
		Old Dominion Squares & Recs .....	21
		Holland .....	22



**Architectural Slabs & Patio Stones**

12" x 24" Vancouver Bay Series..... 23  
 18" Vancouver Bay Series..... 24  
 24" Vancouver Bay Series..... 25  
 Glacier Slate ..... 26  
 Columbia Slate..... 27

**Retaining Walls Intro..... 28**

Celtik Wall® ..... 29  
 TuscanStone™..... 30–31  
 RomanPisa® ..... 32  
 RomanStack® ..... 33  
 CornerStone® ..... 34  
 CypressStone™ ..... 35  
 ManorStone® ..... 36

**Natural Elements Intro ..... 37**

Boulders, Columns, Slabs & Wall Rock..... 38  
 Ledgesones ..... 39  
 Flagstones ..... 40–41  
 RoxPro Flagmats..... 42

**Lifestyle Intro ..... 43**

TuscanStone Outdoor Living Series..... 44–45  
 Quarry Stone & Slate Stone..... 46  
 Fireplace Systems..... 47  
 Fire Pit Kits..... 47

**Mutual Materials Single**

**Source Solution ..... 48–49**  
**Hardscape Accessories ..... 50**  
**Common Questions..... 51**  
**Installation..... 52–55**  
**Paver Patterns and Specs... 56–59**



## IN OUR OPERATIONS



## IN OUR PRODUCTS



# ENVIRONMENTAL COMMITMENT

**We are committed to sustainable business practices and eco-friendly products.**

Mutual Materials manages company operations to high standards from mining and manufacturing through distribution and branch offices. Our eco-friendly products are used to create green buildings and beautiful outdoor hardscapes that maximize energy and resource conservation.

### Recycling in Production Processes

We use recycled materials within our products and manufacturing processes.

### Water Conservation

We manage stormwater plus recycle and reuse water in our manufacturing processes.

### CarbonCure™

We can recycle carbon dioxide through CarbonCure technology to make greener concrete products on specified projects.

### Energy Efficient Equipment

We invest in energy efficient equipment and low emission vehicles, from using propane-powered forklifts in our distribution years to hybrid transport vehicles.

### Soil Reclamation

We incorporate best practices for soil and reclamation for all plants and mining operations.

### Supply Chain Fleet Management

We are a member of SmartWay, a public-private initiative with the EPA to improve environmental performance of goods moving throughout supply chains.

### Natural, Recyclable Products.

We make products from natural resources and recycled materials.

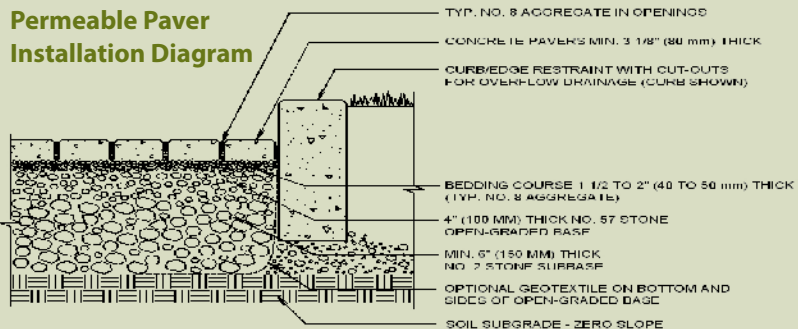
### Resource Conservation

Masonry and hardscape provide energy efficiency to buildings and water conservation for landscapes.

### United States Green Building Council (USGBC)

Our product line qualifies for contribution towards LEED credits.

### Permeable Paver Installation Diagram



### PERMEABLE PAVERS

A critical element in the management and treatment of stormwater runoff, permeable pavers are becoming incredibly popular in sustainable design. Used in both commercial and residential applications, permeable pavers also play a key role in the reduction in heat-island effect and erosion.

### BRICK

Made simply of clay and shale, brick is one of the world's oldest "green" products. In addition to being one of the most aesthetically versatile design products, brick provides many functional benefits in a building envelope. Besides being fireproof, insect-proof, low-maintenance and a natural insulator, brick is also 100% recyclable.



## Mutual Materials Products and LEED Points

Mutual Materials produces a wide array of products that help contribute to LEED points as determined by USGBC. The matrix at right, indicates just some of the ways Mutual Materials' products can help achieve healthy construction sites and sustainable buildings.

### LEED®

LEED® (Leadership in Energy and Environmental Design) is a third-party certification program for the design, construction, and operation of buildings and other projects aiming to achieve a high-performance green rating. Administered by the United States Green Building Council (USGBC), LEED's Green Building Rating System® assigns points based on the materials and systems used in a project to help evaluate the overall performance. The number of points earned determines a project's level of LEED certification.

LEED promotes sustainability by assigning points in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection, and indoor environmental quality. Mutual Materials products may help contribute to some of these areas.

LEED® CERTIFICATION SCALE	
RATING	POINTS REQUIRED
Certified	40 – 49 points
Silver	50 – 59 points
Gold	60 – 79 points
Platinum	80 or more points

*Credits vary by project and by manufacturer. For more specific information on how our materials might contribute to LEED certification for your project, please contact your Mutual Materials representative.*

\* Design dependent

\*\* All of Mutual Materials manufactured products are made within 500 miles of projects built in the Pacific Northwest. Up to 100% of the materials that make up Mutual Materials products are harvested within 500 miles of projects built in the Pacific Northwest.

## SUSTAINABILITY

PRODUCT	LEED SECTION: SUSTAINABLE SITES*	LEED SECTION: MATERIALS AND RESOURCES**
Brick		<b>Building product disclosure and optimization</b> - environmental product declarations - sourcing of raw materials 10% Regional Materials 20% Regional Materials 100% Manufactured Up to 100% Harvested
Concrete Block		<b>Building product disclosure and optimization</b> - environmental product declarations - sourcing of raw materials 10% Regional Materials 20% Regional Materials 100% Manufactured Up to 100% Harvested
Concrete Pavers	Heat Island Effect, Non-Roof Heat Island Effect, Roof	<b>Building product disclosure and optimization</b> - environmental product declarations - sourcing of raw materials 10% Regional Materials 20% Regional Materials 100% Manufactured Up to 100% Harvested
Permeable Concrete Pavers and TurfStone (grass grid)	Rainwater Management Heat Island Effect, Non-Roof	<b>Building product disclosure and optimization</b> - environmental product declarations - sourcing of raw materials 20% pre-consumer material 10% Regional Materials 20% Regional Materials 100% Manufactured Up to 100% Harvested
Segmental Retaining Walls		SRW can contain up to 20% pre-consumer material 10% Regional Materials 20% Regional Materials 100% Manufactured Up to 100% Harvested
Design Mix Mortar		<b>Design Mix mortar contains 4% post-industrial material</b> 10% Regional Materials 20% Regional Materials 100% Manufactured Up to 100% Harvested
Architectural Slabs	Heat Island Effect, Non-Roof Heat Island Effect, Roof	10% Regional Materials 20% Regional Materials 100% Manufactured Up to 100% Harvested



• SUSTAINABLE • PERMEABLE • RECYCLED • ECOLOGICAL SOLUTIONS •

# ENVIRONMENTAL

If you're looking to live a little greener, consider our Environmental series. When properly installed, a permeable-paver system allows you to significantly reduce stormwater runoff by returning water directly into the soil and preventing it from carrying pollutants into our storm drains.

These pavers also function to reduce heat island effect and can play a role in limiting erosion. Explore how our Environmental series can help you take another step towards sustainability.

## PERMEABLE PAVERS

Eco-Priora™ .....	7
EcoLoc® .....	8
TurfStone .....	8
Eco-Stone® .....	9



EcoPriora®  
Gray and Harvest Blend



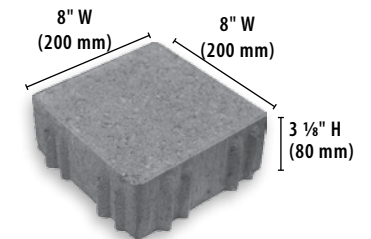
• ENVIRONMENTAL •

## Eco-Priora®

With its unique, patented interlocking spacer lugs Eco-Priora® provides secure structural performance. It works very well under heavy vehicular traffic, especially when compared to other "rectangular" permeable pavers. When designed in a permeable pavement system, LEED® "heat island" and "runoff" credits may be available. Eco-Priora's flat surface is well suited for pedestrian and ADA (Americans with Disabilities Act) accessible pavements.

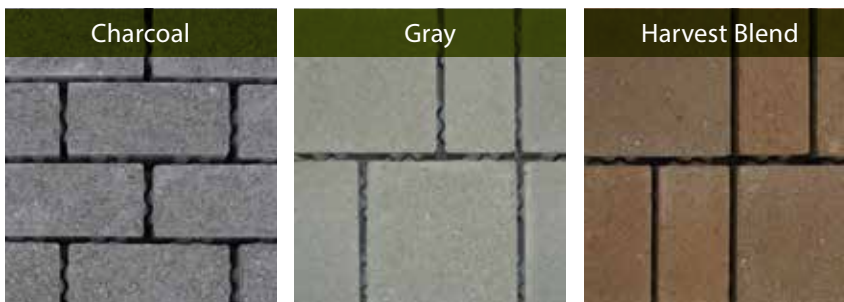
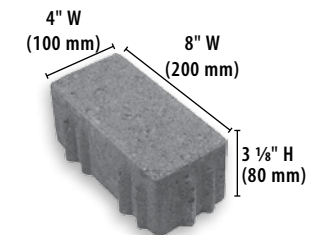
### 8 x 8 Unit

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



### 4 x 8 Unit

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



## Uni Ecoloc®

Uni Ecoloc® is an environmentally friendly, heavy-duty paving system designed to reduce stormwater runoff on industrial and commercial projects.

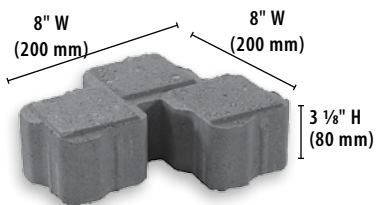
Uni Ecoloc pavers provide a very durable, yet permeable pavement system capable of supporting the heaviest vehicle loads. When installed, the unique patented design creates drainage openings in the pavement's surface, which facilitate rainwater infiltration.

Uni Ecoloc is a mechanically installed product and is considered ADA compliant (when installed and maintained properly).

Available in Gray.

### Uni Ecoloc® Unit

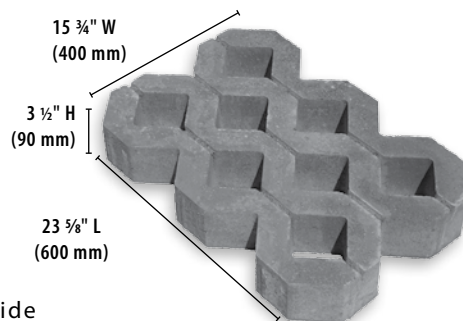
*(There is a 12.8% void area per square foot.)*



## TurfStone

TurfStone provides a simple solution for pedestrian or low-vehicular-use areas. With a 40% open-area design, grass can grow through it to help control erosion and stabilize the soil. Available in Gray.

### TurfStone Unit



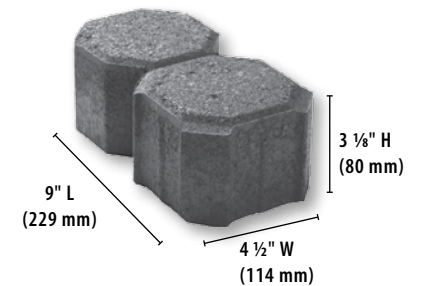


## Uni Eco-Stone®

Uni Eco-Stone® is an innovative, permeable paving system that allows for rainwater infiltration. Excellent for driveways, parking areas and patios, Uni Eco-Stone can easily support the weight of cars, trucks and RVs. Uni Eco-Stone pavers are considered ADA compliant (when installed and maintained properly). Available in Gray.

### Uni Eco-Stone Unit

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





• TIME-HONORED • CLASSIC • VERSATILE • DURABLE •

# PAVERS, SLABS, & PATIO STONES

Concrete and clay pavers add that extra something to a home, creating outdoor living spaces where you can relax and entertain. 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 concrete pavers come in a variety of shapes, colors and textures so that you can make your dream a reality.

## MEDITERRANEAN PAVERS

Terra Villa .....	11
Clay Pavers.....	12-13
Dominion Slate .....	14
Roman Dominion® .....	15
Roman Holland .....	16
Roman Cobblestone.....	17
Paleo® .....	18

## TRADITIONAL PAVERS

Plank Pavers.....	19
Old Dominion Circle.....	20
Old Dominion Squares & Recs.....	21
Holland.....	22

## ARCHITECTURAL SLABS & PATIO STONES

12" x 24" Vancouver Bay Series.....	23
18" Vancouver Bay Series .....	24
24" Vancouver Bay Series .....	25
Glacier Slate.....	26
Columbia Slate.....	27

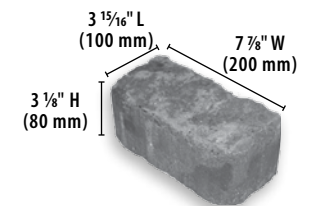


# Terra Villa

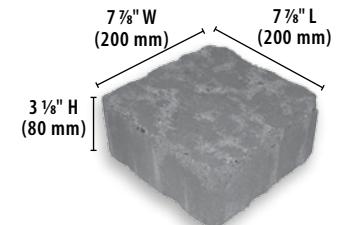
Terra Villa comes in multi-color blends and four different sizes, giving you the ultimate design flexibility.

