

# NEWSTONE

GROUP





An opportunity was presented in 2018, to build a new company that would provide a fresh outlook in the manufacturing of hardscape products. A team of very experienced industry individuals was assembled, and the Newstone Group was formed.

The goal of Newstone was to build a state-of-the-art manufacturing plant that could provide the highest quality products in the marketplace. The new facility, located in Delta, BC, can not only manufacture top quality classic products but can also provide innovative products and trends for years to come. This combined with our teams commitment to quality and customer service makes Newstone the right choice.

Newstone is 100% locally owned and operated and committed to the best environmental practices in all aspects of our manufacturing and operations. All products we produce meet or exceed standards set by both CSA and ASTM. We look forward to assisting you with all your hardscape projects.

*Keith Leach*

President, Newstone Group

# Table Of Contents

## PAVERS

<u>Coastal Slate 3-Pcs Combo</u>	2
<u>Dorado</u>	4
<u>Dorado 3-Pcs Combo</u>	6
<u>Dorado XL</u>	8
<u>Linaro</u>	10
<u>Victorian Cobble</u>	12
<u>Old Village Stone</u>	14
<u>Old Village Stone 5-Pcs Combo</u>	16
<u>Urban</u>	18
<u>Urban 5-Pcs Combo</u>	20
<u>Standard Pavers</u>	22
<u>M-Tech</u>	24

## PERMEABLE PAVERS

<u>Eco-Pro</u>	26
<u>Dorado Drain Pavers</u>	28

## SLABS

<u>Premium Series</u>	30
<u>Manhattan VibroPressed Slabs</u>	32

## WALL

<u>Dorado Wall</u>	34
--------------------	----

## INFORMATION

<u>Installation Patterns</u>	38
<u>FAQs</u>	48

Check website for the most up-to-date information

**NEWSTONEGROUP.CA**

# Coastal Slate 3-Piece Combo

Premium Finish Face Mix Technology



Photo courtesy of Green Paradise Landscaping

Espresso with Winter Sky Border (Sealed)

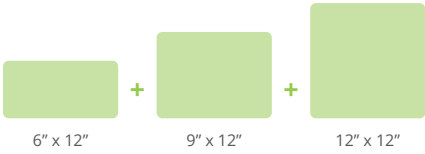
Intended to be installed in a truly random pattern this concrete paving stone features the texture of natural sandstone.

## TRULY RANDOM PATTERN

The Coastal Slate has an uneven number of pieces of each size on the pallet, allowing you to construct a truly random pattern that emphasizes your own personal style.



## COMBO MOLD 3-PIECE:



Size (in)	Type	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
6" x 12" x 2-3/8" 151mm x 304mm x 60mm	C	108	1361kg / 3000lbs	54
9" x 12" x 2-3/8" 228mm x 304mm x 60mm	E			36
12" x 12" x 2-3/8" 304mm x 304mm x 60mm	F			54

All sizes including 3 mm Spacer Bars



When installing pavers with raised surfaces it is strongly recommended to use a compactor with a rubber pad to prevent burnishing the raised surface.

## RECOMMENDED APPLICATIONS



Patios



Walkways



Residential Driveway/Parking

**COMBO MOLD PALLET LAYOUT**

Image below show the paver configuration on the pallet, see page 34 for laying pattern.

**3-Piece**

F	F	F	F		
E	E	C	C	E	E
F	C	C	C	C	F



**Winter Sky**



**Birchwood**



**Espresso**



**Glacier**

# Dorado

Premium Finish Face Mix Technology



Photo courtesy of Benjamin Landscaping & Projects

6"x12", 12"x12" Dorado Glacier in a Diamond Pattern

Dorado offers multiple sizes to allow endless colour and pattern variations.

### INDIVIDUAL SIZES:



Size (in)	Pieces per sq.ft.	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
<b>6" x 6" x 2-3/8"</b> 151mm x 151mm x 60mm	4	108	1361kg / 3000lbs	432
<b>6" x 9" x 2-3/8"</b> 151mm x 228mm x 60mm	2.67	101.25	1361kg / 3000lbs	270
<b>6" x 12" x 2-3/8"</b> 151mm x 304mm x 60mm	2	108	1361kg / 3000lbs	216
<b>12" x 12" x 2-3/8"</b> 304mm x 304mm x 60mm	1	108	1406kg / 3100lbs	108

All sizes including 3 mm Spacer Bars



### RECOMMENDED APPLICATIONS



Patios



Walkways



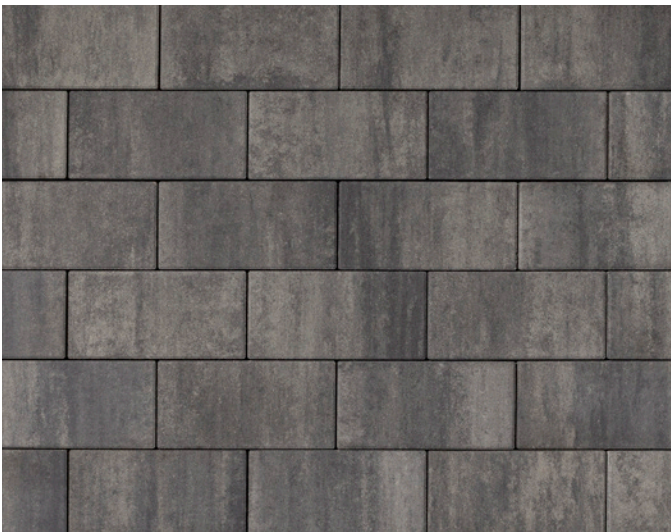
Residential Driveway/Parking



**Natural**



**Charcoal**



**Winter Sky**



**Glacier**



**Espresso**

# Dorado 3-Piece Combo

Premium Finish Face Mix Technology

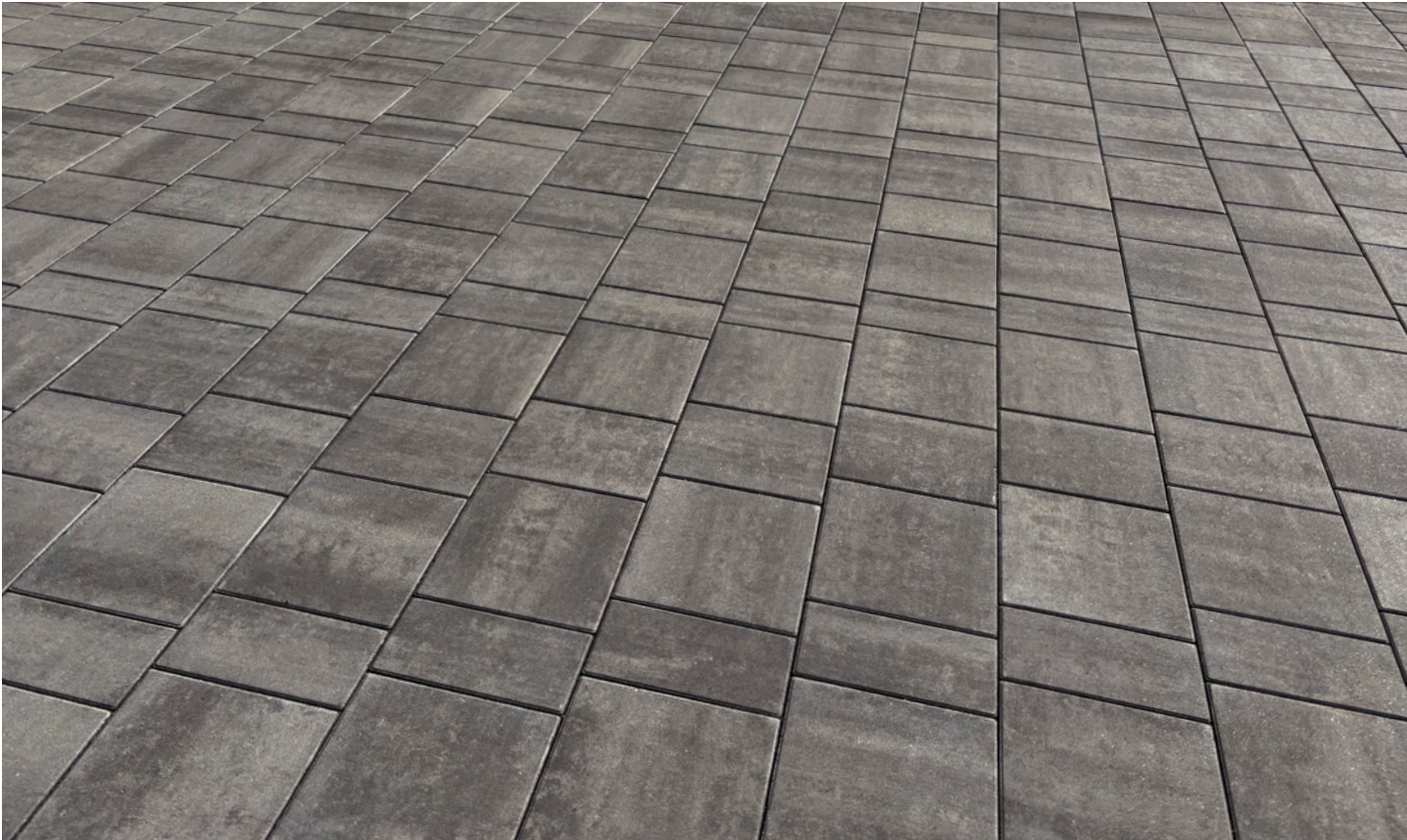
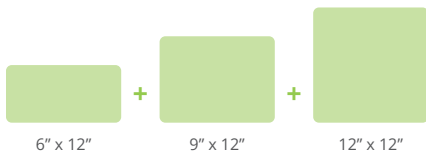


Photo courtesy of Express Landscaping

3-Piece Combo - Winter Sky

The 3-piece combo gives you the same layout as our popular Coastal Slate but with a flat surface instead of the riven face of the Coastal Slate.

## COMBO MOLD 3-PIECE:



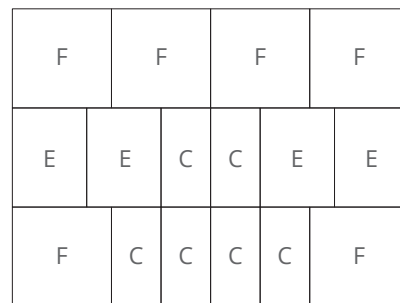
Size (in)	Type	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
6" x 12" x 2-3/8" 151mm x 304mm x 60mm	C	108	1361kg / 3000lbs	54
9" x 12" x 2-3/8" 228mm x 304mm x 60mm	E			36
12" x 12" x 2-3/8" 304mm x 304mm x 60mm	F			54

All sizes including 3 mm Spacer Bars

## COMBO MOLD PALLET LAYOUT

Images below show the paver configuration on the pallet, see page 34 for laying pattern.

### 3-Piece



## RECOMMENDED APPLICATIONS



Patios



Walkways



Residential Driveway/Parking





**Natural**



**Charcoal**



**Winter Sky**



**Birchwood**



**Espresso**

# Dorado XL

Premium Finish Face Mix Technology



Photo courtesy of Groundwerx Landscape + Design

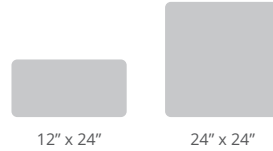
Winter Sky 24"x24" with Dorado inlaid 6"x12" Charcoal and 12"x12" Natural

## DORADO XL SLABS

Extra large size Dorado slabs allows endless colour and pattern variations for your driveway.



### INDIVIDUAL SIZES:



Size (in)	Pieces per sq.ft.	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
<b>12" x 24" x 3-1/8"</b> 304mm x 606mm x 80mm	0.5	56	975kg / 2150lbs	28
<b>24" x 24" x 3-1/8"</b> 606mm x 606mm x 80mm	0.25	56	975kg / 2150lbs	14

All sizes including 3 mm Spacer Bars

### RECOMMENDED APPLICATIONS



Patios



Walkways



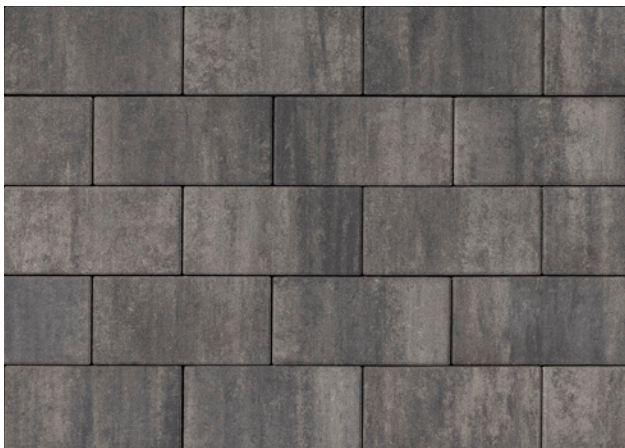
Residential Driveway/Parking



**Natural**



**Charcoal**



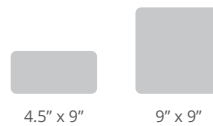
**Winter Sky**

# DORADO XL COMMERCIAL PAVER

Commercial paver designed for vehicular traffic areas



## INDIVIDUAL SIZES:



4.5" x 9"

9" x 9"

Size (in)	Pieces per sq.ft.	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
<b>4.5" x 9" x 3-1/8"</b> 113mm x 228mm x 80mm	3.6	79	1383kg / 3050lbs	280
<b>9" x 9" x 3-1/8"</b> 228mm x 228mm x 80mm	1.8	79	1383kg / 3050lbs	140

All sizes including 3 mm Spacer Bars

## RECOMMENDED APPLICATIONS



Parking Lots



Vehicular Traffic

# Linaro

Premium Finish Face Mix Technology

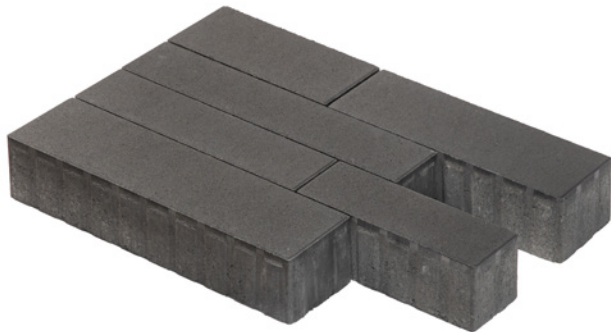
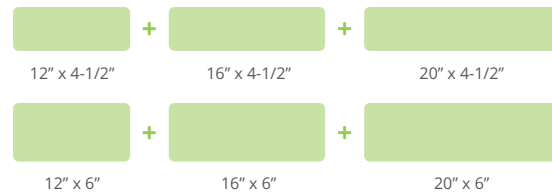


Photo courtesy of Ratan Raymon Construction Ltd.

