

**BELGARD**  
PAVES THE WAY

**RESOURCE GUIDE | SIERRA FONTANA**

## LIFETIME TRANSFERABLE LIMITED WARRANTY

Oldcastle® APG, Inc. ("Belgard") is proud to inform you that all of our interlocking concrete paver and retaining walls ("Products") meet and/or exceed the requirements of ASTM C-936 and ASTM C-1372. Belgard® guarantees its Products against these standards for the lifetime of the Product defined by ICPI. This guarantee does not apply to splitting, chipping or other breakage that could be caused by impact, abrasion or overloading. This warranty is transferable. The original proof of purchase is required.

This warranty is only valid if the material is installed under the guidelines of the ICPI ([www.ICPI.org](http://www.ICPI.org)), The NCMA ([www.ncma.org](http://www.ncma.org)) or the Belgard Installation Guideline Manual. Improper installation voids this warranty. This warranty is for residential applications only and does not apply to commercial applications. It is recommended that the job be installed by a Belgard Contractor Program participant who guarantees their workmanship for a minimum of 3 years from the date of install. For warranty service, contact Belgard at 877-BELGARD. A service representative will investigate your claim within 10 business days. If the Belgard product fails to meet the specifications, Belgard will replace the defective product at no charge. Color matching cannot be guaranteed. Belgard will not be responsible for any replacement labor, consequential damages or incidental damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow for the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

For specific information regarding warranty coverage and exclusions in regards to the Elements™ and Porcelain Paver products, please visit: [Belgard.com/Warranty](http://Belgard.com/Warranty).

# ABOUT US

At Belgard®, we take our role as industry leaders seriously. Our rigorous research and development program is centered on innovation and quality. We never take it for granted that our products are the best in the business and constantly strive to improve and take the industry to the next level. Our overarching goal is to continue to find new and exciting ways to create beautiful outdoor spaces while maintaining incredibly high standards for product quality and performance.

Since 1995, our locally made and nationally backed products have transformed thousands of residential and commercial properties across North America. With more shapes, styles and textures than any other brand, Belgard's Outdoor Living paving and wall products aren't just functional, they infuse outdoor spaces with distinctive atmosphere and style.

Every day, our network of Belgard Authorized Dealers and Contractors helps customers realize their outdoor dreams. And every year, we strive to improve our product and service offerings by dedicating more than 20,000 hours to research and development. By staying ahead of design trends, we are able to provide design-forward products that homeowners envision for their backyard spaces.

All of our outdoor products—when installed by a Belgard Authorized Contractor—are covered by a transferable lifetime limited warranty. That's just part of our commitment to lasting outdoor beauty.

# PAVERS & SLABS

## PAVERS & SLABS INSTALLATION GUIDE

### 4 Interlocking Concrete Pavement

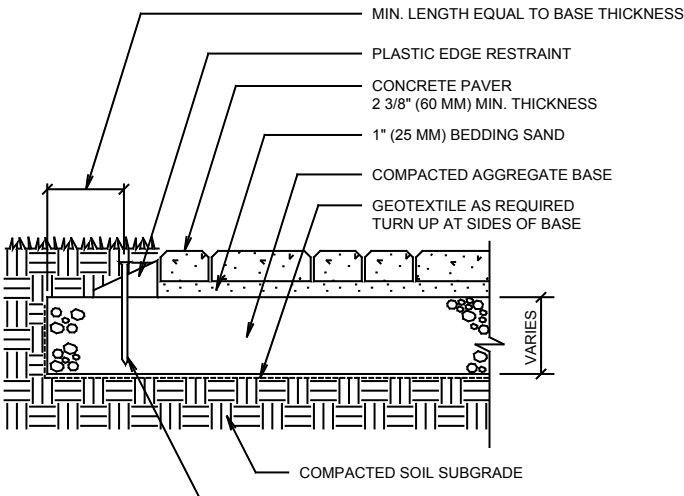
## PAVERS & SLABS

5	Avalon Slate	29	Geometric Shapes
7	Cambridge Cobble® & Circle Kit	31	Holland Stone
11	Catalina Grana®	33	Mega-Arbel®
13	Dimensions™ 6, 12, 18	35	Mega-Lafitt™
15	Dimensions™ Accent	37	Melville™ Plank
16	Dimensions™ Plank	41	Old World Paver™
23	Dimensions™ Slab	43	Origins™ 6, 12, 18
26	Dublin Cobble®	45	Origins™ Accent

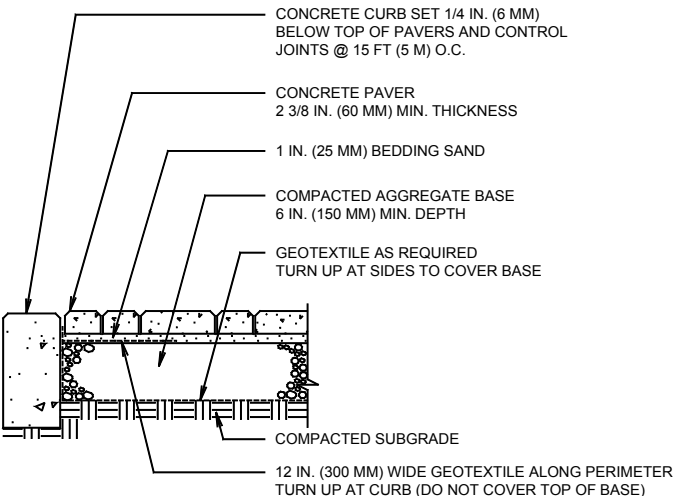
For basic paver installation information  
visit [icpi.org](http://icpi.org)

# INTERLOCKING CONCRETE PAVEMENT (ICP)

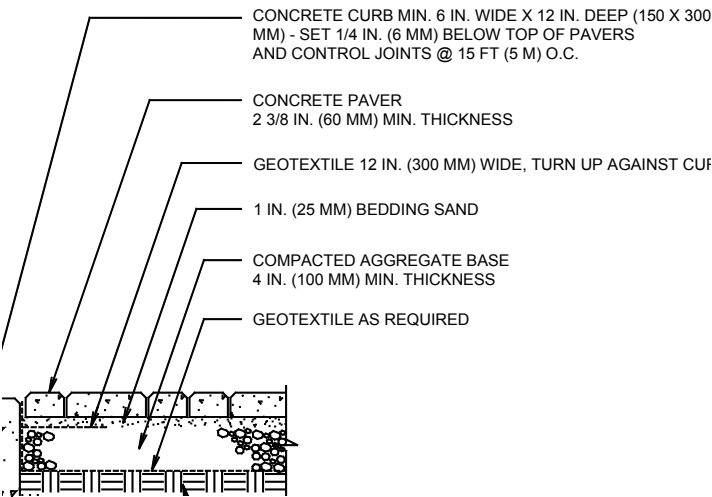
PATIO/WALK/RESIDENTIAL DRIVEWAY WITH PLASTIC EDGE RESTRAINT CROSS SECTION



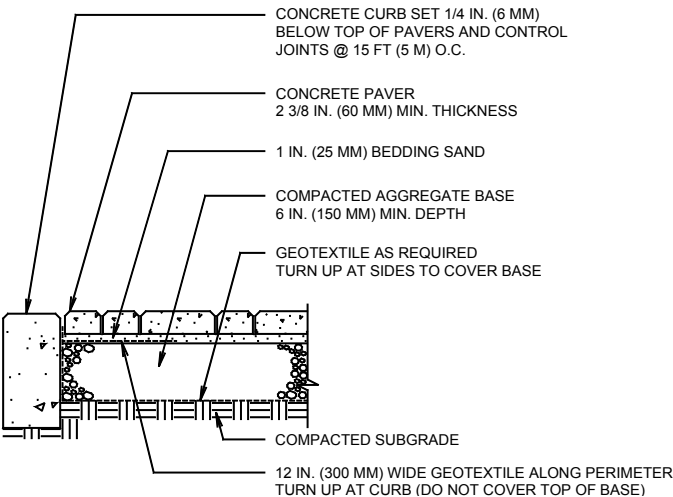
RESIDENTIAL DRIVEWAY WITH CONCRETE EDGES CROSS SECTION



PATIO/SIDEWALK ON COMPACTED AGGREGATE BASE CROSS SECTION



SWIMMING POOL DECK AND COPING CROSS SECTION










# AVALON SLATE

NATURAL  
COLLECTION 



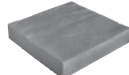
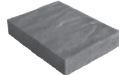
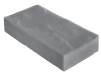
Scan for additional  
product information

*\*Special Order  
Contact your Belgard representative for more information.*

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	FINISHES		
					SHOT BLAST	GROUND FACE	TUMBLED/ ANTIQUED
✓	✓				✓*		✓*

## SHAPES & SIZES

### 3-Piece Large



6 x 12 x 2<sup>3</sup>/<sub>8</sub>    9 x 12 x 2<sup>3</sup>/<sub>8</sub>    12 x 12 x 2<sup>3</sup>/<sub>8</sub>

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
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### 3-PIECE LARGE

6 X 12 X 2 <sup>3</sup> / <sub>8</sub>	30	3	–	60	6	2	807.5
9 X 12 X 2 <sup>3</sup> / <sub>8</sub>	30	3	–	40	4	1.33	807.5
12 X 12 X 2 <sup>3</sup> / <sub>8</sub>	60	6	–	60	6	1	1614.6
TOTAL	120	12	10	160	16	–	3230



#### NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

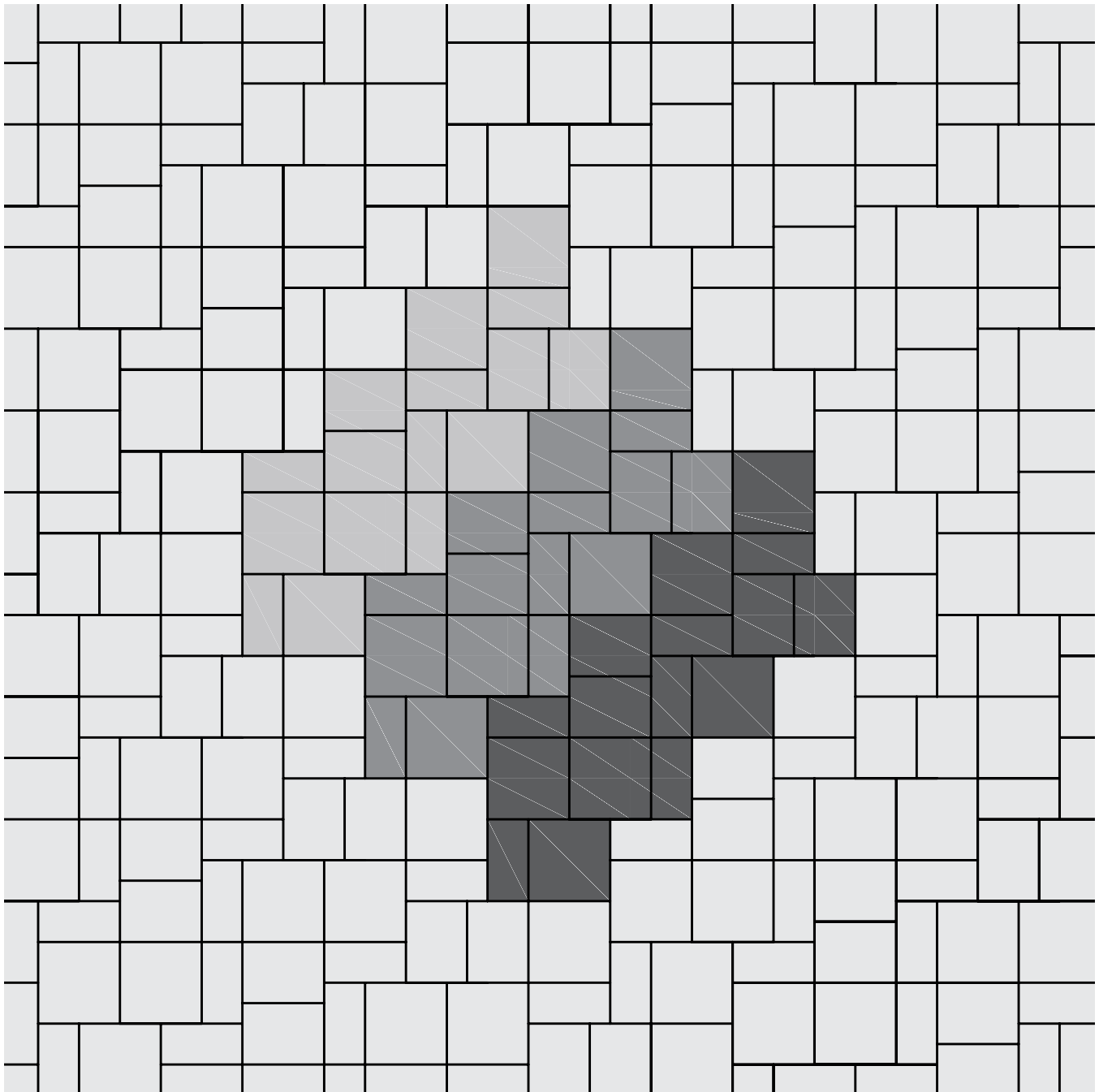
Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

25% 6 x 12 Rectangles

25% 9 x 12 Rectangles

50% 12 x 12 Squares








# CAMBRIDGE COBBLE® & CIRCLE KIT

HERITAGE  
COLLECTION 



Scan for additional  
product information

*\*Finishes and 80MM Special Order Only  
Contact your local Belgard representative for more information.*

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	FINISHES		
					SHOT BLAST	GROUND FACE	TUMBLED/ANTIQUED
✓	✓	✓*			✓*		✓*

## SHAPES & SIZES

### Square



6 x 6 x 2<sup>3</sup>/<sub>8</sub> (60mm)  
6 x 6 x 3<sup>1</sup>/<sub>8</sub> (80mm)\*

### Rectangle



6 x 9 x 2<sup>3</sup>/<sub>8</sub> (60mm)  
6 x 9 x 3<sup>1</sup>/<sub>8</sub> (80mm)\*

### Large Rectangle



9 x 12 x 2<sup>3</sup>/<sub>8</sub>

### Circle Kit



5<sup>7</sup>/<sub>8</sub> x Variable x 2<sup>3</sup>/<sub>8</sub>

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
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## CAMBRIDGE COBBLE

6 X 6 X 2 <sup>3</sup> / <sub>8</sub>	120	12	10	480	48	4	3230
6 X 6 X 3 <sup>1</sup> / <sub>8</sub>	96	12	8	384	48	4	3580
6 X 9 X 2 <sup>3</sup> / <sub>8</sub>	112	11.2	10	300	30	2.67	3020
6 X 9 X 3 <sup>1</sup> / <sub>8</sub>	90	11.25	8	240	30	2.67	3360
9 X 12 X 2 <sup>3</sup> / <sub>8</sub>	120	12	10	160	16	1.33	3086
5 <sup>7</sup> / <sub>8</sub> X VARIABLE X 2 <sup>3</sup> / <sub>8</sub>	78.5	7.85	10	–	–	–	2140

## NOTES:

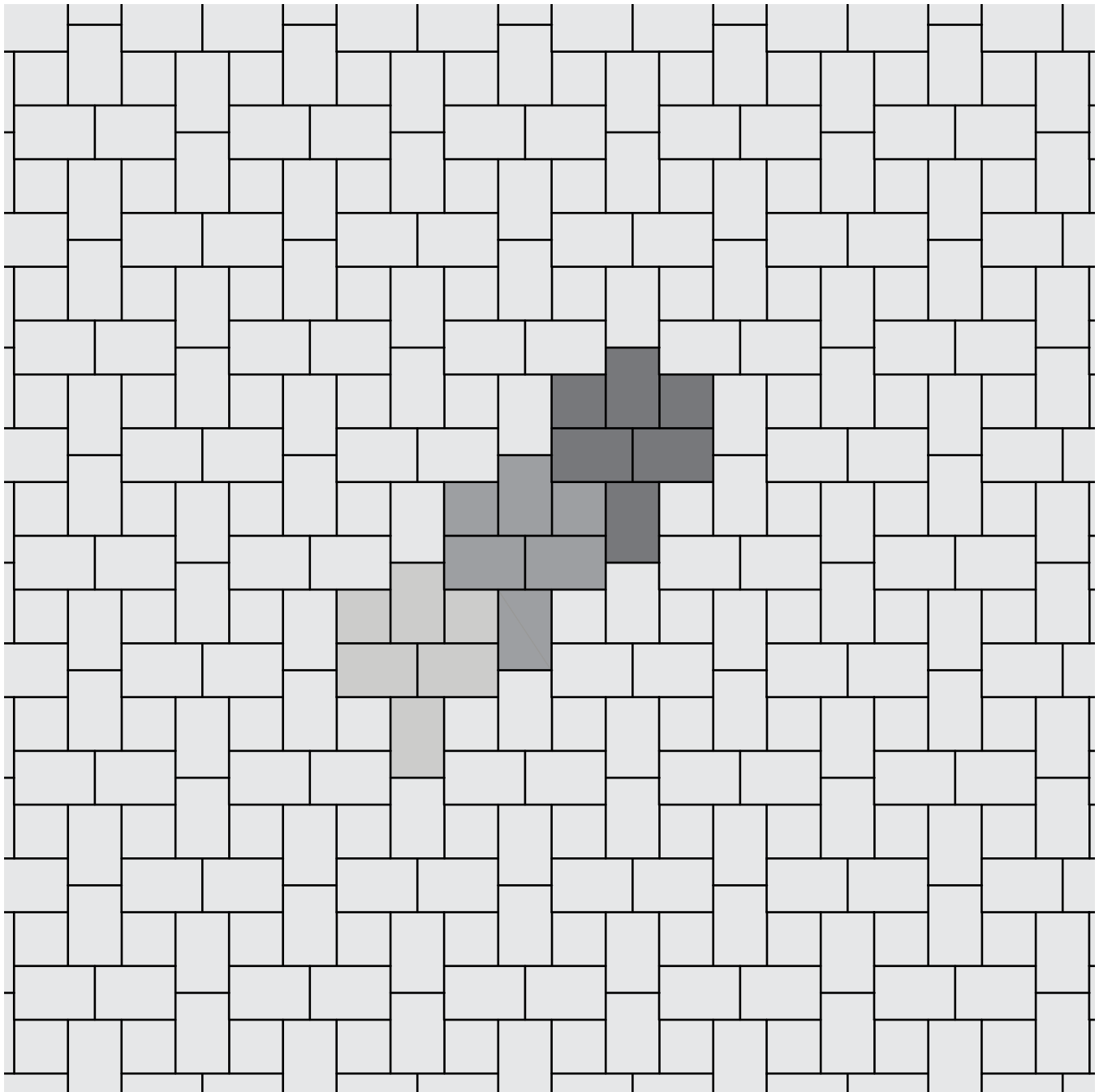
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Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

25% 6 x 6 Squares

75% 6 x 9 Rectangles





## NOTES:

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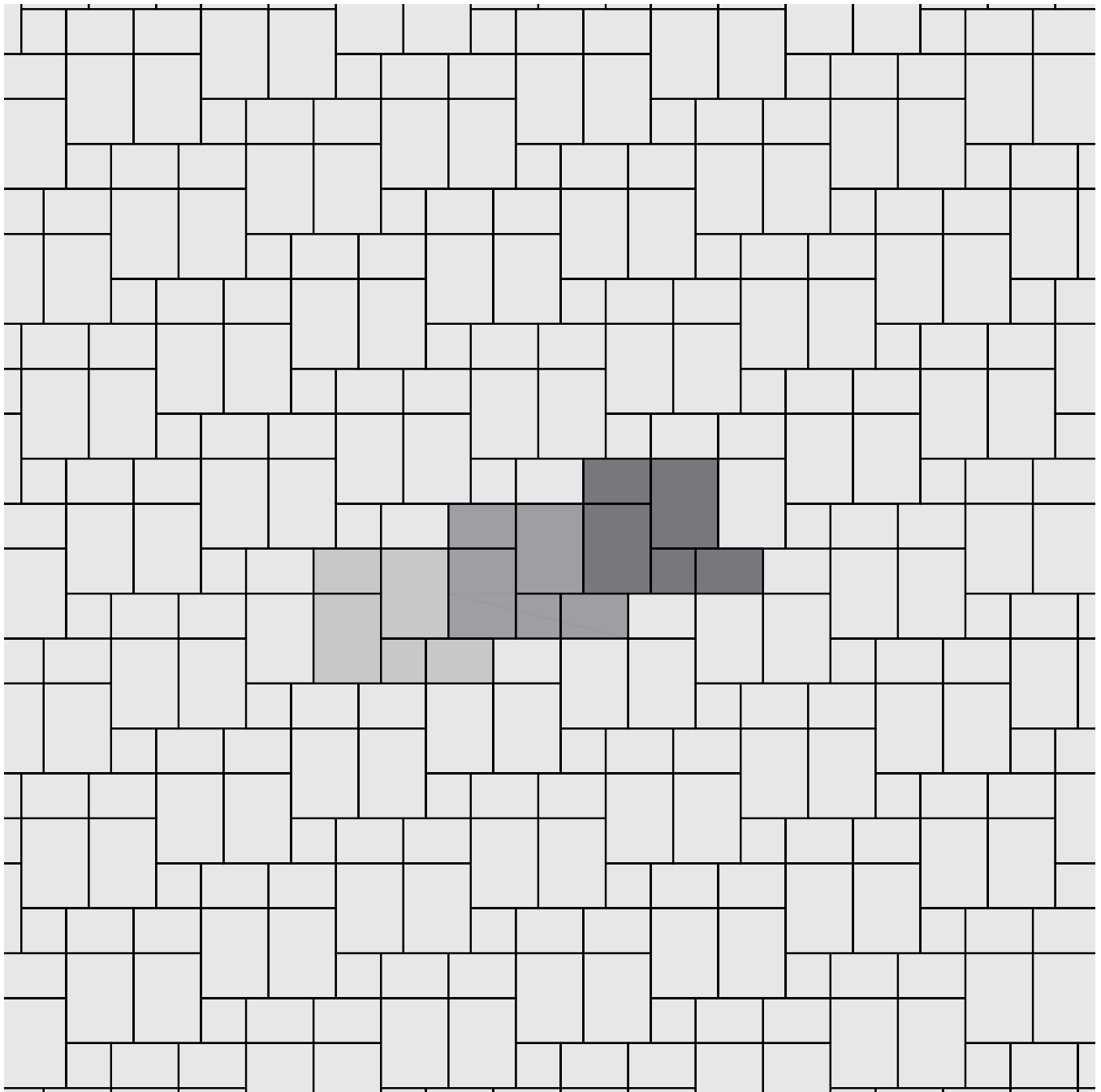
Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

10% 6 x 6 Squares

30% 6 x 9 Rectangles

60% 9 x 12 Rectangles



### NOTES:

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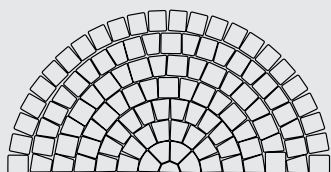
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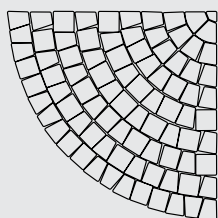
6 x Variable x 2<sup>3</sup>/<sub>8</sub>

### Installation Guidelines

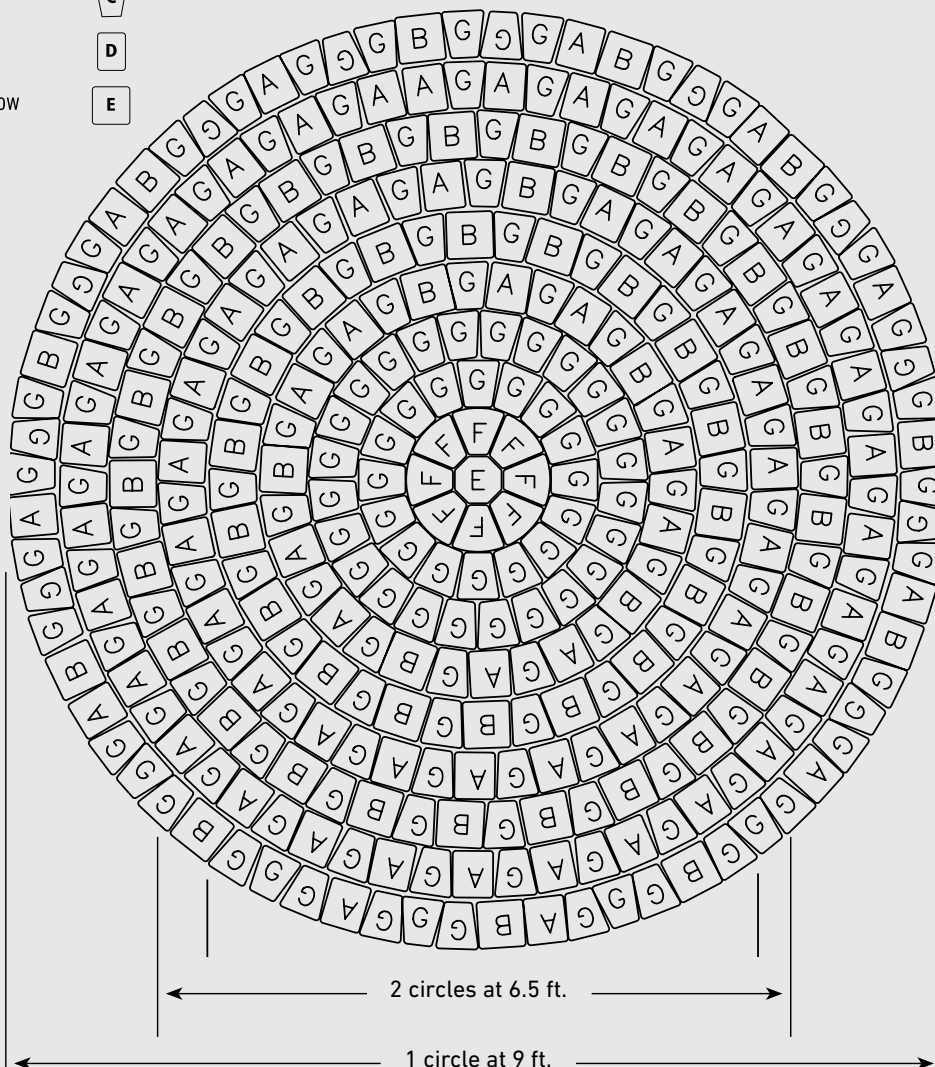
- 1) Start by marking out circles on the surface to be paved.
- 2) Determine the dimensions of each concentric circle, as well as the layout details.
- 3) Always lay pavers starting from the center.
- 4) For a semicircle or quarter circle, follow the same laying order.