A typical paver is 6cm thick, however Terra Villa is 8cm, making it just as ideal for driveways as for patios and walkways.

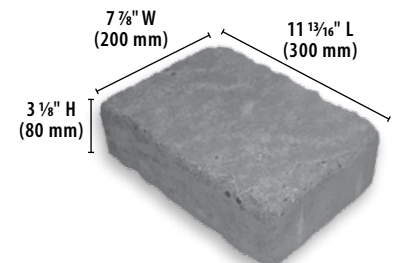
## 4 x 8 Unit



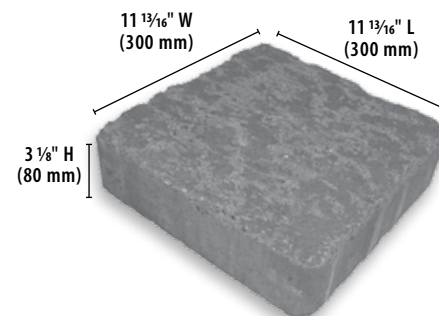
## 8 x 8 Unit



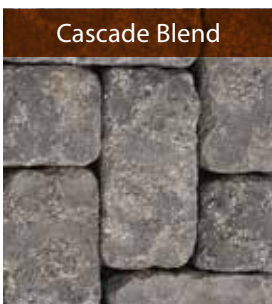
## 8 x 12 Unit



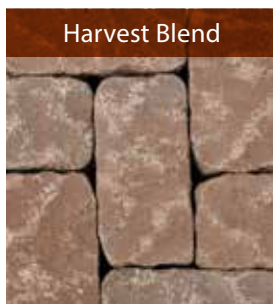
## 12 x 12 Unit



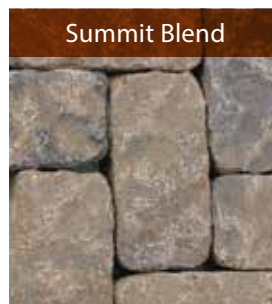
Summit Blend



Cascade Blend



Harvest Blend



Summit Blend

# Clay Pavers

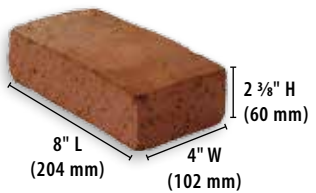
Get the timeless look of brick in your patio or walkway by using our clay pavers. Coming in a rectangular shape, clay pavers can be installed in a variety of patterns.

Our Roman Clay Pavers have the same thickness of a standard concrete paver making it possible to combine the two for unique designs.



Mauna Loa

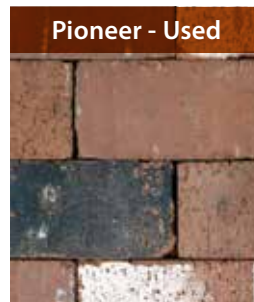
## Roman Clay Pavers



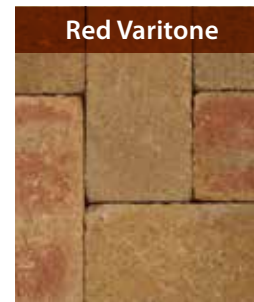
Inca



Mauna Loa



Pioneer - Used

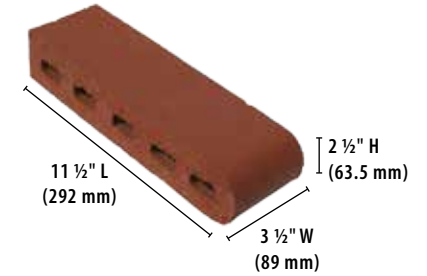


Red Varitone

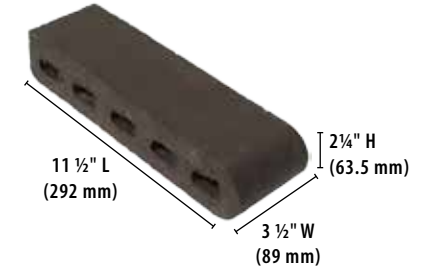
# Clay Paver Stocking Colors and Sizes



## 2.5" Coping Brick



## 2.25" Coping Brick

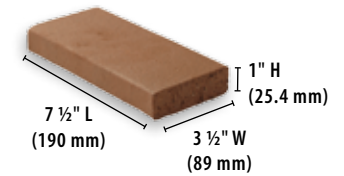


\*Not available in 2.25" Coping Brick

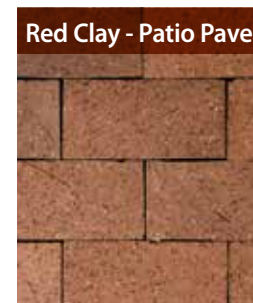
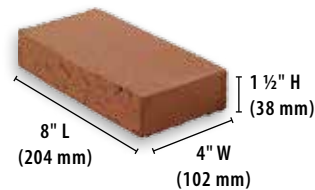


## Mica Tile

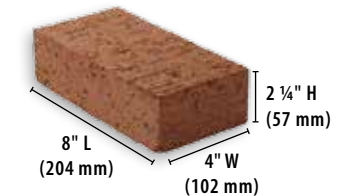
(To be used in mortar-set applications only.)



## Clay Pavers



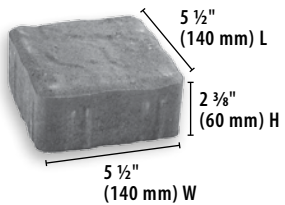
## Patio Pavers



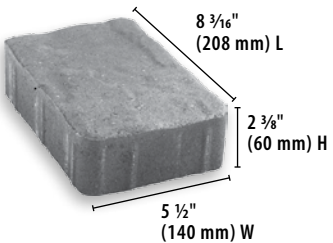
# Dominion Slate

Get the look of stone with the consistency and affordability of concrete pavers. Our Dominion Slate paver has a slate texture where the slight rippling provides a surface with soft ridges.

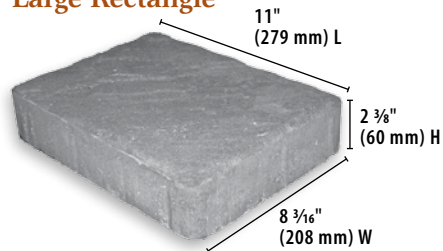
## Square



## Rectangle



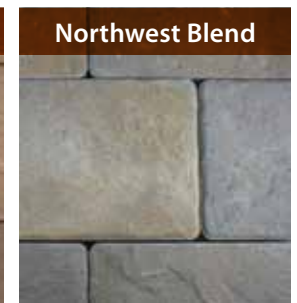
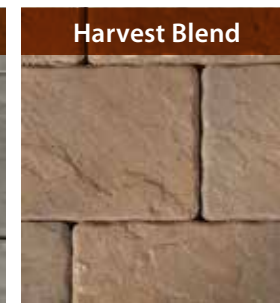
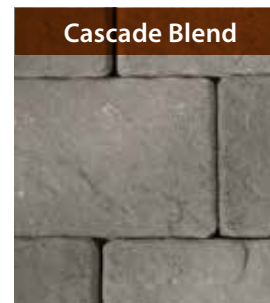
## Large Rectangle\*



\*Not recommended for vehicular use.



Photo courtesy of Dreamscapes Landscape and Design.

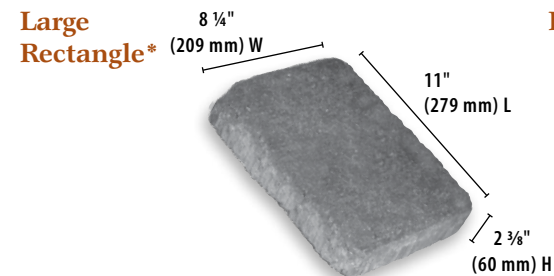
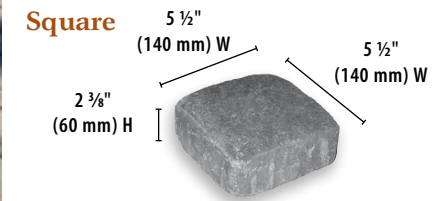


# Roman Dominion®

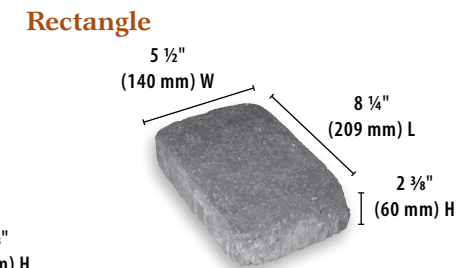
Those desiring the look of a European courtyard, will want to pave with Roman Dominion®. These pavers are tumbled giving them soft, rounded corners and a worn texture.



Summit Blend



\*Not recommended for vehicular use.



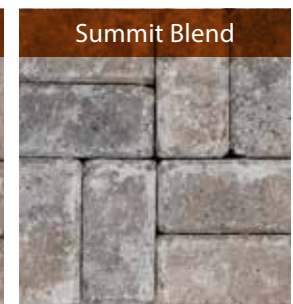
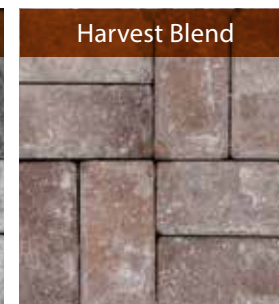
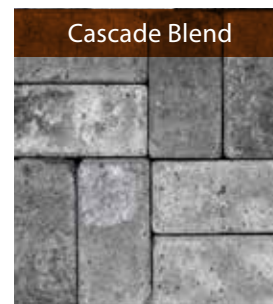
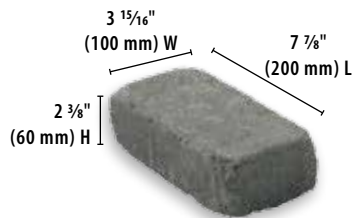
# Roman Holland

Our Roman Holland offers the beauty of a tumbled paver in the simple, rectangular shape of our traditional Holland. This versatile stone may be laid in a variety of eye-catching patterns for your patio, walkway or driveway. Use Roman Hollands alone, or combine them with Roman Cobblestone or Paleo for a truly unique design.



Photo courtesy of Nyce Gardens

## Roman Holland







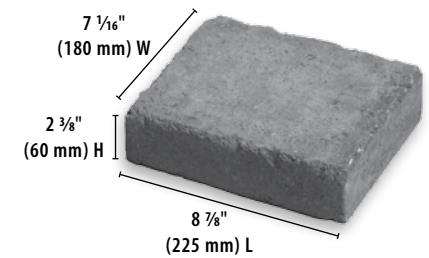
Harvest Blend

• MEDITERRANEAN •

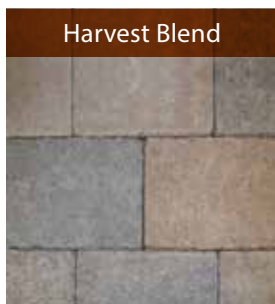
# Roman Cobblestone

Tumbled to create a time-worn appearance, Roman Cobblestone adds beauty and character to any paved surface.

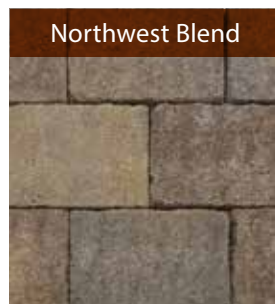
## Roman Cobblestone



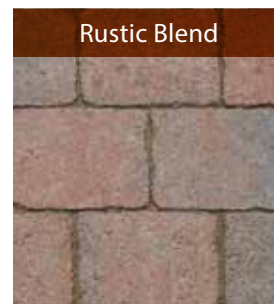
Charcoal



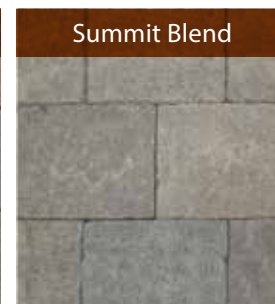
Harvest Blend



Northwest Blend



Rustic Blend

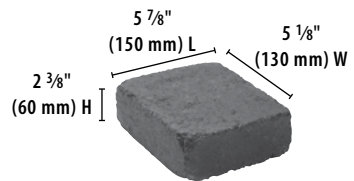


Summit Blend

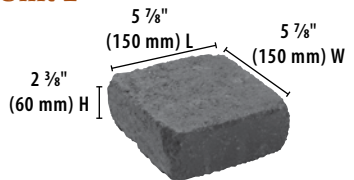
# Paleo®

These pavers are tumbled and sized for the look and feel of old-fashioned cobblestones. Paleo combines 4 sizes to provide a random cobblestone look. They are colored and textured to complement a number of Mutual Materials' popular retaining wall systems including: TuscanStone™, RomanPisa®, RomanStack® and Celtik Wall®.