Silver Grey, Midnight Black, and Graphite laid together. Pattern achieved by ordering pallets of three different colours.

Linaro is manufactured on a mixed pallet containing pavers of 2 different widths and 3 different lengths. This change in width and length creates an interesting combination of lineal pavers. Combining colours within the pattern adds further layers of interest. The visual scale is appropriate for everything from city plazas to residential drives.

### COMBO MOLD - 6-PIECE:



Size (in)	Type	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
<b>12" x 4-1/2" x 3-15/16"</b> 305mm x 115mm x 100mm	A	56	1173kg / 2585lbs	18
<b>16" x 4-1/2" x 3-15/16"</b> 407mm x 115mm x 100mm	B			12
<b>20" x 4-1/2" x 3-15/16"</b> 508mm x 115mm x 100mm	C			18
<b>12" x 6" x 3-15/16"</b> 305mm x 153mm x 100mm	D			18
<b>16" x 6" x 3-15/16"</b> 407mm x 153mm x 100mm	E			12
<b>20" x 6" x 3-15/16"</b> 508mm x 153mm x 100mm	F			18

Wide spacer bars designed for permeable or sand set installation

### RECOMMENDED APPLICATIONS



Patios



Walkways



Residential Driveway/Parking

**COMBO MOLD PALLET LAYOUT**

Image below shows the paver configuration on the pallet, see page 34 for laying pattern.

D	F	
C		A
C		A
E	E	
F		D
B	B	
C		A
D	F	

**INSTALLATION PATTERN**

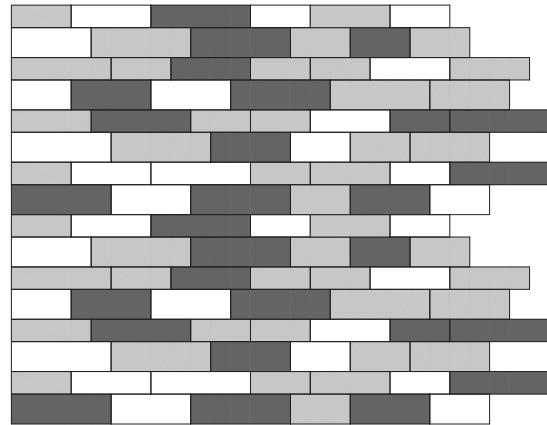
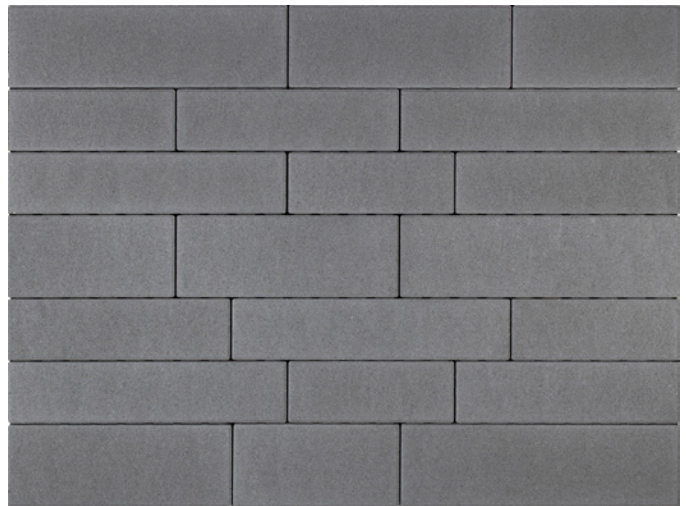


Image above shows Linaro in a random installation pattern. It is recommended to alternate the widths for each row. As with all lineal pavers, it is recommended to lay them perpendicular to vehicular traffic.



**Silver Grey**



**Graphite**



**Midnight Black**

# Victorian Cobble

Premium Finish Face Mix Technology

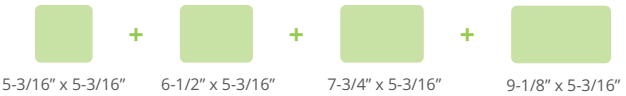


Winter Sky

Victorian Cobble is manufactured on a mixed pallet containing 4 pavers of different lengths. With its cleft surface appearance and wider joints, the Victorian Cobble has a timeless appeal. The Victorian Cobble is installed in a running bond or Random pattern. If installed as a permeable paver the infiltration rate is greater than 300 inches per hour.



### COMBO MOLD - 4-PIECE:



Size (in)	Type	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
5-3/16" x 5-3/16" x 2-3/8" 132mm x 132mm x 60mm	A	108	1225kg / 2700lbs	108
6-1/2" x 5-3/16" x 2-3/8" 165mm x 132mm x 60mm	B			108
7-3/4" x 5-3/16" x 2-3/8" 198mm x 132mm x 60mm	C			90
9-1/8" x 5-3/16" x 2-3/8" 232mm x 132mm x 60mm	D			108

Wide spacer bars designed for permeable or sand set installation



**NewStone Permeable Pavers**  
the perfect blend of beauty and functionality. Designed to reduce runoff and promote natural drainage, these eco-friendly pavers help manage stormwater while enhancing the look

### RECOMMENDED APPLICATIONS



Patios



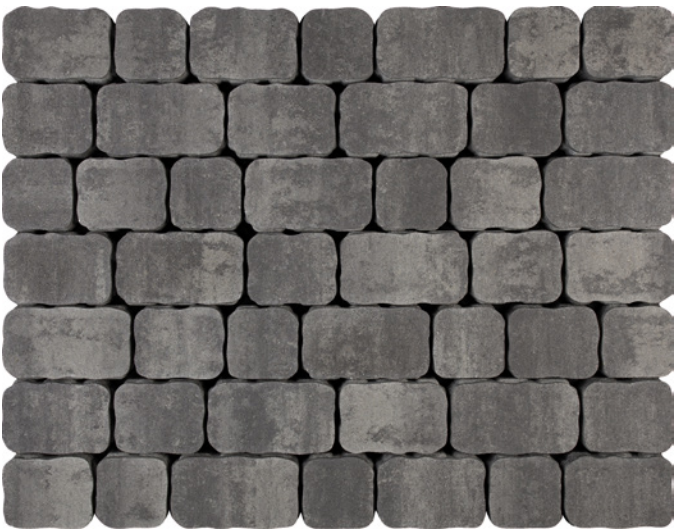
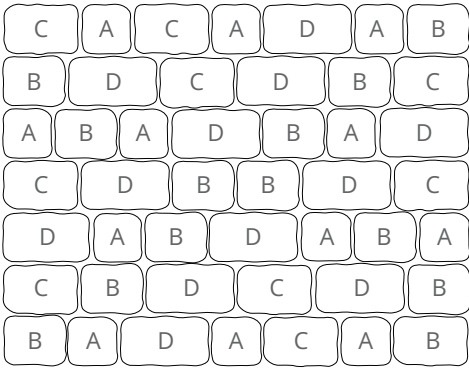
Walkways



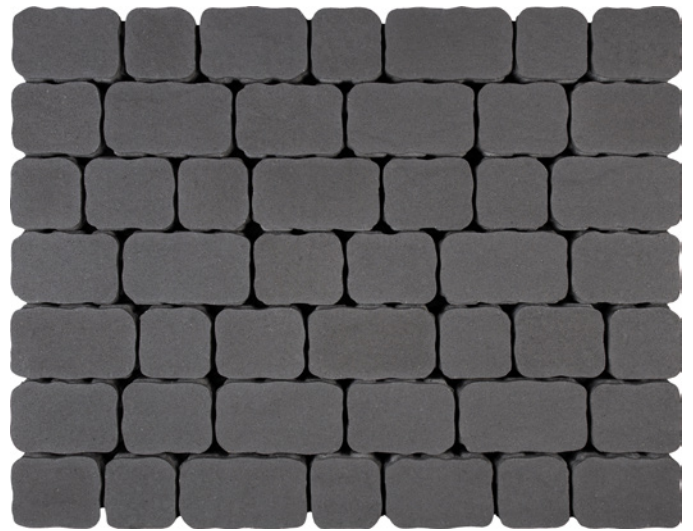
Residential Driveway/Parking

**COMBO MOLD PALLET LAYOUT**

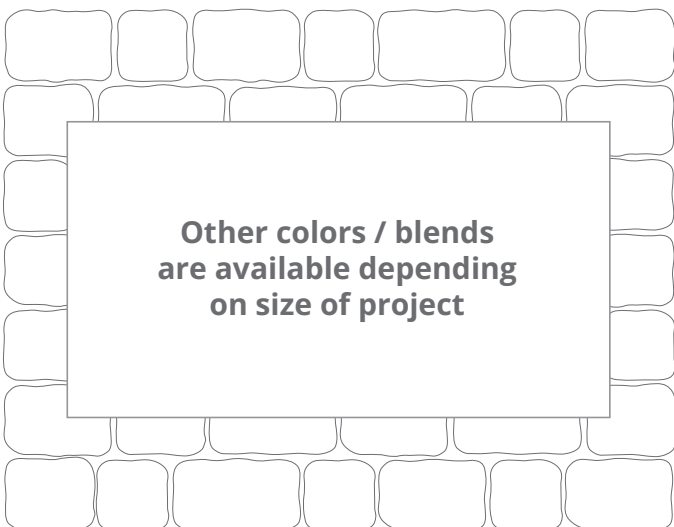
Image below shows the paver configuration on the pallet, see page 34 for laying pattern.



**Winter Sky**



**Charcoal**



# Old Village Stone

Premium Finish Face Mix Technology



6"x9" Winter Sky

Irregular, slightly broken edges and corners create the effect of old European charm.



### INDIVIDUAL SIZES:



Size (in)	Pieces per sq.ft.	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
6" x 9" x 2-3/8" 151mm x 228mm x 60mm	2.67	101.25	1329kg / 2930lbs	270
6" x 12" x 2-3/8" 151mm x 304mm x 60mm	2	108	1361kg / 3000lbs	216

All sizes including 3 mm Spacer Bars

### RECOMMENDED APPLICATIONS



Patios



Walkways



Residential Driveway/Parking





**Natural**



**Charcoal**



**Winter Sky**



**Espresso**

# Old Village Stone 5-Piece Combo

Premium Finish Face Mix Technology

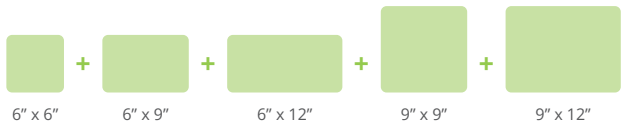


Photo courtesy of Alliston Stoneworks

5-Piece Combo - Natural

The 5-piece combo mold with its collection of sizes appears as an ancient Roman road did hundreds of years ago.

## COMBO MOLD 5-PIECE:

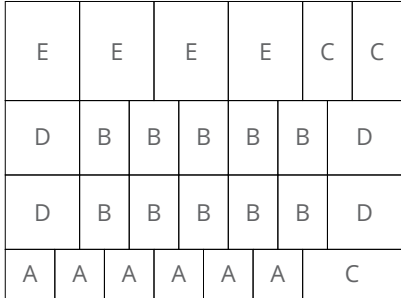


Size (in)	Type	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
6" x 6" x 2-3/8" 151mm x 151mm x 60mm	A	108	1361kg / 3000lbs	54
6" x 9" x 2-3/8" 151mm x 228mm x 60mm	B			90
6" x 12" x 2-3/8" 151mm x 304mm x 60mm	C			27
9" x 9" x 2-3/8" 228mm x 228mm x 60mm	D			36
9" x 12" x 2-3/8" 228mm x 304mm x 60mm	E			36

All sizes including 3 mm Spacer Bars

## COMBO MOLD PALLET LAYOUT

Image below shows the paver configuration on the pallet, see page 34 for laying pattern.



## RECOMMENDED APPLICATIONS



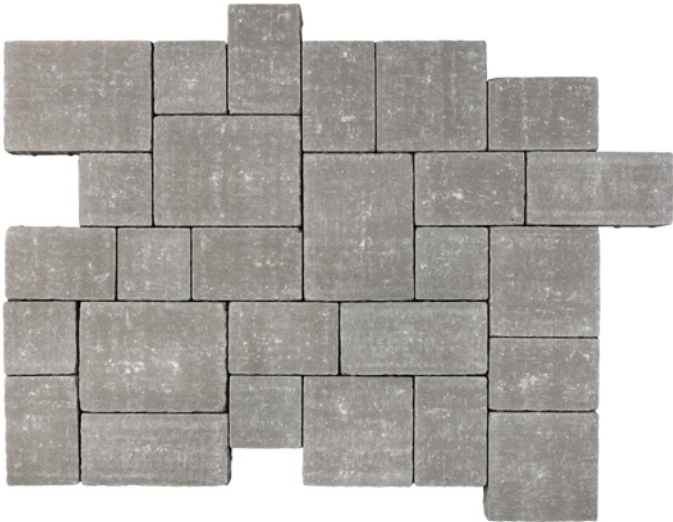
Patios



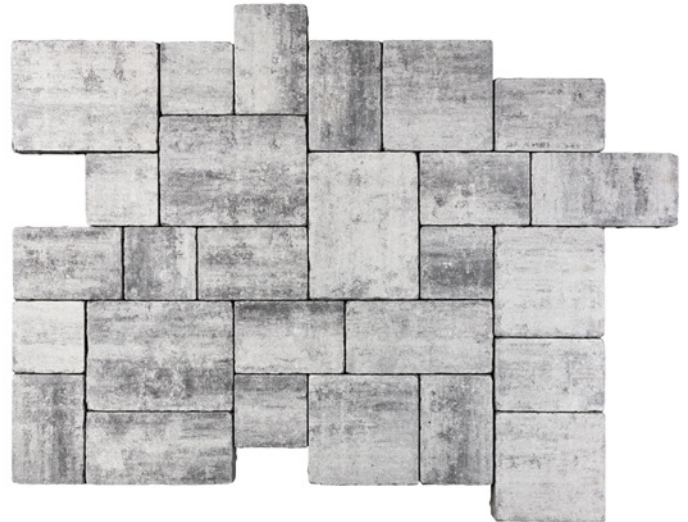
Walkways



Residential Driveway/Parking



**Natural**



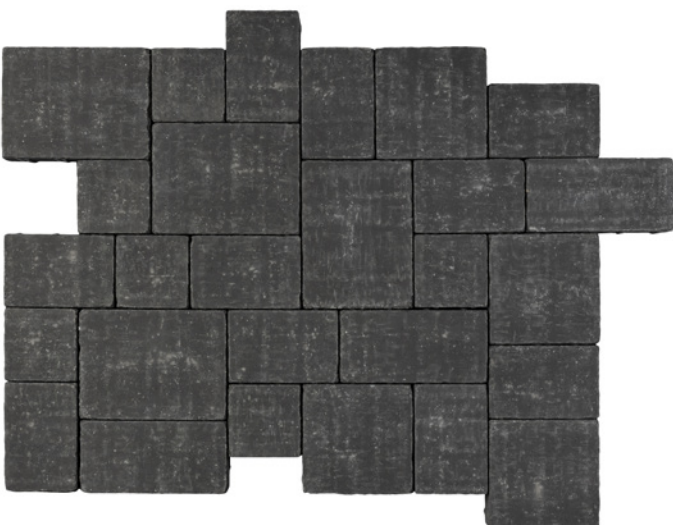
**Glacier**



**Espresso**



**Winter Sky**



**Charcoal**



Photo courtesy of Ocean Park Landscaping & Stone

6"x12" Natural

The new trend in Architectural Hardscape. Urban pavers have no chamfer which gives this distinctive look.