Half Circle








Quarter Round





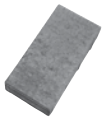
Scan for additional  
product information

*\*Special Order Only  
Contact your local Belgard representative for more information.*

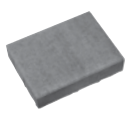
PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	FINISHES		
					SHOT BLAST	GROUND FACE	TUMBLED/ ANTIQUED
✓	✓			✓	✓*	✓*	✓*

## SHAPES & SIZES

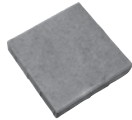
### 3-Piece Large



6 x 12 x 2<sup>3</sup>/<sub>8</sub>



9 x 12 x 2<sup>3</sup>/<sub>8</sub>



12 x 12 x 2<sup>3</sup>/<sub>8</sub>

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
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### 3-PIECE LARGE

6 X 12 X 2 <sup>3</sup> / <sub>8</sub>	30	3	–	60	6	2	807.50
9 X 12 X 2 <sup>3</sup> / <sub>8</sub>	30	3	–	40	4	1.33	807.50
12 X 12 X 2 <sup>3</sup> / <sub>8</sub>	60	6	–	60	6	1	1614.60
TOTAL	120	12	10	160	16	–	3230

### NOTES:

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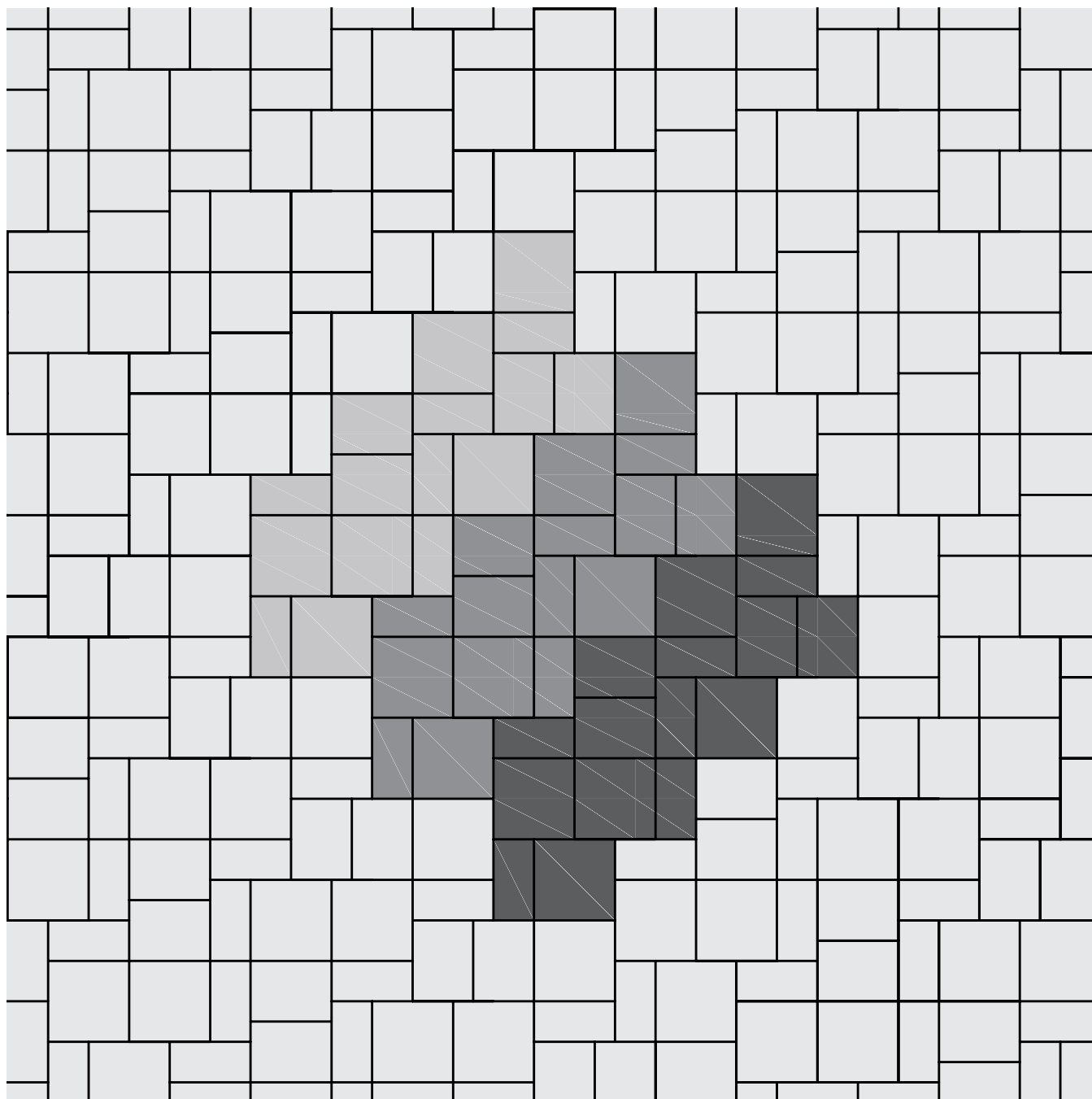
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Percentages are estimated based on area by paver.

25% 6 x 12 Rectangles

25% 9 x 12 Rectangles

50% 12 x 12 Squares










# DIMENSIONS™ 3-PIECE SYSTEM



Scan for additional  
product information

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓	✓*			✓

\*Dimensions™ 6 only.

## SHAPES & SIZES

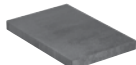
### Dimensions™ 6



3 x 6 x 2<sup>3</sup>/<sub>8</sub>



6 x 6 x 2<sup>3</sup>/<sub>8</sub>

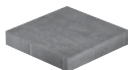


6 x 9 x 2<sup>3</sup>/<sub>8</sub>

### Dimensions™ 12



6 x 12 x 2<sup>3</sup>/<sub>8</sub>



12 x 12 x 2<sup>3</sup>/<sub>8</sub>

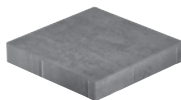


12 x 18 x 2<sup>3</sup>/<sub>8</sub>

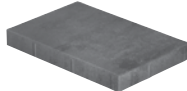
### Dimensions™ 18



9 x 18 x 2<sup>3</sup>/<sub>8</sub>



18 x 18 x 2<sup>3</sup>/<sub>8</sub>



18 x 27 x 2<sup>3</sup>/<sub>8</sub>

# DIMENSIONS™ 3-PIECE SYSTEM

METROPOLITAN  
COLLECTION 



Scan for additional  
product information

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
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## DIMENSIONS™ 6

3 X 6 X 2 <sup>3</sup> / <sub>8</sub>	20	2	–	160	16	8	538
6 X 6 X 2 <sup>3</sup> / <sub>8</sub>	40	4	–	160	16	4	1076.4
6 X 9 X 2 <sup>3</sup> / <sub>8</sub>	60	6	–	160	16	2.67	1614.6
TOTAL	120	12	10	480	48	-	3230

## DIMENSIONS™ 12

6 X 12 X 2 <sup>3</sup> / <sub>8</sub>	20	2	–	40	4	2	530
12 X 12 X 2 <sup>3</sup> / <sub>8</sub>	40	4	–	40	4	1	1060
12 X 18 X 2 <sup>3</sup> / <sub>8</sub>	60	6	–	40	4	0.66	1590
TOTAL	120	12	10	120	12	-	3180

## DIMENSIONS™ 18






9 X 18 X 2 <sup>3</sup> / <sub>8</sub>	22.5	2.25	–	20	2	0.88	627.4
18 X 18 X 2 <sup>3</sup> / <sub>8</sub>	22.5	2.25	–	10	1	0.44	286
18 X 27 X 2 <sup>3</sup> / <sub>8</sub>	67.5	6.75	–	20	2	0.29	1894
TOTAL	112.5	11.25	10	50	5	-	3152

# DIMENSIONS™ ACCENT

METROPOLITAN  
COLLECTION 



Scan for additional  
product information

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓	✓			✓

## SHAPES & SIZES

### Accent



6 x 9 x 2<sup>3</sup>/<sub>8</sub>






UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
ACCENT							
6 X 9 X 2 <sup>3</sup> / <sub>8</sub>	112	11.2	10	300	30	2.67	3020

# DIMENSIONS™ PLANK

METROPOLITAN  
COLLECTION 

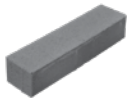


Scan for additional  
product information

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓	✓			✓

## SHAPES & SIZES

### Plank | 80mm



3 x 12 x 3 1/8

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
PLANK 80MM							
3 X 12 X 3 1/8	88	11	8	352	44	4	3300



### NOTES:

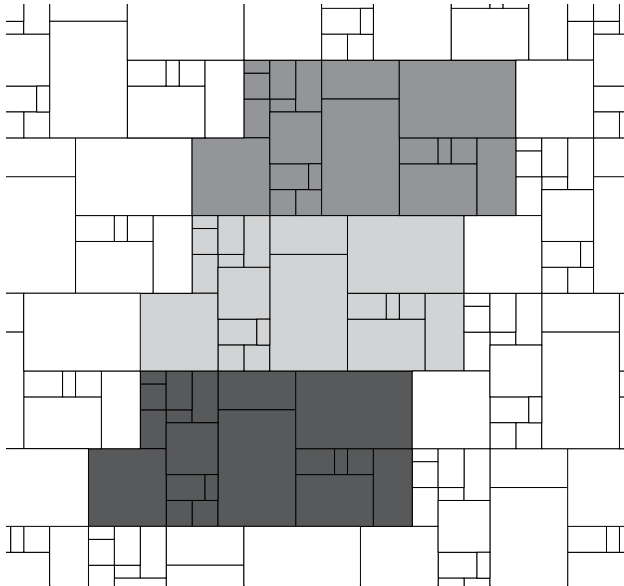
AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

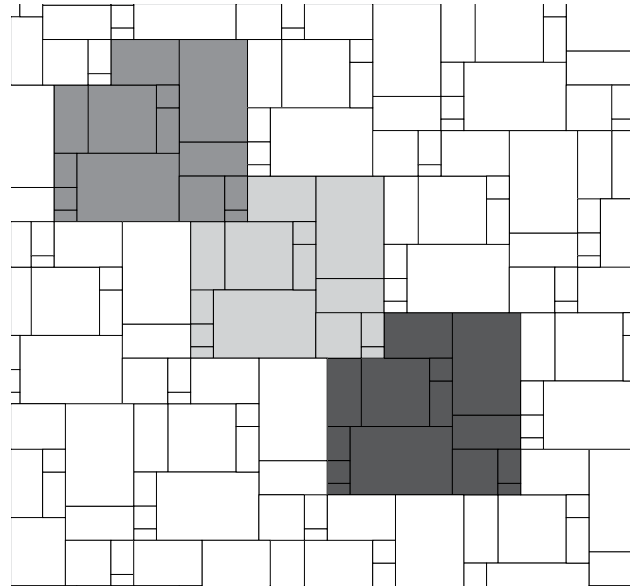
\*Percentage of surface area (sq. ft)

### MIX PATTERN



Dimensions 6 - 30%\* | Dimensions 12 - 15%\* | Dimensions 18 - 55%\*

### MIX PATTERN



Dimensions 6 - 17.5%\* | Dimensions 12 - 17.5%\* | Dimensions 18 - 65%\*

## NOTES:

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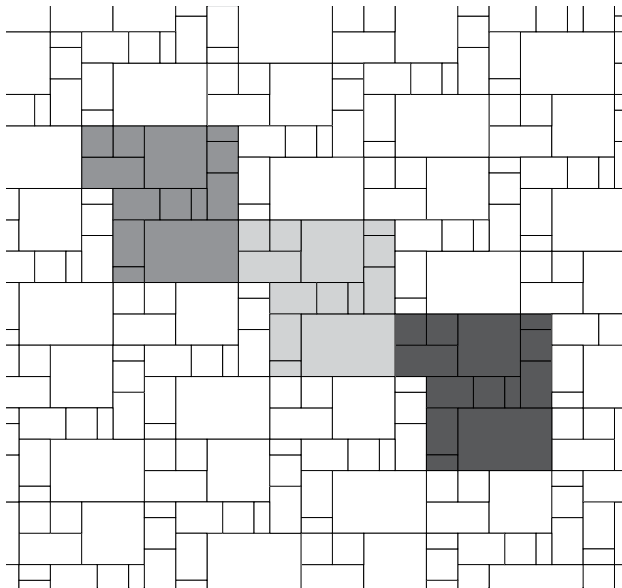
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Percentages are estimated based on area by paver.

## MIX PATTERN

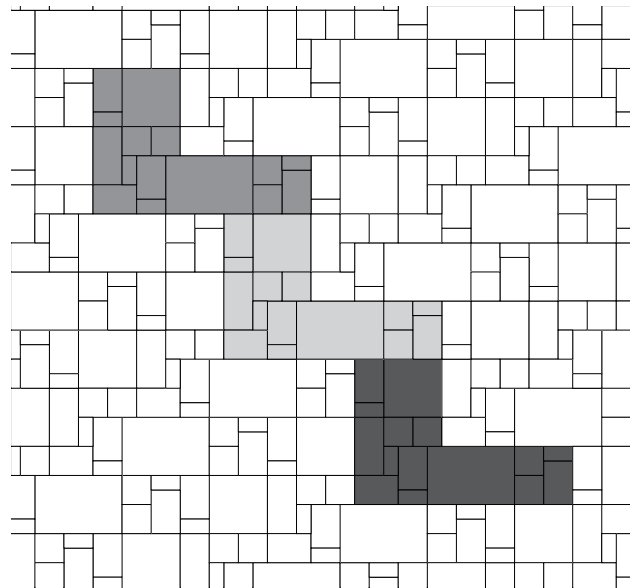
\*Percentage of surface area (sq. ft)

## MIX PATTERN



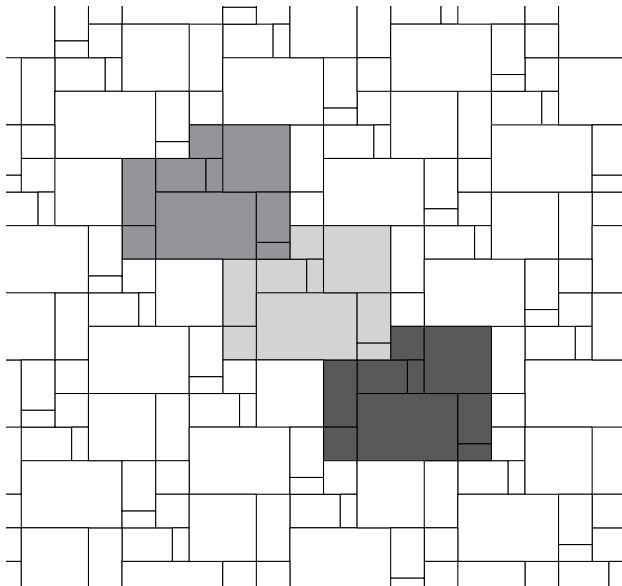
Dimensions 6 - 66.6%\* | Dimensions 12 - 33.3%\*

## MIX PATTERN



Dimensions 6 - 66.6%\* | Dimensions 12 - 33.3%\*

## MIX PATTERN



Dimensions 6 - 50%\* | Dimensions 12 - 50%\*

### NOTES:

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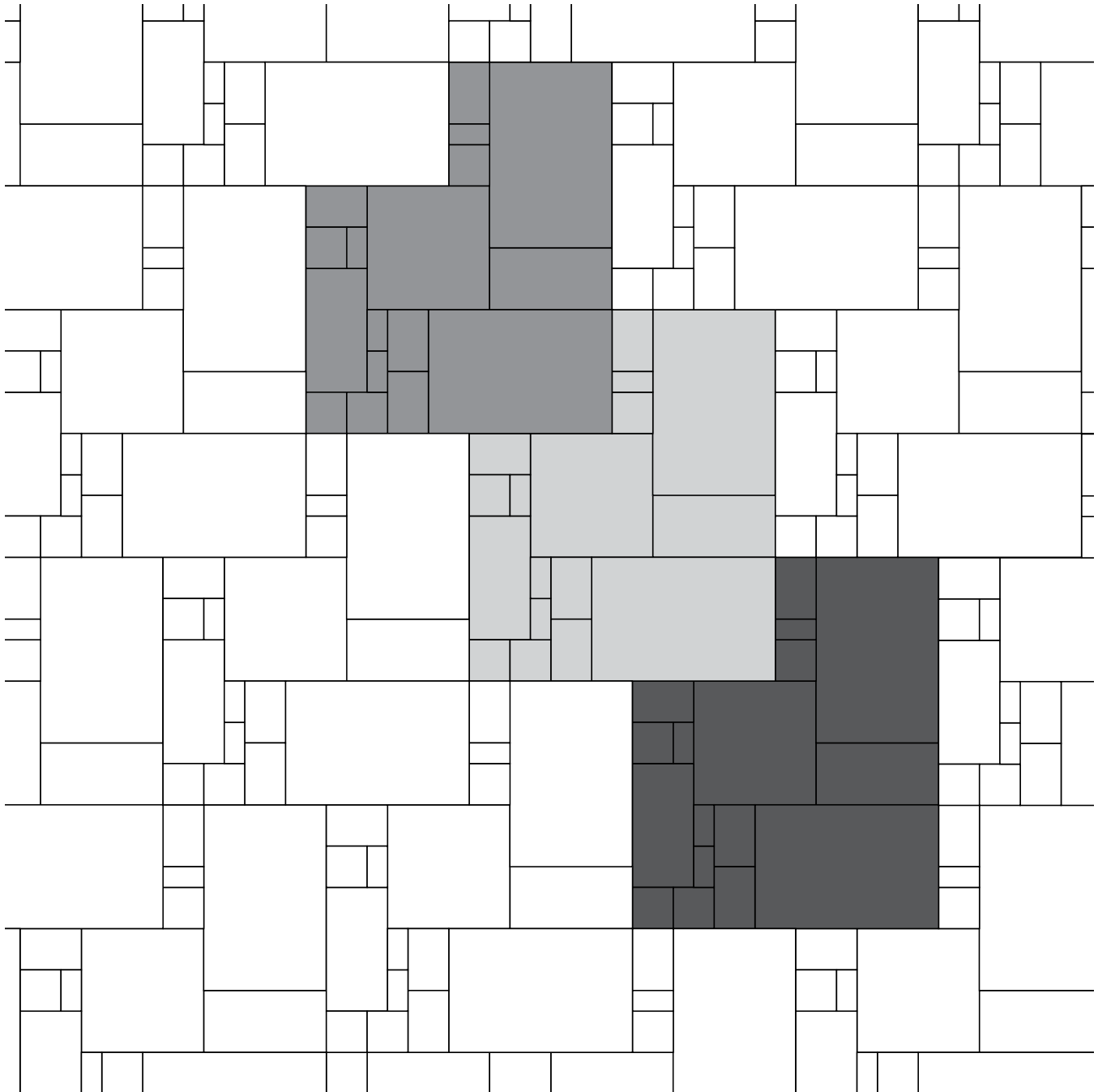
Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

Dimensions 6 - 35%\*

Dimensions 18 - 65%\*

\*Percentage of surface area (sq. ft)





### NOTES:

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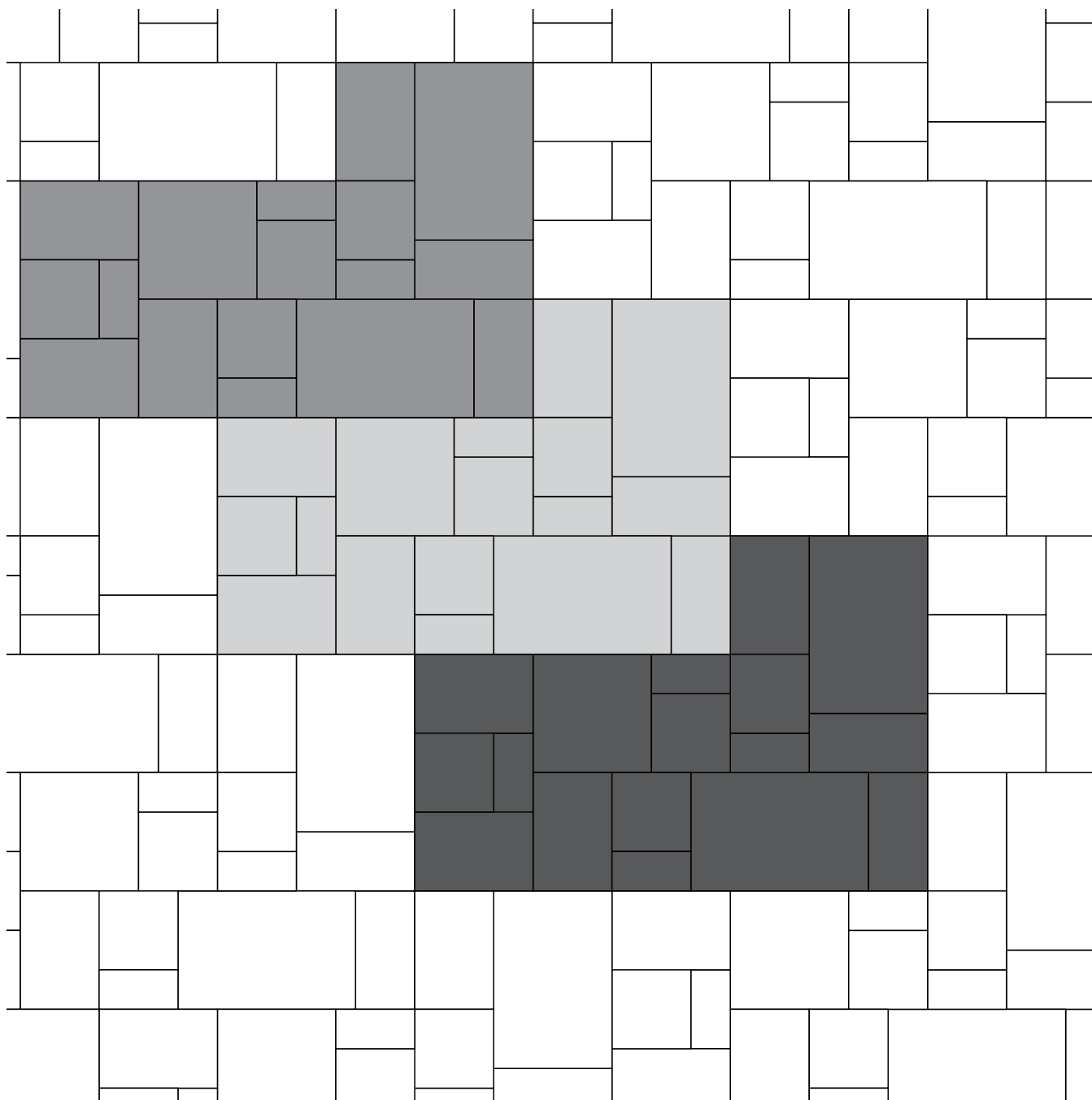
Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

Dimensions 12 - 52%\*

Dimensions 18 - 48%\*

\*Percentage of surface area (sq. ft)





### NOTES:

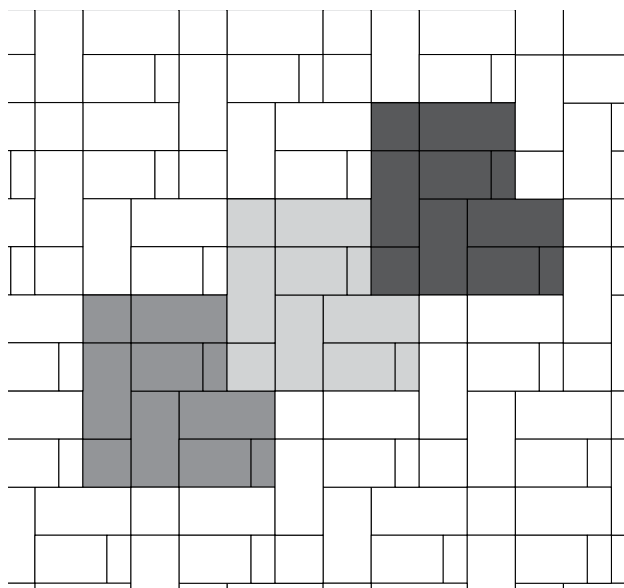
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Percentages are estimated based on area by paver.