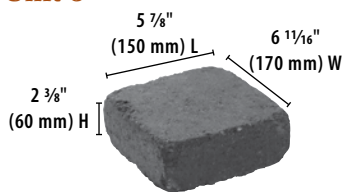
## Unit 1



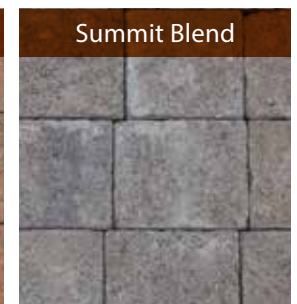
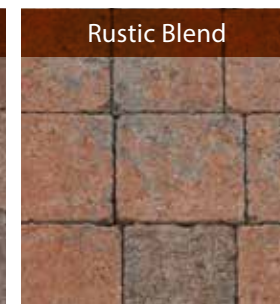
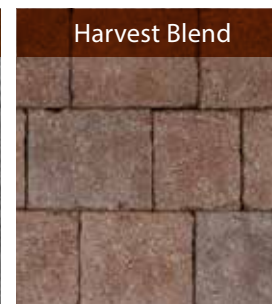
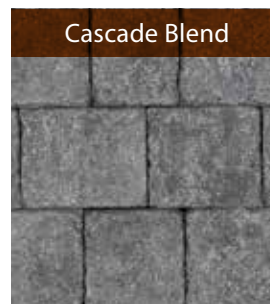
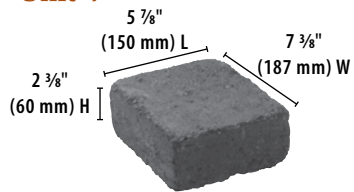
## Unit 2



## Unit 3



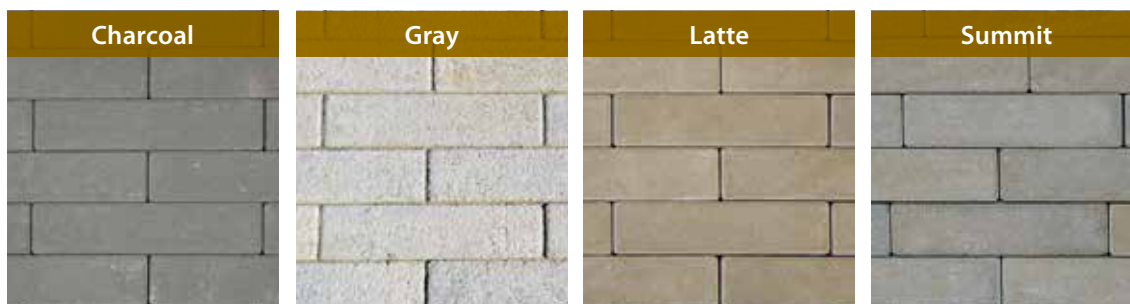
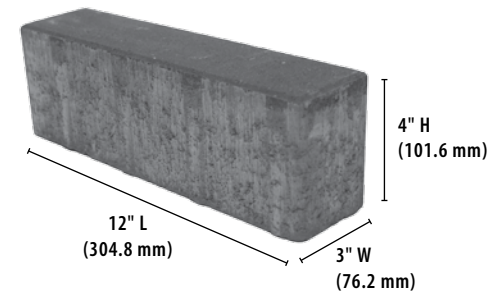
## Unit 4



## Plank Pavers

Our Plank Pavers bring yet another unique option to our hardscape line of products. Inspired by hardwood flooring, these pavers are elongated measuring 3" wide by 12" long. However, with a thickness of 4" these pavers can be a great option for vehicular traffic in addition to a pedestrian surface.

### Plank Paver



# Old Dominion

With embossed edges and natural colors, Old Dominion pavers reproduce the essence of ancient Rome. Old Dominion is available in two styles (Circle Kits and Squares & Rectangles) allowing for multiple patterning possibilities.

Circle Kits make it easy to add a circular patio, fountain surround, or other unique designs.

Old Dominion Squares & Rectangles are a combination of three shapes, offering a variety of random installation patterns.

## Old Dominion Circle\*

### Small Circle (1 pallet)

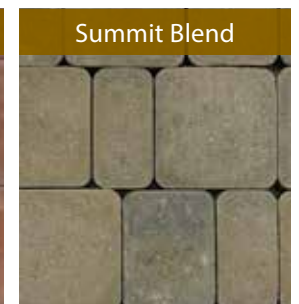
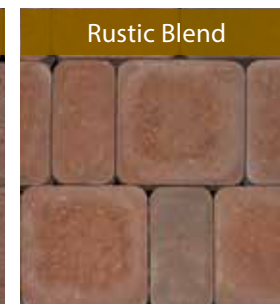
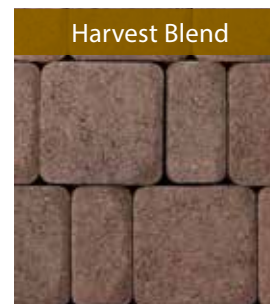
HEIGHT	DIAMETER	CIRCUMFERENCE
2 3/8"	6' 1 5/16"	21' 7/8"
(60 mm)	(2120 mm)	(6158 mm)

### Large Circle (2 Pallets)

HEIGHT	DIAMETER	CIRCUMFERENCE
2 3/8"	9' 3/4"	30' 5/8"
(60 mm)	(2968 mm)	(9327 mm)



Harvest Blend sealed



\* Must be purchased by the full pallet.

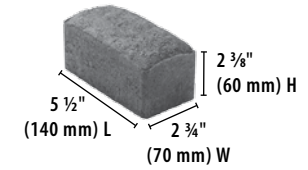
Cascade Blend



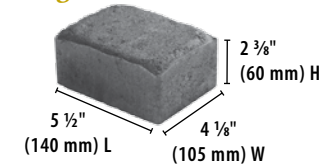
• TRADITIONAL •

Old Dominion Squares & Rectangles\*\*

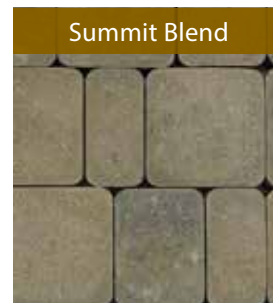
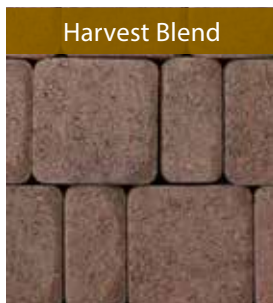
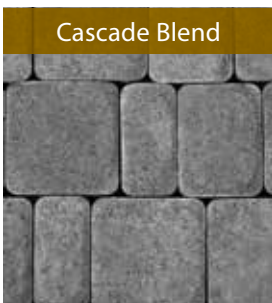
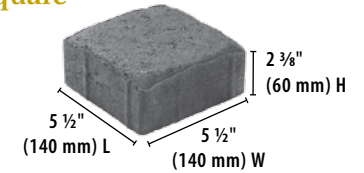
Small Rectangle



Rectangle



Square

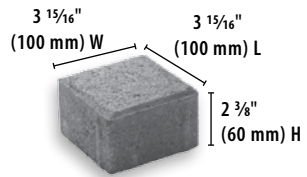


\*\* Must be purchased by the full pallet or full layer.

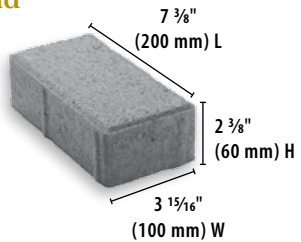
# Holland

Holland pavers offer the traditional appeal of a simple brick shape with a beautiful, durable surface. Holland pavers come in three sizes, giving you the ability to mix shapes, patterns and colors for dramatic effect.

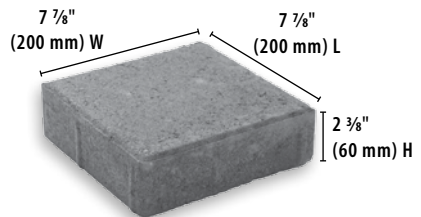
## Half Holland



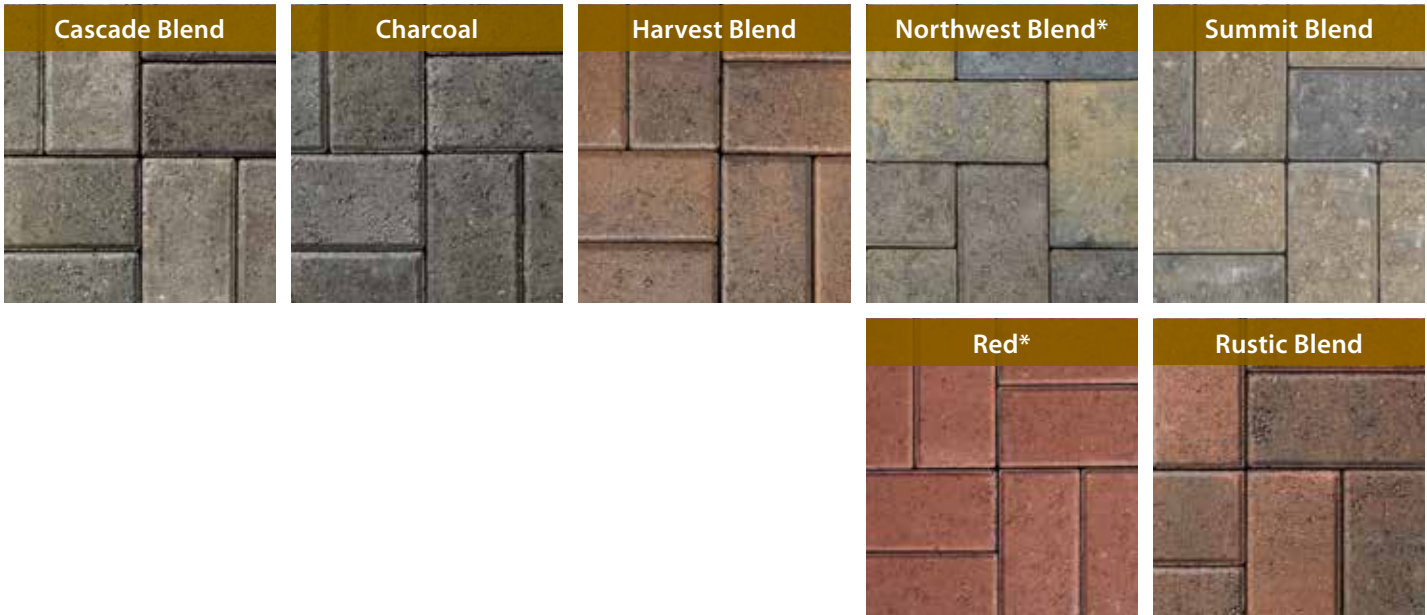
## Holland



## Double Holland



Summit Blend



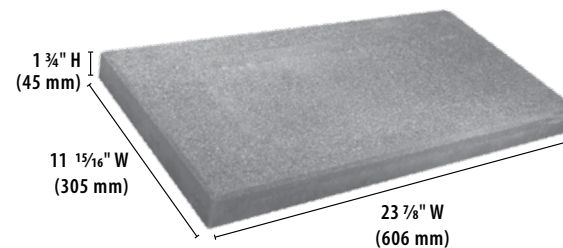
# 12 x 24" Vancouver Bay Series\*

Vancouver Bay slabs have a light shot-blast finish for soothing colors and an elegant appearance. Outdoor living spaces, pathways and roof decks are ideal settings for architectural slabs. Use Vancouver Bay slabs anywhere an elegant, yet understated, pedestrian pavement is desired.

*\*Not suitable for vehicular traffic.*



12 x 24

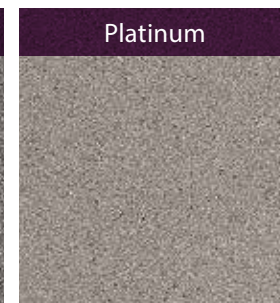
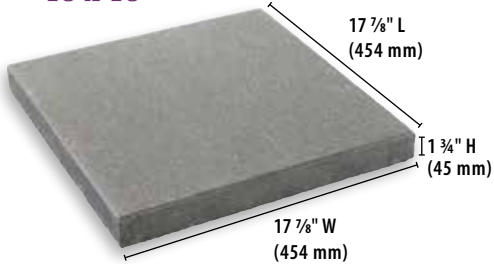


# 18" Vancouver Bay Series\*

\*Not suitable for vehicular traffic.



18 x 18







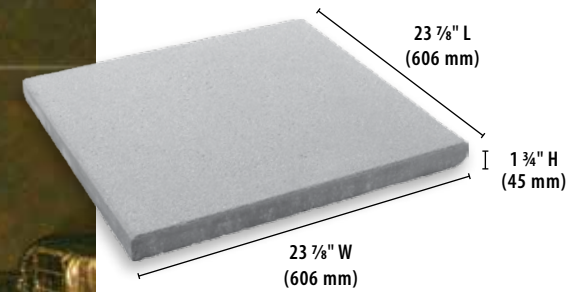
Gray

PRESTIGE

# 24" Vancouver Bay Series\*

*\*Not suitable for vehicular traffic.*

24 x 24



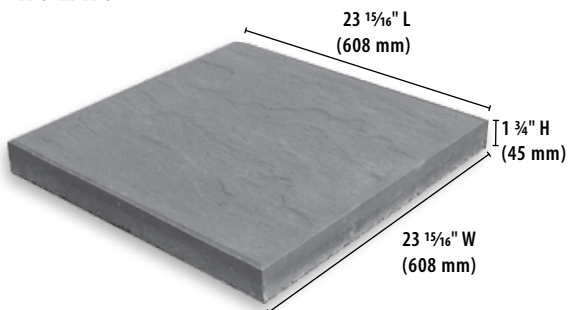
# Glacier Slate

Add the “ahhh” factor to any of your outdoor living spaces. With its slate texture finish, these slabs give your project a more natural look. Combined with any of our other slabs, Glacier Slate helps expand the versatility of your design.

*Not suitable for vehicular traffic.*



24 x 24



# Columbia Slate

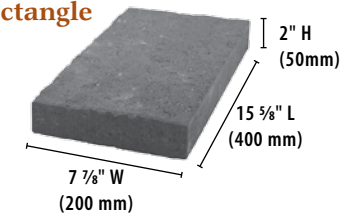
Our new Columbia Slate patio stones have a rippled surface mimicking the unevenness found in natural stone. Columbia Slate patio stones come in three sizes. You can use one size or combine sizes to create the look you want for your project.