### INDIVIDUAL SIZES:



6" x 9"

6" x 12"

Size (in)	Pieces per sq.ft.	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
6" x 9" x 2-3/8" 151mm x 228mm x 60mm	2.67	101.25	1329kg / 2930lbs	270
6" x 12" x 2-3/8" 151mm x 304mm x 60mm	2	108	1361kg / 3000lbs	216

All sizes including 3 mm Spacer Bars



Please note, the lack of a chamfer requires installers to handle Urban pavers with more care than typical pavers.

### RECOMMENDED APPLICATIONS



Patios



Walkways



Residential Driveway/Parking



**Natural**



**Charcoal**



**Winter Sky**



**Espresso**

# Urban 5-Piece Combo

Premium Finish Face Mix Technology



Photo courtesy of Wisam Landscaping & Services Ltd.

5-Piece Combo - Espresso

Our Urban pavers in the 5-piece combo are the ultimate choice for the modern home. The absence of chamfers enhances the appearance of the various sizes creating the appearance of cut stone.

## COMBO MOLD 5-PIECE:

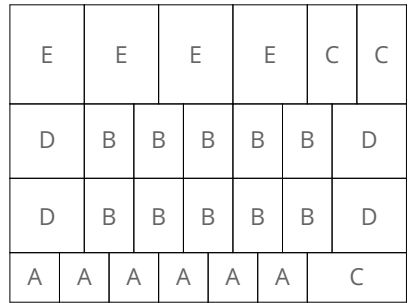


Size (in)	Type	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
<b>6" x 6" x 2-3/8"</b> 151mm x 151mm x 60mm	A	108	1361kg / 3000lbs	54
<b>6" x 9" x 2-3/8"</b> 151mm x 228mm x 60mm	B			90
<b>6" x 12" x 2-3/8"</b> 151mm x 304mm x 60mm	C			27
<b>9" x 9" x 2-3/8"</b> 228mm x 228mm x 60mm	D			36
<b>9" x 12" x 2-3/8"</b> 228mm x 304mm x 60mm	E			36

All sizes including 3 mm Spacer Bars

## COMBO MOLD PALLET LAYOUT

Image below shows the paver configuration on the pallet, see page 34 for laying pattern.



Please note, the lack of a chamfer requires installers to handle Urban pavers with more care than typical pavers.

## RECOMMENDED APPLICATIONS



Patios



Walkways



Residential Driveway/Parking



**Natural**



**Glacier**



**Espresso**



**Winter Sky**



**Charcoal**

# Standard Pavers

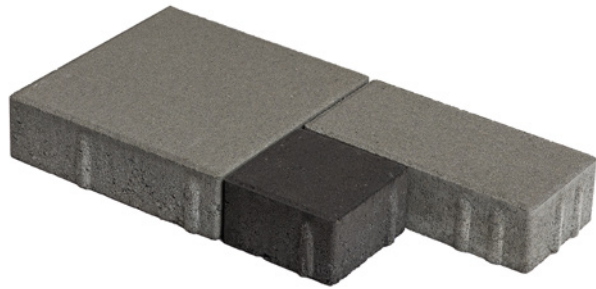
Premium Finish Face Mix Technology



Photo courtesy of Blue Pine Enterprises

Standard - Northern Shadow

The original paving stone shape offers contemporary elegance for commercial and residential projects.



### INDIVIDUAL SIZES:



Size (in)	Pieces per sq.ft.	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
<b>Half Standard</b> 4-7/16" x 4-7/16" x 2-3/8" 112.5mm x 112.5mm x 60mm	7.2	98	1225kg / 2700lbs	720
<b>Standard</b> 8-7/8" x 4-7/16" x 2-3/8" 225mm x 112.5mm x 60mm	3.6	98	1225kg / 2700lbs	360
<b>Double Standard</b> 8-7/8" x 8-7/8" x 2-3/8" 225mm x 225mm x 60mm	1.8	98	1225kg / 2700lbs	180

All sizes including 3 mm Spacer Bars

### RECOMMENDED APPLICATIONS



Patios



Walkways



Residential Driveway/Parking





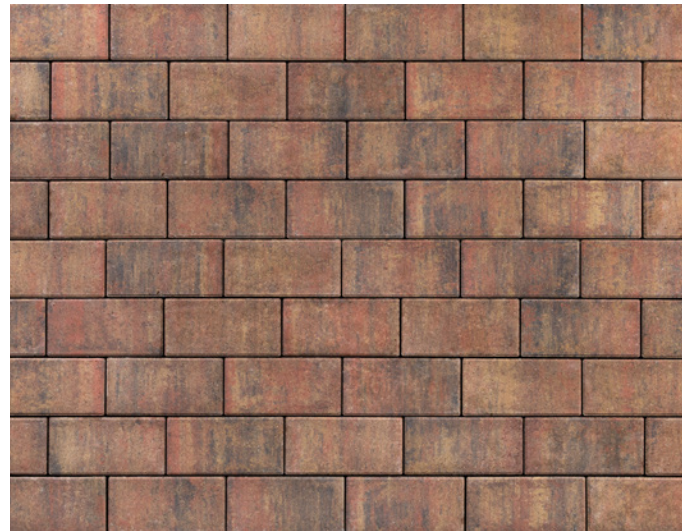
**Natural**



**Charcoal**



**Northern Shadow**



**Somerset**



6"x12" Natural

The M-Tech paver is manufactured on the pallet in a machine lay pattern. M-Tech is designed to accommodate heavy commercial traffic with its physical characteristics that include an enhanced interlock system. The enhanced interlock system is accomplished with multiple spacer tabs around all the edges of the paver, ensuring a robust vertical interlock. Helpful in areas with highly variable traffic loads and constant turning.

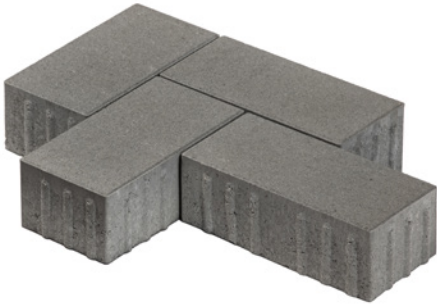
**INDIVIDUAL SIZES:**



6" x 12"

Size (in)	Pieces per sq.ft.	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
6" x 12" x 3-15/16" 151mm x 304mm x 100mm	2	63	1370kg / 3020lbs	126

All sizes including 3 mm Spacer Bars



**RECOMMENDED APPLICATIONS**



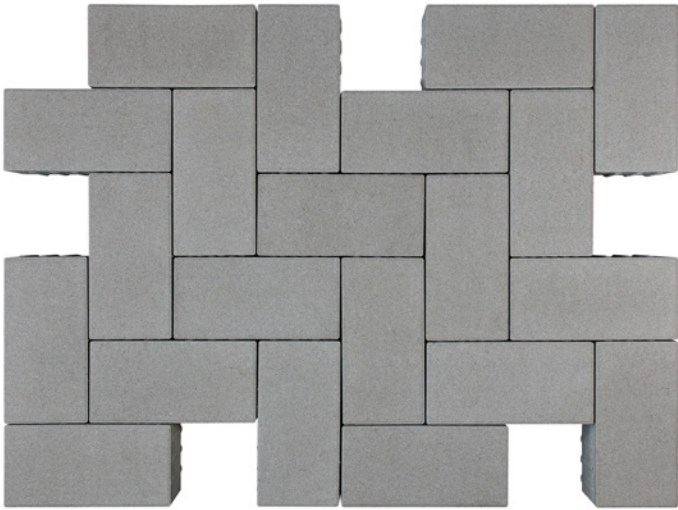
Parking Lots



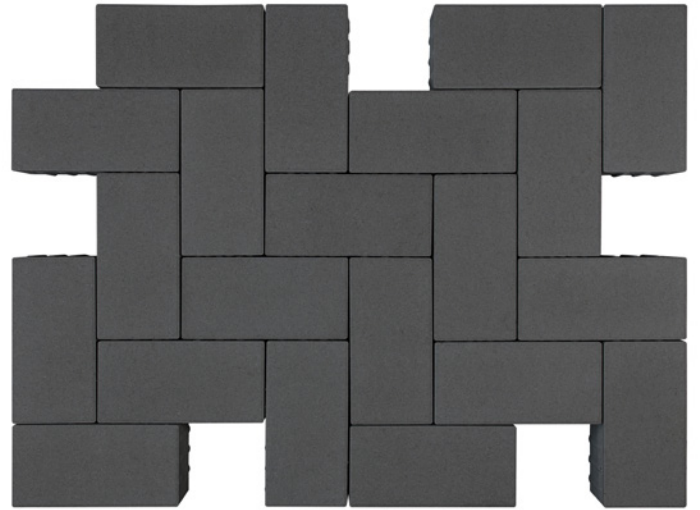
Vehicular Traffic



Heavy Traffic



**Natural**



**Midnight Black**



**Winter Sky**



Photo courtesy of Blue Pine Enterprises

8"x4" Natural

Eco-Pro pavers are perfect for a wide range of applications, including residential, municipal, and commercial projects. They are ideal for walkways, patios, driveways, courtyards, plazas, retail spaces, entryways, and parking lots. These pavers can be arranged in patterns like herringbone and running bond, offering both versatility and style.

### INDIVIDUAL SIZES:



8" x 4"

Size (in)	Pieces per sq.ft.	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
8" x 4" x 2-3/4" 200mm x 100mm x 70mm	4.5	88	1148kg / 2530lbs	396

All sizes including 3 mm Spacer Bars



**Newstone Permeable Pavers**  
the perfect blend of beauty and functionality. Designed to reduce runoff and promote natural drainage, these eco-friendly pavers help manage stormwater while enhancing the look

### RECOMMENDED APPLICATIONS



Patios



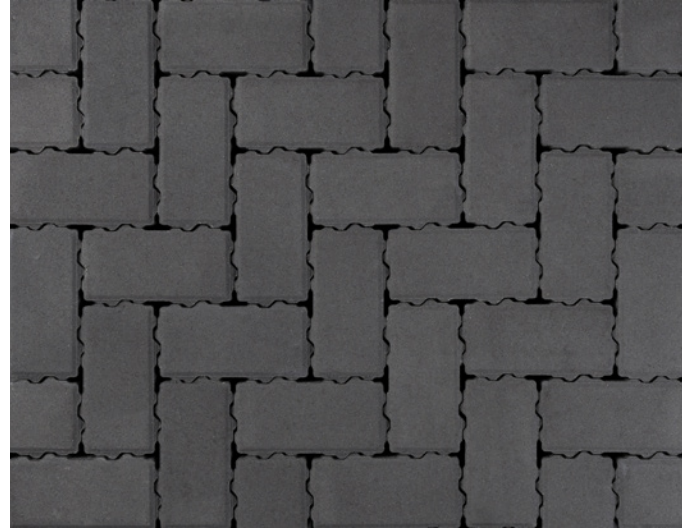
Walkways



Residential Driveway/Parking



**Natural**



**Charcoal**

# Dorado Drain Pavers

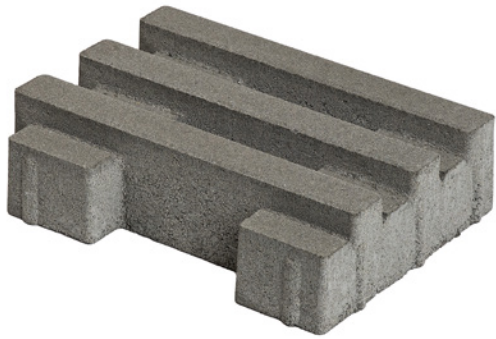
Premium Finish Face Mix Technology



Photo courtesy of Benjamin Landscaping & Projects

Dorado Drain Paver Natural (with Dorado Paver Glacier)

Designed to fit with our Dorado XL pavers. This compatibility together with the unique look creates new solutions for Permeable areas.



Percentage of surface opening is 25%.

### INDIVIDUAL SIZES:



9" x 12"

Size (in)	Pieces per sq.ft.	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
9" x 12" x 3-1/8" 228mm x 304mm x 80mm	1.33	79	943kg / 2080lbs	105

All sizes including 3 mm Spacer Bars



### Newstone Permeable Pavers

The perfect blend of beauty and functionality. Designed to reduce runoff and promote natural drainage, these eco-friendly pavers help manage stormwater while enhancing the look.

### RECOMMENDED APPLICATIONS



Patios



Walkways



Residential Driveway/Parking



**Natural**



**Charcoal**

# Premium Series VibroPressed Slabs

Premium Finish Face Mix Technology with a light shot-blast



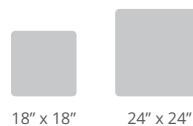
24"x24" Starlight

Our new Premium Series offers a group of special aggregate slabs that are shot blasted to enhance the natural brightness of the aggregates contained on the surface of the slabs. Our colors include Nova, Starlight, Galaxy, Cosmic, and Eclipse.

## VIBROPRESS TECHNOLOGY

Our state-of-the-art manufacturing process is able to bring the quality of slabs to the next level. The dimensional accuracy and high flexural strength make the Premium Series the go to slab.