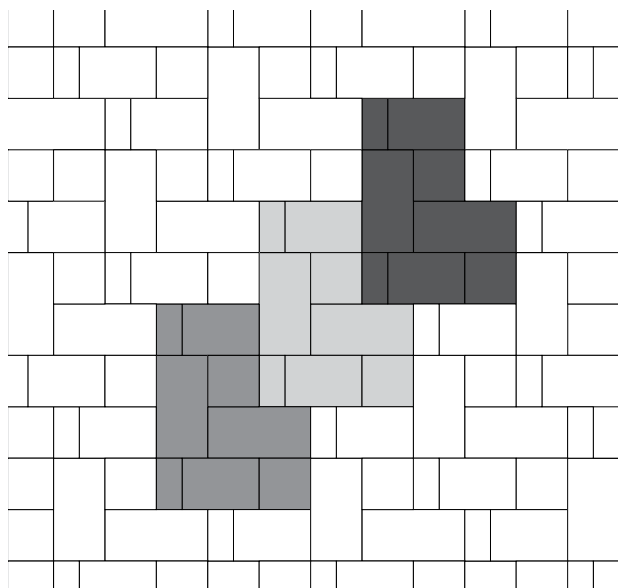
\*Percentage of surface area (sq. ft)

### MIX PATTERN



Dimensions 12 x 24 - 57%\* | Dimensions 12 - 43%\*

### MIX PATTERN



Dimensions 12 x 24 - 40%\* | Dimensions 12 - 60%\*

### NOTES:

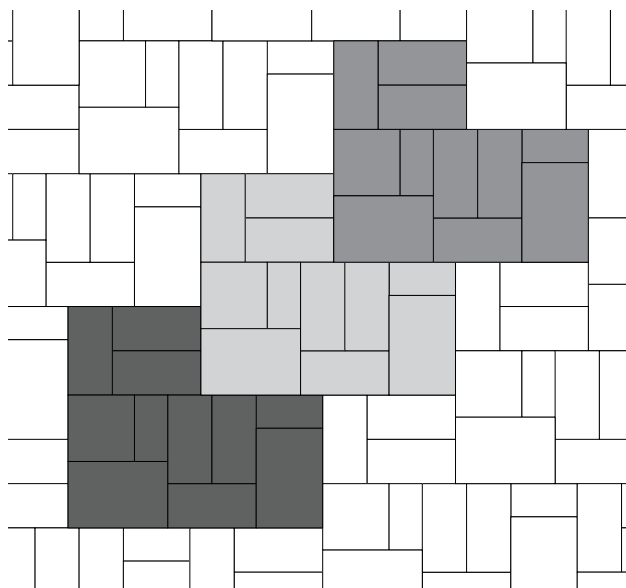
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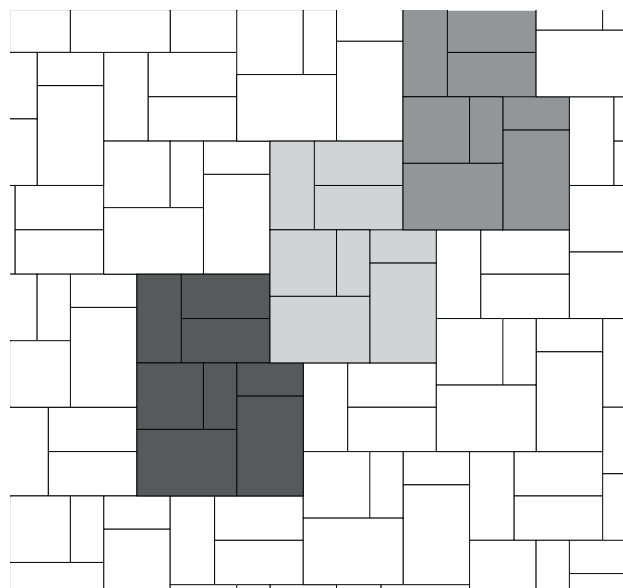
\*Percentage of surface area (sq. ft)

### MIX PATTERN



Dimensions 12 x 24 - 52%\* | Dimensions 18 - 48%\*

### MIX PATTERN



Dimensions 12 x 24 - 35%\* | Dimensions 18 - 65%\*

# DIMENSIONS™ SLAB

METROPOLITAN  
COLLECTION



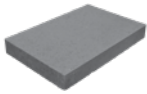
Scan for additional  
product information

*\*Special Order Only*  
*\*\*Special Order Only Available for 12x18, 18x18, and 12x24*  
*Contact your local Belgard representative for more information.*

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	FINISHES		
					SHOT BLAST	GROUND FACE	TUMBLED/ANTIQUED
✓				✓	✓**	✓*	

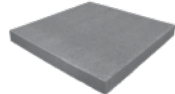
## SHAPES & SIZES

12 x 18\*



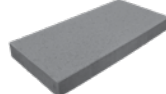
12 x 18 x 2<sup>3</sup>/<sub>8</sub>

18 x 18\*



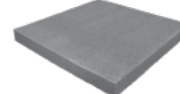
18 x 18 x 2<sup>3</sup>/<sub>8</sub>

12 x 24



12 x 24 x 2<sup>3</sup>/<sub>8</sub>

24 x 24



24 x 24 x 2<sup>3</sup>/<sub>8</sub>

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
12 X 18*							
12 X 18 X 2 <sup>3</sup> / <sub>8</sub>	120	12	10	80	8	0.66	3230
18 X 18*							
18 X 18 X 2 <sup>3</sup> / <sub>8</sub>	90	9	10	40	4	0.44	2440
12 X 24							
12 X 24 X 2 <sup>3</sup> / <sub>8</sub>	120	12	10	60	6	0.5	3230
24 X 24							
24 X 24 X 2 <sup>3</sup> / <sub>8</sub>	80	8	10	20	2	0.25	2170

**NOTE:** For paving slab applications, some contractors prefer to pre-compact screeded bedding sand with a small plate compactor. If pre-compaction is done, care must be taken to leave no indentations in the bedding sand surface from the plate compactor. These can be removed by screeding the surface to create a thin layer (6 – 10mm) of uncompacted sand (also known as fluffing). Paving slabs do not interlock and therefore do not spread loads to their neighbors via joint sand. Given this condition, there is no requirement to force bedding sand into the bottom of the joints when compacting the units on uncompacted bedding sand, as is done with interlocking concrete pavers. Compacting large slab units could lead to unnecessary breakage, so many times contractors may choose to use a mallet to tamp the slabs into place once laid. Slabs do not meet the standard compressive and flexural strengths of interlocking concrete pavers, therefore, **Belgard will not be responsible for breakage to Dimensions Slabs caused by compaction.**

## 4-PIECE PATTERN

### NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

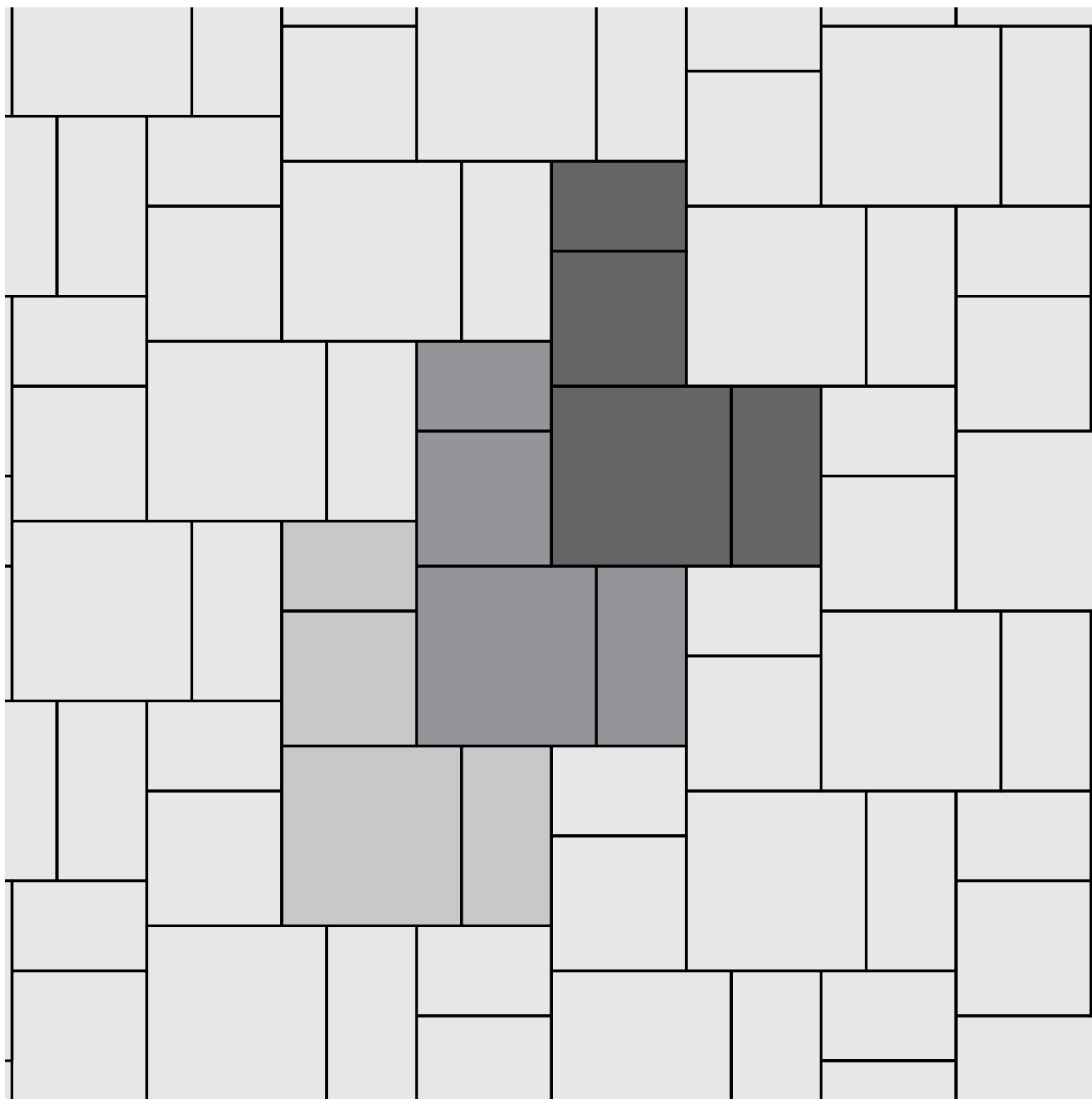
Percentages are estimated based on area by paver.

11% 12 x 18 Rectangles

17% 18 x 18 Squares

28% 12 x 24 Rectangles

44% 24 x 24 Squares



### NOTES:

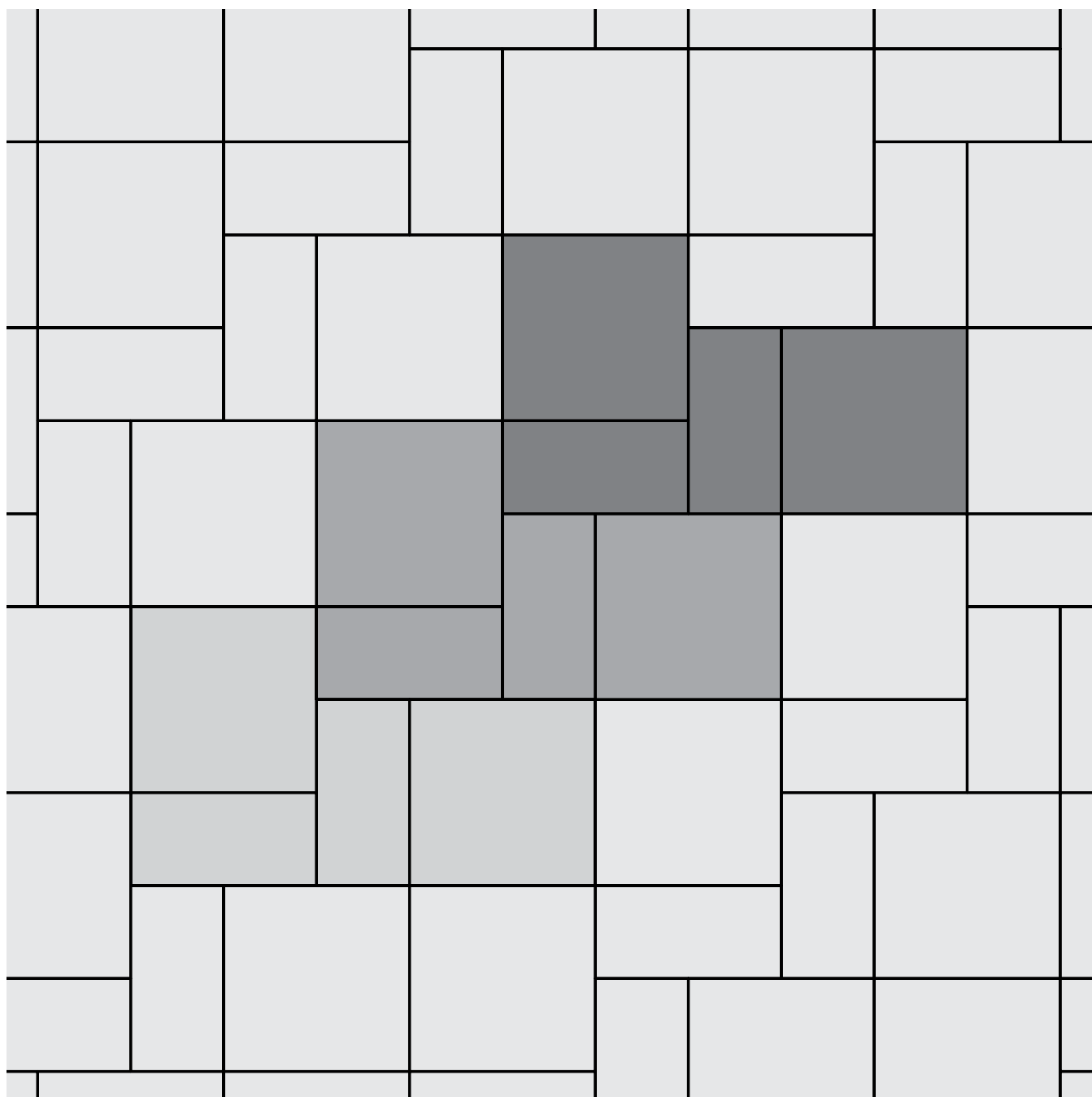
AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.






33% 12 x 24 Rectangles

67% 24 x 24 Squares





Scan for additional  
product information

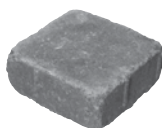
PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓	✓			

## SHAPES & SIZES

### 3-Piece Modular



3 x 6 x 2<sup>3</sup>/<sub>8</sub>

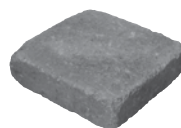


6 x 6 x 2<sup>3</sup>/<sub>8</sub>



6 x 9 x 2<sup>3</sup>/<sub>8</sub>

### Large Square



9 x 9 x 2<sup>3</sup>/<sub>8</sub>

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
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### 3-PIECE MODULAR

3 X 6 X 2 <sup>3</sup> / <sub>8</sub>	19	1.9	–	160	16	8	513.33
6 X 6 X 2 <sup>3</sup> / <sub>8</sub>	38	3.8	–	160	16	4	1026.66
6 X 9 X 2 <sup>3</sup> / <sub>8</sub>	57	5.7	–	160	16	2.67	1540
TOTAL	114	11.4	10	480	48	–	3080

### LARGE SQUARE

9 X 9 X 2 <sup>3</sup> / <sub>8</sub>	106	10.6	10	200	20	1.88	2860
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### NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

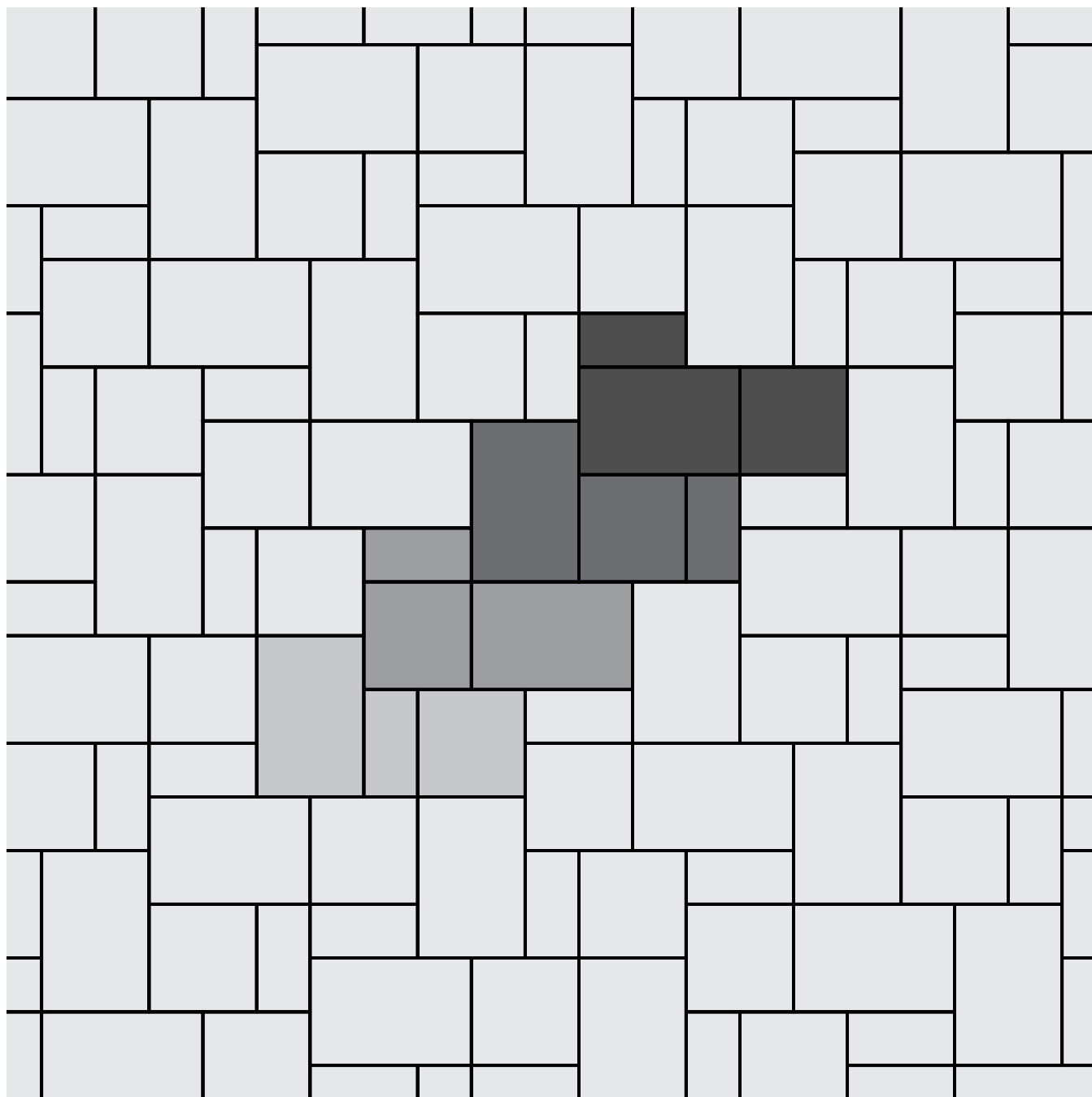
Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

17% 3 x 6 Rectangles

33% 6 x 6 Squares

50% 6 x 9 Rectangles



### NOTES:

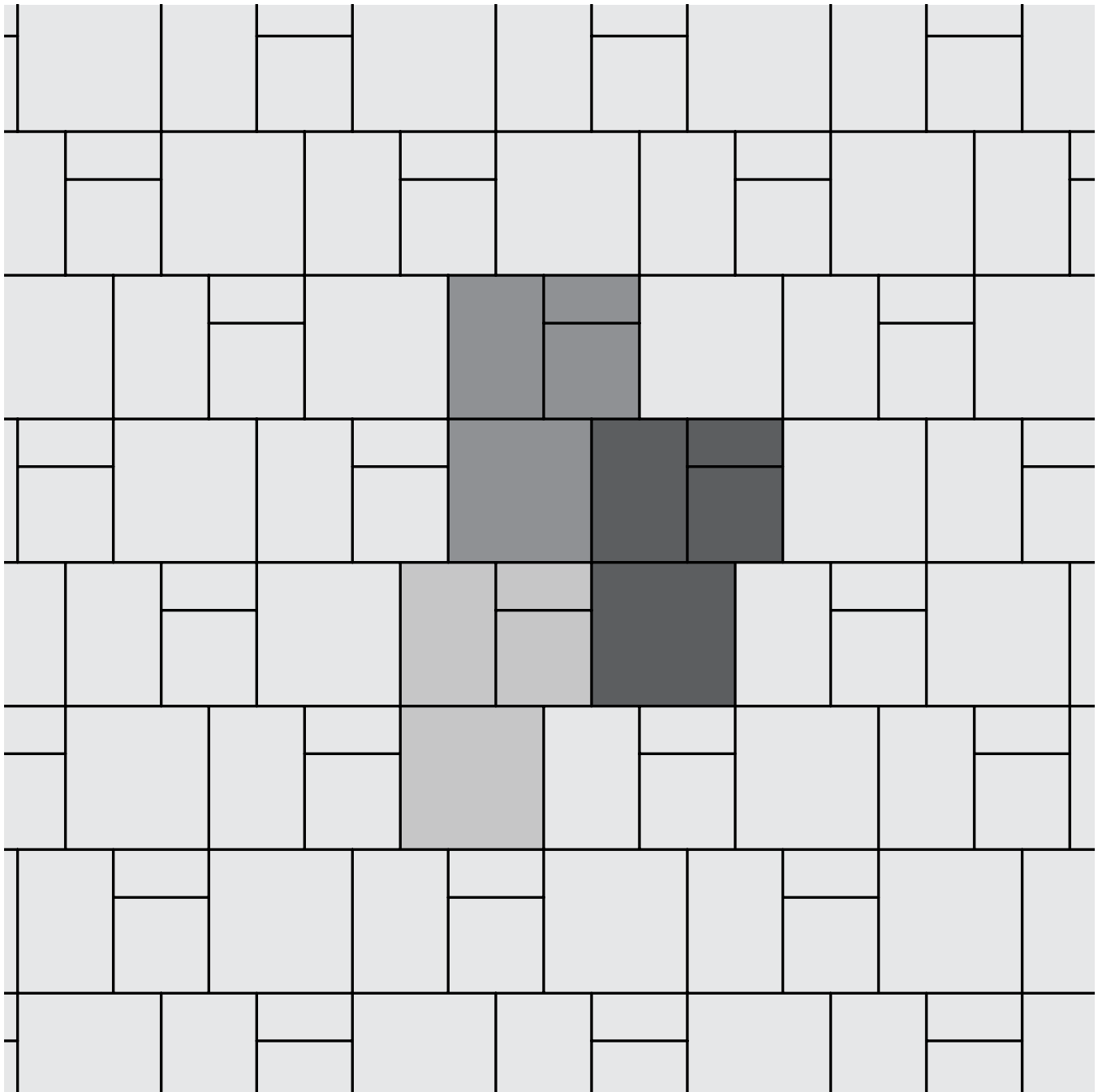
AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

57% 3-Piece

43% Large Square










# GEOMETRIC SHAPES



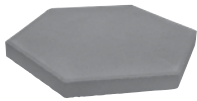
Scan for additional  
product information

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓	✓*			✓

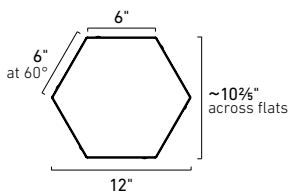
\*For Hexagon Only

## SHAPES & SIZES

### Hexagon



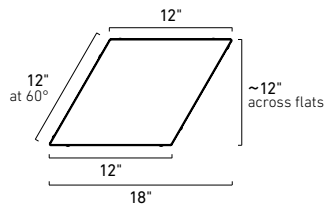
12 x 12 x 2<sup>3</sup>/<sub>8</sub>



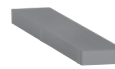
### Diamond



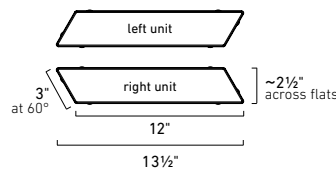
12 x 12 x 2<sup>3</sup>/<sub>8</sub>



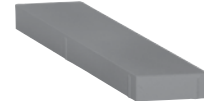
### 3 x 12 Parallelogram



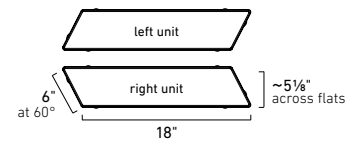
3 x 12 x 2<sup>3</sup>/<sub>8</sub>



### 6 x 18 Parallelogram



6 x 18 x 2<sup>3</sup>/<sub>8</sub>



UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
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### HEXAGON

12 X 12 X 2 <sup>3</sup> / <sub>8</sub>	100.02	9.09	11	154	14	—	2845
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### DIAMOND

12 X 12 X 2 <sup>3</sup> / <sub>8</sub>	93.53	7.79	12	108	9	—	2664
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### 3 X 12 PARALLELOGRAM

3 X 12 X 2 <sup>3</sup> / <sub>8</sub>	85.73	7.79	11	396	36	—	2392
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### 6 X 18 PARALLELOGRAM

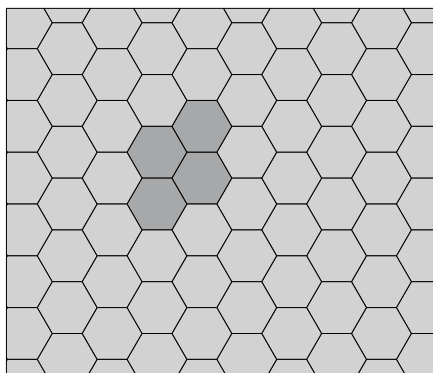
6 X 18 X 2 <sup>3</sup> / <sub>8</sub>	114.31	10.39	11	176	16	—	3225
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## NOTES:

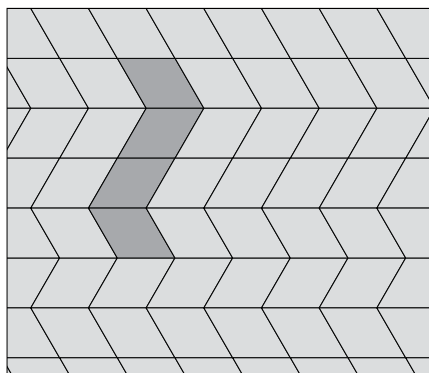
AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

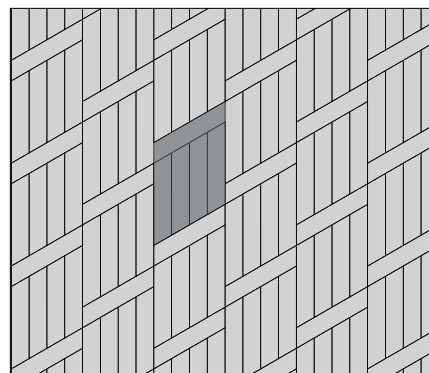
Percentages are estimated based on area by paver.



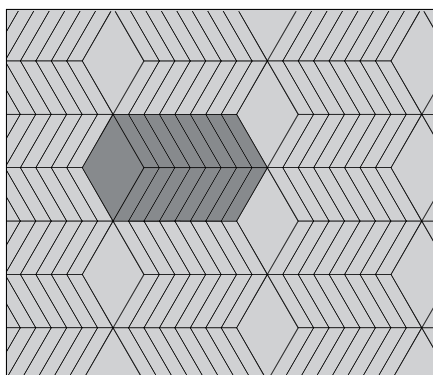
Hexagon - 100%



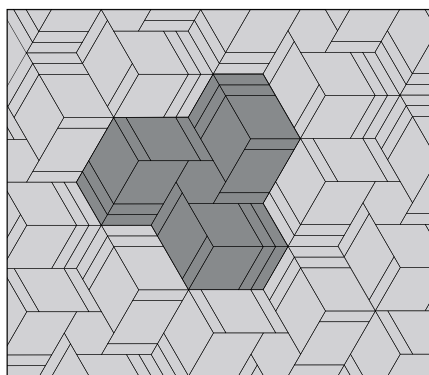
Diamond - 100%



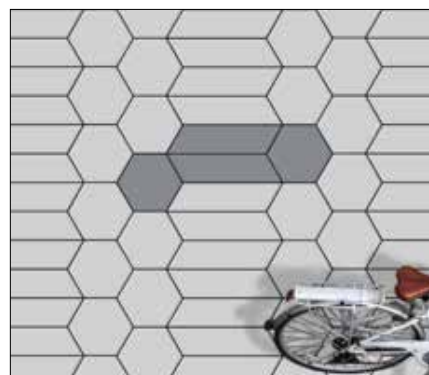
Parallelogram - 100%



Parallelogram 3x12 - 82% | Diamond - 18%



Parallelogram 3x12 - 33% | Diamond - 60% |  
Hexagon - 7%



Parallelogram - 47% | Hexagon - 53%



Scan for additional  
product information

\*80MM Heavy Traffic Only  
\*\*Finishes Special Order Only  
Contact your local Belgard representative for more information.