Its rectangular dimensions allow for the ultimate design versatility and its larger dimensions allow for less units per square foot.

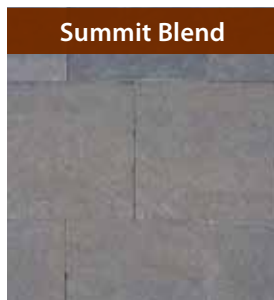
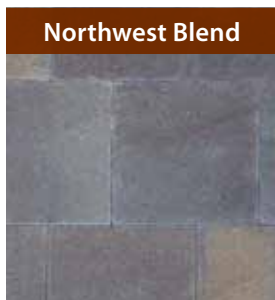
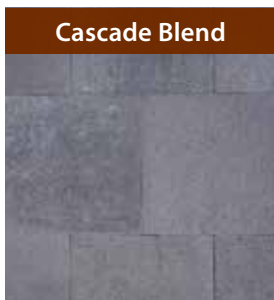
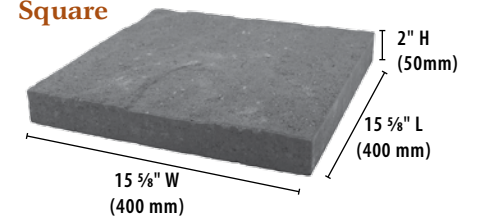
*Columbia Slate patio stones are not meant for vehicular applications.*



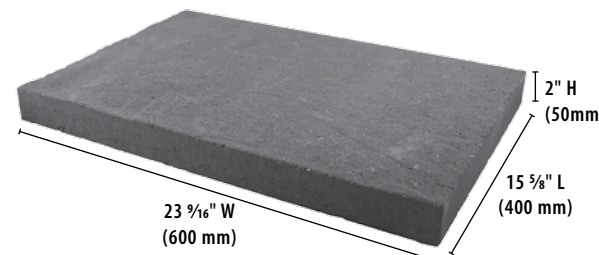
## Rectangle



## Square



## Large Rectangle





• TUMBLED • RADIUS-FACE • SPLIT-FACE • FLAT-FACE •

# RETAINING WALLS

Enhance your outdoor space with stately and sophisticated segmental retaining walls. Combining interlocking technology and weight, segmental retaining wall systems allow you to build walls that beautify your yard, turning once impractical space into a focal point.

Whether you want freestanding or retaining walls, Mutual Materials provides options in a variety of textures, shapes and colors to meet your design or aesthetic needs. Segmental retaining walls are ideal for terraces, raised gardens, outdoor kitchens, or accent walls and meet the demands of homeowners, contractors, and landscape architects looking to amplify their natural surroundings.

## MEDITERRANEAN WALLS

Celtik Wall® .....	29
TuscanStone™ .....	30–31
RomanPisa® .....	32
RomanStack® .....	33

## TRADITIONAL WALLS

CornerStone® .....	34
CypressStone™ .....	35
ManorStone® .....	37





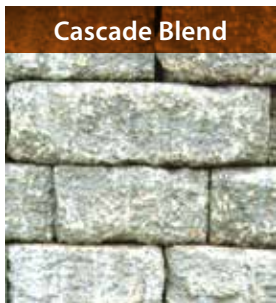
Photo courtesy of Dreamscapes Landscape and Design.

# Celtik Wall®\*

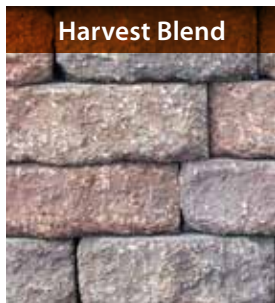
Celtik Wall® is a versatile system offering tremendous design flexibility and aesthetic appeal for straight, curved or circular walls. Textured for a rustic look, Celtik Wall is available in four lengths and two heights, enabling you to choose from a variety of wall configurations. All of the units can be combined to create an ashlar pattern when placed vertically and horizontally.

*\* Must be purchased by the full pallet or full layer.*

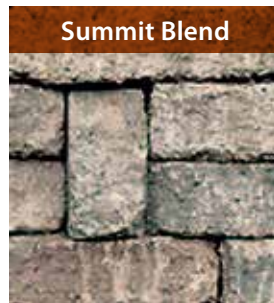
*Maximum wall height:  
36 in (0.91 m) for vertical walls;  
42 in (1.06 m) for 8° battered walls*



Cascade Blend

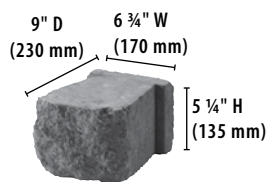


Harvest Blend

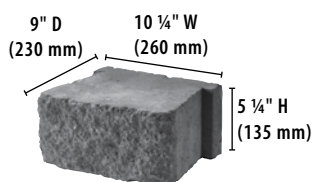


Summit Blend

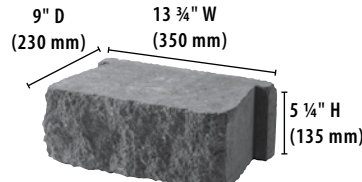
**135 mm Unit 1**



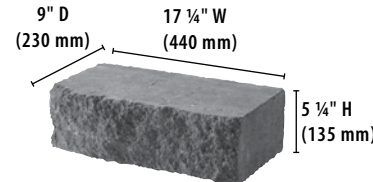
**135 mm Unit 2**



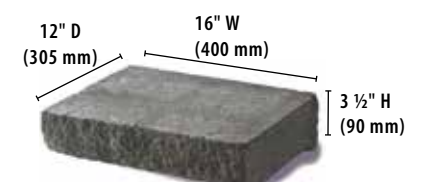
**135 mm Unit 3**



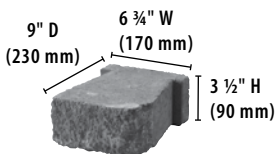
**135 mm Unit 4**



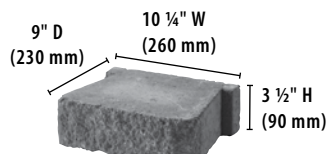
**Cap Unit\*\***



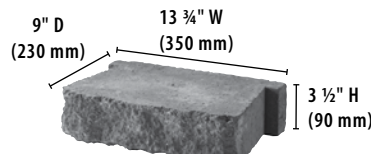
**90 mm Unit 1**



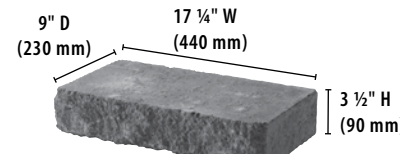
**90 mm Unit 2**



**90 mm Unit 3**



**90 mm Unit 4**



*\*\* Caps available in Charcoal, Harvest Blend and Summit Blend.*

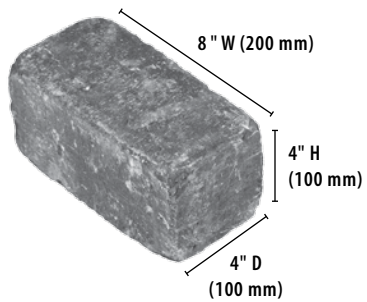
# TuscanStone™

Warm and inviting, the rustic TuscanStone™ is perfect for any outdoor living area. With a classic hand-chiseled appearance, TuscanStone has the look of being aged in the sun for hundreds of years.

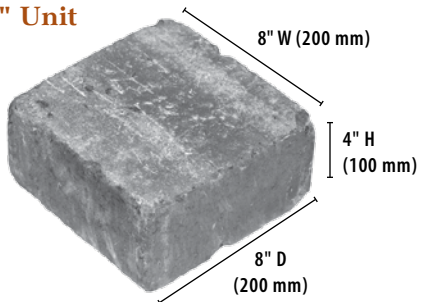
Typical uses include garden walls, planters, lamp posts, stair treads, and pavers. It's an easy way to introduce a rustic European influence into your home.

*Maximum gravity wall height: 2 ft (0.61 m).*

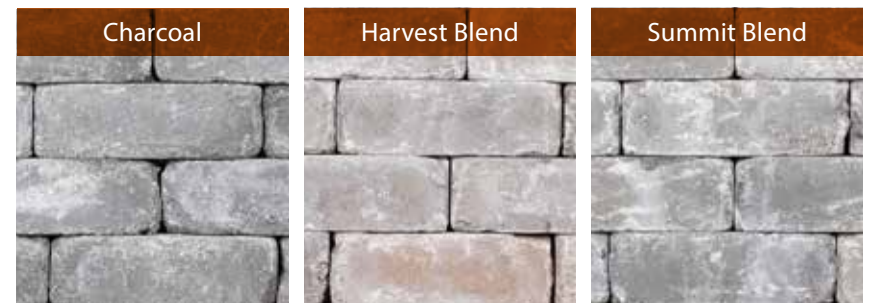
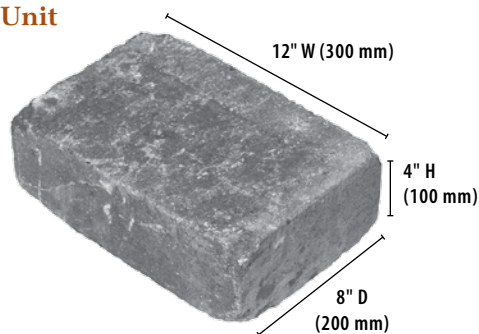
## 4" Unit



## 8" Unit



## 12" Unit





*TuscanStone™ is a unique block with a classic hand-chiseled appearance that looks as though it's been aged in the sun.*

Now TuscanStone™ comes in three sizes, giving you the ability to create a variety of outdoor projects. From a simple column or seating wall to more detailed fireplaces, water features, and bar tables. TuscanStone allows you to start or add to your yard or outdoor living space.

**TUSCANSTONE™**  
OUTDOOR LIVING SERIES

*See pages 44 and 45 for more details.*

# RomanPisa®

The tumbled version of CypressStone™, Roman Pisa gets its unique look from a specialized tumbling process that rounds the corners, giving an appearance similar to real stone.

Maximum gravity wall height: 4 ft (1.2 m)

Maximum reinforced wall height: 26 ft (7.92 m)

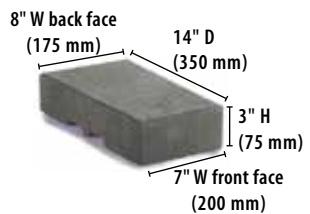
## Tapered Unit



## Corner Unit



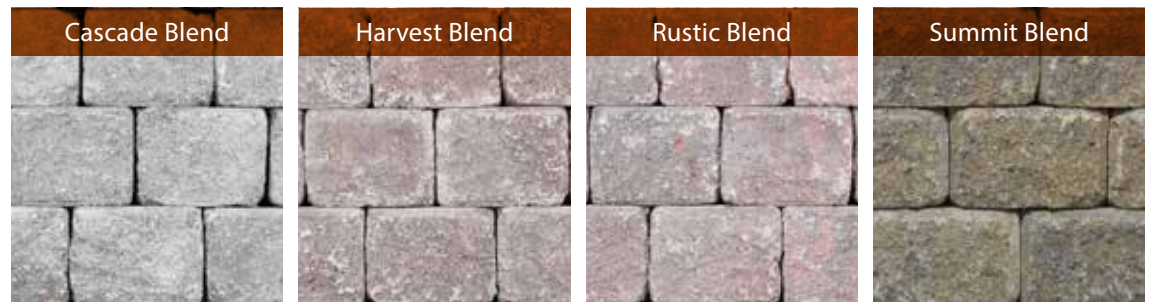
## Revers-a-Cap\*



## Coping Unit\*



Harvest Blend



\* Revers-a-Cap and Coping Unit are also available in Charcoal.



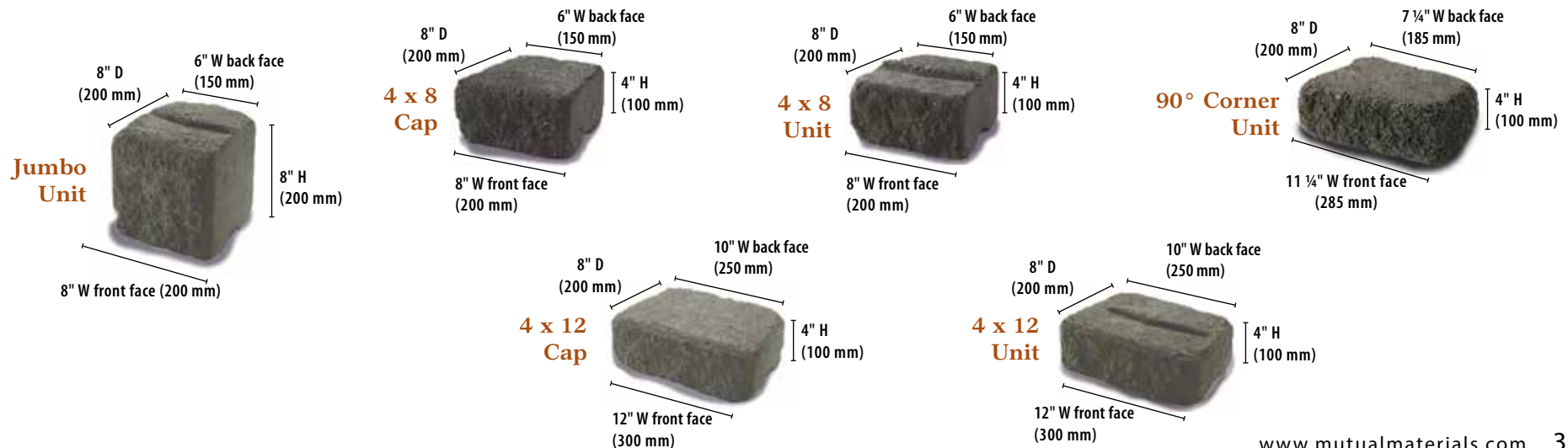
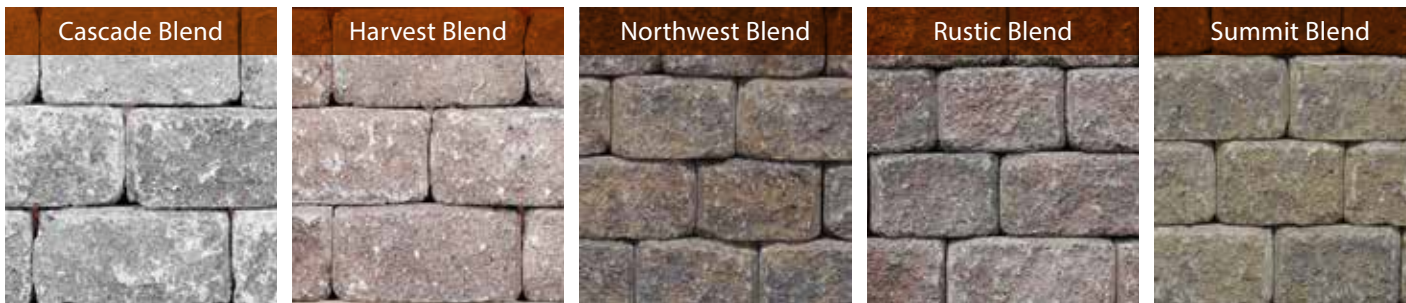


# RomanStack®

RomanStack® walls are designed for garden and low free-standing walls, edging details and raised flower beds. Textured on front and back, these retaining wall blocks can be used to create straight, curved and serpentine walls that are attractive from any angle.