## INDIVIDUAL SIZES:



18" x 18"      24" x 24"

Size (in)	Pieces per sq.ft.	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
"18" x 18" x 2"	0.44	99	1113kg / 2454lbs	44
"24" x 24" x 2"	0.25	88	1000kg / 2200lbs	22

All sizes including 3 mm Spacer Bars



## RECOMMENDED APPLICATIONS



Patios



Walkways



Decks



Pedestal Set





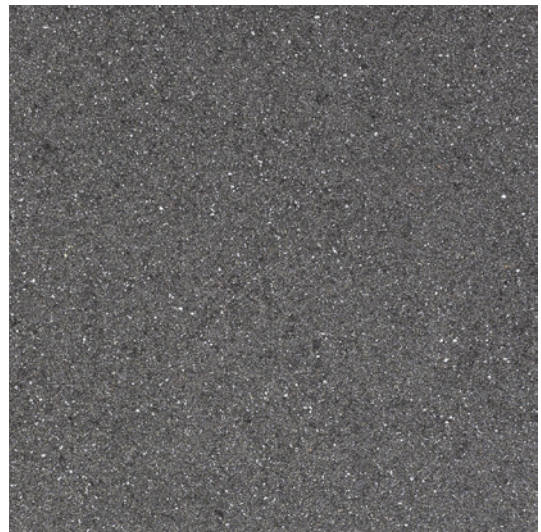
**Eclipse**



**Starlight**



**Cosmic**



**Galaxy**



**Nova**

# Manhattan VibroPressed Slabs

Premium Finish Face Mix Technology

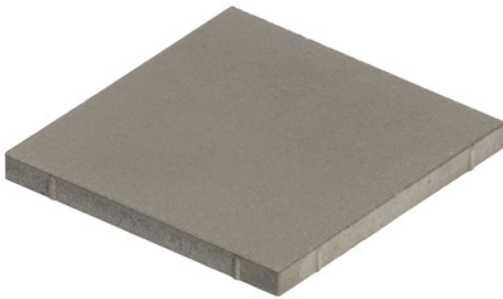


24"x36", 24"x24", 12"x24" Winter Sky

Classic paving stone slab, ideal for Pool Areas, Rooftops, Decks, Terraces.

## VIBROPRESS TECHNOLOGY

Our state-of-the-art manufacturing process is able to bring the quality of slabs to the next level. The dimensional accuracy and high flexural strength make the Manhattan the go to slab for pedestal installations.



## INDIVIDUAL SIZES:



Size (in)	Pieces per sq.ft.	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
12" x 24" x 2"	0.5	88	1000kg / 2200lbs	44
18" x 18" x 2"	0.44	99	1113kg / 2454lbs	44
18" x 36" x 2"	0.22	99	1113kg / 2454lbs	22
24" x 24" x 2"	0.25	88	1000kg / 2200lbs	22
24" x 36" x 2"	0.17	132	1472kg / 3246lbs	22

All sizes including 3 mm Spacer Bars

## RECOMMENDED APPLICATIONS



Patios



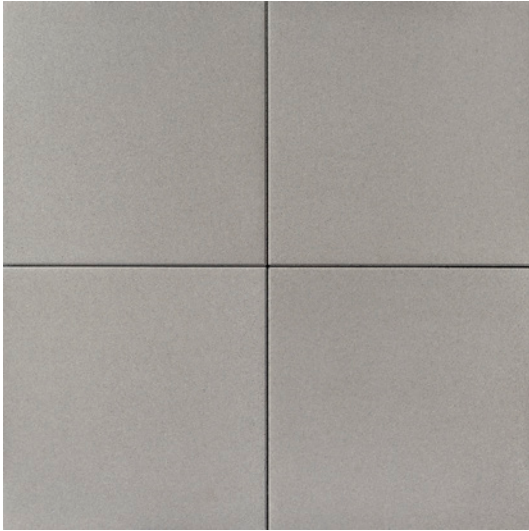
Walkways



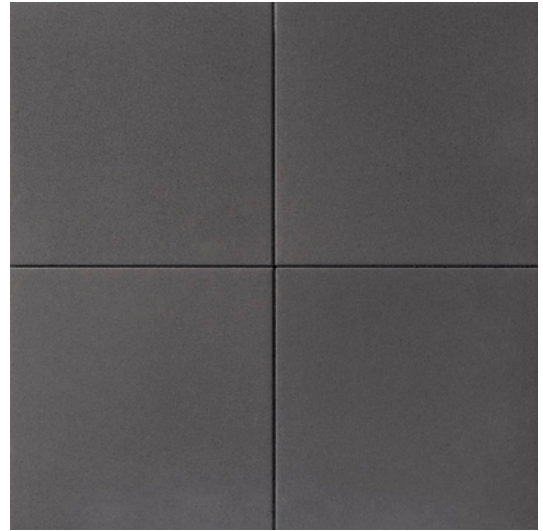
Decks



Pedestal Set



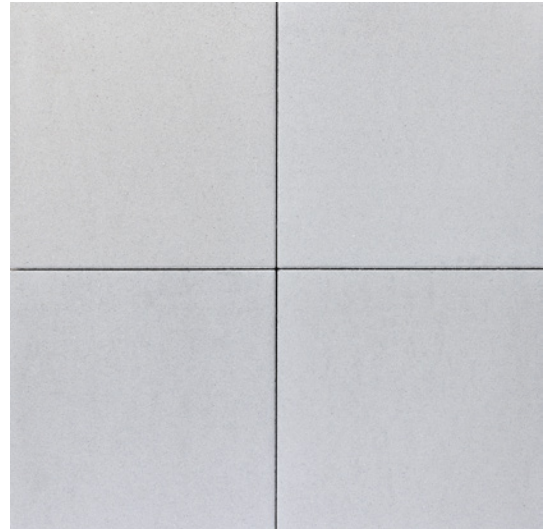
**Natural**



**Charcoal**



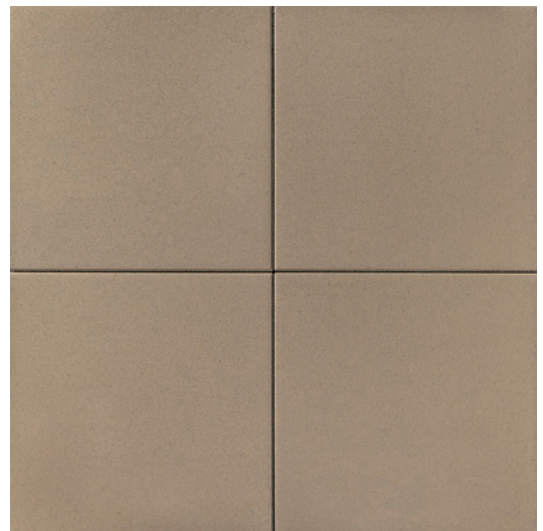
**Winter Sky**



**Pearl White**



**Espresso**



**Sierra Beige**

*Available only in 24"x24" size*

# Dorado Wall CANADIAN PATENTED

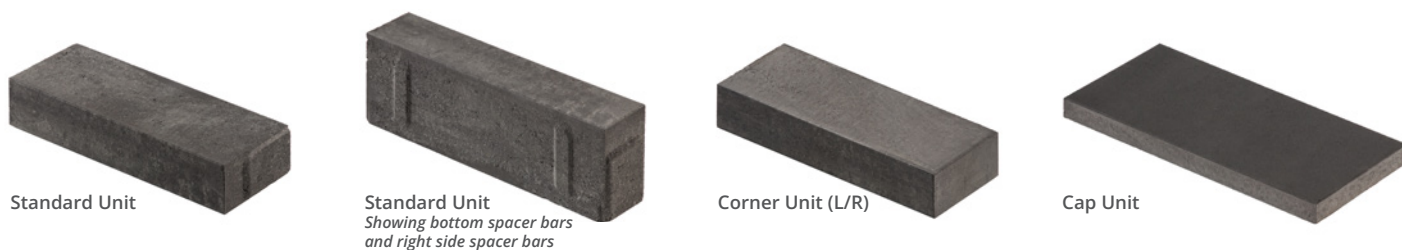
Premium Finish Face Mix Technology



Photo courtesy of Valhalla Hardscapes

Dorado Wall Winter Sky

The Dorado Wall is the perfect accompaniment to any modern design with its clean straight lines and rich premium finish face mix. The lineal appearance of the Dorado Wall with its zero setback is unique in a garden wall unit. Installation is simple as there are no pins, lips, or lugs. The Dorado Wall units are adhered to each other using a concrete adhesive attaining a maximum height of 30 inches.



Standard Unit

Standard Unit  
Showing bottom spacer bars  
and right side spacer bars

Corner Unit (L/R)

Cap Unit

## INDIVIDUAL SIZES:

Blocks	Size (in)	Pieces per sq.ft.	Sq.ft. per Pallet	Shipping Weight	PCS / Pallet
Standard Unit	8" x 24" x 5" 203mm x 610mm x 127mm	1.2	35	1460kg / 3220lbs	42
Corner Unit (L/R)	8" x 24" x 5" 203mm x 610mm x 127mm	1.2	20	835kg / 1840lbs	24
Cap Unit	11" x 24" x 2" 279mm x 610mm x 51mm	0.55	80	907kg / 2000lbs	44

Sizes for standard unit and corner unit include 5 mm Spacer Bars



**NOTE:** While gluing the Dorado Wall units it is recommended to use tapered shims (typically 3/16" to 1/4") to maintain the position of the blocks with removal after the glue has set.

## RECOMMENDED APPLICATIONS



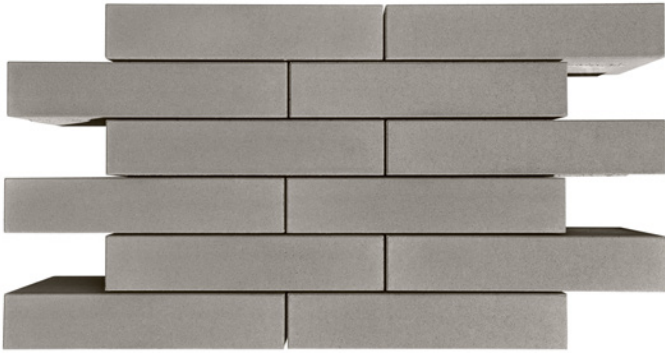
Garden Walls



Pillars



Edging



Natural



Charcoal



Winter Sky



Glacier



**56"X 56" FIRE PIT / PLANTER**

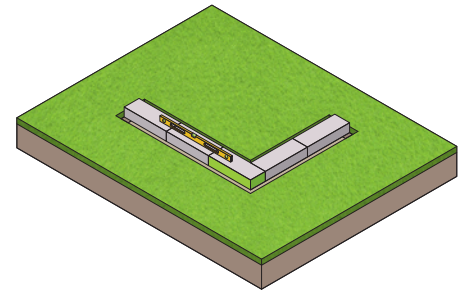
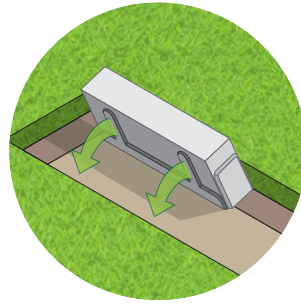
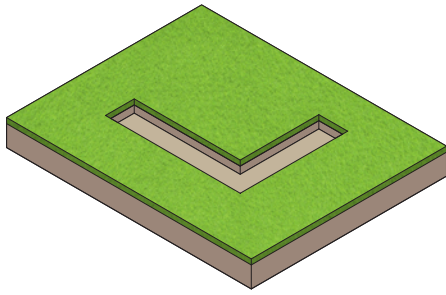
	Standard Units	Cap Units	Corner Units (Left/Right)	
Top Layer		8		
Third Layer	4		4 L	4 R
Second Layer	4		4 R	OR 4 L
First Layer	4		4 L	4 R
Completed Dimensions with Cap	59" L x 59" W x 16 3/4" H			
Interior Cap Dimensions	37" L x 37" W			
Interior Wall Dimensions	40" L x 40" W			



**56"X 32" FIRE PIT / PLANTER**

	Standard Units	Cap Units	Corner Units (Left/Right)	
Top Layer		6		
Third Layer	2		4 L	4 R
Second Layer	2		4 R	OR 4 L
First Layer	2		4 L	4 R
Completed Dimensions with Cap	59" L x 35" W x 16 3/4" H			
Interior Cap Dimensions	37" L x 13" W			
Interior Wall Dimensions	40" L x 16" W			

# Dorado Wall Installation Guide



## Step 1: Prepare the Trench for Foundation Stone or Road Base

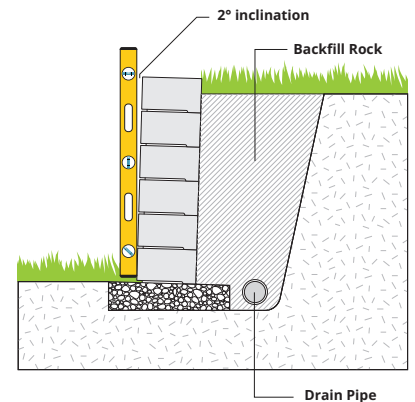
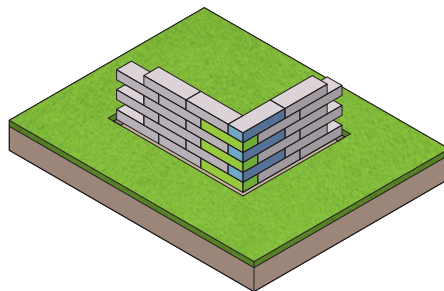
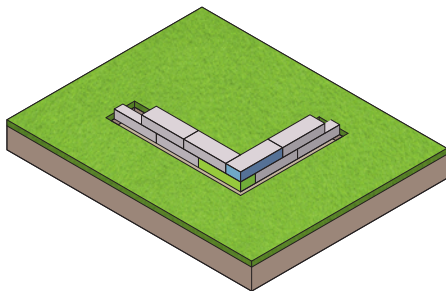
- **Mark the Area:** Use stakes and string lines to outline the area where the retaining wall will be built. Ensure the boundaries are straight and match the desired dimensions of the wall.
- **Dig the Trench:** Excavate a trench along the marked area. The depth and width of the trench should match the specifications for your retaining wall, typically about 6-12 inches deep and twice the width of the blocks.
- **Ensure a Level Base:** The bottom of the trench must be level. Use a leveling tool to ensure precision, as an uneven foundation can compromise the stability of the entire wall.
- **Add Road Base Material:** Fill the trench with a layer of road base gravel or crushed stone. Spread the material evenly and compact it thoroughly using a hand tamper or plate compactor. This creates a stable and well-drained base for the retaining wall.

## Note: Make sure the spacer bars are facing down

- **Position the First Block:** Begin at one end of the trench and place the first retaining wall block on the compacted base. Align it carefully with your marked string line or guide to ensure it is in the correct position. Make sure the spacer bars are facing down.
- **Spacer Bar:** Each Dorado wall block is designed with spacer bars at the bottom. These spacer bars must always face downward when placing the blocks. This orientation ensures proper alignment and stability between layers, and helps the blocks interlock securely.
- Before placing each block, double-check that the spacer bars are oriented downward and in contact with the block below. This step is crucial for maintaining the structural integrity of the wall.

## Step 2: Lay Down the First Layer and Ensure It Is Level

- **Check for Level:** Use a carpenter's level to check that the block is level in all directions (front-to-back and side-to-side). Adjust by adding or removing small amounts of the base material under the block as needed. This first block is crucial for the entire wall's stability and alignment.