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	FINISHES		
					SHOT BLAST	GROUND FACE	TUMBLED/ANTIQUED
✓	✓	✓*			✓**	✓**	✓**

## SHAPES & SIZES

60mm



4 x 8 x 2<sup>3</sup>/<sub>8</sub>

80mm



4 x 8 x 3<sup>1</sup>/<sub>8</sub>

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
60MM							
4 X 8 X 2 <sup>3</sup> / <sub>8</sub>	120	12	10	540	54	4.5	3230
80MM							
4 X 8 X 3 <sup>1</sup> / <sub>8</sub>	96	12	8	432	54	4.5	3450

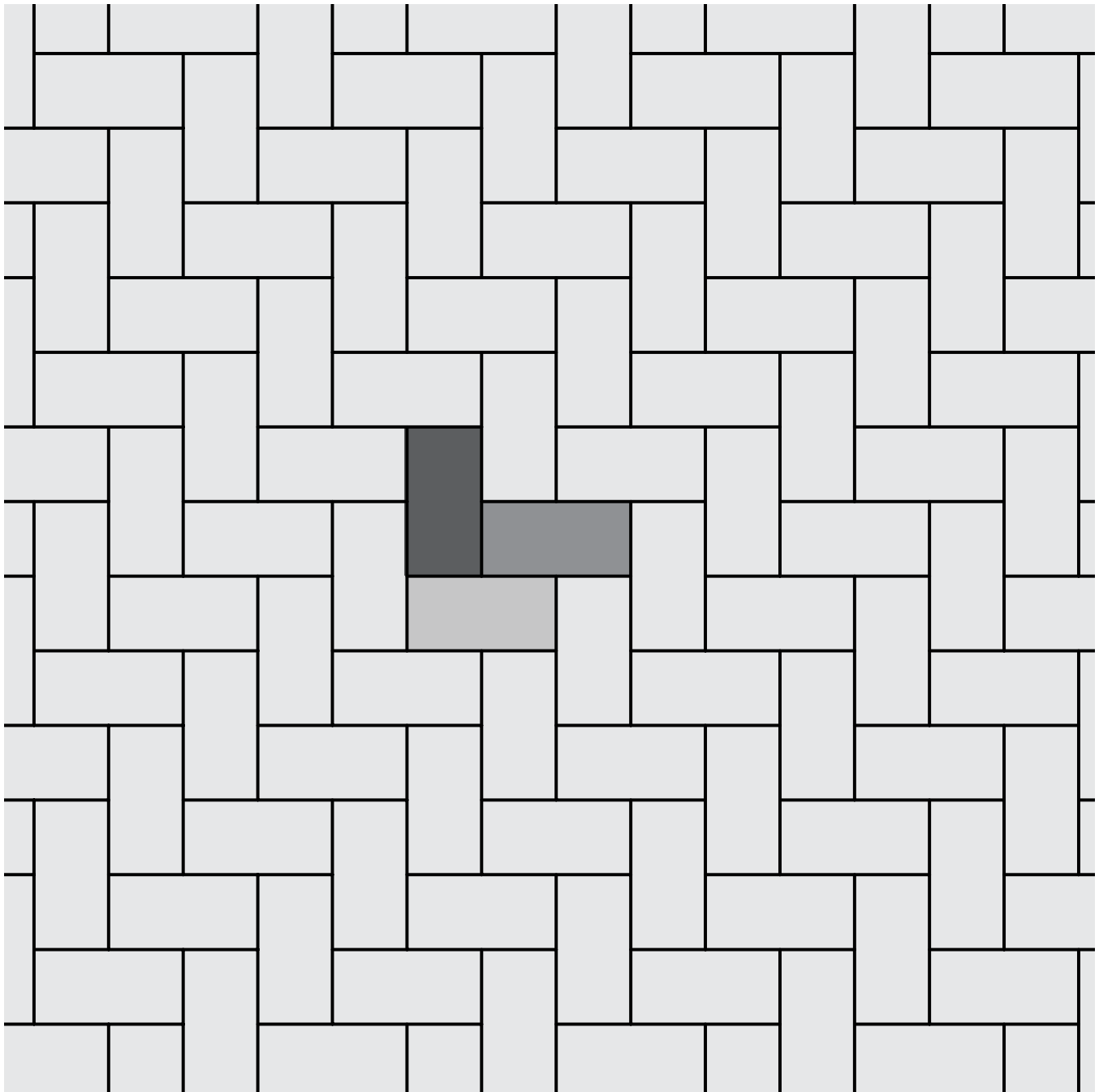
**NOTES:**

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Percentages are estimated based on area by paver.

**100% 60MM or 80MM Rectangles**





Scan for additional  
product information

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
✓	✓*			

## SHAPES & SIZES

60mm

80mm\*



15<sup>3</sup>/<sub>8</sub> x 20<sup>1</sup>/<sub>16</sub> x 2<sup>3</sup>/<sub>8</sub>

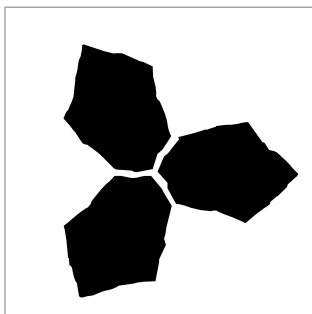
15<sup>3</sup>/<sub>8</sub> x 20<sup>1</sup>/<sub>16</sub> x 3<sup>1</sup>/<sub>8</sub>

We recommend NOCO™ Polymeric Joint for this product.

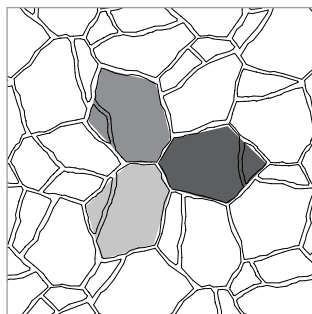
\*80mm is special order

NOTE: 60mm not recommended for driveway applications

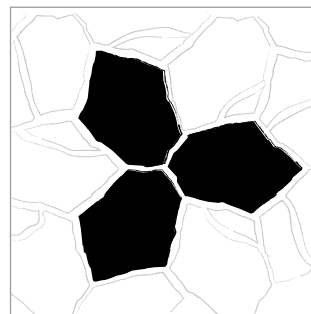
UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
60MM							
15 <sup>3</sup> / <sub>8</sub> X 20 <sup>1</sup> / <sub>16</sub> X 2 <sup>3</sup> / <sub>8</sub>	104.4	8.7	12	72	6	0.69	2850
80MM*							
15 <sup>3</sup> / <sub>8</sub> X 20 <sup>1</sup> / <sub>16</sub> X 3 <sup>1</sup> / <sub>8</sub>	78.3	8.7	9	54	6	0.69	2870



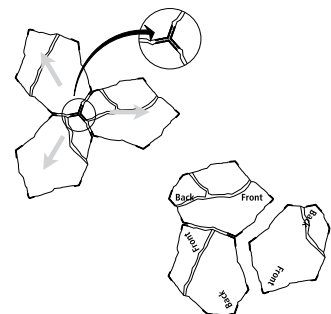
STEP 1 - Begin by laying 3 pavers at the center of the surface to be covered.



STEP 3 - Complete the balance of the surface to be covered with single pavers.



STEP 2 - Add more sets of cloverleaves to fill in the surface to be covered.



Before you start, familiarize yourself with the Mega-Arbel pavers. Begin by placing 3 pavers together to form a cloverleaf.

This is a visual of a set of 3 pavers forming a cloverleaf.

To make the installation easier, the front of the paver should point to the back of the other pavers.



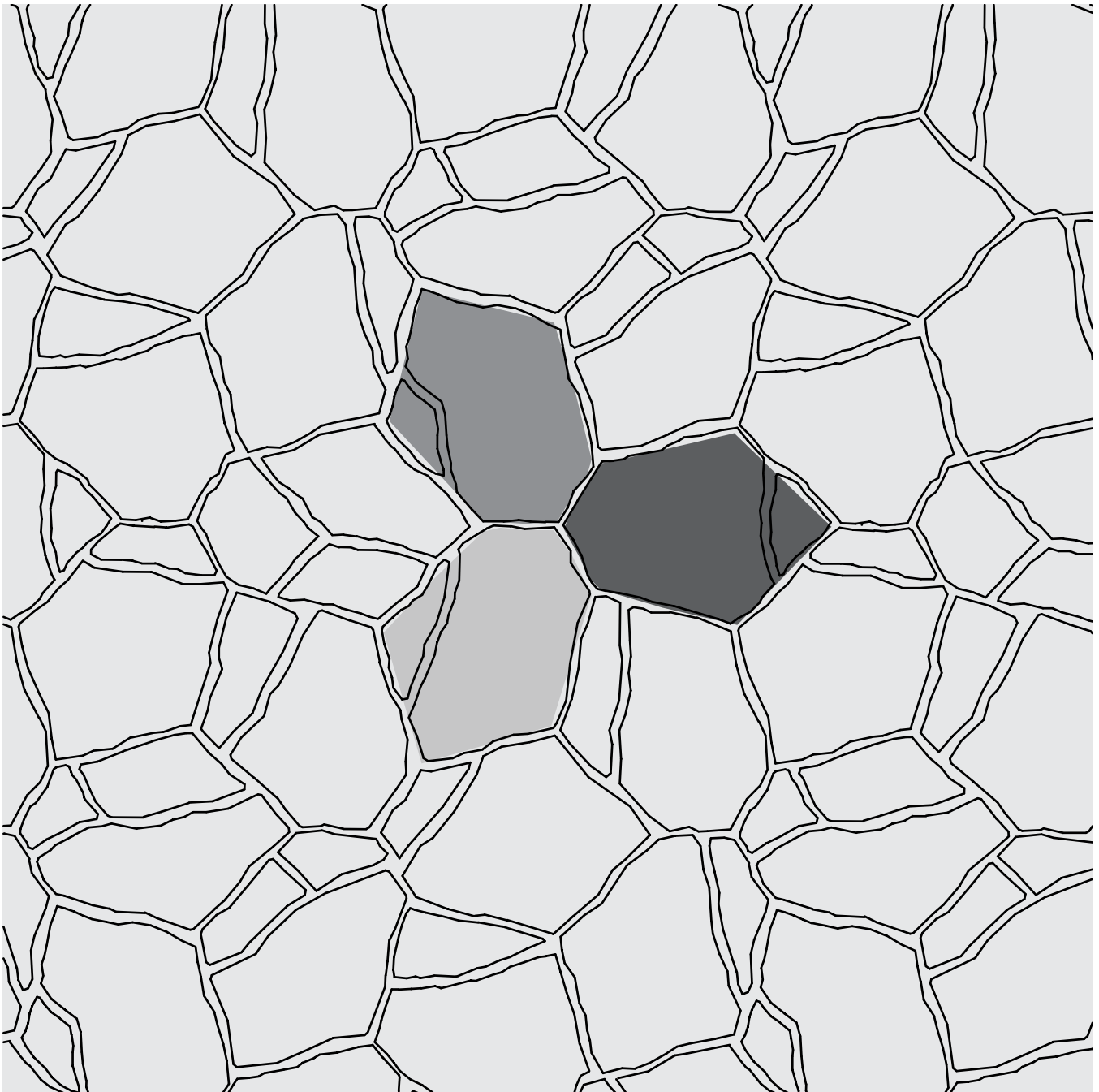
**NOTES:**

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Percentages are estimated based on area by paver.

100% 15 x 20





Scan for additional  
product information

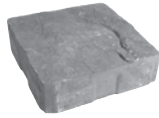
PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓	✓	✓		

## SHAPES & SIZES

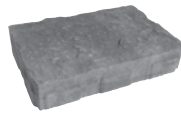
### 3-Piece Modular



5<sup>3</sup>/<sub>16</sub> X 10<sup>3</sup>/<sub>8</sub> X 3<sup>1</sup>/<sub>8</sub>



10<sup>3</sup>/<sub>8</sub> X 10<sup>3</sup>/<sub>8</sub> X 3<sup>1</sup>/<sub>8</sub>



10<sup>3</sup>/<sub>8</sub> X 15<sup>11</sup>/<sub>16</sub> X 3<sup>1</sup>/<sub>8</sub>

### Large Square



15<sup>11</sup>/<sub>16</sub> X 15<sup>11</sup>/<sub>16</sub> X 3<sup>1</sup>/<sub>8</sub>

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
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### 3-PIECE MODULAR

5 <sup>3</sup> / <sub>16</sub> X 10 <sup>3</sup> / <sub>8</sub> X 3 <sup>1</sup> / <sub>8</sub>	15.45	1.72	–	36	4	2.32	556
10 <sup>3</sup> / <sub>8</sub> X 10 <sup>3</sup> / <sub>8</sub> X 3 <sup>1</sup> / <sub>8</sub>	30.9	3.43	–	36	4	1.16	1114
10 <sup>3</sup> / <sub>8</sub> X 15 <sup>11</sup> / <sub>16</sub> X 3 <sup>1</sup> / <sub>8</sub>	46.35	5.15	–	45	5	0.97	1670
TOTAL	92.7	10.3	9	117	13	–	3340

### LARGE SQUARE

15 <sup>11</sup> / <sub>16</sub> X 15 <sup>11</sup> / <sub>16</sub> X 3 <sup>1</sup> / <sub>8</sub>	93	10.33	9	54	6	0.58	3340
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## SPECIAL ORDER MEGA-LAFITT®

3-PIECE Pattern



### NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

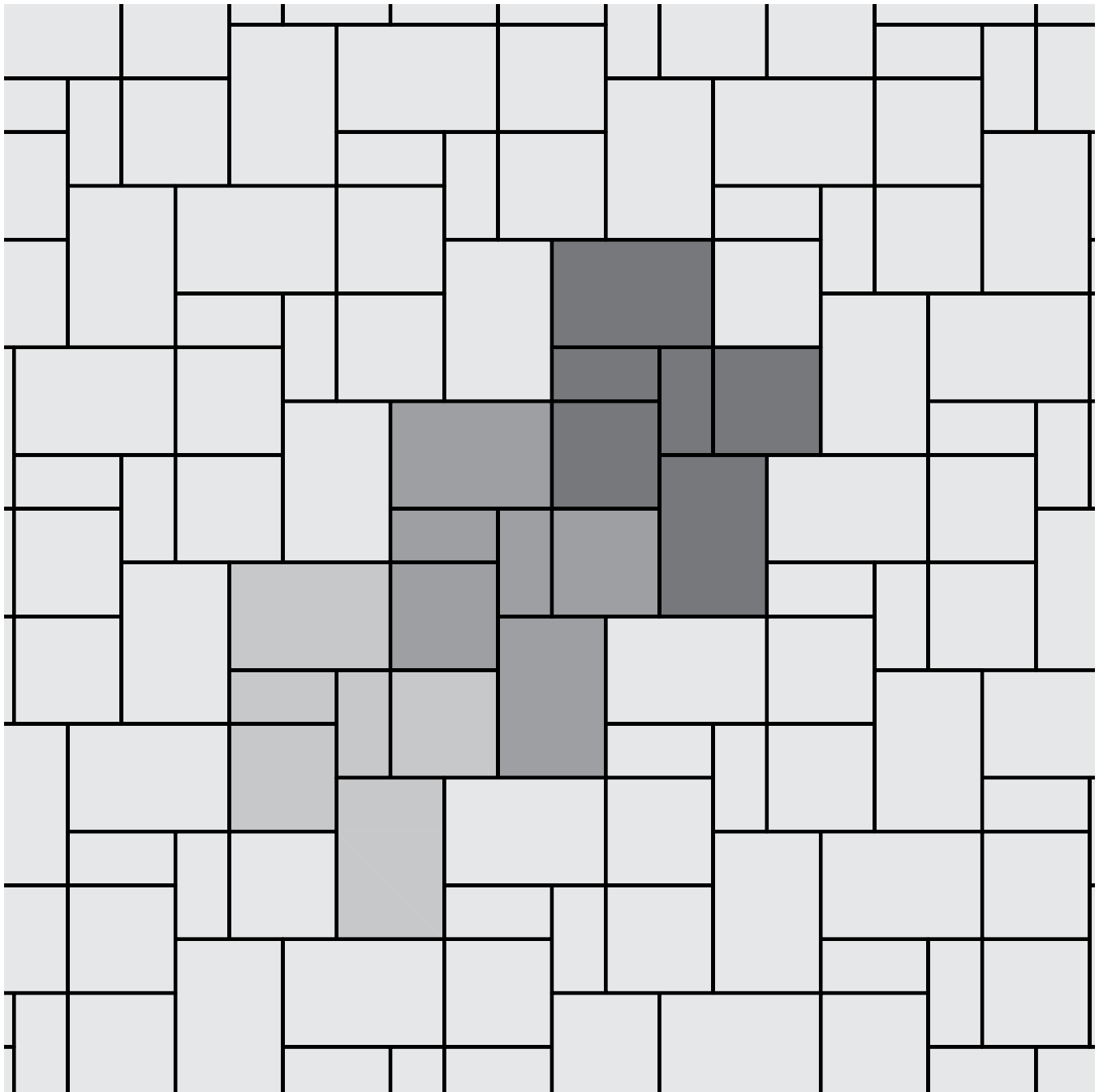
Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

17%  $5\frac{3}{16} \times 10\frac{3}{8}$  Rectangles

33%  $10\frac{3}{8} \times 10\frac{3}{8}$  Squares

50%  $10\frac{3}{8} \times 15\frac{11}{16}$  Rectangles










# MELVILLE™ PLANK

METROPOLITAN  
COLLECTION 



Scan for additional  
product information

*\*Special Order Only*  
Contact your local Belgard representative for more information.

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	FINISHES		
					SHOT BLAST	GROUND FACE	TUMBLING/ANTIQUED
✓				✓	✓*	✓*	

## SHAPES & SIZES

### 3-Piece Large



7½ X 11⅓ X 2⅜

7½ X 15¾ X 2⅜

7½ X 19⅓ X 2⅜

### 3-Piece Slim



5 X 11⅓ X 2⅜

5 X 15¾ X 2⅜

5 X 19⅓ X 2⅜

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
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### 3-PIECE LARGE

7½ X 11⅓ X 2⅜	30.35	3.035	–	50	5	1.65	845
7½ X 15¾ X 2⅜	41	4.1	–	50	5	1.22	1149.2
7½ X 19⅓ X 2⅜	51.35	5.135	–	50	5	0.97	1385.80
TOTAL	122.7	12.27	10	150	15	–	3380

### 3-PIECE SLIM

5 X 11⅓ X 2⅜	29	2.9	–	70	7	2.41	787.5
5 X 15¾ X 2⅜	38.5	3.85	–	70	7	1.81	1071
5 X 19⅓ X 2⅜	47	4.7	–	70	7	1.49	1291.5
TOTAL	114.5	11.45	10	210	21	–	3150

### NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

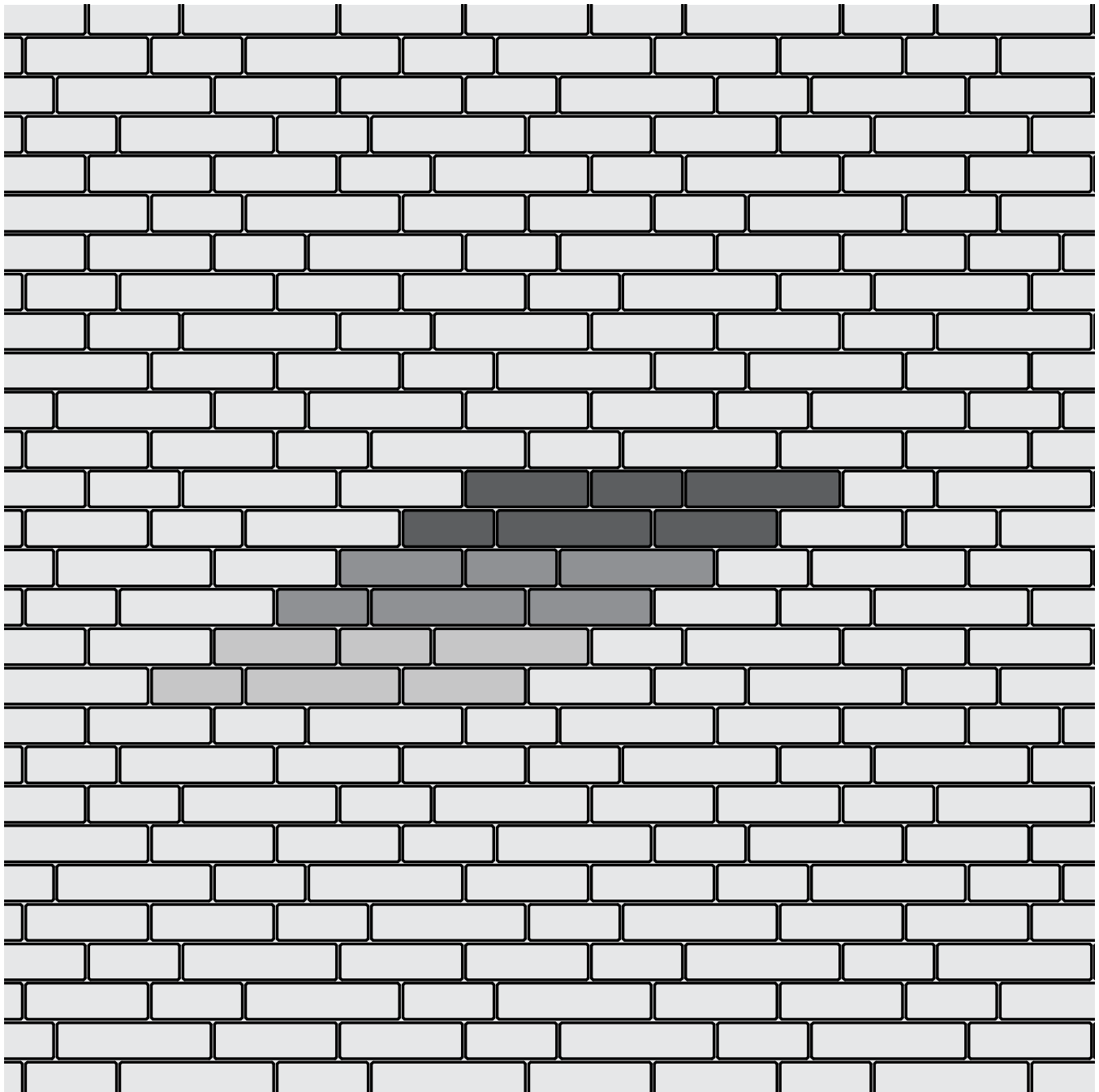
Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

25% 5 x 11 Rectangles

33% 5 x 15 Rectangles

42% 5 x 19 Rectangles



### NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

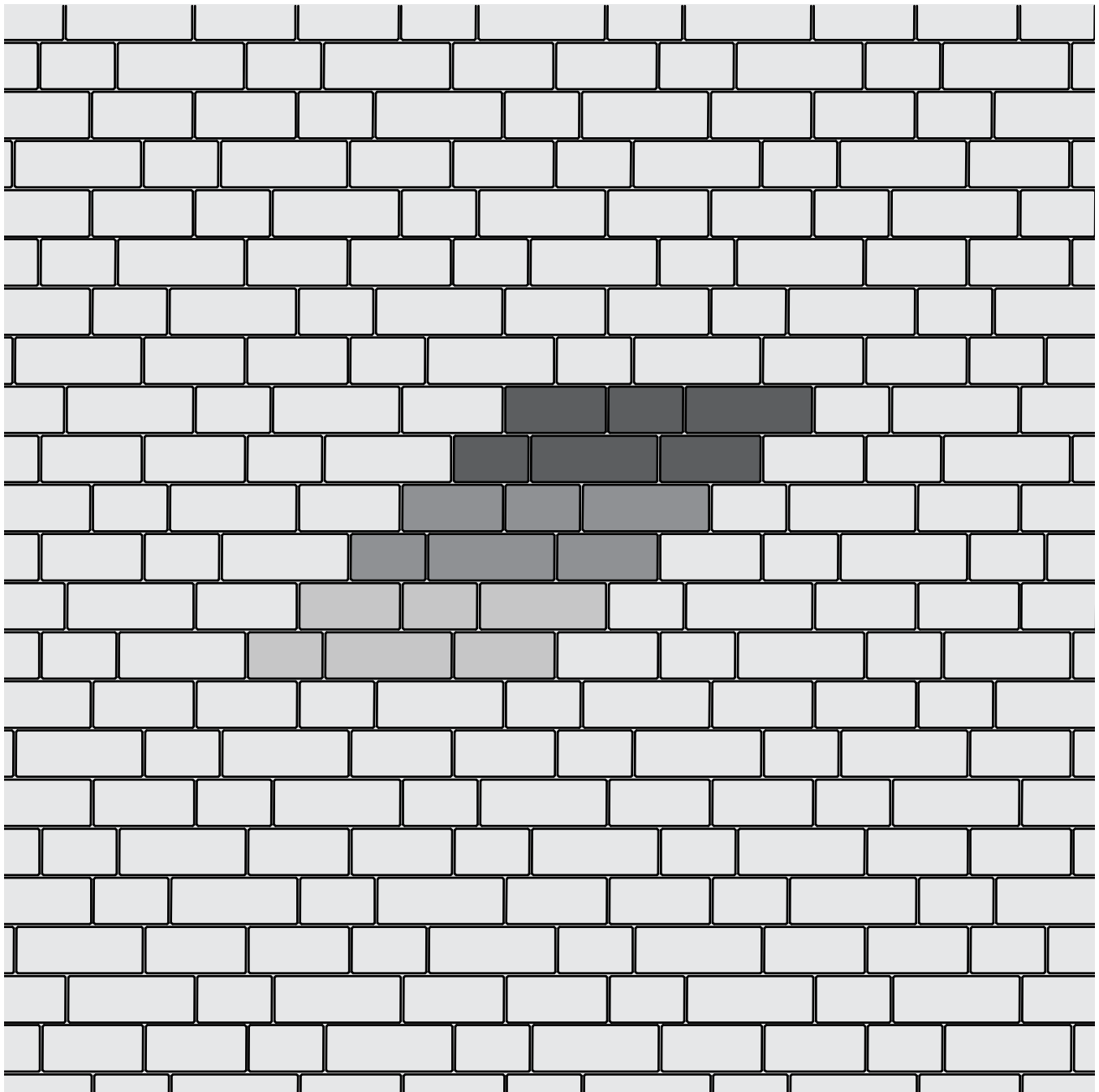
Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