With three wall-unit sizes, two cap sizes and a 90° corner unit, RomanStack can be used to create truly unique walls. Use the different sizes separately for simple retaining walls or combine them for a more traditional Ashlar pattern.

*Maximum wall height: 2 ft (0.61 m).*



# CornerStone®

Featuring lighter-weight, hollow-core units, the CornerStone® system is ideal for large-scale retaining walls. The patented “lug” and wedge shape allow for a strong unit-to-unit connection and maximum design flexibility without pins or clips. Concave and convex curves flow with precision, allowing for interesting wall designs.

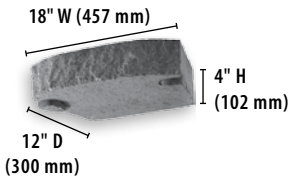
CornerStone can be used for both low-gravity walls and taller structural walls of varying heights, allowing you to use the same wall throughout your project.

CornerStone Wall in Gray with ManorStone Caps

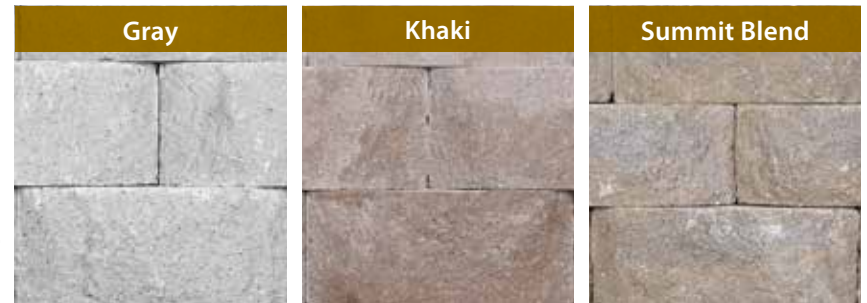
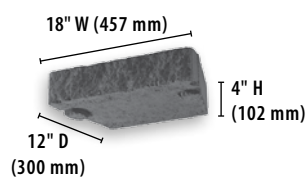


Photo courtesy of Dreamscapes Landscape and Design.

**Radius Face 50 Cap\***



**Flat Face 50 Cap\***



Maximum gravity wall heights:

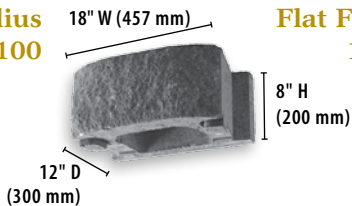
50-Series = 3 ft (0.91 m),

100-Series = 4 ft (1.22 m),

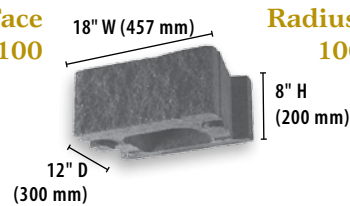
200-Series = 6 ft (1.83 m).

Suitable for engineered walls up to 30 ft (9.14 m).

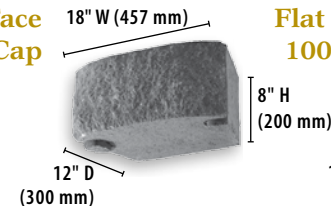
**Radius Face 100**



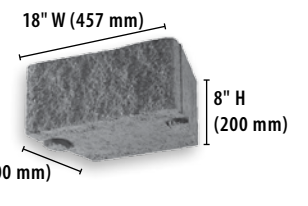
**Flat Face 100**



**Radius Face 100 Cap**



**Flat Face 100 Cap**

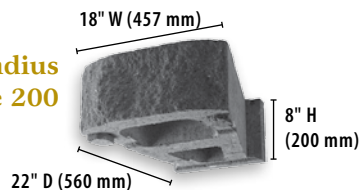


Not all shapes referenced here are stocking; please consult a Mutual Materials Representative for available colors and shapes.

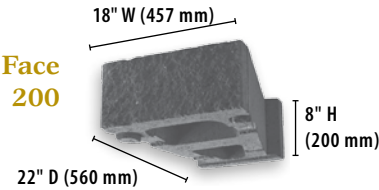
\* Available in tapered and straight-sided units

\*\* Corner Units available in Flat Face only

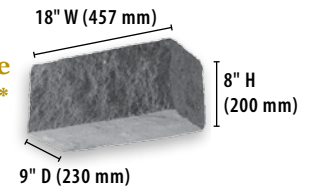
**Radius Face 200**



**Flat Face 200**



**Flat Face 100 Corner\*\***



# CypressStone™

CypressStone™ retaining walls have the natural appearance of quarried stone. Use them to make straight walls, curved walls, 90° turns. CypressStone can also be combined with coping units to create stairs. The CypressStone system is a good choice for landscapes with multiple wall heights, allowing for the use of the same wall shape throughout the landscape.

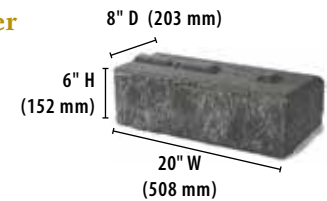
**CypressStone replaces our Pisa2 product line.**

Maximum gravity wall height: 4 ft (1.2 m).  
Maximum reinforced wall height: 26 ft (7.92 m).

## Tapered Unit



## Corner Unit



## Revers-a-Cap\*



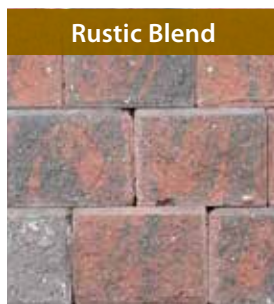
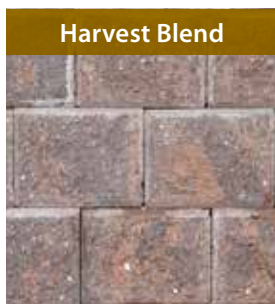
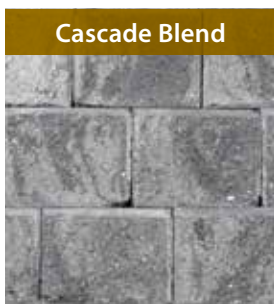
## 3 x 12 x 24 Coping Unit\*



\*Revers-a-Cap and Coping Unit are also available in Charcoal. CypressStone™ units are made in pairs and must be split on site.



Cascade Blend



Cascade Blend

Harvest Blend

Rustic Blend

# ManorStone®

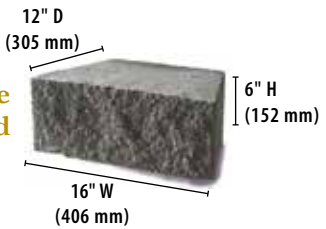
ManorStone has radius, flat-face and straight-sided units that can be used to create functional and interesting walls. Add capstones to give your wall a finished look. ManorStone also makes sturdy and versatile stairs, either alone or with the Pisa coping units as the tread.

Maximum wall height: 3 ft (0.91 m).

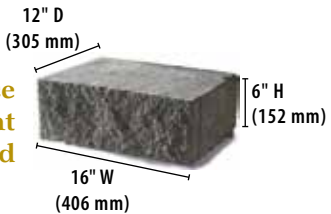


Northwest Blend  
ManorStone® and Caps

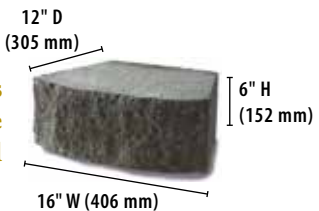
**Flat Face Tapered**



**Flat Face Straight Sided**



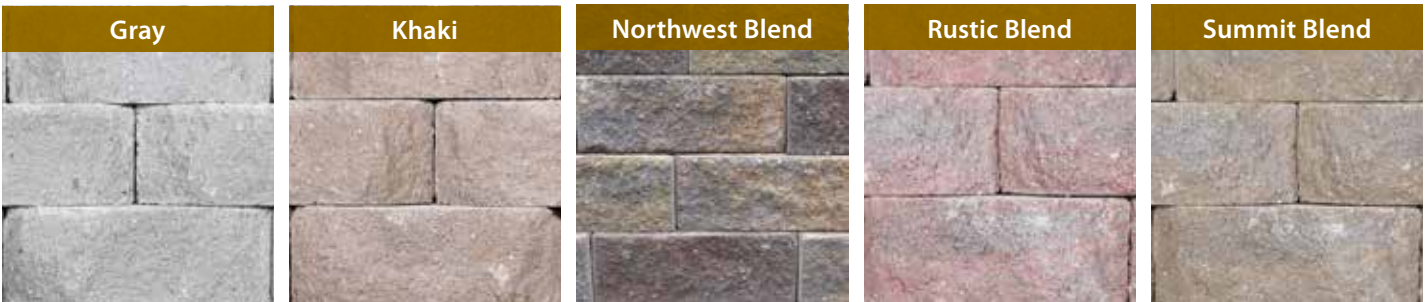
**Radius Face Tapered**



**Flat Face Cap Tapered**



**Corner\***



Not all colors are available in all shapes.  
Please consult a Mutual Sales Rep for availability.

\* Corners available with straight sides  
and flat face only



• RUGGED • REFINED • ESSENTIAL • VERSATILE •

# NATURAL ELEMENTS

Using natural stone in landscape and hardscape design can bring a rugged, earthy beauty to outdoor living areas. Pulled from the earth, stone is rough and refined with colors and shapes as diverse as nature itself. Our Natural Element line offers stone cut in many ways, allowing a multitude of design options for walls, veneers, driveways, pillars or as a walkway or patio surface.

## FROM THE EARTH

Boulders, Columns, Slabs & Wall Rock .....	38
Ledgestones.....	39
Flagstones.....	40–41
RoxPro Flagmats.....	42

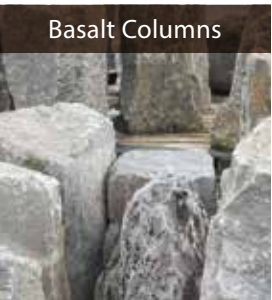


# Boulders, Columns, Slabs, & Wall Rock

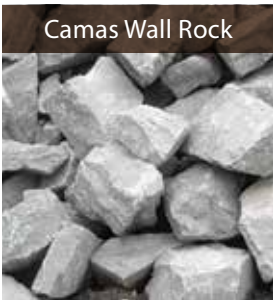
Landscape columns and boulders are large, decorative rocks used to create waterfalls, ponds, retaining walls and other large landscaping features. They are available in a wide variety of colors including brown, red, gray, gold, black, and green.



Iron Mountain



Basalt Columns



Camas Wall Rock



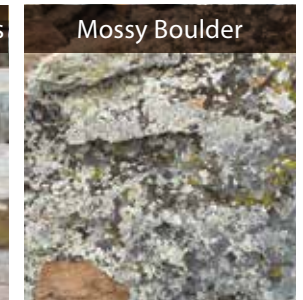
Iron Mountain Slabs



Montana Mix Dry Stack



Montana Steps & Risers



Mossy Boulder

Cabinet Gorge  
Ledgestone

## NATURAL ELEMENTS

# Ledgestones

Ledgestones are generally flat building stones 3" to 6" thick, in a variety of lengths. Commonly used for low retaining walls, borders, walkways, and raised planters, they can be dry-stacked or set with mortar and are available in a wide range of earth tones.



Cabinet Gorge



Camas Squares & Recs



Elk Mt. Ledgestone



Montana Mix Ledgestone



Sage Hill Ledgestone



# Flagstones

Flagstones are large, flat stones often used for patios, walkways, pool decks, and around ponds. With thicknesses ranging from ¾" to 3", flagstone colors range from brown and tan to blue, gold and green. Flagstones can be sand-set or mortar-set.