## Step 3: Lay Subsequent Layers and Ensure Proper Alignment

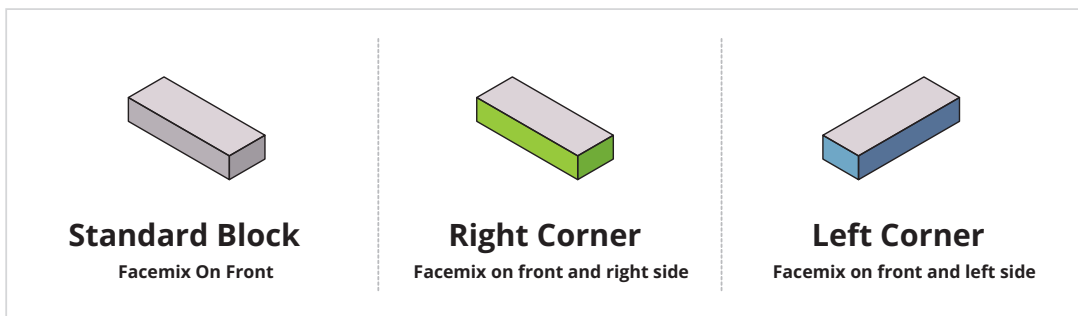
- **Position the Next Row:** Start the second row by placing the first block slightly offset from the one below it. This staggered pattern, often called a running bond, adds stability to the wall.
- **Check Alignment:** Align each block carefully with the one below, ensuring it sits securely on the lower layer. Push the blocks back slightly to create a slight backward lean (batter), which helps stabilize the wall against pressure.
- **Secure and Level:** Use a rubber mallet to gently tap the blocks into place and maintain alignment. Continuously check for level as you go to ensure the wall remains even.

## Step 4: Finish the Wall to Your Desired Height

- **Cap the Wall (Optional):** If your wall design includes capstones, place them on top of the final row. Apply a landscape block adhesive to the top of the last row and press the capstones firmly into place for a polished, finished look.
- **Backfill and Compact:** Once the wall reaches the desired height, backfill the area behind the wall with gravel or drainage material. This helps reduce pressure on the wall and improves drainage. Compact the backfill in layers to ensure stability.
- **Inspect the Wall:** Do a final check for any uneven blocks or gaps. Make adjustments if necessary to ensure the wall is level, aligned, and stable.

## Inclination of the Wall

- To ensure stability, the retaining wall should be built with a slight backward tilt. This is known as "batter." The wall should be inclined at an angle of 2 degrees toward the soil it is retaining. This backward tilt helps counteract the pressure exerted by the soil and improves the wall's structural integrity.



**Standard Block**  
Facemix On Front

**Right Corner**  
Facemix on front and right side

**Left Corner**  
Facemix on front and left side

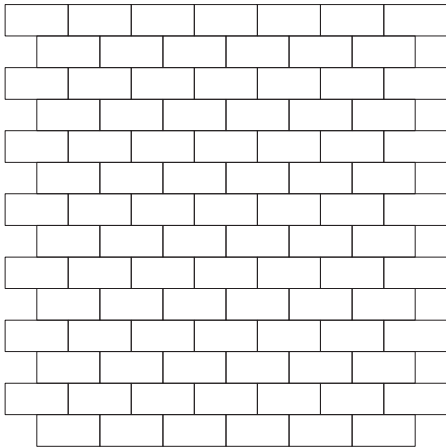


*Photo courtesy of Valhalla Hardscapes  
Manhattan 18x18 Natural & Dorado Wall Winter Sky*

# Installation Patterns

In this section, we proudly present an array of installation patterns that not only enhance the aesthetics of your outdoor spaces but also ensure durability and functionality. Each pattern showcased here embodies precision and creativity, offering you a glimpse into the endless possibilities of design with our concrete pavers and slabs.

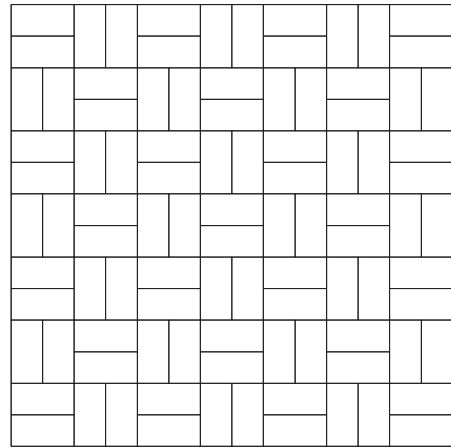
Whether you seek timeless elegance or modern flair, our installation patterns cater to diverse tastes and requirements, transforming ordinary surfaces into extraordinary landscapes. Explore these pages to discover the artistry and versatility that define our commitment to excellence in paving solutions.



**P100**

## 1/2 OFFSET RUNNER BOND

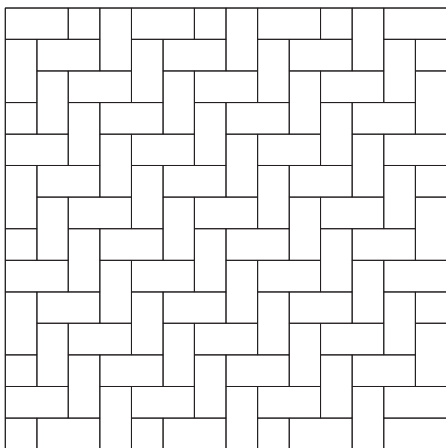
Product	Sizes	% of Area	Area
Standard	4.5 x 9	100	27 sqft



**P101**

## PARQUET PATTERN

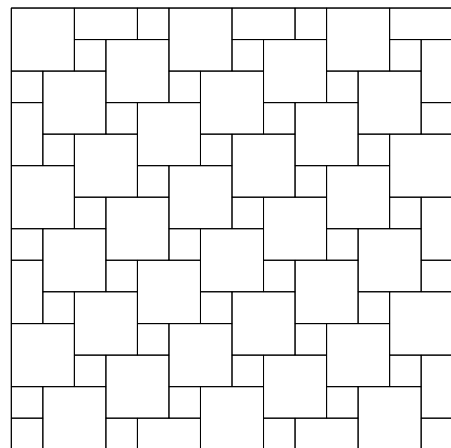
Product	Sizes	% of Area	Area
Standard	4.5 x 9	100	27 sqft



**P102**

## 90° HERRINGBONE

Product	Sizes	% of Area	Area
Standard	4.5 x 9	94	25.76 sqft
Standard	4.5 x 4.5	6	1.68 sqft

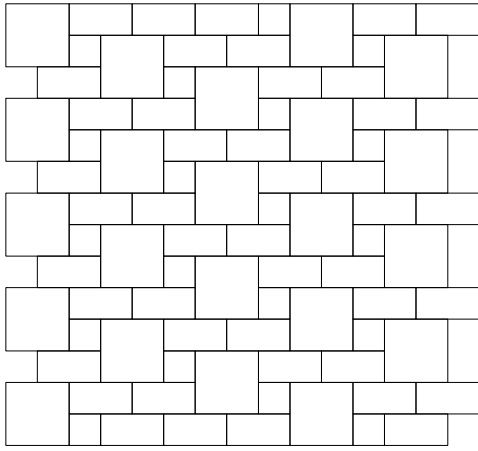


**P103**

## PIN WHEEL PATTERN

Product	Sizes	% of Area	Area
Standard	9 x 9	80	39 sqft
Standard	4.5 x 4.5	20	9.75 sqft

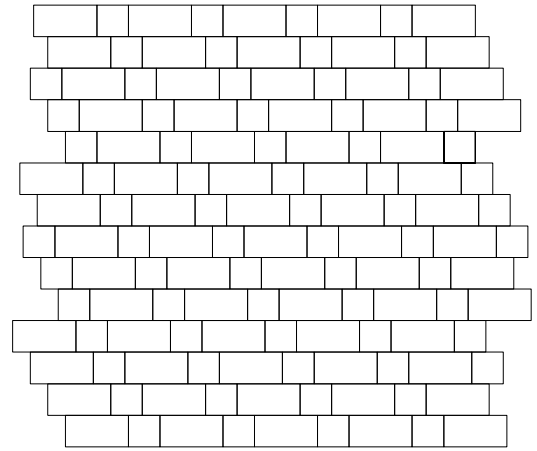




P104

**MODIFIED ASHLAR PATTERN**

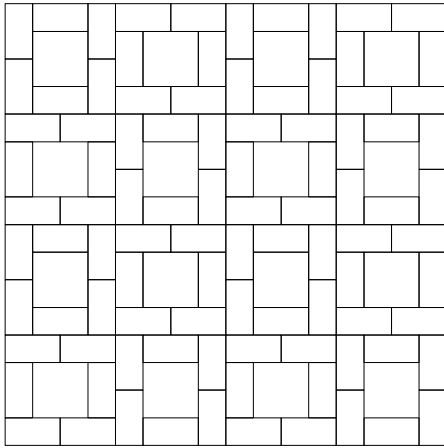
Product	Sizes	% of Area	Area
Standard	9 x 9	45	12.38 sqft
Standard	4.5 x 9	45	12.66 sqft
Standard	4.5 x 4.5	10	2.67 sqft



P106

**1/2 OFFSET RUNNER BOND WITH 1/2 STANDARD INSERT**

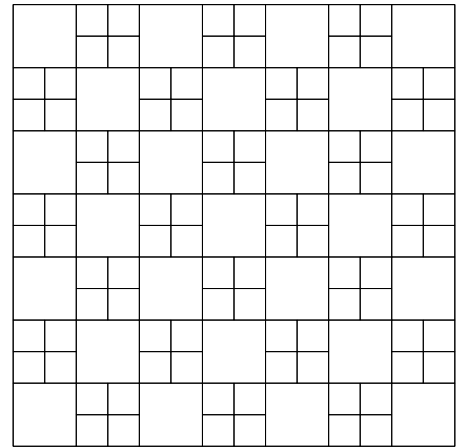
Product	Sizes	% of Area	Area
Standard	4.5 x 9	67	19.32 sqft
Standard	4.5 x 4.5	33	9.38 sqft



P108

**MODIFIED LATTICE PATTERN**

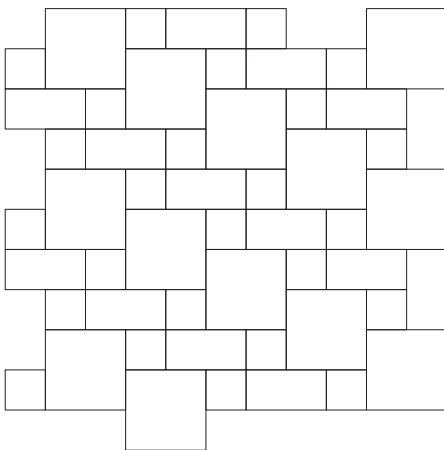
Product	Sizes	% of Area	Area
Standard	4.5 x 9	75	26.88 sqft
Standard	9 x 9	25	8.96 sqft



P110

**1/2 STANDARD AND DOUBLE STANDARD CHECKERBOARD**

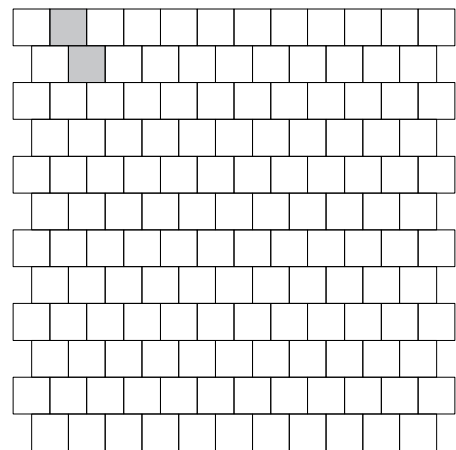
Product	Sizes	% of Area	Area
Standard	4.5 x 4.5	50	14 sqft
Standard	9 x 9	50	14 sqft



P111

**STANDARD ASHLAR PATTERN**

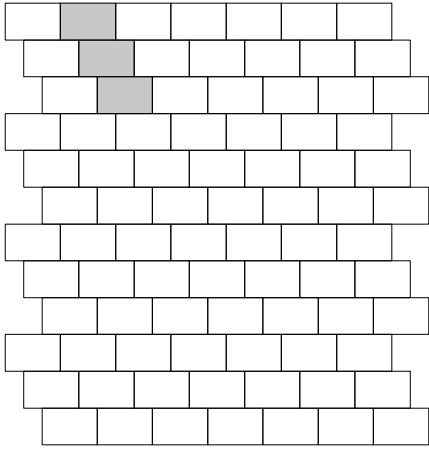
Product	Sizes	% of Area	Area
Standard	9 x 9	50	7.2 sqft
Standard	4.5 x 9	25	3.2 sqft
Standard	4.5 x 4.5	25	3.3 sqft



P201

**1/2 OFFSET RUNNER BOND**

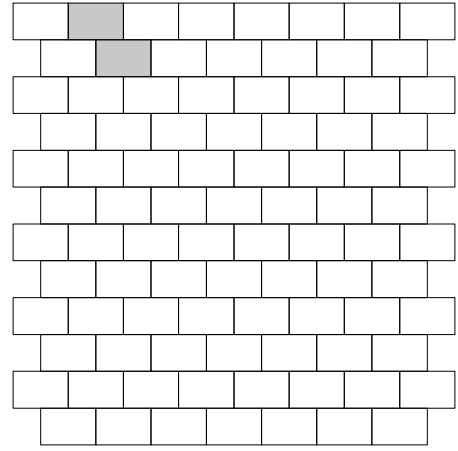
Product	Sizes	% of Area	Area
Dorado	6 x 6	100	34.5 sqft



P202

**1/3 OFFSET RUNNER BOND**

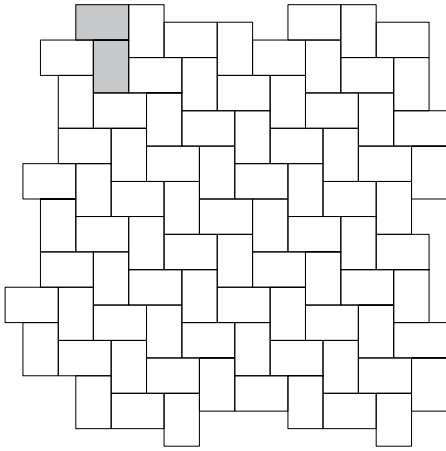
Product	Sizes	% of Area	Area
Dorado / Old Village / Urban	6 x 9	100	31.5 sqft