25%  $7\frac{1}{2} \times 11\frac{13}{16}$  Rectangles

33%  $7\frac{1}{2} \times 15\frac{3}{4}$  Rectangles

42%  $7\frac{1}{2} \times 19\frac{1}{16}$  Rectangles



## 6-PIECE PATTERN

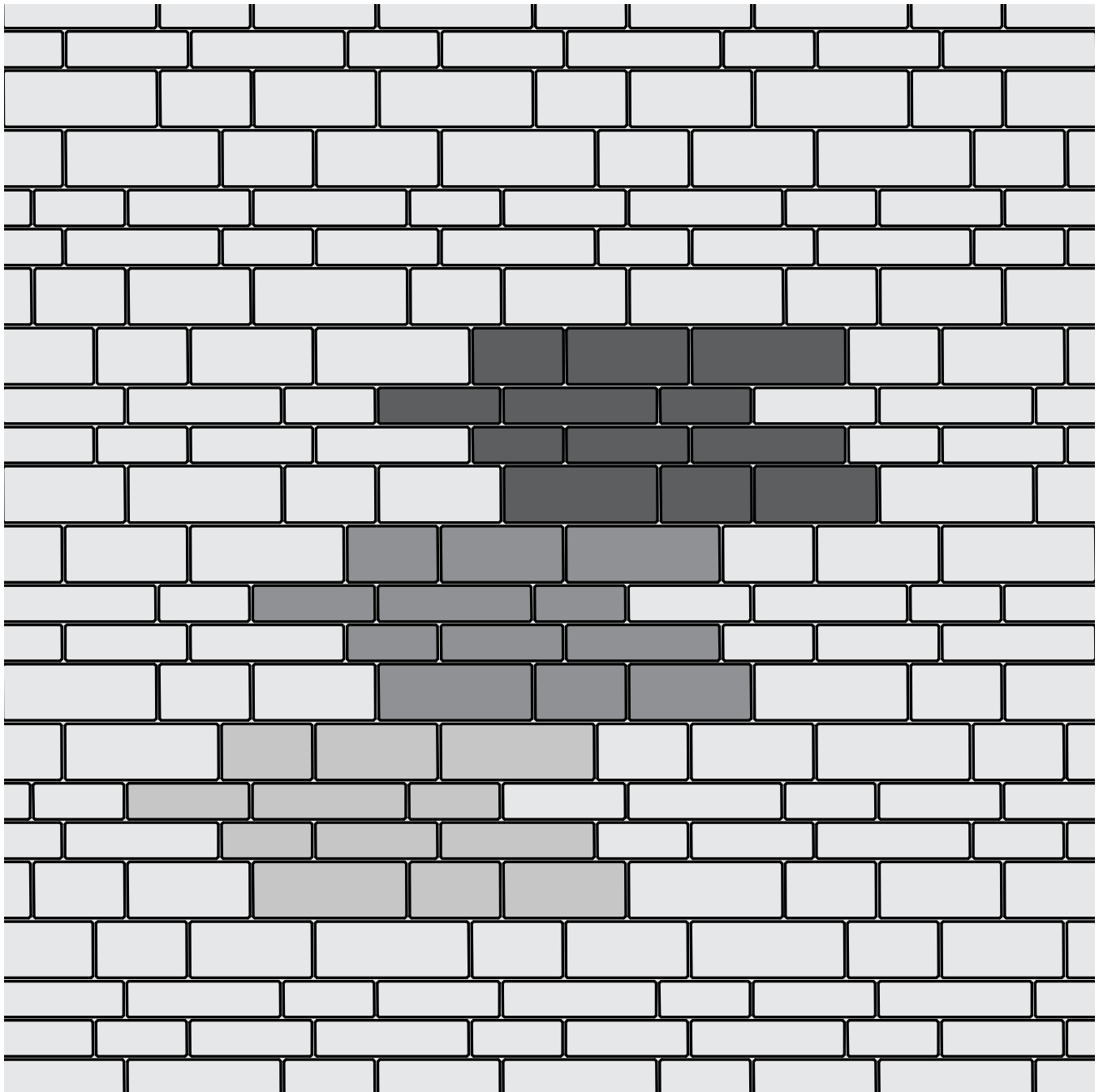
### NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

40% 3-Piece Slim  
60% 3-Piece Large








# OLD WORLD PAVER™ SPECIAL ORDER

HERITAGE  
COLLECTION 



Scan for additional  
product information

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓	✓	✓		

## SHAPES & SIZES

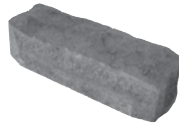
### 3-Piece



5 x 7<sup>11</sup>/<sub>16</sub> x 3<sup>1</sup>/<sub>8</sub>



5 x 10<sup>1</sup>/<sub>4</sub> x 3<sup>1</sup>/<sub>8</sub>



5 x 12<sup>13</sup>/<sub>16</sub> x 3<sup>1</sup>/<sub>8</sub>

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	-----------------	----------------	-------------------

### 3-PIECE

5 X 7 <sup>11</sup> / <sub>16</sub> X 3 <sup>1</sup> / <sub>8</sub>	23.63	2.953	–	88	11	3.73	877.5
5 X 10 <sup>1</sup> / <sub>4</sub> X 3 <sup>1</sup> / <sub>8</sub>	34.36	4.295	–	96	12	2.79	1235
5 X 12 <sup>13</sup> / <sub>16</sub> X 3 <sup>1</sup> / <sub>8</sub>	32.28	4.035	–	72	9	2.23	1137.50
TOTAL	90.27	9.027	8	256	32	–	3250

# SPECIAL ORDER OLD WORLD PAVER™



**NOTES:**

AutoCAD® hatch pattern files can be downloaded from belgard.com for use in architectural drawings.

Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

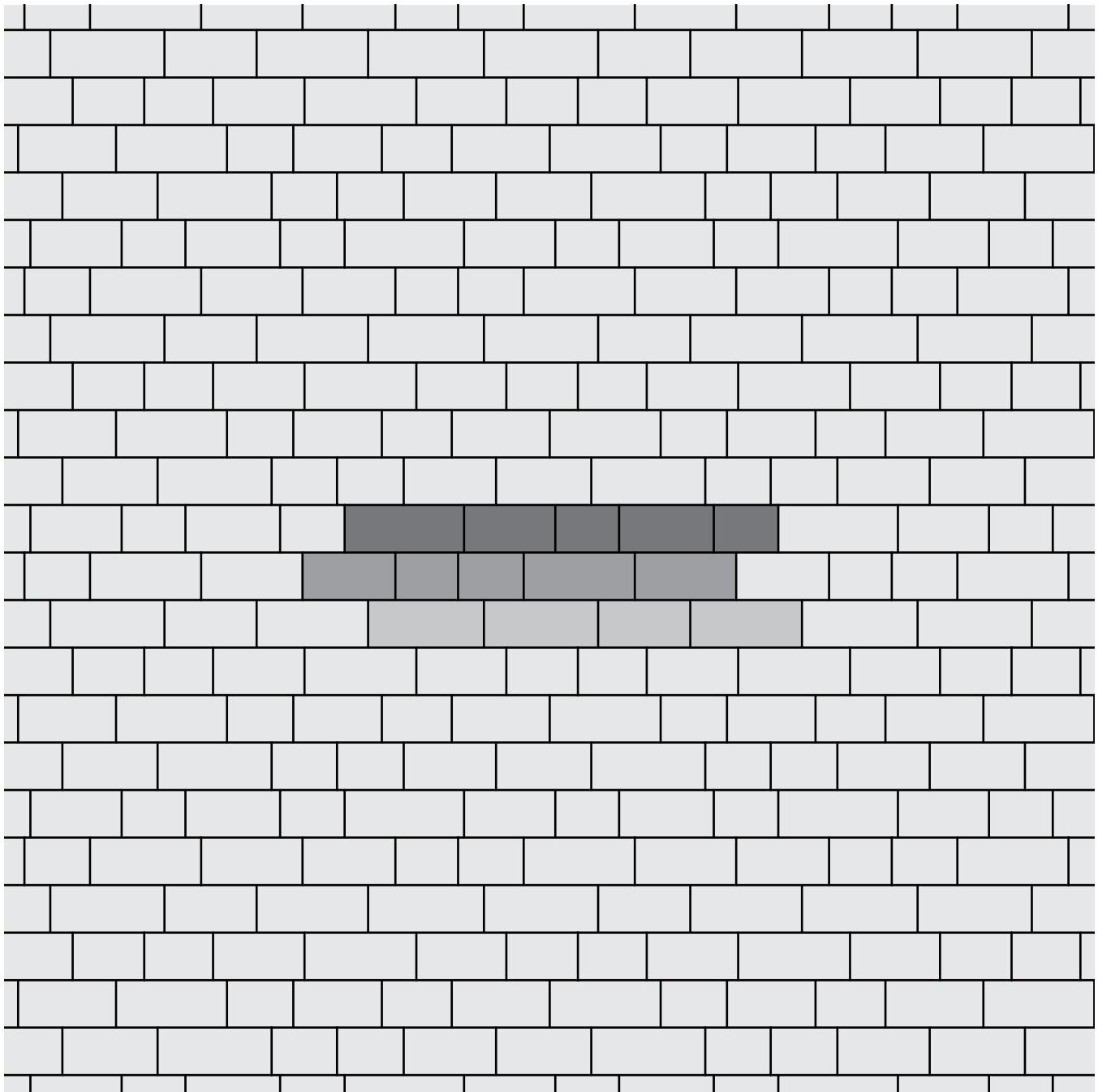
Percentages are estimated based on area by paver.

**3-PIECE LINEAR RUNNING BOND**

25% 5 x 7<sup>11</sup>/<sub>16</sub> Rectangles

33% 5 x 10<sup>1</sup>/<sub>4</sub> Rectangles

42% 5 x 12<sup>13</sup>/<sub>16</sub> Rectangles








# ORIGINS™ 3-PIECE SYSTEM

NATURAL  
COLLECTION 



Scan for additional  
product information

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓	✓*			✓

\*Origins™ 6 only.

## SHAPES & SIZES

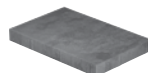
### Origins™ 6



3 x 6 x 2<sup>3</sup>/<sub>8</sub>



6 x 6 x 2<sup>3</sup>/<sub>8</sub>

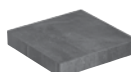


6 x 9 x 2<sup>3</sup>/<sub>8</sub>

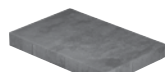
### Origins™ 12



6 x 12 x 2<sup>3</sup>/<sub>8</sub>



12 x 12 x 2<sup>3</sup>/<sub>8</sub>

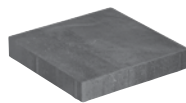


12 x 18 x 2<sup>3</sup>/<sub>8</sub>

### Origins™ 18



9 x 18 x 2<sup>3</sup>/<sub>8</sub>



18 x 18 x 2<sup>3</sup>/<sub>8</sub>



18 x 27 x 2<sup>3</sup>/<sub>8</sub>

# ORIGINS™ 3-PIECE SYSTEM

NATURAL  
COLLECTION 



Scan for additional  
product information

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	-----------------	----------------	-------------------

## ORIGINS™ 6

3 X 6 X 2 <sup>3</sup> / <sub>8</sub>	20	2	–	160	16	8	538
6 X 6 X 2 <sup>3</sup> / <sub>8</sub>	40	4	–	160	16	4	1076.4
6 X 9 X 2 <sup>3</sup> / <sub>8</sub>	60	6	–	160	16	2.67	1614.6
TOTAL	120	12	10	480	48	–	3230

## ORIGINS™ 12

6 X 12 X 2 <sup>3</sup> / <sub>8</sub>	20	2	–	40	4	2	530
12 X 12 X 2 <sup>3</sup> / <sub>8</sub>	40	4	–	40	4	1	1060
12 X 18 X 2 <sup>3</sup> / <sub>8</sub>	60	6	–	40	4	0.66	1590
TOTAL	120	12	10	120	12	–	3180






## ORIGINS™ 18

9 X 18 X 2 <sup>3</sup> / <sub>8</sub>	22.5	2.25	–	20	2	0.88	627.4
18 X 18 X 2 <sup>3</sup> / <sub>8</sub>	22.5	2.25	–	10	1	0.44	286
18 X 27 X 2 <sup>3</sup> / <sub>8</sub>	67.5	6.75	–	20	2	0.29	1894
TOTAL	112.5	11.25	10	50	5	–	3152



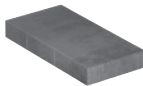


Scan for additional  
product information

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓	✓			✓

## SHAPES & SIZES

### Accent



6 x 9 x 2<sup>3</sup>/<sub>8</sub>

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
ACCENT							
6 X 9 X 2 <sup>3</sup> / <sub>8</sub>	112	11.2	10	300	30	2.67	3020

## NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

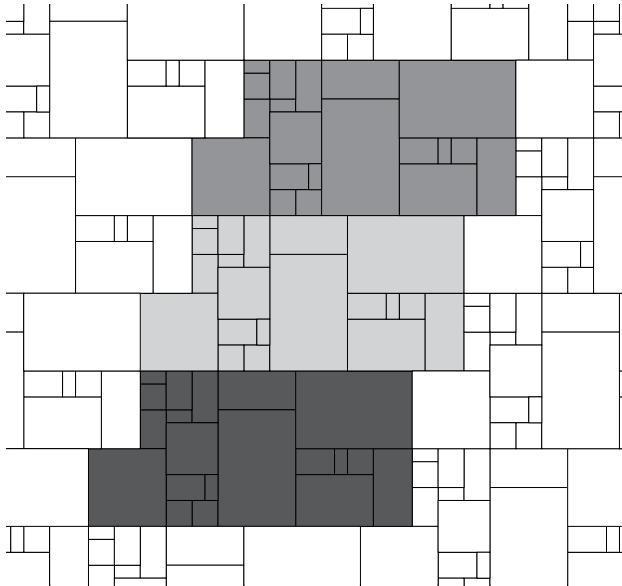
Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

## MIX PATTERN

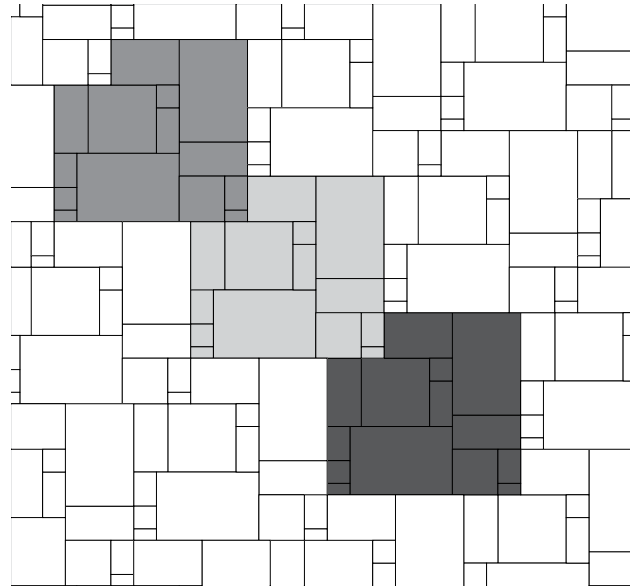
\*Percentage of surface area (sq. ft)

## MIX PATTERN



*Origins 6 - 30%\* | Origins 12 - 15%\* | Origins 18 - 55%\**

## MIX PATTERN



*Origins 6 - 17.5%\* | Origins 12 - 17.5%\* | Origins 18 - 65%\**

## NOTES:

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Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

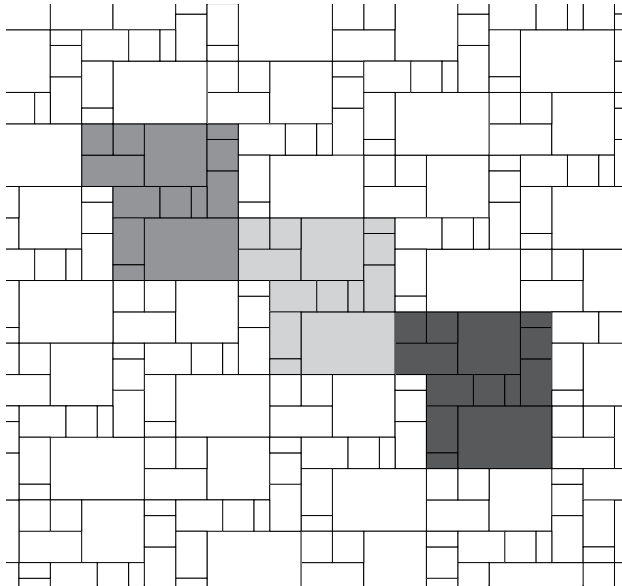
Percentages are estimated based on area by paver.

# ORIGINS™ 6 & 12

## MIX PATTERN

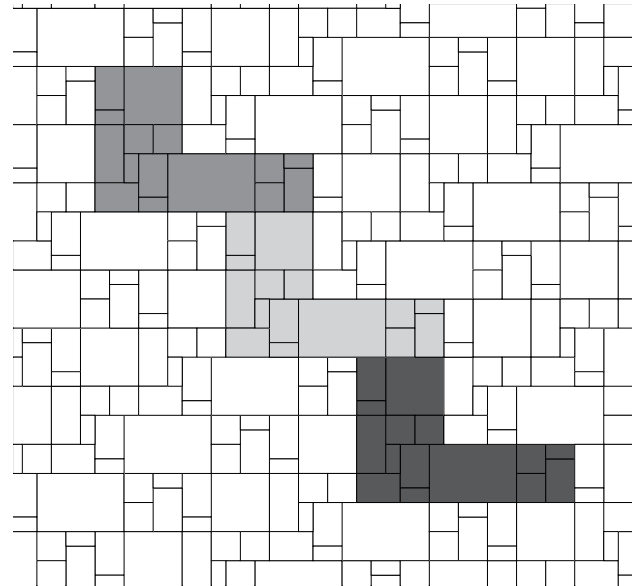
\*Percentage of surface area (sq. ft)

## MIX PATTERN



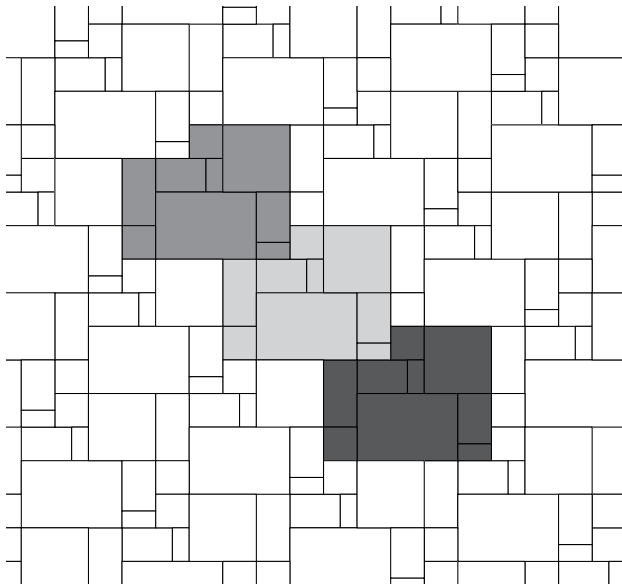
Origins 6 - 66.6%\* | Origins 12 - 33.3%\*

## MIX PATTERN



Origins 6 - 66.6%\* | Origins 12 - 33.3%\*

## MIX PATTERN



Origins 6 - 50%\* | Origins 12 - 50%\*

### NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

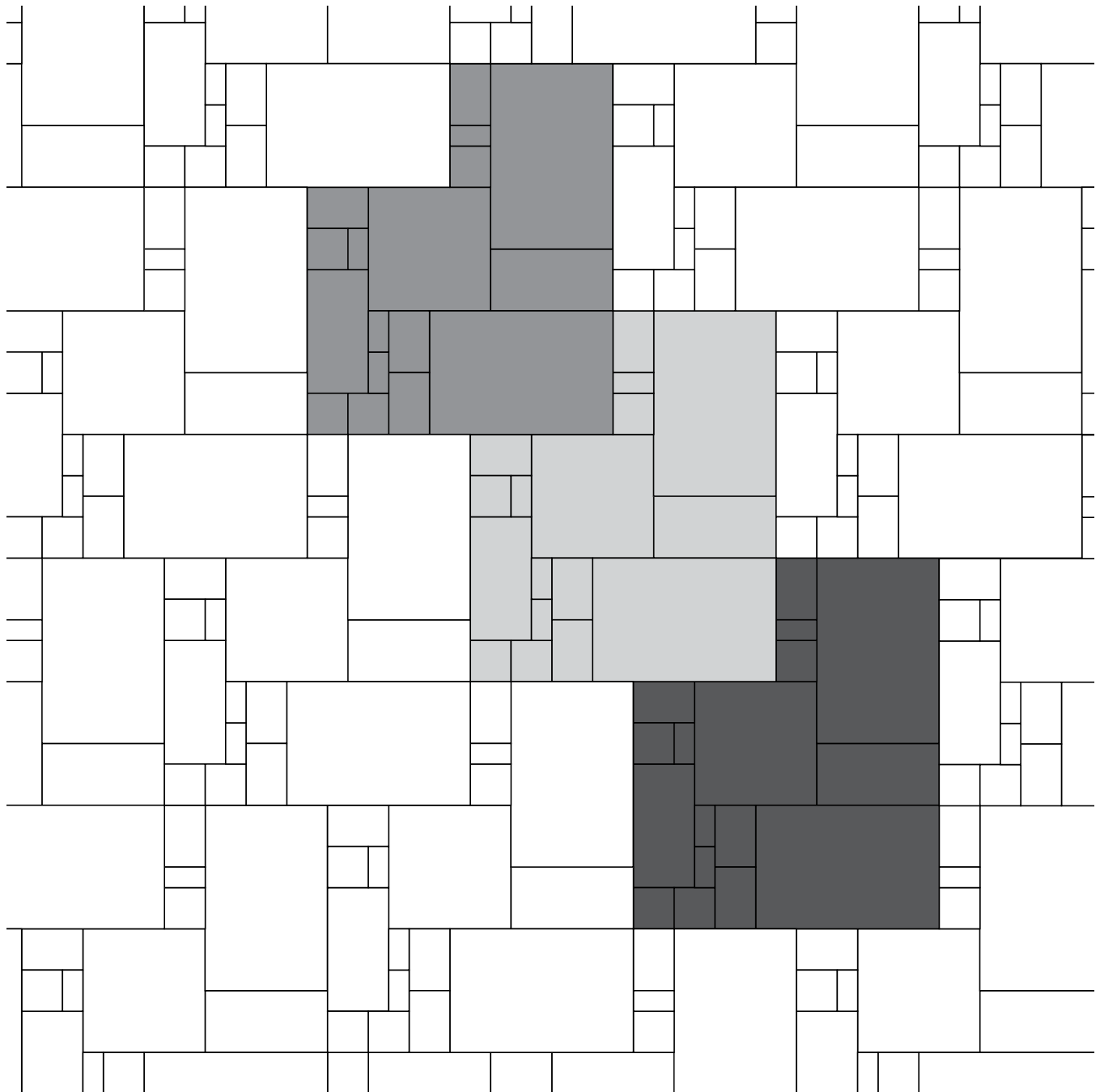
Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

Origins 6 - 35%\*

Origins 18 - 65%\*

\*Percentage of surface area (sq. ft)



### NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

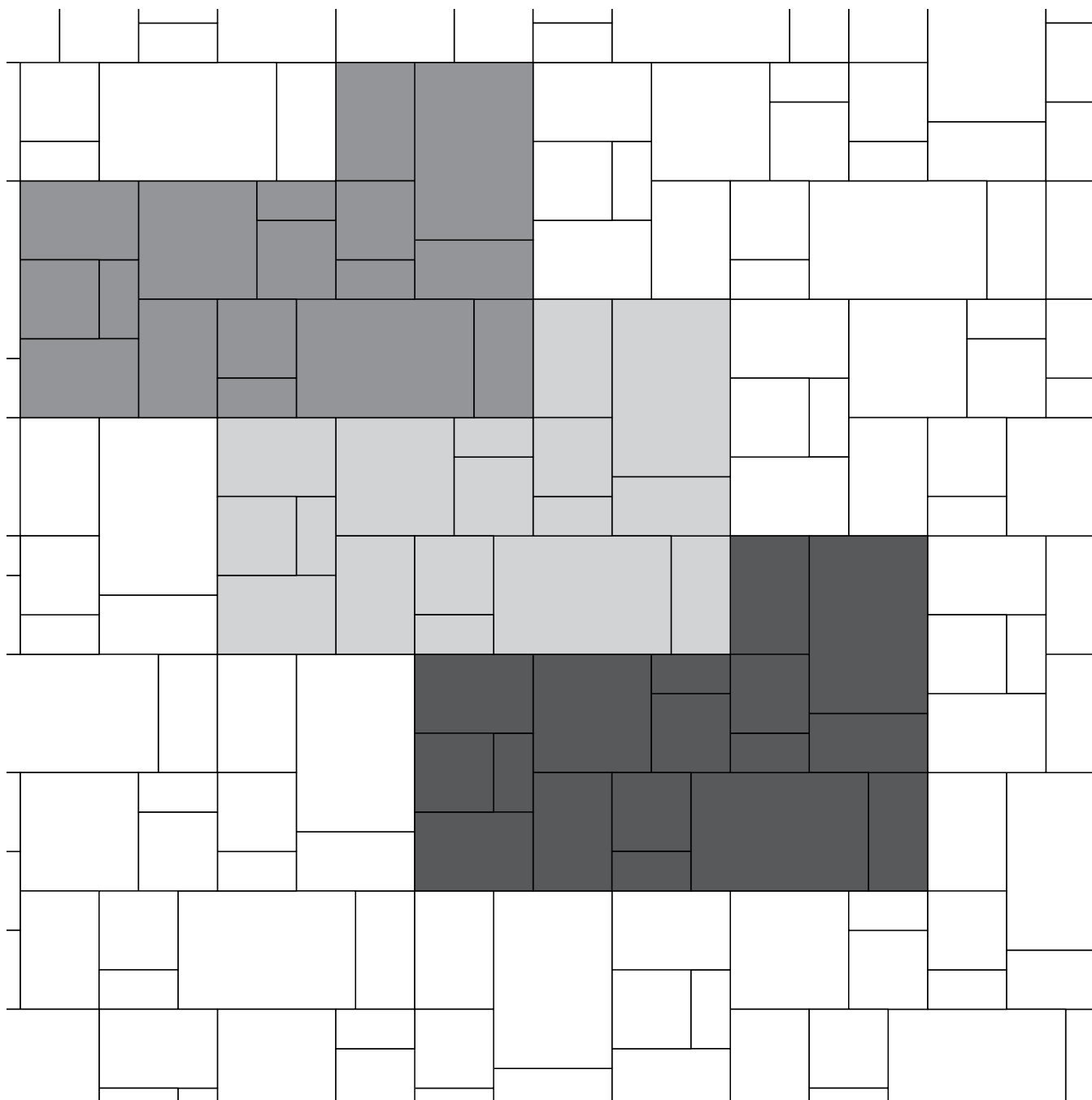
Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

Origins 12 - 52%\*

Origins 18 - 48%\*

\*Percentage of surface area (sq. ft)



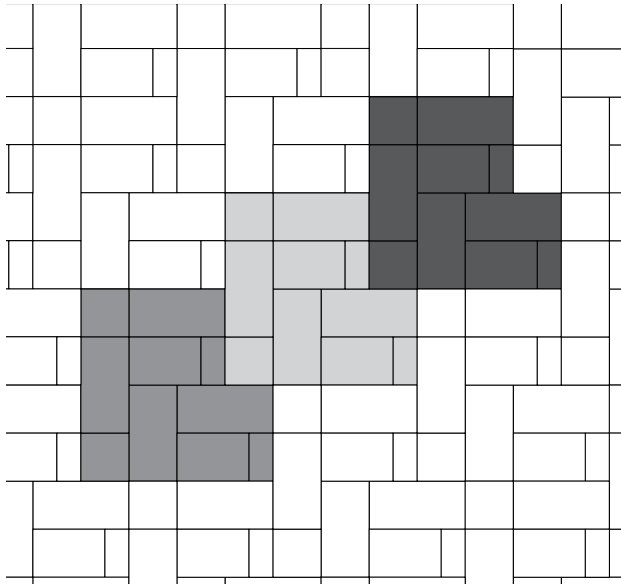
## NOTES:

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Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

## MIX PATTERN



Origins 12 x 24 - 57%\* | Origins 12 - 43%\*

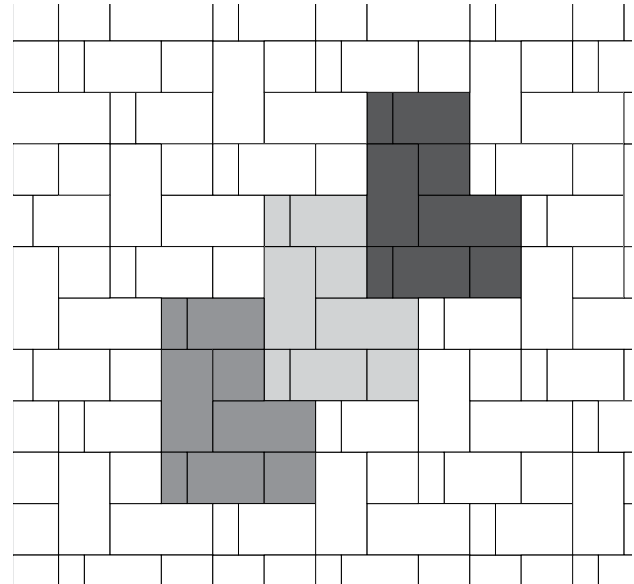
# ORIGINS™ 12X24 & 12



## MIX PATTERN

\*Percentage of surface area (sq. ft)

## MIX PATTERN



Origins 12 x 24 - 40%\* | Origins 12 - 60%\*

## NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

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Percentages are estimated based on area by paver.