Black Treads



Blue Stone Treads



Blue Stone Tumbled



Blue Stone Variegated Pre-Cut



Cabinet Gorge Flagstone



Iron Mountain Flagstone



Lavender Flagstone



Lone Pine Gold Flagstone



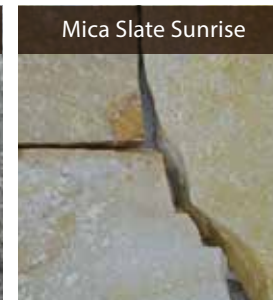
Mahogany Flagstone



Mica Slate Birch Creek



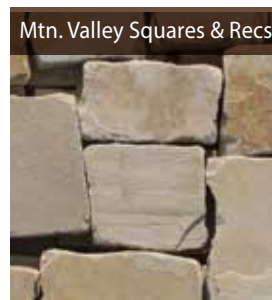
Mica Slate Charcoal



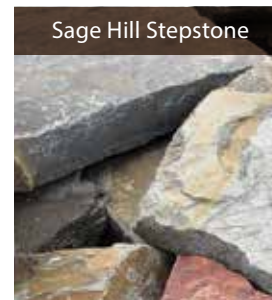
Mica Slate Sunrise



Mountain Valley Flagstone



Mtn. Valley Squares & Recs



Sage Hill Stepstone



Variegated 1-2 Flagstone







# RoxPro Flagmats

Modular stone systems are an innovative approach to the installation of thin natural stone. And because all of the stone is carefully hand selected, RoxPro gives you the design flexibility you need for creating beautiful projects.

Flagmats are cut flagstone sections that are adhered to mesh matting for a streamlined and precise installation allowing an installer to put down up to 5.4 square-feet at one time.



Autumn Horizon



Placer Gold

Placer Gold



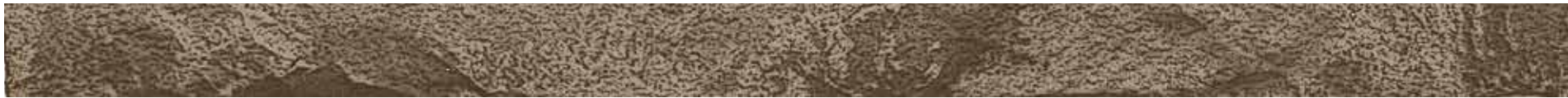
# LIFESTYLE

Components of our Lifestyle series add a touch of finesse to any outdoor space. Achieve function along with beauty with our outdoor fireplaces and benches.

These concrete products are easy to install, durable, and low maintenance, making them ideal outdoor additions to any home that will last for years to come.

## TAKE IT OUTSIDE

TuscanStone™ Outdoor Living Series .....	44–45
Quarry Stone and Slate Stone Benches and Steps.....	46
Outdoor Fireplace Systems, Fire Pit Kits .....	47





TUSCANSTONE™

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OUTDOOR LIVING SERIES

Three colors, three sizes  
and infinite possibilities!



# TUSCANSTONE™

## OUTDOOR LIVING SERIES

Introducing Tuscan Stone in three different dimensions to inspire a variety of projects such as: columns, fire pits, planters, water features, outdoor fireplaces, and seating walls.

Go to [www.mutualmaterials.com/tuscan-projects](http://www.mutualmaterials.com/tuscan-projects) for individual project sheets for creating each project.



FIREPLACES

PRODUCT	SIZE	WEIGHT	PALLET COUNT	PALLET WEIGHT
Tuscan Stone Charcoal	8 x 4 x 12	30	90	2700
Tuscan Stone Summit	8 x 4 x 12	30	90	2700
Tuscan Stone Harvest	8 x 4 x 12	30	90	2700
Tuscan 8 x 8 Charcoal	8 x 4 x 8	20	120	2400
Tuscan 8 x 8 Summit	8 x 4 x 8	20	120	2400
Tuscan 8 x 8 Harvest	8 x 4 x 8	20	120	2400
Tuscan 4 x 8 Charcoal	4 x 4 x 8	10	240	2400
Tuscan 4 x 8 Summit	4 x 4 x 8	10	240	2400
Tuscan 4 x 8 Harvest	4 x 4 x 8	10	240	2400

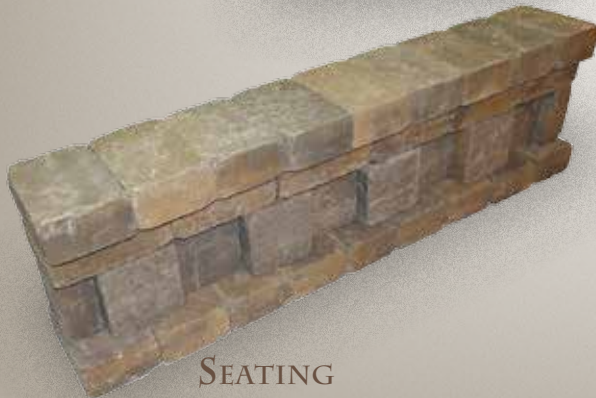
PLANTERS



FIRE PITS



SEATING WALLS



MAILBOX COLUMNS



# Quarry Stone & Slate Stone

Mutual Materials has created “stones” from concrete to provide the look of natural stone, yet give you the evenness in the surface to allow for ease-of-use.

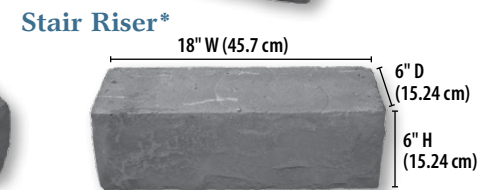
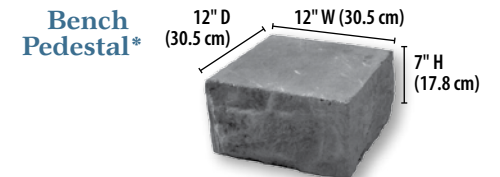
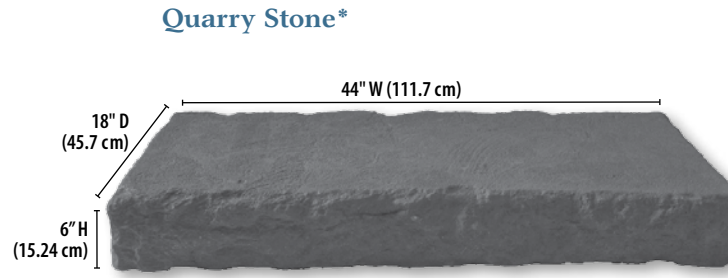
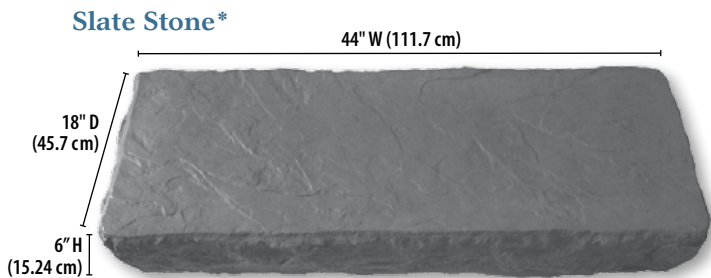
These stones can be paired with risers to create stairs. By using a variety of mold shapes, repetition is avoided for a natural look. For a bench, place the stones on our 7” pedestals.

These stones come in two different textures. Quarry texture has a dimpled surface created to reflect a sandstone finish. Slate texture has slight ridges inspired by the real thing. Available in Charcoal and Harvest.

Quarry Stone Bench in Harvest



Slate Stone Stairs in Charcoal



\*These sizes are approximate.

## Fireplace Systems

Fireplace systems offer a simple way to build a high-end, masonry indoor or outdoor fireplace. These systems install quickly and are more reasonably priced than some traditional masonry fireplaces.



## Fire Pit Kits

Everyone loves the intimacy of sitting around the campfire. Now you can bring the campfire to your home with our pre-packaged fire pit kits. These fire pits are easy to install and you can choose between four types: a circular RomanStack® Kit, a square RomanStack Kit (two sizes), and a round CottageStone® Kit. 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.





**Have a project?**



**MUTUAL MATERIALS®**





# We can help.

Whether you are planning to do a project yourself, need to find a contractor or want assistance managing your project, Mutual Materials is here to help. We can provide you with the level of service that you need to ensure your masonry or hardscape project turns out the way you envisioned.

Our innovative **Single Source Solution** program is convenient, flexible and easy to use. Our trained staff will work with you to develop a plan that fits your needs and comfort level. Some people enjoy doing DIY projects, while others prefer to hire a contractor from our Preferred Contractor list. Our **Single Source Solution** program can accommodate both these situations and much more.

**For more program information or to get started,**  
please visit one of our branches or call us at:

**(425) 452-2319 (Washington)**

**(503) 906-2332 (Oregon)**

or go to our website, **[www.mutualmaterials.com](http://www.mutualmaterials.com)**  
and click on "Need Help with a Project?"

## Program Services

- Access to Preferred Contractors for installation quotes
- Access to Preferred Designers for design assistance
- Access to our product experts
- Complete project management including product selection assistance, order management, delivery and installation services



*Our hardscape installers are ICPI certified.*

# Hardscape Accessories

## EDGE RESTRAINTS

Edge restraints are a necessary component of all concrete paver installations. Edging is available in both rigid and flexible pieces. Whether you're building a patio, driveway or commercial installation, Mutual Materials carries an edge restraint designed to meet the specific technical requirements of your project.



## SANDS, GRAVEL, CEMENTS, AND MORTARS

Mutual-Target products are designed to meet the needs of homeowners, contractors and masons.

Available products include All-Purpose Sand, DesignMix™, Joint Sand, SandLOCK® PREMIX, Mutual Concrete Mix, Mutual 5/8 Minus Base Rock, and Drain Rock.



## 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.



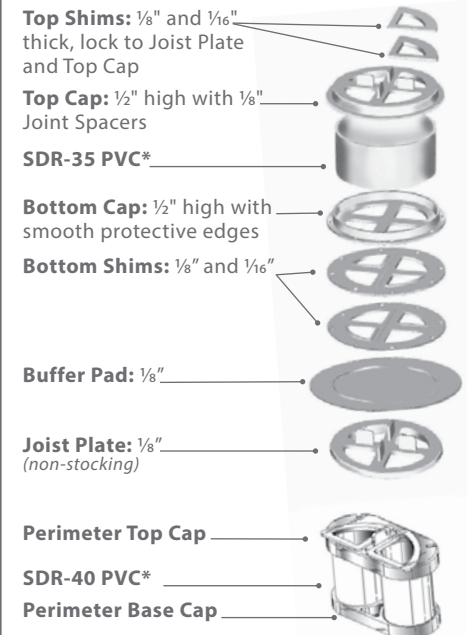
## CONCRETE ADHESIVES

Whether you need an adhesive capable of handling freeze-thaw conditions, working on wet-product or simply adhering cap units, Mutual Materials has the right one for the job.

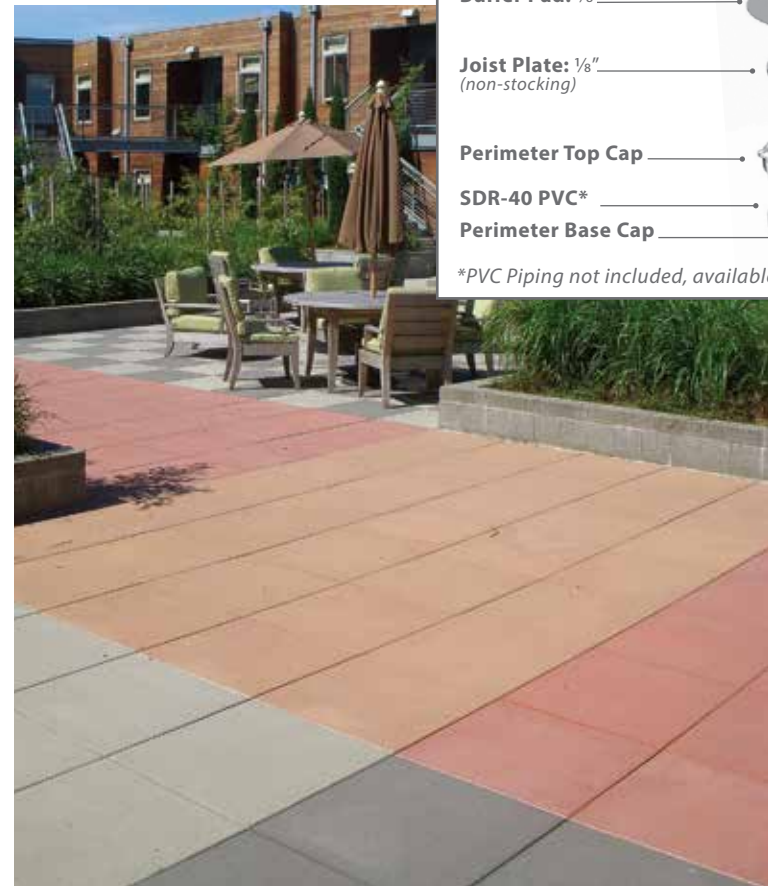
## AWS™ PEDESTAL SYSTEM:

The AWS™ Pedestal System is an interlocking pedestal support used to ensure level walking surfaces on roofs and decks using architectural slabs and other natural products appropriate for elevated foot traffic. Developed by installers, for installers, the AWS System provides a long-lasting, affordable alternative to wood and composite systems for both commercial and residential projects.

### The AWS Pedestal System



\*PVC Piping not included, available locally.



# We Have the Answers

## Where can I purchase Mutual Materials® hardscape products?

*Mutual Materials*® concrete pavers, retaining walls, architectural slabs, natural stone and clay pavers are available through our 16 branch locations. They can also be found at home improvement stores throughout Washington, Oregon, Idaho and British Columbia—see [www.mutualmaterials.com](http://www.mutualmaterials.com) for a dealer in your area.