P203

**1/2 OFFSET RUNNER BOND**

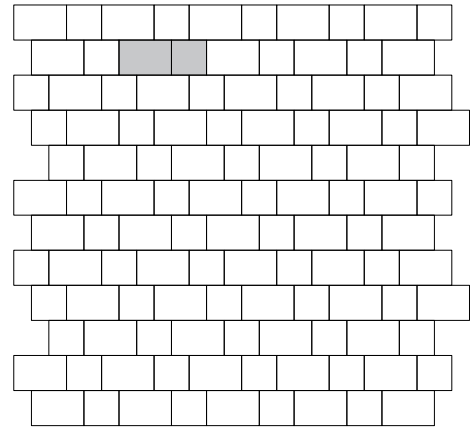
Product	Sizes	% of Area	Area
Dorado / Old Village / Urban	6 x 9	100	33.75 sqft



P204

**BASKETWEAVE**

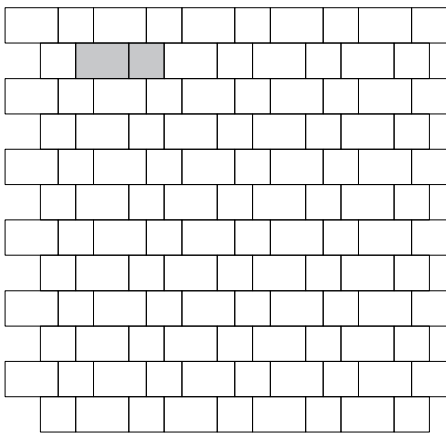
Product	Sizes	% of Area	Area
Dorado / Old Village / Urban	6 x 9	100	32.25 sqft



P205

**1/3 OFFSET RUNNER BOND**

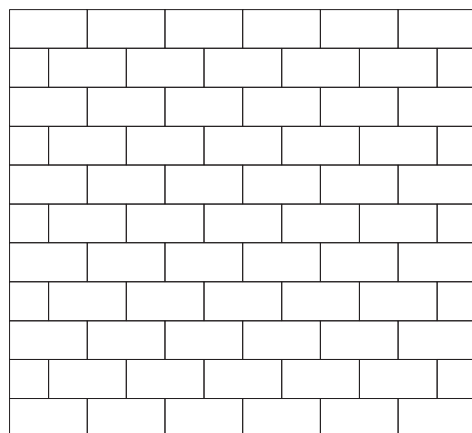
Product	Sizes	% of Area	Area
Dorado	6 x 6	43	14.25 sqft
Dorado	6 x 9	57	19.125 sqft



P206

**1/2 OFFSET RUNNER BOND**

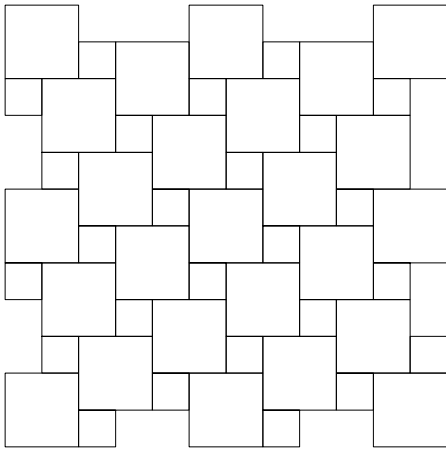
Product	Sizes	% of Area	Area
Dorado	6 x 6	43	15 sqft
Dorado	6 x 9	57	20.25 sqft



P207

**1/2 OFFSET RUNNER BOND**

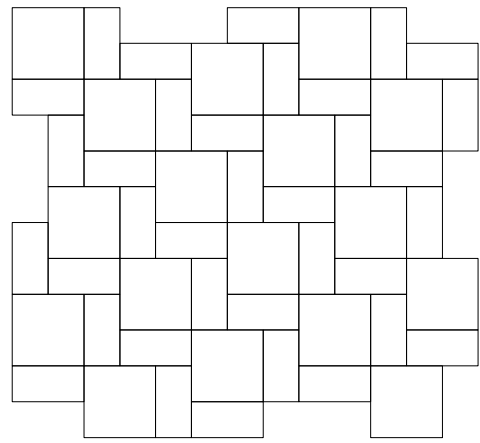
Product	Sizes	% of Area	Area
Dorado	6 x 6	7.5	2.5 sqft
Dorado	6 x 12	92.5	30.5 sqft



P208

**PIN WHEEL PATTERN**

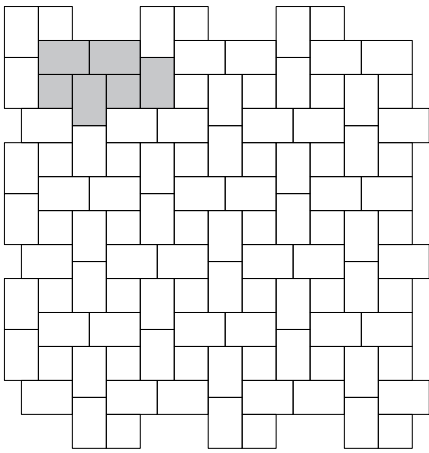
Product	Sizes	% of Area	Area
Dorado	6 x 6	20	6 sqft
Dorado	12 x 12	80	25 sqft



P209

**DIAMOND PATTERN**

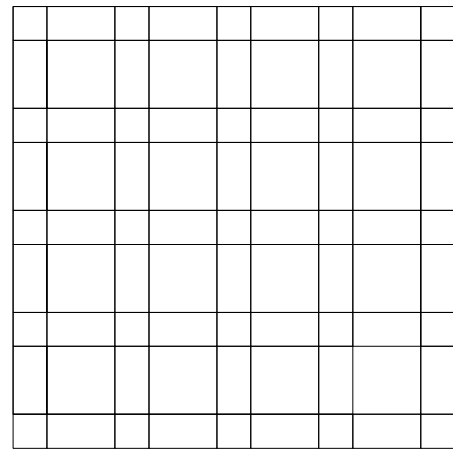
Product	Sizes	% of Area	Area
Dorado	6 x 12	50	17 sqft
Dorado	12 x 12	50	17 sqft



P210

**T-PATTERN**

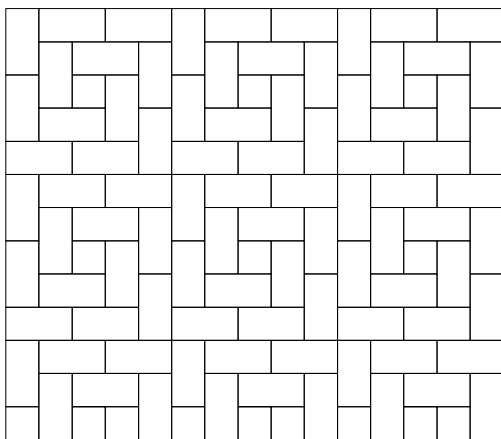
Product	Sizes	% of Area	Area
Dorado	6 x 6	25	9 sqft
Dorado	6 x 9	75	27 sqft



P211

**LATTICE**

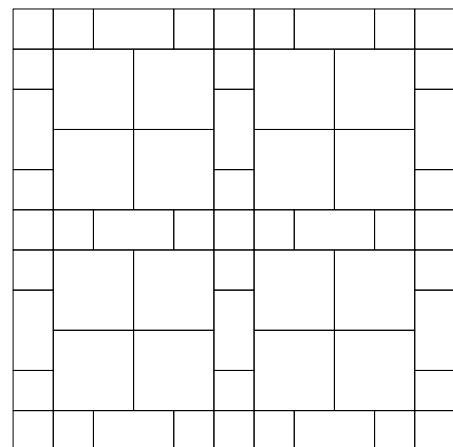
Product	Sizes	% of Area	Area
Dorado	6 x 6	15	6.25 sqft
Dorado	6 x 12	47	20 sqft
Dorado	12 x 12	38	16 sqft



P213

**LATTICE**

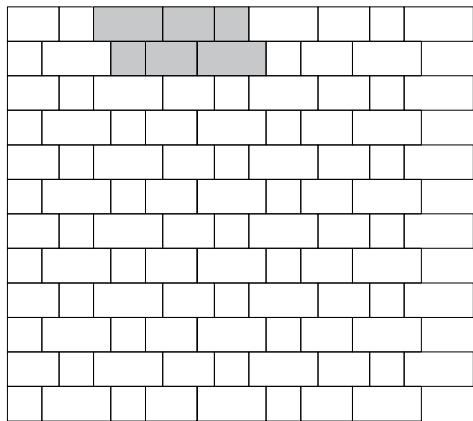
Product	Sizes	% of Area	Area
Dorado	6 x 6	6	2.25 sqft
Dorado	6 x 12	94	45 sqft



P214

**LATTICE**

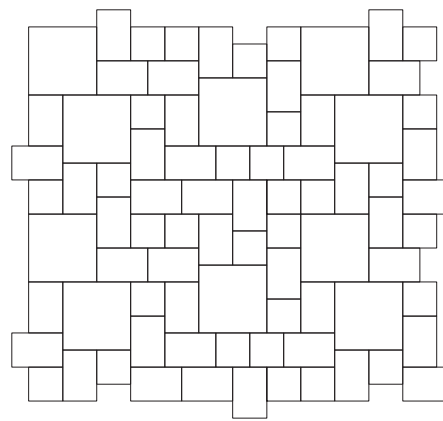
Product	Sizes	% of Area	Area
Dorado	6 x 6	27	8.25 sqft
Dorado	6 x 12	20	6 sqft
Dorado	12 x 12	53	16 sqft



P215

**1/3 OFFSET RUNNER BOND**

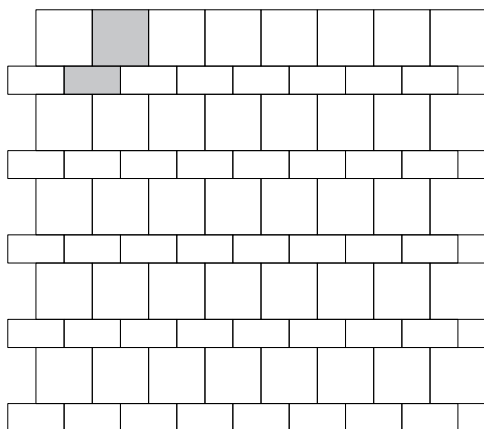
Product	Sizes	% of Area	Area
Dorado	6 x 6	24	9 sqft
Dorado	6 x 9	29	11.25 sqft
Dorado	6 x 12	47	18 sqft



P216

**OFFSET LATTICE**

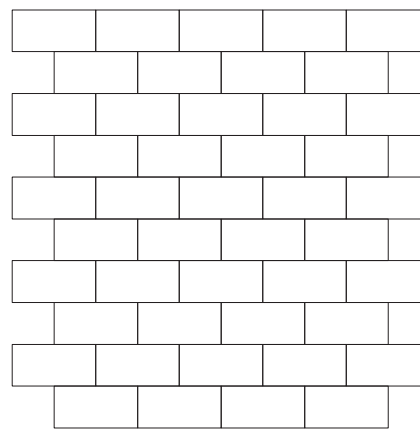
Product	Sizes	% of Area	Area
Dorado	6 x 6	23	7.5 sqft
Dorado	6 x 9	47	15.37 sqft
Dorado	12 x 12	30	10 sqft



P222

**1/2 OFFSET RUNNER**

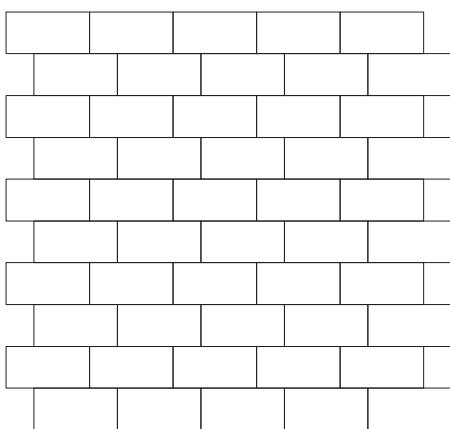
Product	Sizes	% of Area	Area
Dorado	6 x 12	33	20 sqft
Dorado	12 x 12	67	40 sqft



P223

**1/2 OFFSET RUNNER BOND**

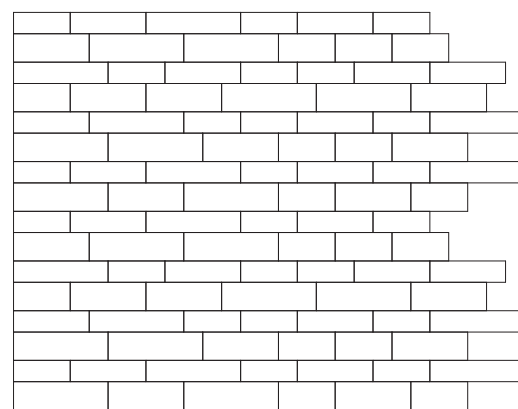
Product	Sizes	% of Area	Area
Dorado / Old Village / Urban	6 x 12	100	22.5 sqft



P224

**1/3 OFFSET RUNNER BOND**

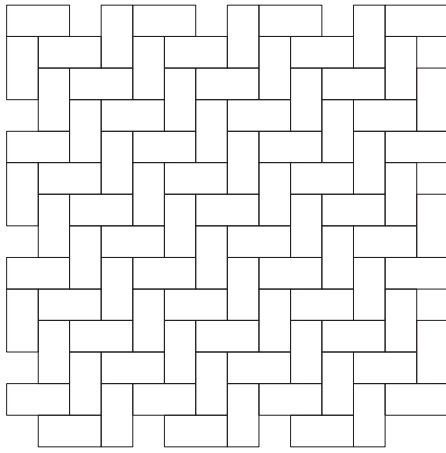
Product	Sizes	% of Area	Area
Dorado / Old Village / Urban	6 x 12	100	25 sqft



P230

**LINARO RANDOM PATTERN**

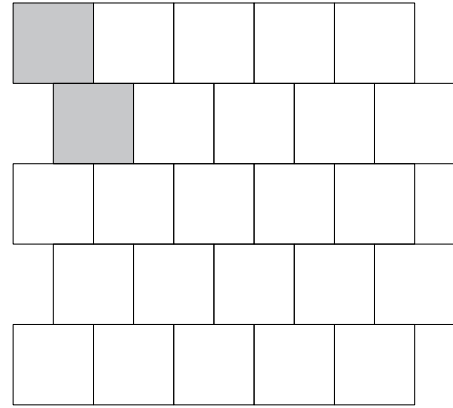
Product	Sizes	% of Area	Area	Sizes	% of Area	Area
Linaro	12 x 4.5	14	7.88 sqft	12 x 6	14	8 sqft
Linaro	16 x 4.5	15	9 sqft	16 x 6	16	9.32 sqft
Linaro	20 x 4.5	21	11.88 sqft	20 x 6	20	11.66 sqft