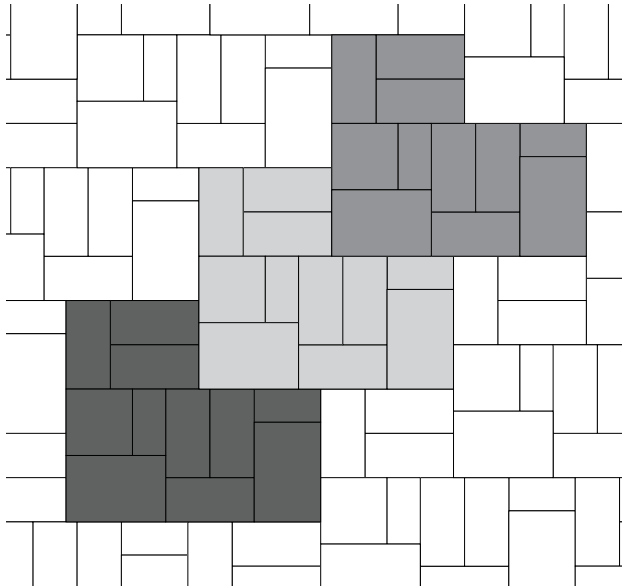
# ORIGINS™ 12X24 & 18



## MIX PATTERN

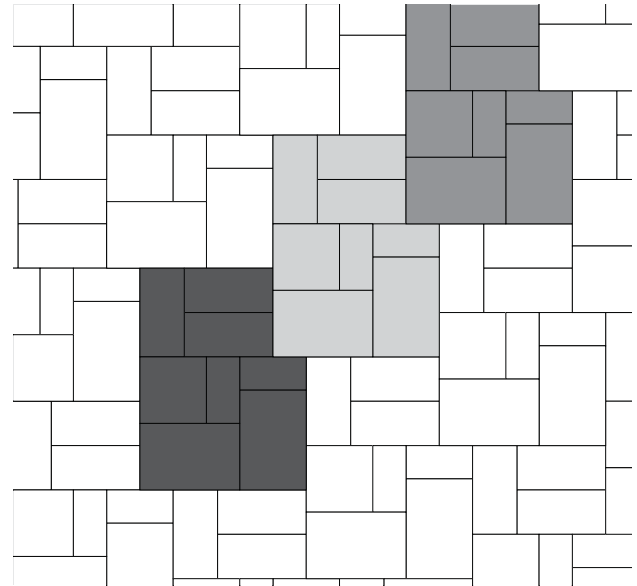
\*Percentage of surface area (sq. ft)

## MIX PATTERN



*Origins 12 x 24 - 52%\* | Origins 18 - 48%\**

## MIX PATTERN



*Origins 12 x 24 - 35%\* | Origins 18 - 65%\**

# PERMEABLE PAVERS

## PERMEABLE PAVER INSTALLATION GUIDE

53 Basic PICP Systems

## PERMEABLE PAVERS

54 Aqua Dublin

56 Aqualine™

60 Turfstone™

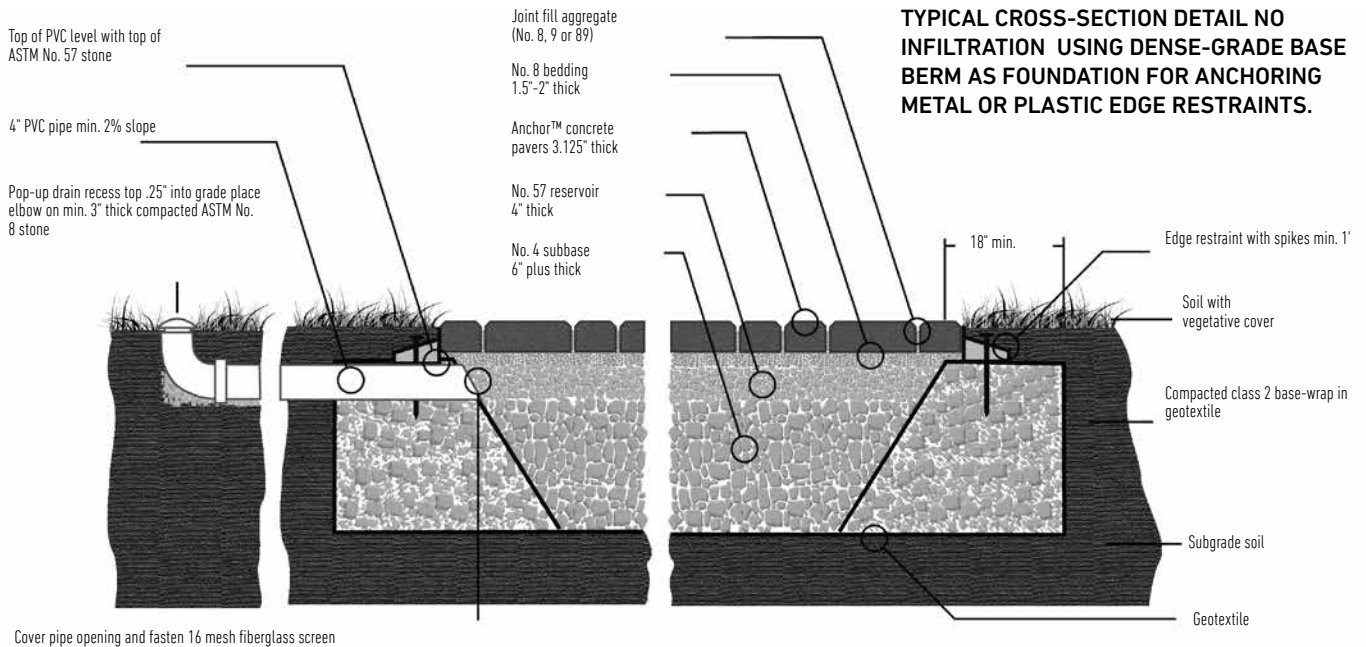
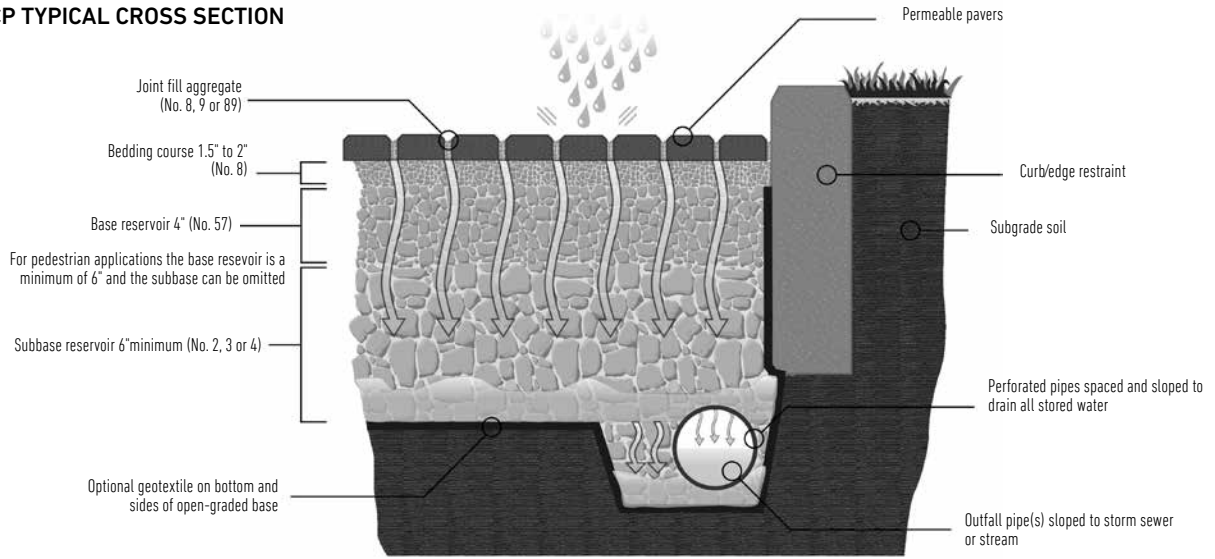
63 Urbana Stone®

For basic paver installation information  
visit [icpi.org](http://icpi.org)



# PERMEABLE INTERLOCKING CONCRETE PAVEMENT (PICP)






**PICP TYPICAL CROSS SECTION**





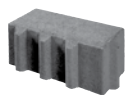
Scan for additional  
product information

*\*Special Order Only  
Contact your local Belgard representative for more information.*

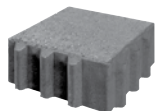
PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	FINISHES		
					SHOT BLAST	GROUND FACE	TUMBLED/ ANTIQUED
✓	✓	✓	✓	✓	✓*	✓*	✓*

## SHAPES & SIZES

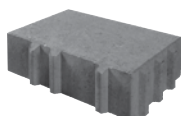
### 3-Piece



$3\frac{1}{2} \times 6\frac{1}{16} \times 3\frac{1}{8}$



$6\frac{1}{16} \times 6\frac{1}{16} \times 3\frac{1}{8}$



$6\frac{1}{16} \times 10\frac{1}{4} \times 3\frac{1}{8}$

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	-----------------	----------------	-------------------

### 3-PIECE

$3\frac{1}{2} \times 6\frac{1}{16} \times 3\frac{1}{8}$	20	2.5	–	120	15	6	712.8
$6\frac{1}{16} \times 6\frac{1}{16} \times 3\frac{1}{8}$	21.28	2.66	–	64	8	3	745.2
$6\frac{1}{16} \times 10\frac{1}{4} \times 3\frac{1}{8}$	51.12	6.39	–	104	13	2.03	1782
TOTAL	92.4	11.55	8	288	36	–	3240



Available for  
Mechanical Installation

#### NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

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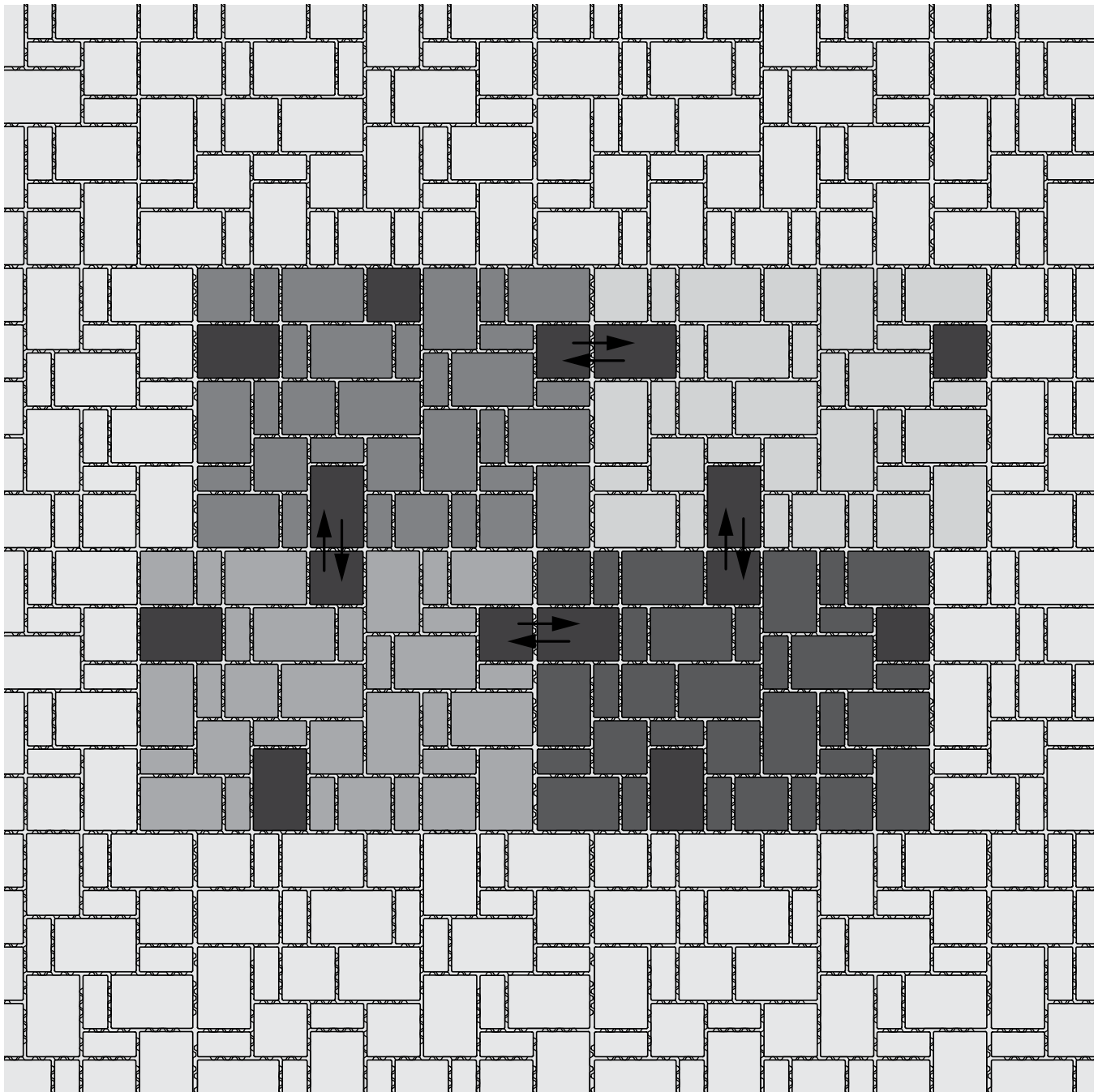
Percentages are estimated based on area by paver.

21%  $3\frac{1}{2} \times 6\frac{11}{16}$  Rectangles

23%  $6\frac{11}{16} \times 6\frac{11}{16}$  Squares

56%  $6\frac{11}{16} \times 10\frac{1}{4}$  Rectangles






Available for mechanical installation





Scan for additional  
product information

*\*Special Order Only  
Contact your local Belgard representative for more information.*

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA	FINISHES		
					SHOT BLAST	GROUND FACE	TUMBLED/ANTIQUED
✓	✓	✓	✓	✓	✓*	✓*	✓*

## SHAPES & SIZES

### 80mm



4½ x 9 x 3⅛

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
80MM							
4½ X 9 X 3⅛	90	11.25	8	320	40	3.55	3100

6.9% Voids/.025 CF/SF Infill  
ADA Compliant



Available for  
Mechanical Installation

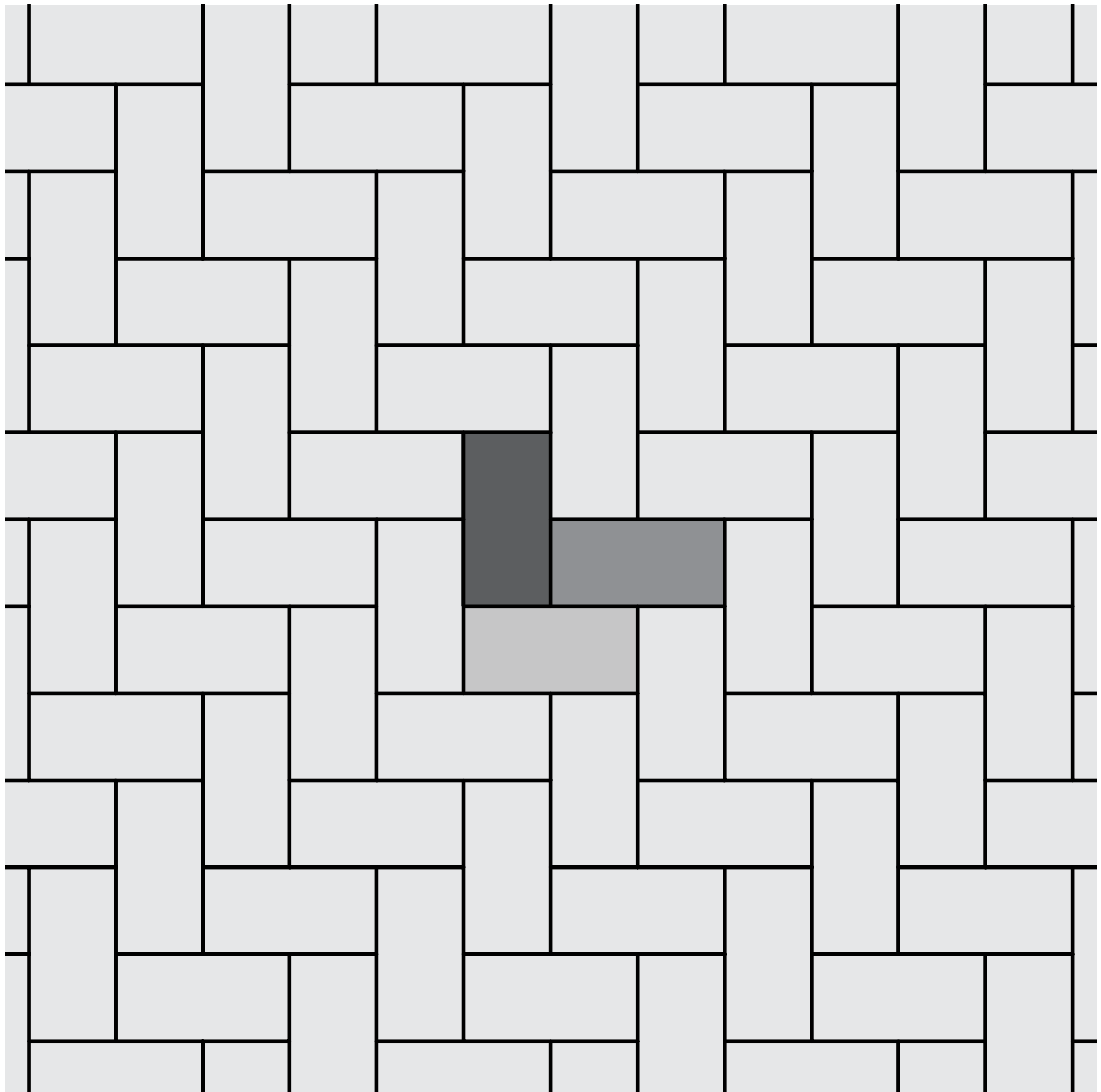
### NOTES:

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Percentages are estimated based on area by paver.

100% 4½ x 9 Rectangles



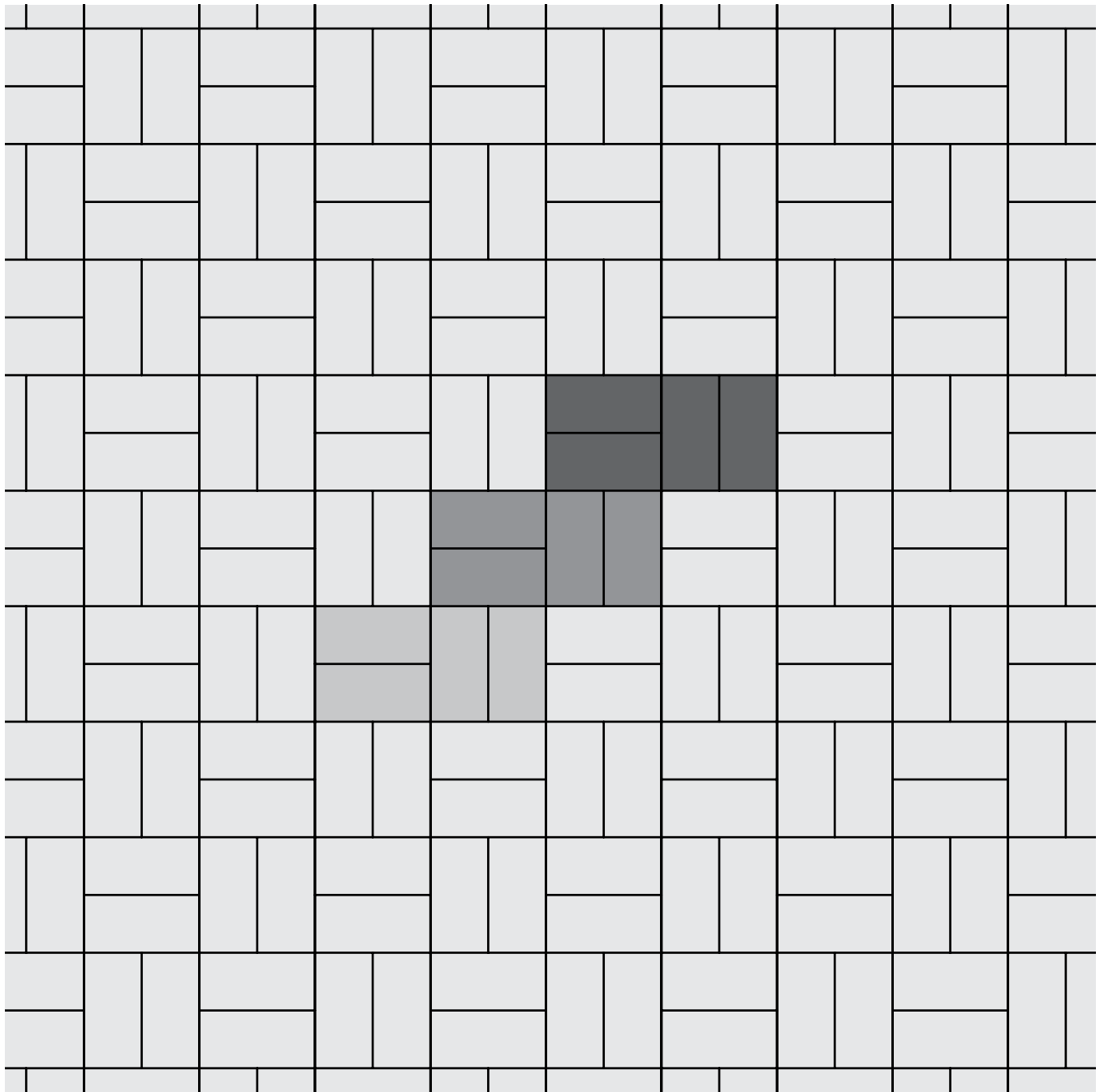
### NOTES:

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Percentages are estimated based on area by paver.

100% 4½ x 9 Rectangles



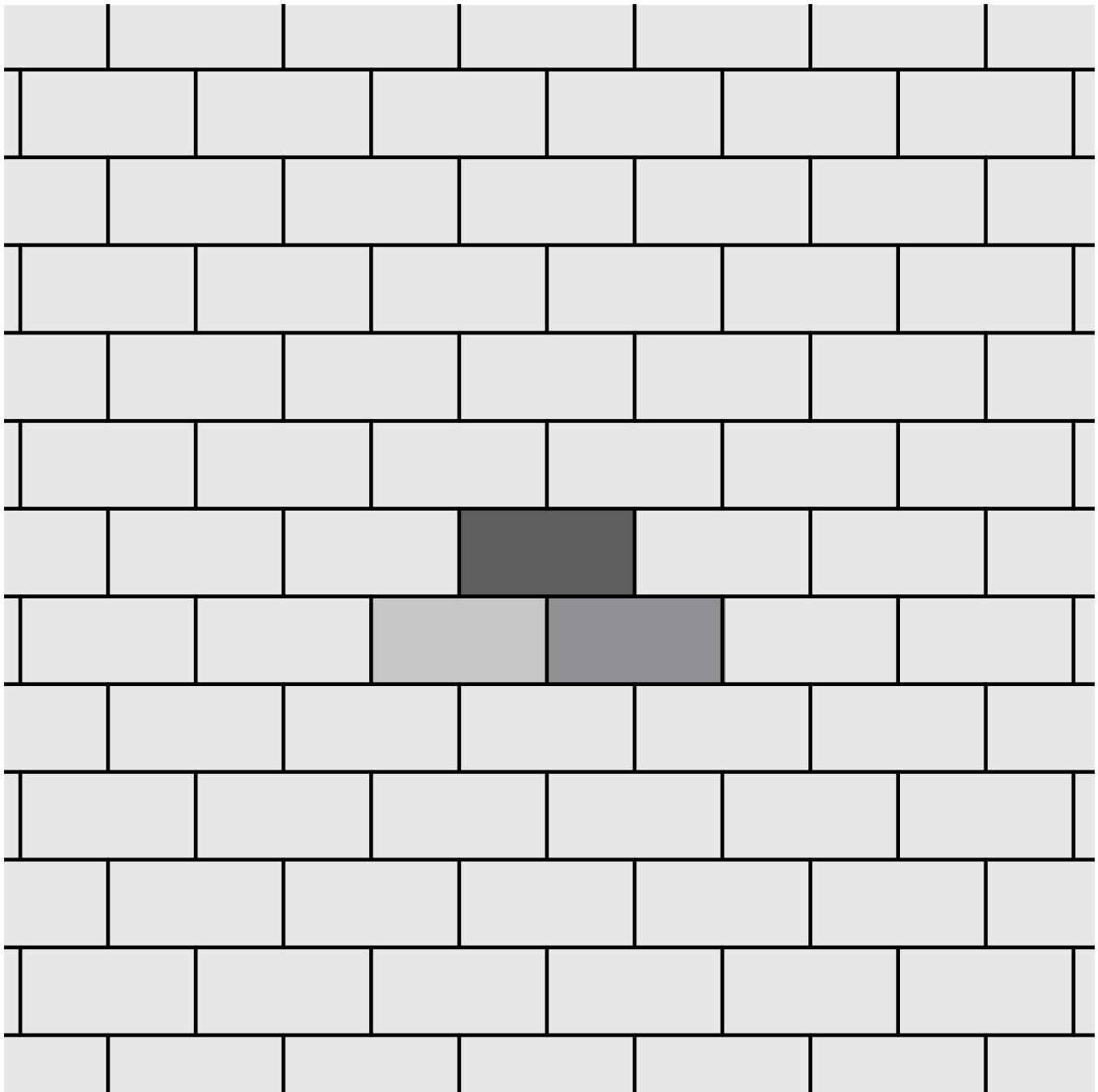
### NOTES:

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Percentages are estimated based on area by paver.