## Is there an easy way to estimate how much product I need to buy for my project?

Yes. We have a project estimation tool on our website that allows you to plan for the proper amount of material based on what pattern you choose for your project. Go to <http://www.mutualmaterials.com/homeowner/estimator> to find the links for both paver and retaining wall jobs.

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

Yes. Use the installation instructions at the back of this catalog and the design ideas and tips on our website, [www.mutualmaterials.com](http://www.mutualmaterials.com) to help guide your project. However, if your budget allows you may want to consider hiring a contractor. Installing hardscape features is hard work. Keep this in mind, especially if you're planning a large project.

## Does Mutual Materials offer installation services?

We are your complete solution for materials and installation for most types of projects. Visit our website or one of our branches for details.

## What type of maintenance do *Mutual Materials'* products require?

Concrete pavers, architectural slabs, natural stone, and clay pavers require minimal maintenance. Simply pressure wash or use a leaf blower on your project at least once a year. You may need to sweep more sand into the joints after pressure washing.

## How soon after installation can I use my new project?

Immediately, if your concrete pavers, architectural slabs, natural stone, or clay pavers are sand-set. Just be sure to complete each of the installation steps. If your natural stone or clay pavers are mortar-set, you should wait until the mortar is dry—consult your contractor or mortar instructions for drying time.

## Can I use concrete pavers, architectural slabs, natural stone, clay pavers around my swimming pool?

Definitely! Not only do *Mutual Materials* concrete pavers, architectural slabs, natural stone, and clay pavers enhance your pool deck, they also offer a slip-resistant surface for walking.

## I want to build a retaining wall 4 feet tall, what factors should I consider?

Whenever building a wall over 4 feet (1.2 meter) tall, you should consult a professional engineer and your city's planning department. *Mutual Materials* retaining walls have a recommended maximum wall height—be sure to choose a wall system able to go to that height.

## Do I need to seal my concrete pavers, natural stone or architectural slabs?

No. However, sealers offer 3 key benefits:

- 1) Help resist penetrating stains.
- 2) Enhance the color.
- 3) Certain types of sealers can bind the sand particles in the joints, reducing the ability of weeds to grow.

We do not recommend sealing clay pavers.

## What is the white film on my concrete product/natural stone, and will it go away?

The white deposit you see is called efflorescence. There is no need to be concerned that your product is damaged or defective, and it has no adverse effect on the physical structure of the product. Efflorescence is normal on concrete pavers (and block), as well as on some natural stone. It may appear on the surface of new and older projects alike, and is a naturally occurring phenomenon. It occurs with leaching of salts that are deposited on the surface when water evaporates. Efflorescence can correct itself over time and exposure to the elements. It can also be cleaned with a number of commercial cleaners. However, we recommend that you discuss cleaning options with your contractor or a Mutual Materials customer service representative before attempting to clean efflorescence.

## How come the color on my product doesn't look exactly like it does in the catalog?

Due to the limitations of photography, there is no guarantee that your product's colors and textures will have the same appearance as they do in print or online. We always recommend you see an actual sample before deciding on a product.

## How do I get the most consistent color throughout my project?

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.

# Paver Installation Instructions

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. For more information, or help locating a contractor, please contact Mutual Materials directly or visit [www.mutualmaterials.com](http://www.mutualmaterials.com).

To see a video demonstration of installing a paver patio, check out our YouTube channel at [www.youtube.com/user/mutualmaterialsco](http://www.youtube.com/user/mutualmaterialsco).

## 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.

# Retaining Wall Installation Instructions

**Note:** 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™, RomanPisa®, and CornerStone® walls over 4 feet requiring engineering and reinforcement are available from a Mutual Materials Representative.

To see a video demonstration of a retaining wall installation, visit our channel on You Tube at [www.youtube.com/user/mutualmaterialsco](http://www.youtube.com/user/mutualmaterialsco).

## 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 RomanPisa®, the bottom groove should be fitted over the tongue on the base blocks. If using Celtik Wall®, insert clips as shown on the Celtik Wall® Tech Sheet. This will provide a batter to the wall for better stability. 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®, Celtik Wall®, CypressStone™, RomanPisa®, 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.



# Sand-Set Slab Installation Instructions

The following are standard installation guidelines for Architectural Slabs in a sand-set application. 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](http://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.

## STEP 6: Compaction\*

Compact first to achieve proper interlock and then sweep joint sand over entire area to fill slab joints and lock up pattern lines. Sweep excess joint sand off of slab surface. Place sheets of plywood over the pavement. Place plate compactor on plywood and run compactor, making sure not to leave compactor in one spot too long as it will crack or chip the slab below. Make back and forth runs, slightly overlapping the previous run. Compact pavers in perpendicular runs to first compaction. When finished, sweep joint sand into slab joints until they are completely full.



\* 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.

# Natural Stone Installation Instructions

## 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 3/4 minus, a 1"-1½" layer of 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 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 1/4 minus as a bed for your stones.

### STEP 5:

If your stone is of varying thickness, add or remove the 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 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 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 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.

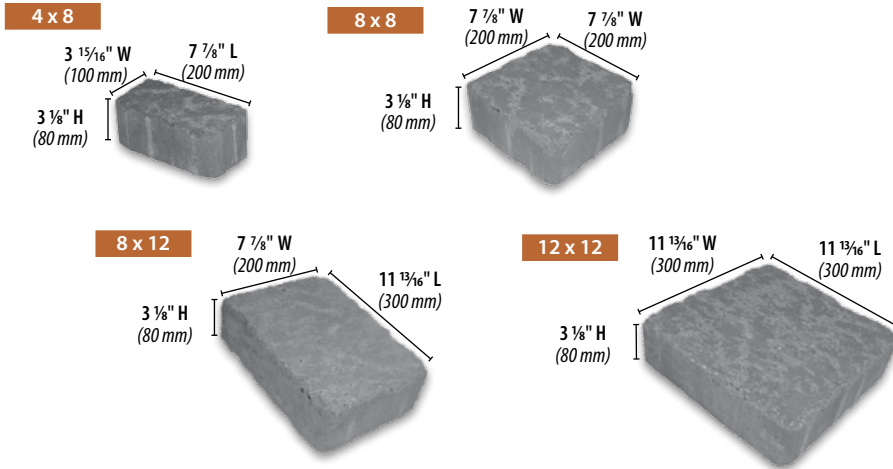
\*\* Neet cement should be portland cement and water in a cake batter consistency

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

## Terra Villa (p. 11)

Unit	Coverage	Units / Pallet	Coverage/Pallet	Weight/pc	Weight / Pallet
4 x 8	4.63 ft <sup>2</sup> (50.4 pcs / m <sup>2</sup> )	432	93.3 ft <sup>2</sup> (8.67 m <sup>2</sup> )	6.7 lb (3 kg)	2,900 lb (1,315 kg)
8 x 8	2.31 ft <sup>2</sup> (25.13 pcs / m <sup>2</sup> )	192	83.11 ft <sup>2</sup> (7.72 m <sup>2</sup> )	14 lb (6.35 kg)	2,700 lb (1,225 kg)
8 x 12	1.54 ft <sup>2</sup> (16.76 pcs / m <sup>2</sup> )	128	83.11 ft <sup>2</sup> (7.72 m <sup>2</sup> )	22.6 lb (10.25 kg)	2,900 lb (1,315 kg)
12 x 12	1.03 ft <sup>2</sup> (11.21 pcs / m <sup>2</sup> )	96	93.3 ft <sup>2</sup> (8.67 m <sup>2</sup> )	33.6 lb (15.24 kg)	3,225 lb (1,463 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 1/8"(1.5 mm) joint



### TERRA VILLA INSTALLATION PATTERNS

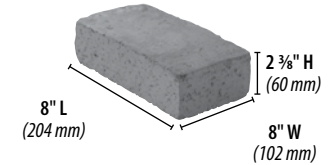


Pattern	4 x 8	8 x 8	8 x 12	12 x 12
Modified K	5%	17%	19%	43%
Modified Herringbone	17%	33%	29%	27%
4-Piece Herringbone	10%	19%	24%	27%
27% Large Square	12%	24%	36%	27%

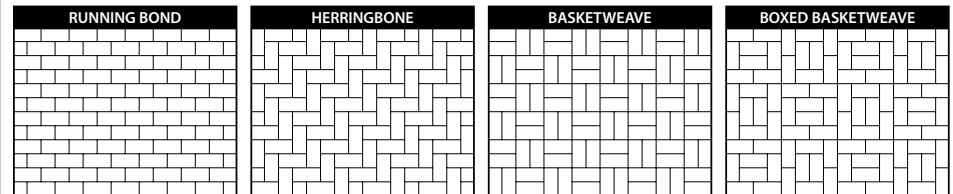
## Roman Clay Pavers & Roman Holland (pp. 12, 13, 16)

Unit	Coverage	Units/Pallet	Coverage/Pallet	Weight/Piece	Weight/Pallet
2 3/8" Paver	4.5 / ft <sup>2</sup> (48.44 / m <sup>2</sup> )	576	128 ft <sup>2</sup> (11.89 m <sup>2</sup> )	6 lb (2.72 kg)	3,506 lb (1,590.29 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 1/8"(1.5 mm) joint



### ROMAN CLAY PAVER INSTALLATION PATTERNS

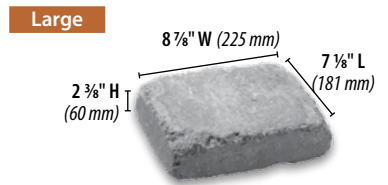
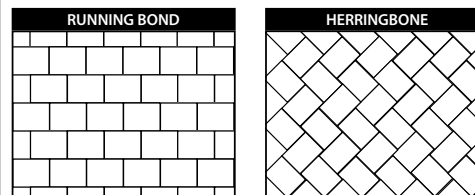


## Roman Cobblestone (p. 17)

Unit	Coverage	Units/Pallet	Coverage/Pallet	Weight/Piece	Weight/Pallet
Small	6.82 pcs / ft <sup>2</sup> (73.37 m <sup>2</sup> )	675	99 ft <sup>2</sup> (9.2 m <sup>2</sup> )	4.2 lb (1.9 kg)	2,840 lb (1,288 kg)
Medium	3.4 pcs / ft <sup>2</sup> (36.73 m <sup>2</sup> )	360	106 ft <sup>2</sup> (9.85 m <sup>2</sup> )	8.4 lb (3.8 kg)	3,025 lb (1,372 kg)
Large	2.29 pcs / ft <sup>2</sup> (24.45 m <sup>2</sup> )	225	97.1 ft <sup>2</sup> (9 m <sup>2</sup> )	13 lb (5.7 kg)	2,840 lb (1,288 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 1/8"(1.5 mm) joint

### ROMAN COBBLESTONE INSTALLATION PATTERNS

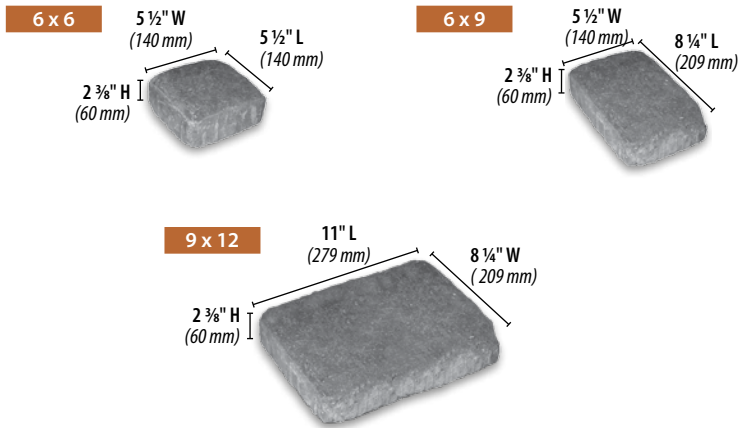




# Dominion Slate & Roman Dominion™ (pp. 14-15)

Unit	Coverage	Units/Pallet	Coverage/Pallet	Weight/Piece	Weight/Pallet
6 x 6	4.73 pcs / ft <sup>2</sup> (51.5 pcs / m <sup>2</sup> )	432	91.26 ft <sup>2</sup> (8.48 m <sup>2</sup> )	5.8 lb (2.6 kg)	2,560 lb (1,161 kg)
6 x 9	3.16 pcs / ft <sup>2</sup> (34.4 pcs / m <sup>2</sup> )	324	102.6 ft <sup>2</sup> (9.53 m <sup>2</sup> )	8.7 lb (3.9 kg)	2,870 lb (1,302 kg)
9 x 12*	1.59 pcs / ft <sup>2</sup> (17.1 pcs / m <sup>2</sup> )	144	90.8 ft <sup>2</sup> (8.43 m <sup>2</sup> )	17.6 lb (8 kg)	2,582 lb (1,171 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  
 \*9 x 12 Unit not meant for vehicular applications