P241

90° HERRINGBONE

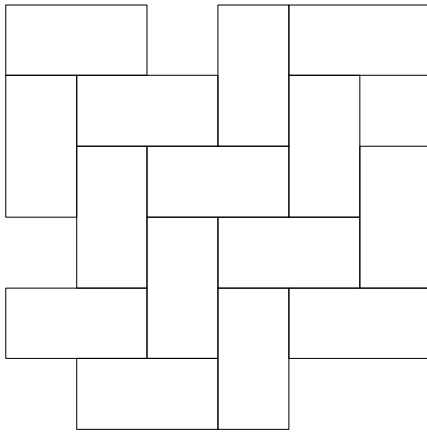
Product	Sizes	% of Area	Area
Dorado XL Paver	4.5 x 9	100	25.6 sqft



P242

1/2 OFFSET RUNNER BOND

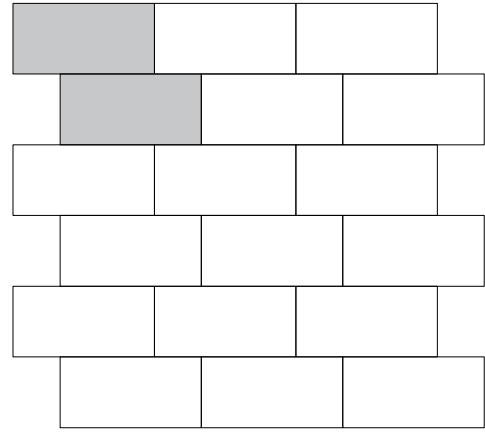
Product	Sizes	% of Area	Area
Dorado XL Paver	9 x 9	100	14 sqft



P250

90° HERRINGBONE

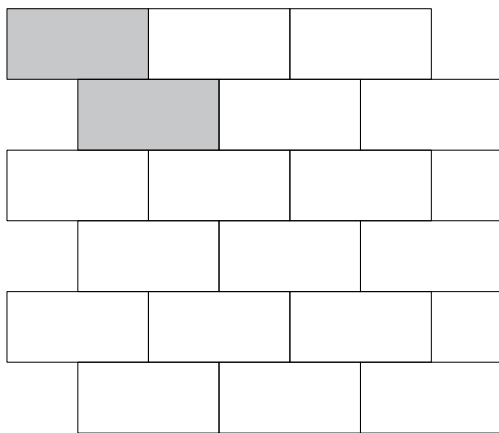
Product	Sizes	% of Area	Area
Dorado XL Slab	12 x 24	100	30 sqft



P251

1/3 OFFSET RUNNER BOND

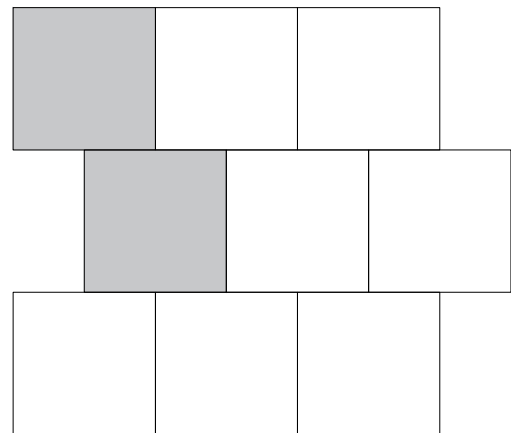
Product	Sizes	% of Area	Area
Dorado XL Slab	12 x 24	100	36 sqft



P252

1/2 OFFSET RUNNER BOND

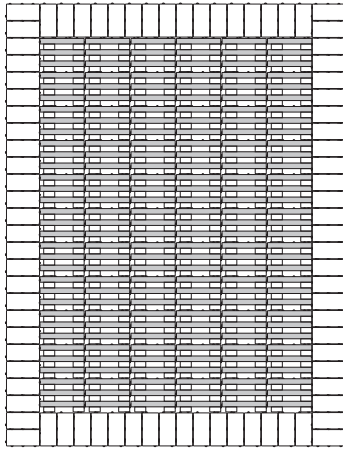
Product	Sizes	% of Area	Area
Dorado XL Slab	12 x 24	100	36 sqft



P253

1/2 OFFSET RUNNER

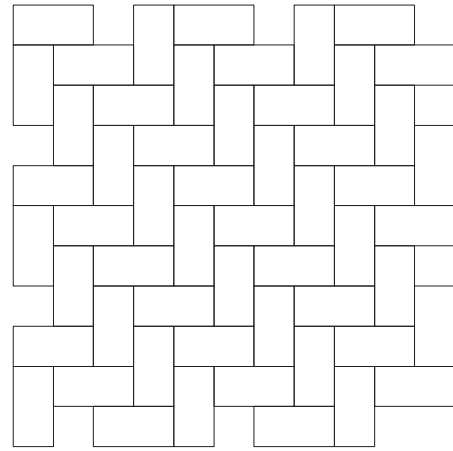
Product	Sizes	% of Area	Area
Dorado XL Slab	24 x 24	100	36 sqft



P301

**RUNNER BOND**

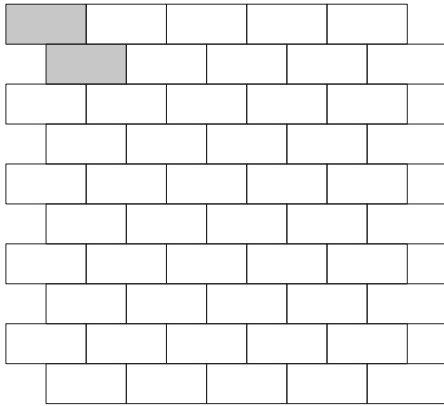
Product	Sizes	% of Area	Area
Dorado Drain Paver	9 x 12	68	49.5 sqft
Dorado	4.5 x 9	32	23.52 sqft



P310

**90° HERRINGBONE**

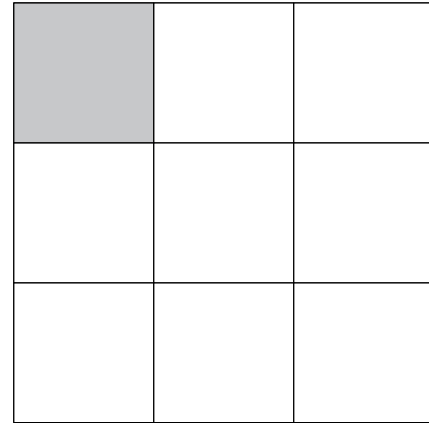
Product	Sizes	% of Area	Area
M-Tech	6 x 12	100	27.5 sqft



P311

**1/2 OFFSET RUNNER BOND**

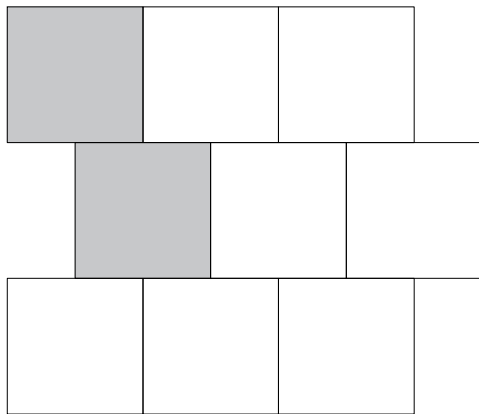
Product	Sizes	% of Area	Area
M-Tech	6 x 12	100	25 sqft



P400

**RUNNER BOND**

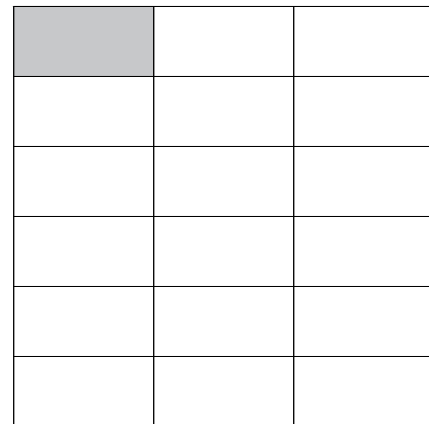
Product	Sizes	% of Area	Area
Manhattan / Premium	18 x 18	100	20.25 sqft
Manhattan / Premium	24 x 24	100	36 sqft



P401

**1/2 OFFSET RUNNER**

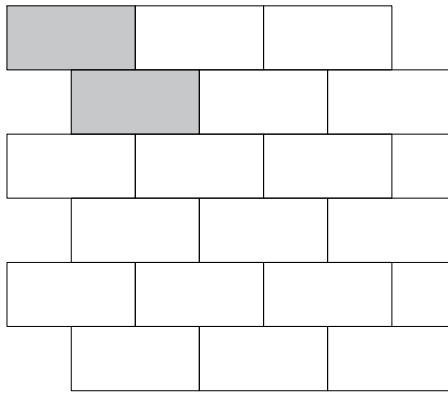
Product	Sizes	% of Area	Area
Manhattan / Premium	18 x 18	100	20.25 sqft
Manhattan / Premium	24 x 24	100	36 sqft



P402

**RUNNER BOND**

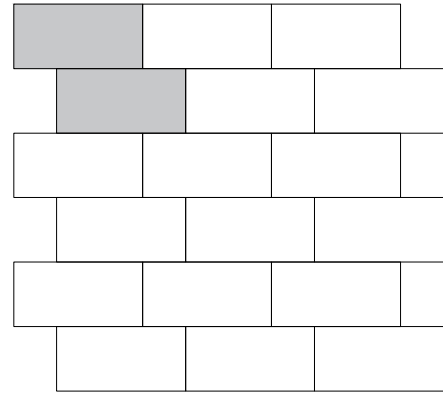
Product	Sizes	% of Area	Area
Manhattan	12 x 24	100	36 sqft



P403

1/2 OFFSET RUNNER BOND

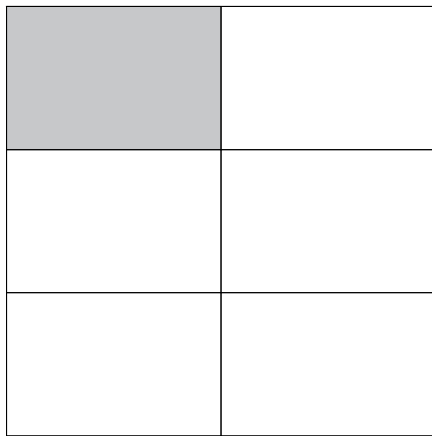
Product	Sizes	% of Area	Area
Manhattan	12 x 24	100	36 sqft



P404

1/3 OFFSET RUNNER BOND

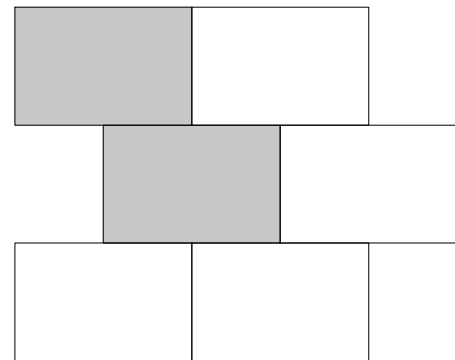
Product	Sizes	% of Area	Area
Manhattan	12 x 24	100	36 sqft



P405

RUNNER BOND

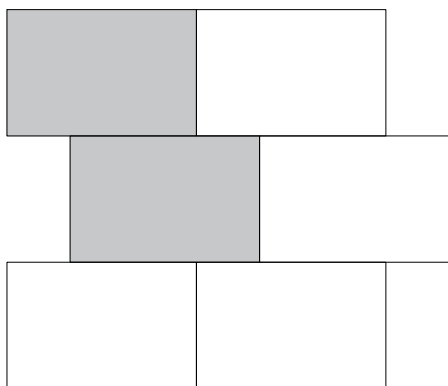
Product	Sizes	% of Area	Area
Manhattan	24 x 36	100	36 sqft



P406

1/2 OFFSET RUNNER BOND

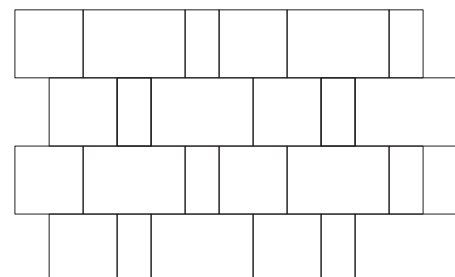
Product	Sizes	% of Area	Area
Manhattan	24 x 36	100	36 sqft



P407

1/3 OFFSET RUNNER BOND

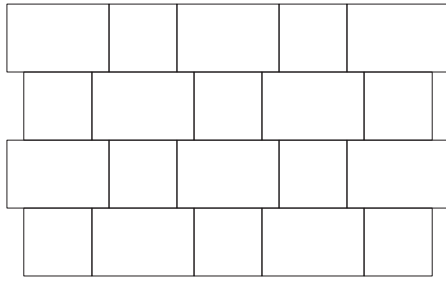
Product	Sizes	% of Area	Area
Manhattan	24 x 36	100	36 sqft



P408

1/2 OFFSET RUNNER BOND

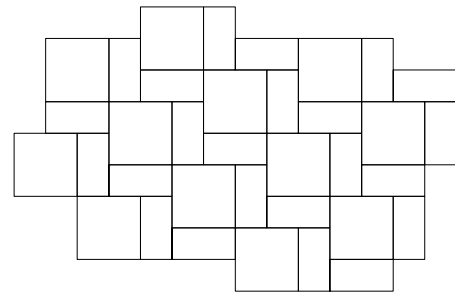
Product	Sizes	% of Area	Area
Manhattan	12 x 24	17	16 sqft
Manhattan	24 x 24	33	21 sqft
Manhattan	24 x 36	50	48 sqft



P409

1/6 OFFSET RUNNER BOND

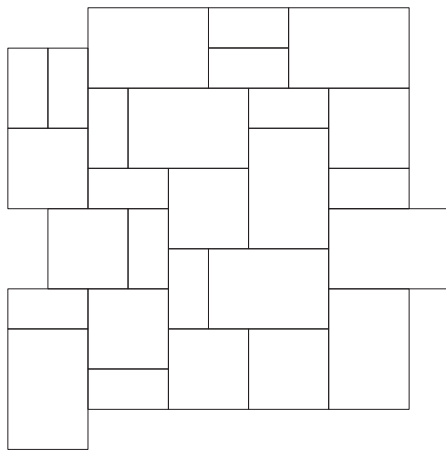
Product	Sizes	% of Area	Area
Manhattan	24 x 24	40	40 sqft
Manhattan	24 x 36	60	60 sqft