100% 4½ x 9 Rectangles





Scan for additional  
product information

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓	✓		✓	

## SHAPES & SIZES

### Turfstone



16 x 24 x 3 1/8

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
TURFSTONE							
16 x 24 x 3 1/8	101	10.1	10	40	4	0.38	2680



### NOTES:

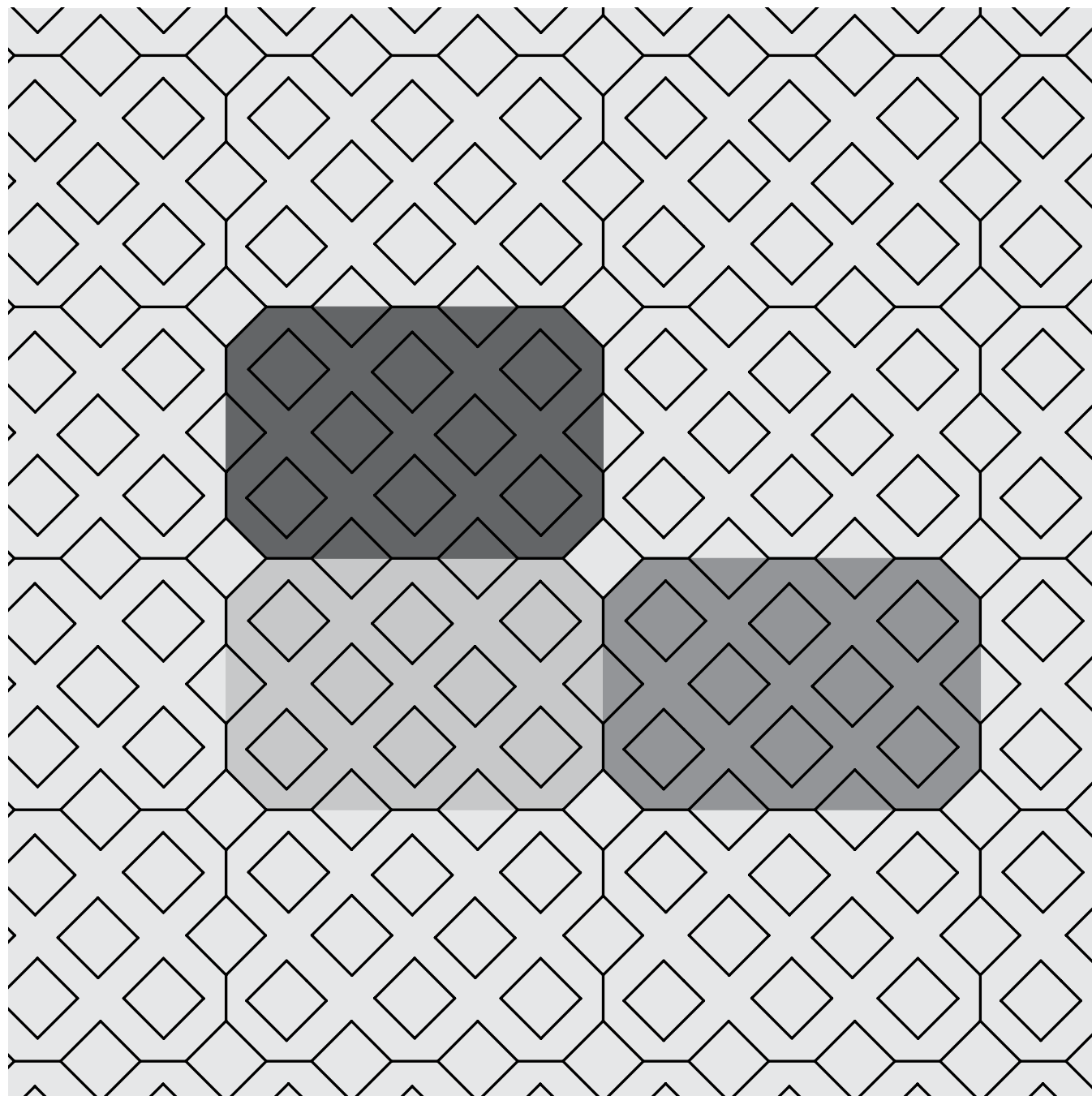
AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

Turfstone grid lines installed facing down.

## 100% 16 x 24 Pavers



### NOTES:

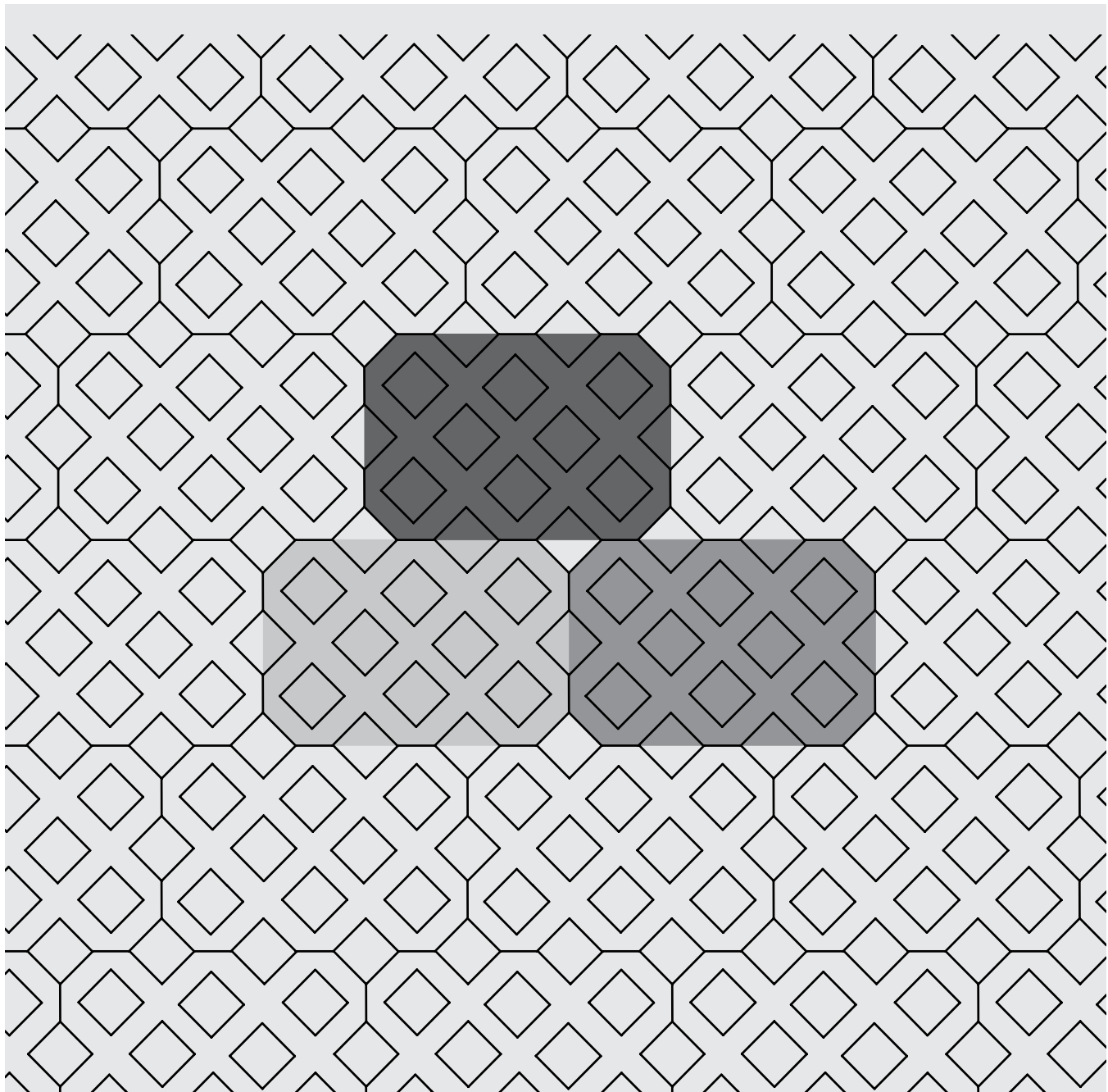
AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

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Percentages are estimated based on area by paver.






Turfstone grid lines installed facing down.

## 100% 16 x 24 Pavers



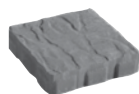


Scan for additional  
product information

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓	✓	✓**	✓*	

## SHAPES & SIZES

### 3-Piece Modular\*\*



4 x 8 x 2<sup>3</sup>/<sub>8</sub>

8 x 8 x 2<sup>3</sup>/<sub>8</sub>

8 x 12 x 2<sup>3</sup>/<sub>8</sub>

12 x 12 x 2<sup>3</sup>/<sub>8</sub>

\*\*Available in 80mm Special Order

\*Contact your Belgard Representative for  
Permeable application information

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	-----------------	----------------	-------------------

### 3-PIECE MODULAR | 60MM

4 X 8 X 2 <sup>3</sup> / <sub>8</sub>	19.4	1.94	–	90	9	4.64	523
8 X 8 X 2 <sup>3</sup> / <sub>8</sub>	38.8	3.88	–	90	9	2.32	1047
8 X 12 X 2 <sup>3</sup> / <sub>8</sub>	58.2	5.82	–	90	9	1.55	1570
TOTAL	116.4	11.64	10	270	27	–	3140

### 3-PIECE MODULAR | 80MM\*\*

4 X 8 X 3 <sup>1</sup> / <sub>8</sub>	17.46	1.94	–	81	9	4.64	628
8 X 8 X 3 <sup>1</sup> / <sub>8</sub>	34.92	3.88	–	81	9	2.32	1257
8 X 12 X 3 <sup>1</sup> / <sub>8</sub>	52.38	5.82	–	81	9	1.55	1885
TOTAL	104.76	11.64	9	108	27	–	3770

### LARGE SQUARE | 60MM

12 X 12 X 3 <sup>1</sup> / <sub>8</sub>	116.25	11.65	10	120	12	1	3140
---	--------	-------	----	-----	----	---	------

### LARGE SQUARE | 80MM\*\*

12 X 12 X 3 <sup>1</sup> / <sub>8</sub>	104.76	11.65	9	108	12	1	3770
---	--------	-------	---	-----	----	---	------

### NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

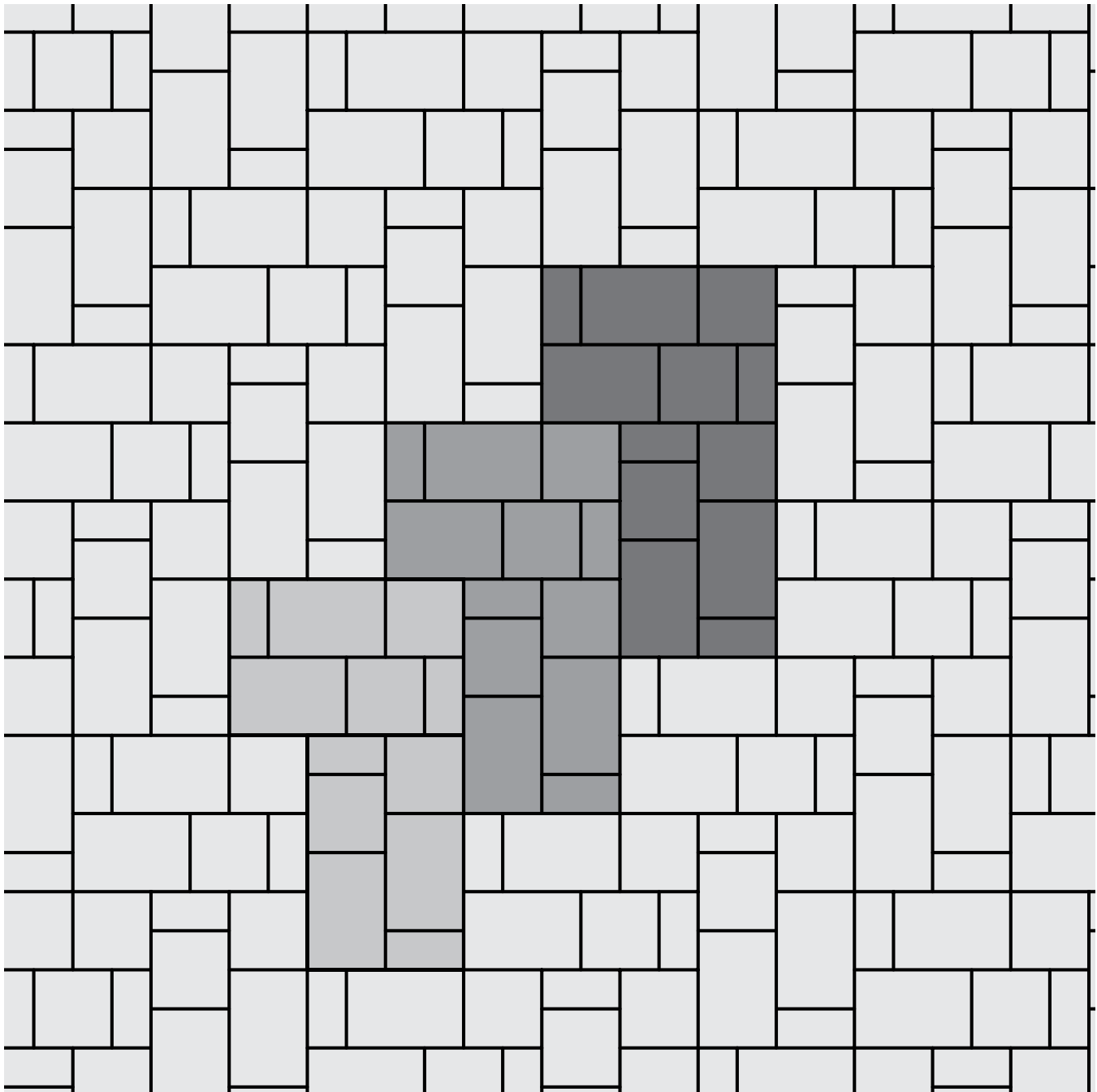
Some patterns may not necessarily reflect the percentages of stone sizes within a particular pallet. In some cases you may have extras in one or more of the sizes. This must be accounted for in your planning and design.

Percentages are estimated based on area by paver.

17% 4 x 8 Rectangles

33% 8 x 8 Squares

50% 8 x 12 Rectangles



### NOTES:

AutoCAD® hatch pattern files can be downloaded from [belgard.com](http://belgard.com) for use in architectural drawings.

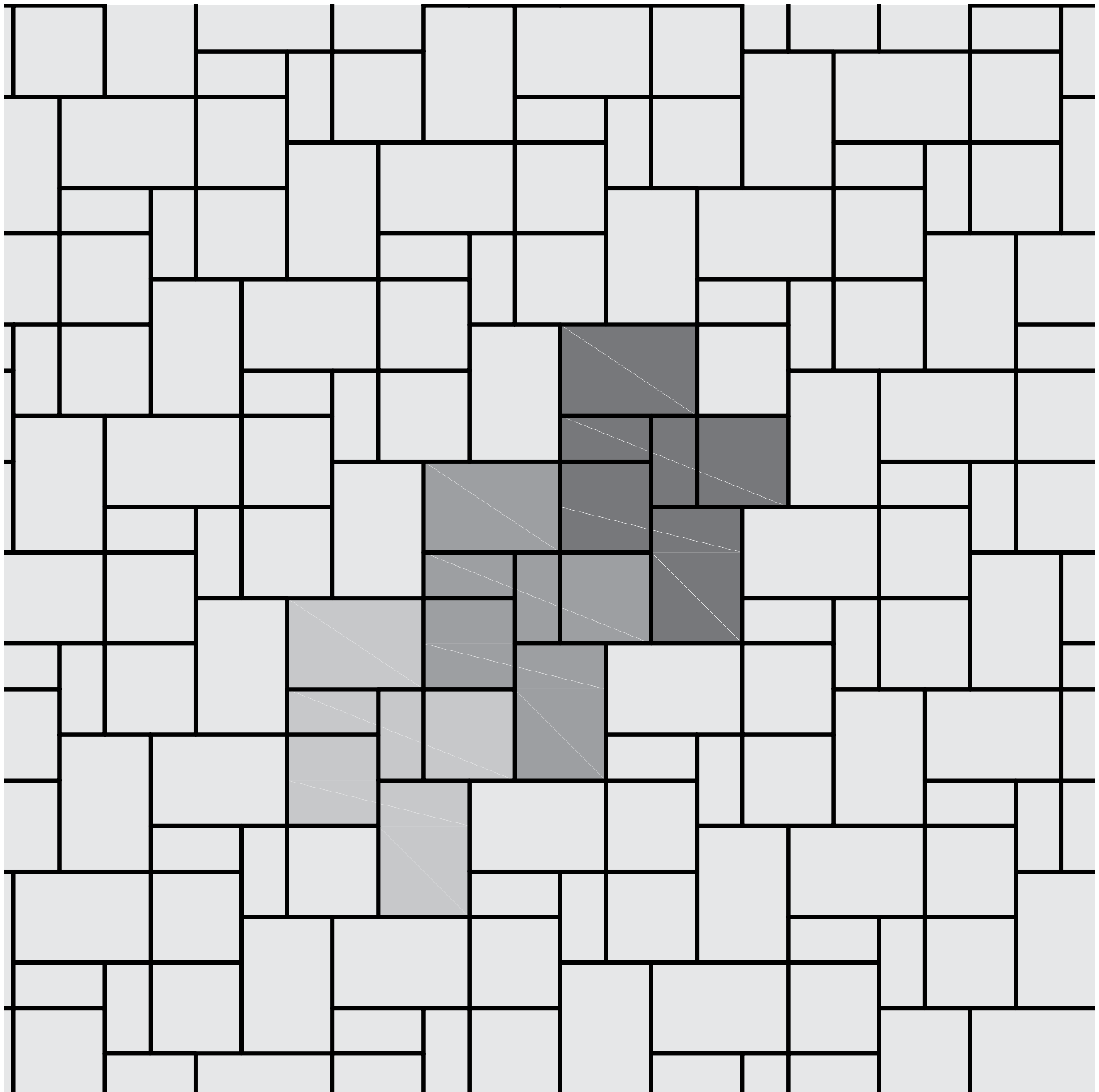
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Percentages are estimated based on area by paver.

17% 4 x 8 Rectangles

33% 8 x 8 Squares

50% 8 x 12 Rectangles



### NOTES:

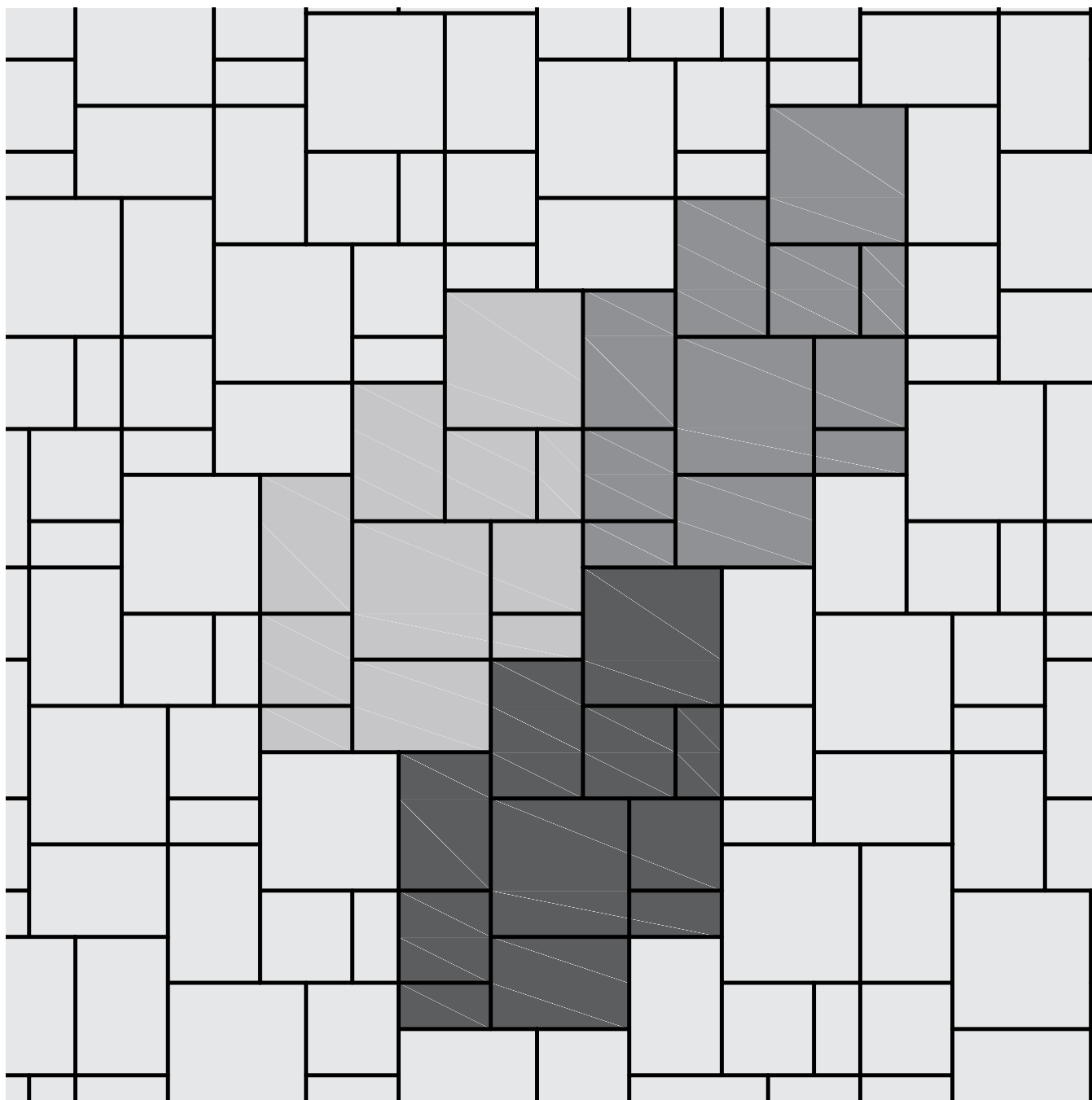
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Percentages are estimated based on area by paver.

80% 3-Piece

20% Large Square



# PORCELAIN PAVERS & PLANKS

## PORCELAIN INSTALLATION GUIDE

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## PORCELAIN PAVERS & PLANKS

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For basic paver installation information  
visit [icpi.org](http://icpi.org)



# PORCELAIN PAVERS

Belgard Porcelain Pavers are formed by pressing, followed by vitrification: this process involves the total fusion into a single material made from natural raw materials (sand, quartz, feldspars, kaolin, clays and inorganic pigments) which, fired at temperatures above 1226.67° C (2240° F), are transformed into a product with exceptional hardness, ultra-low absorption rate and unmatched mechanical characteristics. Belgard porcelain pavers are eco-compatible and ecolabel-certified. Each unit is 20mm (0.7874") standard thickness or ¾" nominal thickness and is durable enough to withstand use in exterior applications.

## PORCELAIN PAVERS ADVANTAGES:

- **Freeze thaw resistant**—They are 100% frost-free and their properties remain unaltered at temperatures ranging from -51.1° to + 60° C (-60° F to +140°F).
- **Color durability**—Color is fused by vitrification, becomes an integral part of the porcelain surface and is not affected by elements.
- **Easy installation**—Perfect fit and for fast installs.
- **Low absorption rate**—Spills, salt and other materials will not seep into pours.
- **Easy to clean**—Household cleaners can be used to wipe down spills and dirt; can even be pressure washed with a low pressure washing device\* (see pressure washing warning below).\*
- **Stylish**—Matches what homeowners are currently doing inside the home.
- **Durable**—High breakage loads of up to 3,587 lbs (1,627 kg) per foot based on ASTM-C648.
- **Resistant**—High compressive strength and ultra-low absorption rate creates a dense surface that resists mold, moss, dirt and other staining.
- **Skid-resistant**—Structured paver top textures create slip resistant surfaces for safety; perfect for around pools/spas or in wet climates.
- **Modular Design**—Superior accuracy in dimensional sizing and linear sides, the slabs allow for perfectly executed installations with tight and accurate lines.
- **Light weight**—16.8 kg (37 lbs) for the 24"x24" paver permit for easy installation, removal and serviceability and even reusability (Excluding adhered installations).
- Available in colors that have an SRI that qualifies for a LEED certification. The SRI on some units ranges between 60-80. To receive LEED credit, the SRI must be at least 29.
- **Impermeable**—Deicing salt and other deicing materials can be used without concern of damage.

\* It is important that all pressure washing of your porcelain pavers be done with a low pressure washer with a maximum of 1600 psi and nothing more powerful. When pressure washing your installation, care should be taken to prevent damage to the grout (adhesive and grout installations) and some re-sanding will be necessary when power washing an installation with sand or polymeric sand joints.

## SPECIALTY TOOLS FOR PORCELAIN PAVER CONSTRUCTION:

- Wet cut tile saw equipped with a diamond blade manufactured for wet cutting porcelain.  
The saw should be designed to safely cut a 24 inch length porcelain paver.
- A paver clamp for easy handling, which can be used to both install and remove pavers.
- The use of gloves is highly recommended while handling and installing porcelain slabs.
- Appropriate notched trowels and grout float tools for cementitious adhesive and grout installation. The appropriate tool selection would be based on the adhesive and grout manufacturer's recommendation
- Pallets of porcelain pavers are manufactured and shipped with a Heavy Duty plastic protective pallet cover and the individual porcelain pavers are packaged in protective cardboard boxes. To prevent damage to your pavers, do not remove the protective cardboard boxes until you are ready to install them.
- Caution: Removing pavers from their protective packaging and handling multiple loose stones together creates the possibility for chipping.

Once the Heavy Duty plastic pallet covers have been removed from the pallet, the unused boxed pavers should be protected from the elements to insure the integrity of the protective cardboard boxes.



## CLEANING & MAINTENANCE FOR PORCELAIN PRODUCTS

Post-laying cleaning is obligatory after on site works. Inadequate or late removal of the grouting used on the joints can leave marks difficult to remove and create, on the flooring, a cement film able to absorb all types of dirt, thus giving the impression that it is the material that has become dirty.

It is indispensable to dissolve and remove these residues completely using buffered acids diluted in water (follow the instructions on the packs of the products used), which must then be removed completely and quickly, rinsing the floor with plenty of water to avoid residues or drops on the floor which could damage the tiles.