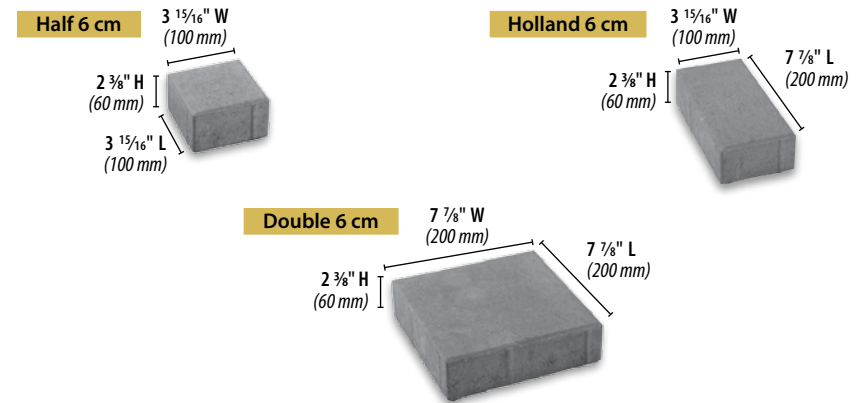
## ROMAN DOMINION/DOMINION SLATE INSTALLATION PATTERNS

<b>6 x 9 RUNNING BOND</b> 	<b>HERRINGBONE</b> 	<b>6 x 6 RUNNING BOND</b> 	<b>RANDOM RUNNING BOND</b> 
<b>MUSTER K</b> 	<b>CORRIDOR LAYERED</b> 	<b>3-PIECE ASHLAR PATTERN</b> 	
6 x 6: 30% 6 x 9: 70%		9 x 12: 43% 6 x 9: 43% 6 x 6: 14%	

# Holland 6 cm (p. 22)

Unit	Coverage	Units/Pallet	Coverage/Pallet	Weight/Piece	Weight/Pallet
Half Holland	9.29 pcs / ft <sup>2</sup> (100 pcs / m <sup>2</sup> )	972	104.62 ft <sup>2</sup> (9.72 m <sup>2</sup> )	3 lb (1.4 kg)	2,966 lb (1,346 kg)
Holland	4.63 pcs / ft <sup>2</sup> (50.04 pcs / m <sup>2</sup> )	486	104.88 ft <sup>2</sup> (9.74 m <sup>2</sup> )	6 lb (2.7 kg)	2,966 lb (1,346 kg)
Double	2.31 pcs / ft <sup>2</sup> (24.86 pcs / m <sup>2</sup> )	216	93.46 ft <sup>2</sup> (8.68 m <sup>2</sup> )	12 lb (5.4 kg)	2,642 lb (1,199 kg)

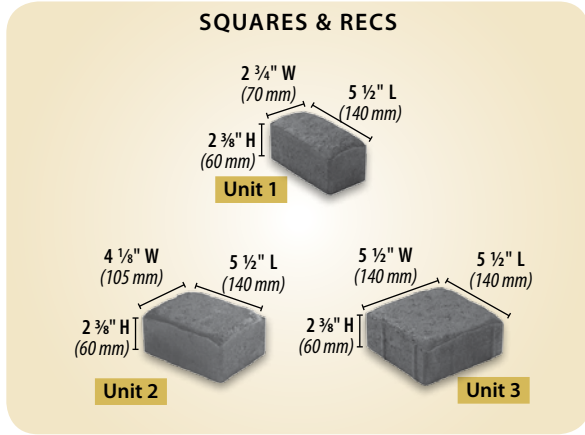
All **Weight per Pallet** noted above includes a 50 lb pallet weight.  
 \*All metric dimensions are soft converted to Imperial. Dimensions and coverage include 1.5 mm (1/16") joint



## HOLLAND INSTALLATION PATTERNS

<b>RUNNING BOND</b> 	<b>HERRINGBONE</b> 	<b>BASKETWEAVE</b> 	<b>BOXED BASKETWEAVE</b> 
<b>COMBINATION #1</b> 	<b>COMBINATION #2</b> 	<b>COMBINATION #3</b> 	<b>COMBINATION #4</b> 
Half 25% Holland 25% Double 50%	Holland 56% Double 44%	Half 14% Holland 29% Double 57%	Half 20% Double 80%

# Old Dominion Squares & Recs, Circle Kits (pp. 20-21)



## 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)	21.86 ft (615.8 cm)	39.27 ft <sup>2</sup> (3.65 m <sup>2</sup> )	1,150 lb (522 kg)
2 Pallets	2 3/8" (6 cm)	58 7/16" (148.4 cm)	116 7/8" (296.8 cm)	30.6 ft (932.7 cm)	78.54 ft <sup>2</sup> (7.29 m <sup>2</sup> )	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

### SMALL CIRCLE (1 pallet)\*\*

HEIGHT	DIAMETER	CIRCUMFERENCE
2 3/8" (60 mm)	83 1/2" (2120 mm)	262 3/8" (6160 mm)

### LARGE CIRCLE (2 pallets)\*\*

HEIGHT	DIAMETER	CIRCUMFERENCE
2 3/8" (60 mm)	116 7/8" (2970 mm)	367 3/16" (9327 mm)

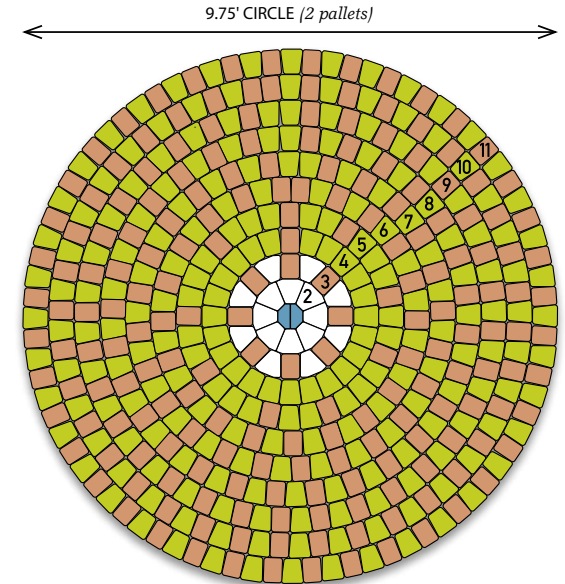
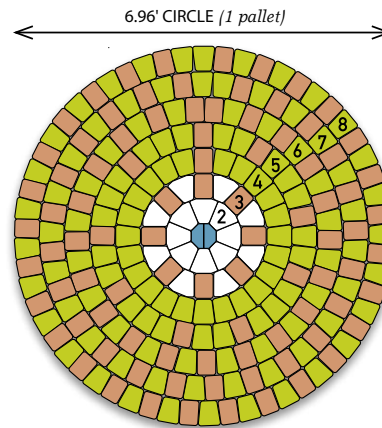
### SQUARES & RECS\*

Coverage/Pallet	Layers/Pallet	Weight/layer	Weight/Pallet
102.74 ft (9.54 m)	9	320 lb (145 kg)	2,930 lb (1,329 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 1/8" (1.5 mm) joint.



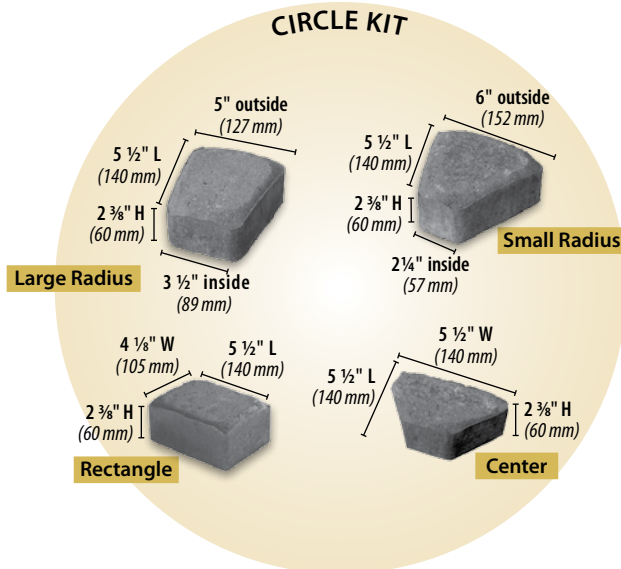
**LEGEND**

- CP ..... Center Piece
- SR ..... Small Radius
- LR ..... Large Radius
- R ..... Rectangle

**PALLET LAYOUT**

\* Must be purchased by the full layer. Sizes come mixed on each layer.

\*\* Must be purchased by the full pallet.



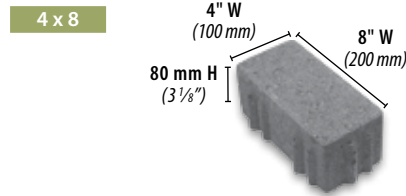
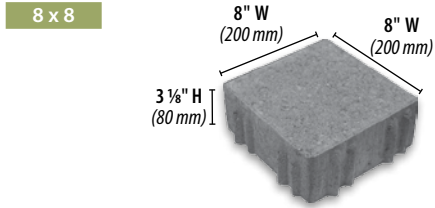


## Eco-Priora® (p. 7)

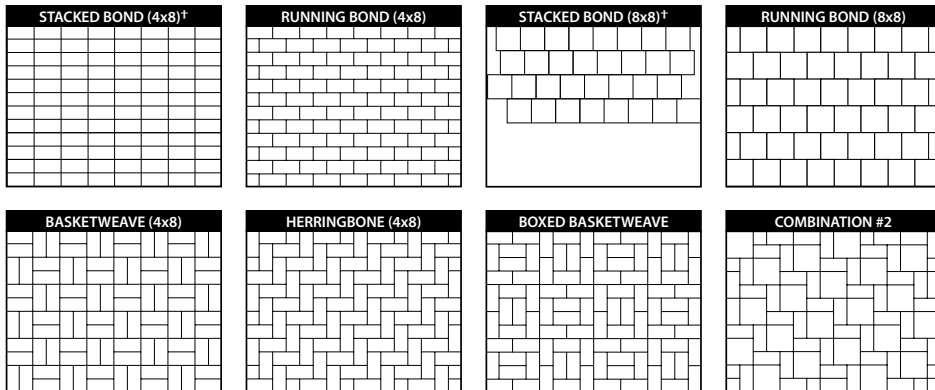
	Pieces / Pallet	Stones / Sq Ft	Coverage / Pallet	Weight / Unit	Weight / Pallet	Net Void
4 x 8 Unit	432	4.5	93.2 ft <sup>2</sup> (8.65 m <sup>2</sup> )	8 lbs (3.6 kg)	3,456 lbs (1,567 kg)	13%
8 x 8 Unit	192	2.25	83.04 ft <sup>2</sup> (7.71 m <sup>2</sup> )	16 lbs (7.2 kg)	3,172 lbs (1,439 kg)	9%

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

\* All metric dimensions are soft converted to Imperial.



### INSTALLATION PATTERNS



† Currently Available for Mechanical Installation

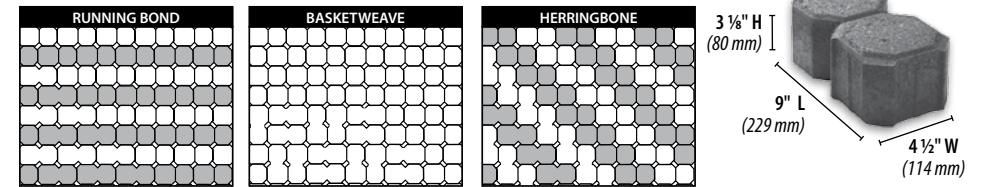
## Uni-Ecostone® (p. 9)

Coverage	Pieces / Pallet	Stones / Sq Ft	Coverage / Pallet	Weight / Piece	Weight / Pallet	Net Void
37.9 pcs / m <sup>2</sup> (3.52 pcs / ft <sup>2</sup> )	320	3.55	8.44 m <sup>2</sup> (90.8 ft <sup>2</sup> )	4.5 kg (10 lb)	1,474.1 kg (3,250 lb)	12.8%

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.

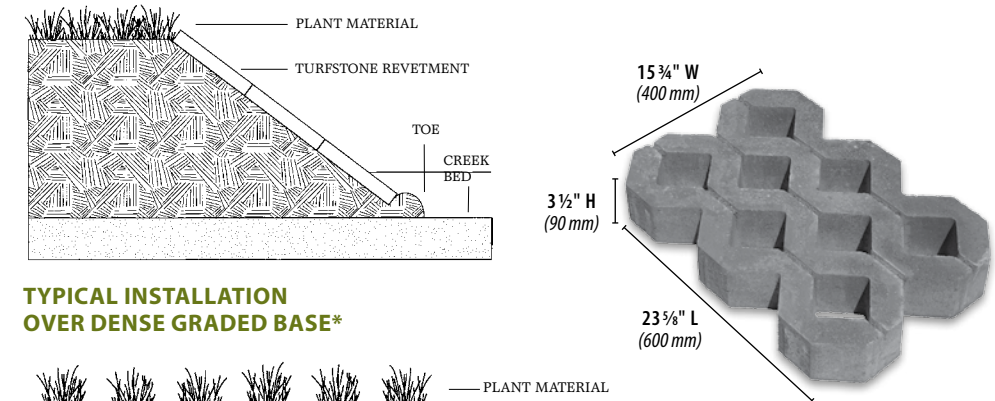
### INSTALLATION PATTERNS



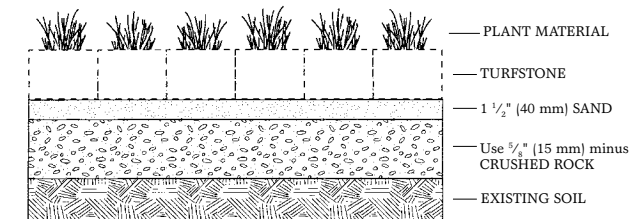
## TurfStone® (p. 8)

Coverage	Pieces per Pallet	Coverage per Pallet	Weight per Unit	Weight per Pallet
2.6 ft <sup>2</sup> / pc (0.24 pcs / m <sup>2</sup> )	35	91 ft <sup>2</sup> (8.45 m <sup>2</sup> )	69 lb (31.3 kg)	2,415 lb (1,095 kg)

### TYPICAL EMBANKMENT EROSION CONTROL\*



### TYPICAL INSTALLATION OVER DENSE GRADED BASE\*



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