P410

DIAMOND PATTERN

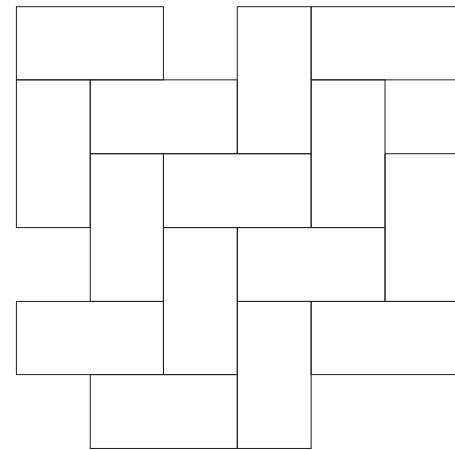
Product	Sizes	% of Area	Area
Manhattan	12 x 24	51	46 sqft
Manhattan	24 x 24	49	44 sqft



P411

RANDOM PATTERN

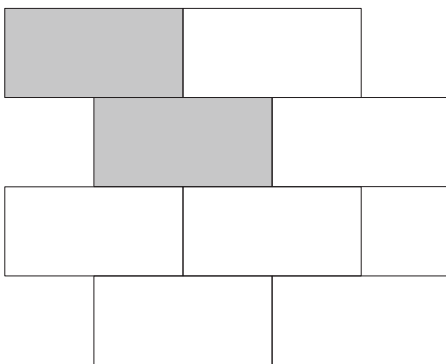
Product	Sizes	% of Area	Area
Manhattan	12 x 24	21	20 sqft
Manhattan	24 x 24	29	28 sqft
Manhattan	24 x 36	50	48 sqft



P412

90° HERRINGBONE

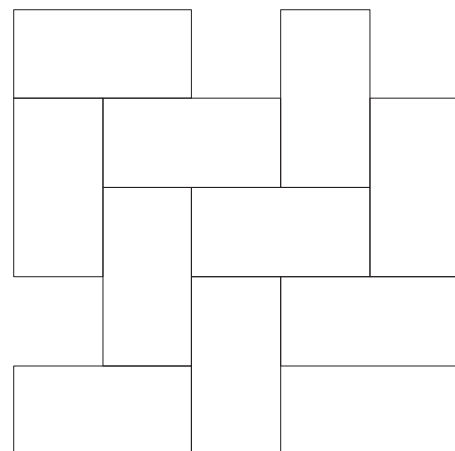
Product	Sizes	% of Area	Area
Manhattan	12 x 24	100	30 sqft



P415

1/2 OFFSET RUNNER BOND

Product	Sizes	% of Area	Area
Manhattan	18 x 36	100	36 sqft

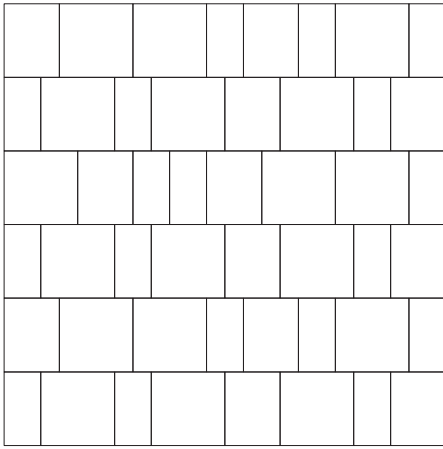


P416

90° HERRINGBONE

Product	Sizes	% of Area	Area
Manhattan	18 x 36	100	45 sqft

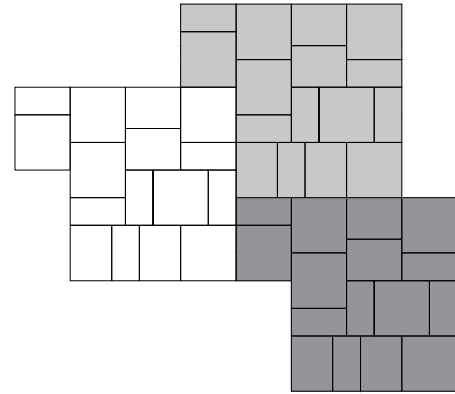




P500

**RANDOM PATTERN**

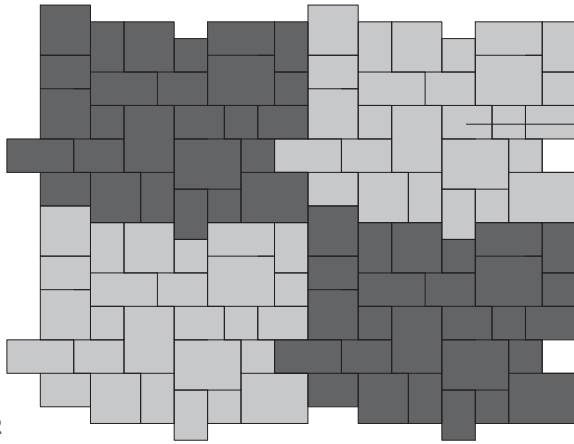
Product	Sizes	% of Area	Area
Coastal Slate	6 x 12	25	9 sqft
Coastal Slate	9 x 12	25	9 sqft
Coastal Slate	12 x 12	50	18 sqft



P501

**RANDOM PATTERN**

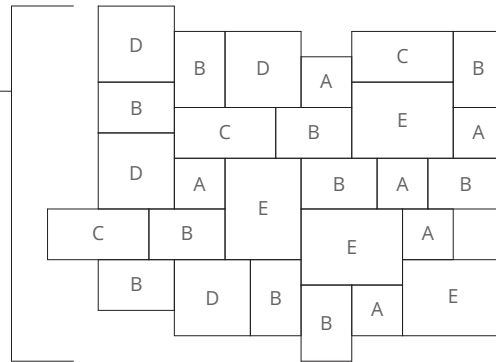
Product	Sizes	% of Area	Area
Coastal Slate	6 x 12	25	9 sqft
Coastal Slate	9 x 12	25	9 sqft
Coastal Slate	12 x 12	50	18 sqft



P502

**5 PIECE COMBO PATTERN**

Product	Sizes	Type	% of Area	Area
Coastal Slate / Old Village / Urban	6 x 6	A	12.5	6 sqft
Coastal Slate / Old Village / Urban	6 x 9	B	31.25	15 sqft
Coastal Slate / Old Village / Urban	6 x 12	C	12.5	6 sqft
Coastal Slate / Old Village / Urban	9 x 9	D	18.75	9 sqft
Coastal Slate / Old Village / Urban	9 x 12	E	25	12 sqft



# Frequently Asked Questions

## **WHERE CAN I PURCHASE NEWSTONE GROUP PAVERS AND SLABS?**

As the Manufacturer we produce pavers, slabs, and garden walls that meet or exceed all applicable CSA or ASTM specifications. These products are available through our extensive network of Independent Dealers. Their contact information is listed on our website [www.newstonegroup.ca](http://www.newstonegroup.ca). Please contact them for pricing and delivery information.

## **WHERE CAN I USE INTERLOCKING CONCRETE PAVERS (PAVERS)?**

Pavers are crafted to be versatile, suitable for a wide range of applications, including but not limited to patios and roads. The determining factors for their appropriateness in different settings lie in the specific thickness and aspect ratio of the chosen paver.

## **WHERE CAN I USE VIBROPRESSED SLABS (SLABS)?**

These slabs are customarily engineered for non-vehicular spaces, such as patios, walkways, or plazas. Installation methods vary, with slabs being placed either on an aggregate base or supported by pedestals, depending on the specific application requirements.

## **HOW DO I FIND A CONTRACTOR?**

There are many qualified contractors available in our region, typically a good resource for recommending the right contractor(s) is the local dealer. They will be able to match up your project with the right contractor based on scope and timing.

## **IS THERE AN INDUSTRY ASSOCIATION?**

The Concrete Masonry and Hardscapes Association (CMHA) [www.masonryandhardscapes.org](http://www.masonryandhardscapes.org) is the trade association representing the segmental concrete pavement industry in Canada and the United States. Excellent resource for technical specifications and education, including tech spec 5, which dealing with cleaning and sealing your pavers and slabs, is available at: <https://www.masonryandhardscapes.org/resource/pav-tec-005-22>.

## **SHOULD I SEAL MY PAVERS OR SLABS?**

Sealing is essential to protect against stains from organic materials, food, other contaminants, and vehicular activities. It not only preserves the appearance but also guards against long-term damage, maintaining both aesthetics and structural integrity.

## **HOW DO I PREVENT WEEDS?**

Weeds occur when there are seed pods blown in from adjacent properties that fall into the joints and germinate. Polymeric sand is recommended as a best practice tool as Polymeric sand

is designed to resist seed pods and complete through compaction a superior interlock. When installing Polymeric sand please read and follow the manufacturer's instructions, this will aid you in accomplishing a successful install and avoiding Polymeric sand haze.

### **SHOULD I INSTALL PAVERS FROM DIFFERENT PALLETS OR ONE PALLET AT A TIME?**

When installing pavers and slabs it is highly recommended to pull from 3 – 5 pallets at a time to avoid the striping effect in the photo below. The variation in tone is helpful in increasing the diversity of the visual experience but is only effective when they are properly dissipated throughout. The same is true for the solitary colours.



### **WHAT IS EFFLORESCENCE?**

After several weeks or months, you might notice a white haze emerging on your paver surface, a phenomenon known as efflorescence. It can manifest randomly or in specific areas, with a more noticeable effect on dark-coloured pavers. This white haze may initially give the impression of fading colours, but when wet, it disappears, revealing enhanced paver colours. However, the white haze reappears as the pavers dry.

Efflorescence is a completely natural occurrence that resolves over time. There's no need for concern about damage or defects in your pavers; rather, it's a natural process common to all cement-based and many other paving products. Given time and exposure to the elements, efflorescence typically corrects itself.

### WHAT IS THE CHEMISTRY OF EFFLORESCENCE?

All concrete products, including pavers, contain cement that produces lime or water-soluble calcium oxide. Lime may also be present in bedding sand, aggregate base materials, or soil. Despite their solid and dense nature, concrete pavers have microscopic capillaries running from the interior to the surface. Moisture from various sources, such as rain, sprinkler systems, poor drainage, or dew, infiltrates these capillaries.

Calcium oxide within the paver reacts with the water in the capillaries, forming calcium hydroxide. This compound rises to the surface, reacts with airborne carbon dioxide, and creates a white haze of calcium carbonate. When surface moisture evaporates, the efflorescence becomes visible.

### HOW TO REMOVE EFFLORESCENCE?

While most paver producers incorporate chemical additives to reduce efflorescence likelihood, complete elimination is challenging due to its natural occurrence in hardened concrete. Efflorescence ceases when no more calcium hydroxide is available to migrate to the surface.

Chemical cleaners can remove surface efflorescence, enhancing the natural beauty of your concrete paver project. Consult your paver supplier for suitable cleaners.

### WHEN WILL EFFLORESCENCE STOP?

Efflorescence stops when the supply of calcium hydroxide is depleted. In areas with frequent rain and sun, it may cease quickly, while drier climates might prolong the process. Generally, efflorescence stops developing in about 18 to 24 months.



*Two images displayed above depict the project's progression over a 9-month timeline, showcasing the initial state and the final outcome achieved without any cleaning intervention.*

### WILL IT GO AWAY NATURALLY?

Efflorescence will naturally disappear over time as rainwater washes it away. Urban areas with acidic rainfall may see faster removal than rural areas due to various contributing factors.

### **CAN IT BE REMOVED WITHOUT THE WAIT?**

Efflorescence can be cleaned with commercially available cleaners designed for concrete pavers. Prompt cleaning after its appearance is crucial, and it may need to be repeated until the efflorescence stops. Exercise caution with cleaners containing acids and detergents, following label directions and environmental regulations. Conduct a small test before applying cleaners to the entire area, ensuring the pavers are dry and free from efflorescence before applying sealers.

### **IS IT NORMAL TO HAVE TONE DIFFERENCES IN PAVERS?**

In the realm of hardscape concrete pavers, it's quite common to encounter variations in tone. The intricate process of curing is essentially completed as these pavers are exposed to the elements, including the nurturing touch of rain and the radiant embrace of the sun. This exposure not only adds to the overall durability of the concrete but also plays a pivotal role in harmonizing the colour tones.

Furthermore, the journey to a seamless appearance continues post-installation. After these pavers undergo the meticulous steps of sanding and compacting, a transformation unfolds. Over a brief span of time, the pavers gracefully evolve, seamlessly evening out any initial discrepancies in colour. The result is not just a completed project but a testament to the dynamic interplay between craftsmanship and the natural elements, creating a hardscape that embodies both resilience and aesthetic appeal.

# Why Choose Newstone Group Concrete Pavers, Slabs, or Garden Walls

## AESTHETICS AND FLEXIBILITY

Pavers are considered by many homeowners and designers as a more attractive and adaptable choice than asphalt or poured concrete for their hardscape projects. Concrete pavers are available in a variety of colours, shapes, sizes, and textures. Concrete paver colours run the gamut from earth tones to rich charcoals. With their available paver sizes endless possibilities can be explored in the laying patterns from a typical herringbone to a 4- or 5-piece geometric work of art. All our Concrete Pavers, Slabs, and Garden Walls add curb appeal to any project.

## DURABILITY

Our Concrete Pavers, Slabs and Garden Walls are produced in our Newstone Group manufacturing plant to exacting CSA and ASTM Standards. These standards include dimensional tolerances, strength tolerances, and Freeze Thaw tolerances. This ensures that they are a good long-term solution for your hardscape needs. Whether you are installing a driveway, a walkway, a patio, a pool surround, or a large project our products will endure.

## MAINTENANCE

Properly installed pavers and slabs are a low maintenance product and will provide an attractive surface for decades when properly installed. If a concrete paver or slab needs replacement or an addition to the project is required, the paver or slab is simply pulled out in the case of repair and swapped, or in the case of the project expansion, more product is ordered from the Dealer. The Dealer delivers our factory produced pallets to your site.

## COST

The cost of concrete pavers and slabs is substantially less than natural stone, with concrete pavers providing a similar aesthetic appearance. When factoring in maintenance costs and project durability, concrete pavers, and slabs, with their enhanced durability, flexibility, and aesthetics, are extremely affordable compared to other outdoor surface choices.

## SAFETY

Pavers provide a safe, slip-resistant surface for pedestrian, vehicular and pool projects.



*Photo courtesy of Groundwerx Landscape + Design  
Costal Slate Espresso & Birchwood, Dorado 6x6 Charcoal*

The logo for Newstone Group features the word "NEWSTONE" in a large, bold, white sans-serif font. Below it, the word "GROUP" is written in a smaller, white sans-serif font. To the right of the text is a stylized icon composed of several white rectangular blocks of varying sizes, with one block in the upper right corner highlighted in green.

# NEWSTONE

GROUP

Check website for the most up-to-date information

**NEWSTONEGROUP.CA**

**PAVERS • SLABS • GARDEN WALLS**

*Photo courtesy of Alliston Stoneworks  
Manhattan 24x36 Winter Sky & Manhattan 12x24 Charcoal*

Products are distributed through our Dealer network.