Allow the product to act on the wet floor, without letting it dry and rubbing it with colorless rags. Next, rinse it thoroughly with water to ensure that the floor is free of detergent residues. If necessary, repeat the operation.

We suggest performing a preliminary wash on a sample surface of a few square meters; if the test is successful, extend clearing over the entire surface. When you have done the above wash, carry out a basic or alkaline wash using degreasing detergents. This is because acid can leave grease on the floor, which could contribute to retaining dirt.

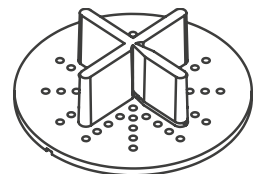
## PORCELAIN PAVER INSTALLATION

Each of the following option details will include specific information relative to the selected installation. Base thicknesses vary between different geographical and climatic locations and the contractor will be installing typical base thicknesses for paving installations in their location.

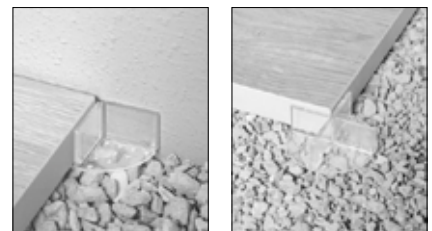
Installing porcelain pavers requires the bedding course sand to be pre-compacted and then struck off with a screed to the required thickness as shown in the detail drawings. The porcelain pavers are not compacted and therefore the sand layer beneath them requires pre-compaction. Do not compact dry sand, but insure the sand has a 5 to 6% moisture content so that it will compact cohesively and allow for a smooth strike off finish.

### INSTALLATION INFORMATION THAT MUST BE FOLLOWED :

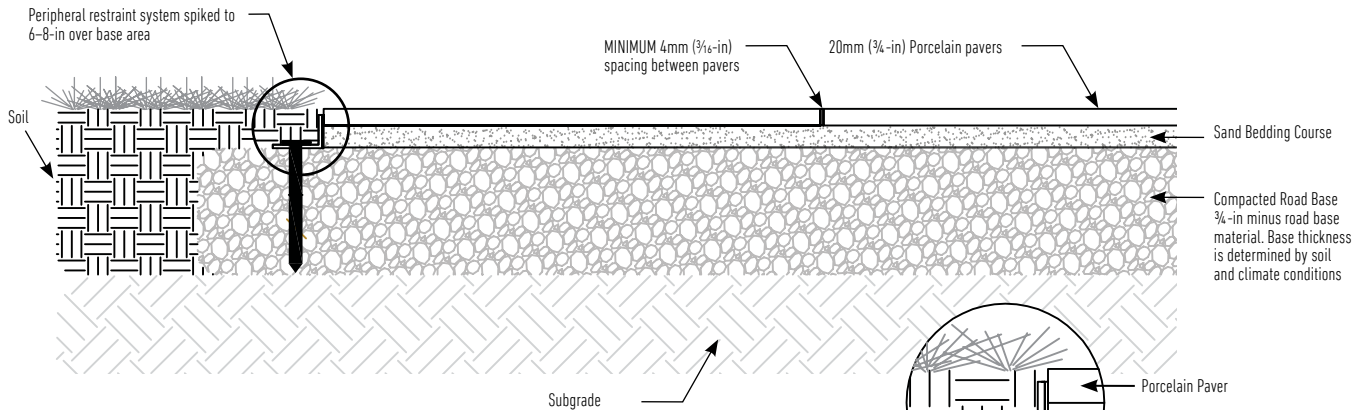
- Weather, soil type and job conditions should be considered when choosing the best installation method.
- When installing porcelain planks (12 x 48, 8 x 48) always lay the pattern of the 1/3s. These should not be placed next to each other at 50%
- NEVER compact porcelain pavers with a plate compactor. Roller compactor recommended for all compaction with porcelain products
- ALWAYS pre-compact and strike off your sand leveling course before installing your porcelain pavers in sand set installations.
- A proper surface drainage system is required to mitigate standing water. Please consider that Belgard Porcelain Paves are impervious, therefore water must be properly discharged and drained away from the pavement.
- Porcelain pavers should only be wet cut with a tile saw equipped with a wet cut porcelain blade.
- NEVER install porcelain pavers without the required 4mm spacing between them. The porcelain pavers should never be installed with a porcelain to porcelain contact. Plastic 4mm spacers (shown at right) should be used on Sand Set and Permeable installations. The photo on the left illustrates the spacer installed in a perspective to support and space 4 paver corners and the photo on the right illustrates the installed spacer snapped apart (as designed) to form Space T that supports 2 paver corners. This versatility will permit your porcelain pavers to be installed in a stack bond pattern, a running bond patterns as well as a flush installation against another structure.
- For a 100 sf. project, approximately 34 spacers are needed; this allows for overages if needed.



4mm spacers



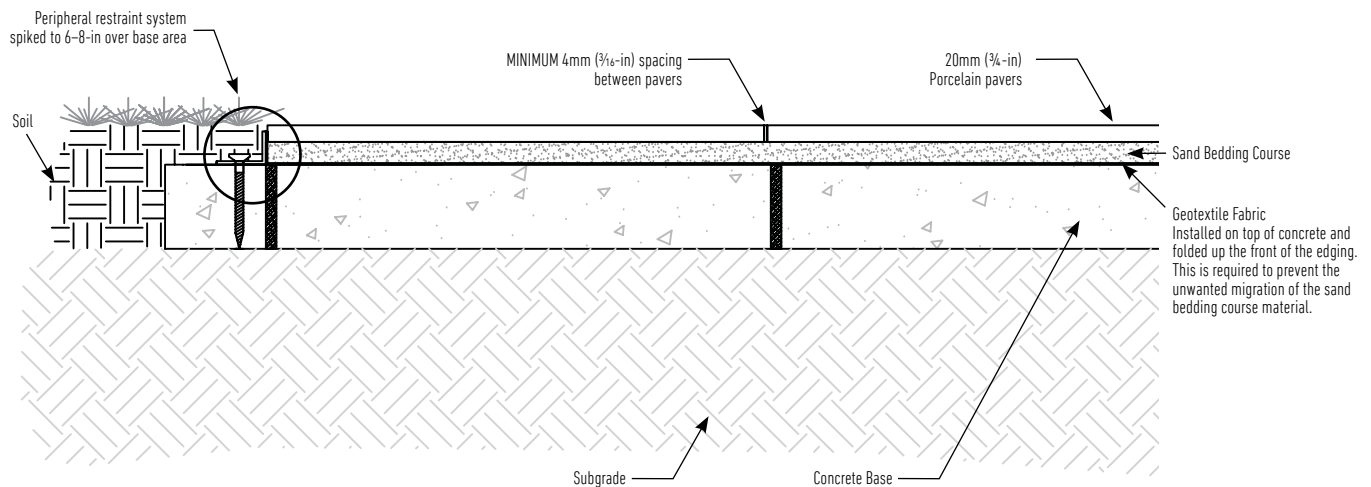
## SAND SET OVER COMPACTED ROAD BASE INSTALLATION (PEDESTRIAN FOOT TRAFFIC)



### INSTALLATION NOTES:

- Weather, soil type and job conditions should be considered when choosing the best installation method.
- Follow the detailed drawing above
- Base material is to be over based 6 to 8 inches beyond the edge of the pavement.
- Precompact the sand bedding course and screed to 1-in thickness with smooth surface
- The required edge restraint system is a low profile edge restraint with a vertical height of 1 1/2-in as shown in the drawing.
- Insure that pavement is constructed with a 1 1/2 to 2% slope that it is pitched away from any building.
- Insure the plastic 4mm spacers are installed at all corners of the installed pavers

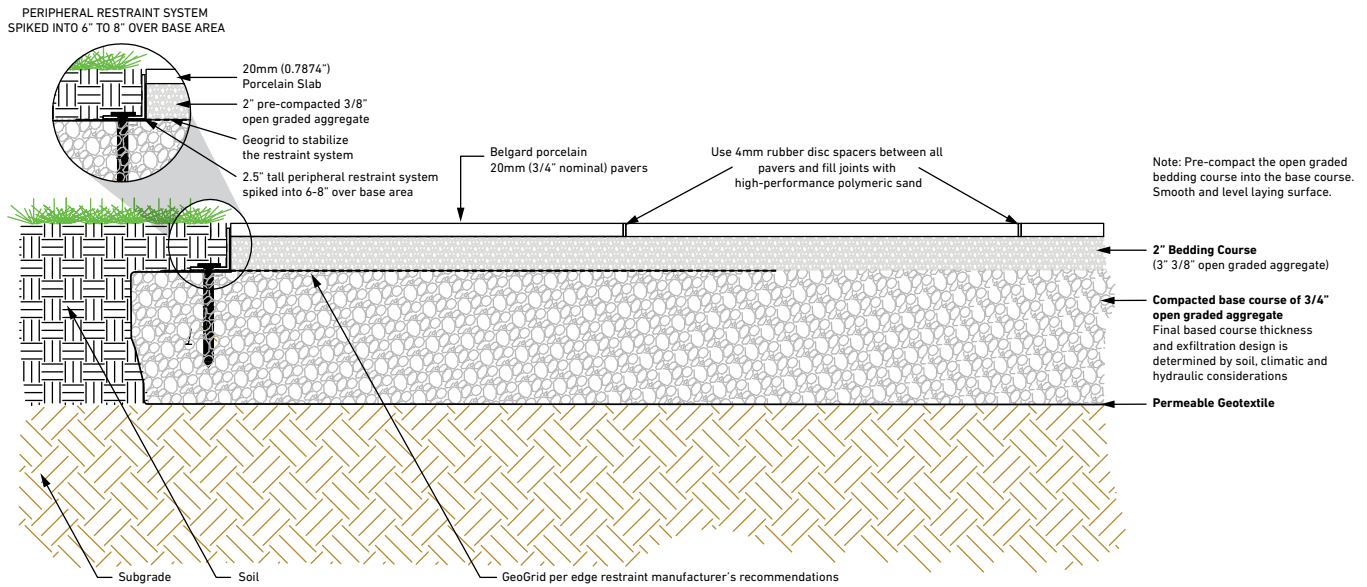
## SAND SET OVER CONCRETE OVERLAY INSTALLATION (PEDESTRIAN FOOT TRAFFIC)



### INSTALLATION NOTES:

- Weather, soil type and job conditions should be considered when choosing the best installation method.
- A concrete curb with a full depth and finished height is needed to ensure full containment of the bedding sand and the Belgard Porcelain Pavers.
- Precompact the sand bedding course and screed to 1-in thickness with smooth surface
- Mechanically anchor edge restraint into the concrete base.
- Insure geotextile is installed directly on top of the concrete to contain the bedding sand.
- Insure that pavement is constructed with a 1 1/2 to 2 percent slope and that it is pitched away from any building.
- Insure the plastic 4mm spacers are installed at all corners of the installed pavers.

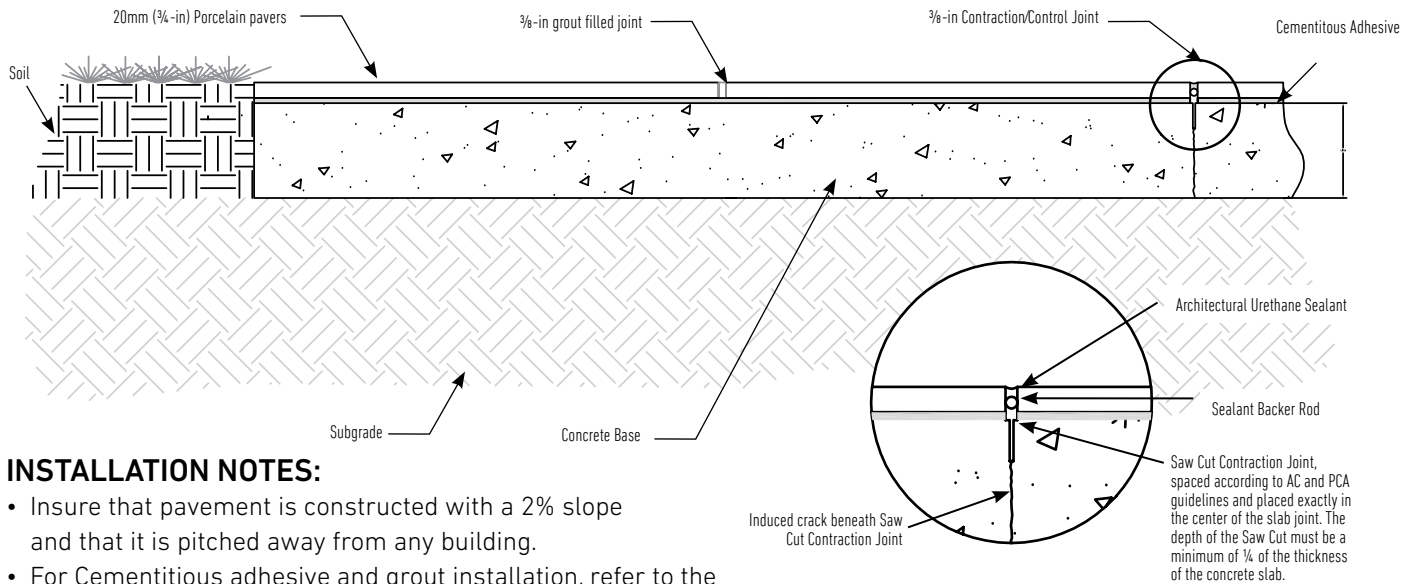
## GRAVEL SET OVER OPEN GRADED AGGREGATE INSTALLATION



### INSTALLATION NOTES:

- Weather, soil type and job conditions should be considered when choosing the best installation method. Follow the detail drawing.
- The required edge restraint system for this installation has a vertical height of 2½ inches as shown in the drawing. Follow the edge restraint manufacturer's recommendations for the use of their product in permeable applications regarding geogrid usage and placement to maintain the performance of there edging.
- Ensure that pavement is constructed with a 2% slope and that it is pitched away from any building.
- Ensure the 4mm spacers are installed between all pavers.
- The open-graded aggregate should be clean and free from foreign matter, manufactured from crushed rock and conform to ASTM C33 size No. 57. Do not use recycled aggregates or rounded river gravel.
- Additional Drainage: If the project has fine-grained soils, silts or clays, and contributing water sources such as downspouts or groundwater, it is important to install a perforated pipe underdrain to prevent saturation of the subgrade. Make sure underdrain has an acceptable discharge location.
- When installing porcelain planks (12 x 48 & 8 x 48), always lay the pattern of 1/3's. These should not be placed next to each other at 50%.
- Roller Compactor recommended for all compaction with Porcelain products

## CEMENTITIOUS ADHESIVE OVERLAY, CONCRETE BASE INSTALLATION (LIGHT VEHICULAR TRAFFIC)

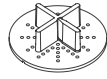


### INSTALLATION NOTES:

- Insure that pavement is constructed with a 2% slope and that it is pitched away from any building.
- For Cementitious adhesive and grout installation, refer to the manufacturer's technical instructions and specifically as they relate to outdoor installations.
- For concrete foundation slabs that are not large enough to require contraction / control joints, a minimum 4mm (1/8" to 3/16") grout joint is acceptable, but for larger concrete foundation slabs that do require contraction / control joints, the joint width should be a 3/8". It is absolutely imperative that all contraction / control joints be located in the joint line of installed porcelain pavers and not beneath a paver.
- Caution: If a Porcelain Paver is installed over a control joint, the paver will reflectively crack along the contraction / control joint beneath it.



Scan for additional  
product information



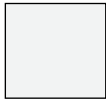
Spacers are recommended for all porcelain paver installations.  
PLEASE NOTE: For vehicular applications, must be a mortar install over a concrete slab.  
Please refer to the MIRAGE install guide for driveway install procedure.

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
✓	✓*			✓

\*Porcelain must be wet laid on concrete and concrete must be designed by an engineer to support the traffic load that will be imposed.

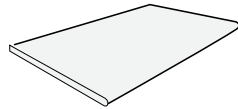
## SHAPES & SIZES

### 24 X 24\*



23.54 x 23.54 x 3/4

### Unico

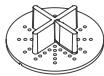


12.99 x 23.54 x 3/4

UNIT	SQFT/ PALLET	PCS/ BOX	SQFT/ BOX	BOXES/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
24 X 24*							
23.54 X 23.54 X 3/4	232.5	2	7.75	30	—	—	2160
UNICO							
12.99 X 23.54 X 3/4	240 LF	3	6 LF	40	—	—	2080



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product information



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PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
✓	✓*			✓

\*Porcelain must be wet laid on concrete and concrete must be designed by an engineer to support the traffic load that will be imposed.

## SHAPES & SIZES

### 24 X 24

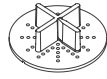


23.54 x 23.54 x 3/4

UNIT	SQFT/ PALLET	PCS/ BOX	SQFT/ BOX	BOXES/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
24 X 24							
23.54 X 23.54 X 3/4	275.04	2	7.64	36	—	—	2533.8



Scan for additional  
product information



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PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
✓	✓*			✓

\*Porcelain must be wet laid on concrete and concrete must be designed by an engineer to support the traffic load that will be imposed.

## SHAPES & SIZES

12 X 24



11.73 x 23.54 x 3/4

24 X 24\*

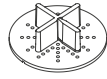


23.54 x 23.54 x 3/4

UNIT	SQFT/ PALLET	PCS/ BOX	SQFT/ BOX	BOXES/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
12 X 24							
11.73 X 23.54 X 3/4	303.6	4	7.59	40	—	—	2807
24 X 24*							
23.54 X 23.54 X 3/4	275.04	2	7.64	36	—	—	2533.8



Scan for additional  
product information



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PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
✓	✓*			✓

\*Porcelain must be wet laid on concrete and concrete must be designed by an engineer to support the traffic load that will be imposed.  
\*\*Special Order

## SHAPES & SIZES

### 24 X 24\*



23.54 x 23.54 x 3/4

### 24 x 48



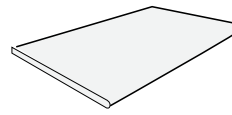
23.54 x 47.17 x 3/4

### 48 x 48\*\*



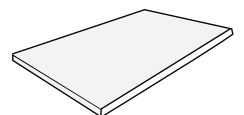
47.17 x 47.17 x 3/4

### Unico



12.99 x 23.54 x 3/4

### Step Edge



12.99 x 23.54 x 3/4

UNIT	SQFT/ PALLET	PCS/ BOX	SQFT/ BOX	BOXES/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
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### 24 X 24\*

23.54 X 23.54 X 3/4	232.5	2	7.75	30	—	—	2160
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### 24 X 48

23.54 X 47.17 X 3/4	271.25	1	7.75	35	—	—	2621
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### 48 X 48\*\*

47.17 X 47.17 X 3/4	279	1	15.5	18	—	—	2774.2
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### UNICO & STEP EDGE

12.99 X 23.54 X 3/4	240 LF	3	6 LF	40	—	—	2080
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Scan for additional  
product information

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓				✓

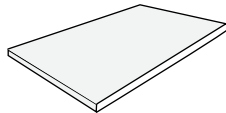
## SHAPES & SIZES

### 12 x 48



11.73 x 47.17 x 3/4

### Step Edge



12.99 x 23.54 x 3/4

UNIT	SQFT/ PALLET	PCS/ BOX	SQFT/ BOX	BOXES/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
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### 12 X 48

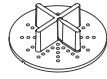
11.73 x 47.17 x 3/4	279	2	7.75	36	–	–	2664
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### STEP EDGE






12.99 X 23.54 X 3/4	240 LF	3	6 LF	40	–	–	2080
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Scan for additional  
product information



Spacers are recommended for all porcelain paver installations.  
Please refer to the MIRAGE install guide for driveway install procedure.

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
				
✓				✓

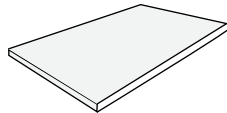
## SHAPES &amp; SIZES

## 24 X 48



23.54 x 47.17 x  $\frac{3}{4}$

## Step Edge

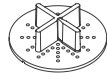


12.99 x 23.54 x  $\frac{3}{4}$

UNIT	SQFT/ PALLET	PCS/ BOX	SQFT/ BOX	BOXES/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
24 X 48							
23.54 X 47.17 X $\frac{3}{4}$	271.25	1	7.75	35	–	–	2621
STEP EDGE							
12.99 X 23.54 X $\frac{3}{4}$	240 LF	3	6 LF	40	–	–	2080



Scan for additional  
product information



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PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
✓				✓

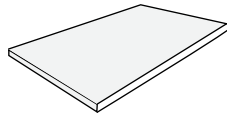
## SHAPES & SIZES

### 31.5 x 31.5



23.54 x 23.54 x 3/4

### Step Edge



12.99 x 23.54 x 3/4

UNIT	SQFT/ PALLET	PCS/ BOX	SQFT/ BOX	BOXES/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
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### 31.5 X 31.5

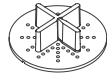
31.5 X 31.5 X 3/4	288.96	1	6.88	42	–	–	2750
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### STEP EDGE

12.99 X 23.54 X 3/4	240 LF	3	6 LF	40	–	–	2080
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Scan for additional  
product information



Spacers are recommended for all porcelain paver installations.  
PLEASE NOTE: For vehicular applications, must be a mortar install over a concrete slab.  
Please refer to the MIRAGE install guide for driveway install procedure.

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
✓	✓*			✓

\*Porcelain must be wet laid on concrete and concrete must be designed by an engineer to support the traffic load that will be imposed.

## SHAPES & SIZES

### 24 X 24

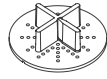


23.54 x 23.54 x 3/4

UNIT	SQFT/ PALLET	PCS/ BOX	SQFT/ BOX	BOXES/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
24 X 24							
23.54 x 23.54 x 3/4	232.5	2	7.75	30	—	—	2160



Scan for additional  
product information

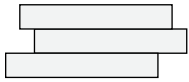


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Please refer to the MIRAGE install guide for driveway install procedure.

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
✓				✓

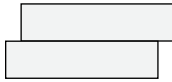
## SHAPES & SIZES

### 8 x 48



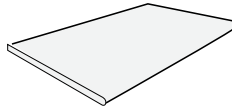
7.80 x 47.17 x 3/4

### 12 x 48



11.73 x 47.17 x 3/4

### Unico

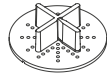


12.99 x 23.54 x 3/4

UNIT	SQFT/ PALLET	PCS/ BOX	SQFT/ BOX	BOXES/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
8 X 48							
7.80 x 47.17 x 3/4	151.8	2	5.06	30	–	–	1380
12 X 48							
11.73 x 47.17 x 3/4	279	2	7.75	36	–	–	2664
UNICO							
12.99 X 23.54 X 3/4	240 LF	3	6 LF	40	–	–	2080



Scan for additional  
product information



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PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
✓	✓*			✓

\*Porcelain must be wet laid on concrete and concrete must be designed by an engineer to support the traffic load that will be imposed.  
\*\*Special Order

## SHAPES & SIZES

12 x 24



11.73 x 23.54 x 3/4

18 x 36\*\*



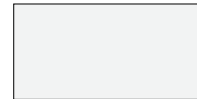
17.64 x 35.35 x 3/4

24 x 24\*



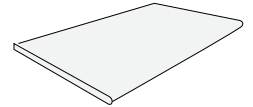
23.54 x 23.54 x 3/4

24 x 48



23.54 x 47.17 x 3/4

Unico

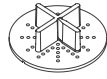


12.99 x 23.54 x 3/4

UNIT	SQFT/ PALLET	PCS/ BOX	SQFT/ BOX	BOXES/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
12 X 24							
11.73 X 23.54 X 3/4	232.4	3	5.81	40	—	—	2178
18 X 36**							
17.64 X 35.35 X 3/4	234.9	2	8.7	27	—	—	2198
24 X 24*							
23.54 X 23.54 X 3/4	232.5	2	7.75	30	—	—	2160
24 X 48							
23.54 X 47.17 X 3/4	271.25	1	7.75	35	—	—	2621
UNICO							
12.99 X 23.54 X 3/4	240 LF	3	6 LF	40	—	—	2080



Scan for additional  
product information



Spacers are recommended for all porcelain paver installations.  
PLEASE NOTE: For vehicular applications, must be a mortar install over a concrete slab.  
Please refer to the MIRAGE install guide for driveway install procedure.

PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
✓	✓*			✓

\*Porcelain must be wet laid on concrete and concrete must be designed by an engineer to support the traffic load that will be imposed.

## SHAPES & SIZES

### 24 x 24\*



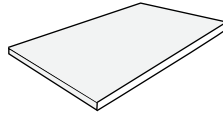
23.54 x 23.54 x 3/4

### 24 x 48



23.54 x 47.17 x 3/4

### Step Edge

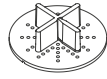


12.99 x 23.54 x 3/4

UNIT	SQFT/ PALLET	PCS/ BOX	SQFT/ BOX	BOXES/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
24 X 24*							
23.54 X 23.54 X 3/4	232.5	2	7.75	30	—	—	2160
24 X 48							
23.54 X 47.17 X 3/4	271.25	1	7.75	35	—	—	2621
STEP EDGE							
12.99 X 23.54 X 3/4	240 LF	3	6 LF	40	—	—	2080



Scan for additional  
product information



Spacers are recommended for all porcelain paver installations.  
PLEASE NOTE: For vehicular applications, must be a mortar install over a concrete slab.  
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PEDESTRIAN	LIGHT/REGULAR TRAFFIC	HEAVY TRAFFIC	PERMEABLE	ADA
✓	✓*			✓

\*Porcelain must be wet laid on concrete and concrete must be designed by an engineer to support the traffic load that will be imposed.

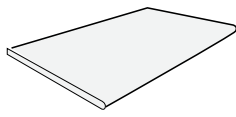
## SHAPES & SIZES

### 24 x 24\*



23.54 x 23.54 x 3/4

### Unico



12.99 x 23.54 x 3/4

UNIT	SQFT/ PALLET	PCS/ BOX	SQFT/ BOX	BOXES/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
24 X 24*							
23.54 X 23.54 X 3/4	232.5	2	7.75	30	–	–	2160
UNICO							
12.99 X 23.54 X 3/4	240 LF	3	6 LF	40	–	–	2080



# WALLS

## WALL INSTALLATION GUIDE

- 86 Wall Types
- 88 Before You Begin

## WALLS

- |    |                  |     |                  |
|----|------------------|-----|------------------|
| 89 | Ashlar Tandem™   | 101 | Melville Tandem™ |
| 90 | Belair Wall® 2.0 | 102 | Melville™ Wall   |
| 94 | Castlemanor®     | 103 | Shelton Wall™    |
| 96 | Diamond® 9D      | 104 | Steeple Crest™   |
| 97 | Diamond Pro®     | 105 | Sterling®        |
| 98 | Highland Stone®  | 106 | Weston Stone™    |

For basic wall installation information  
visit [ncma.org](http://ncma.org)



*NCMA Segmental  
Retaining Wall  
Installation Guide*



*NCMA Segmental  
Retaining Walls:  
Residential Applications*

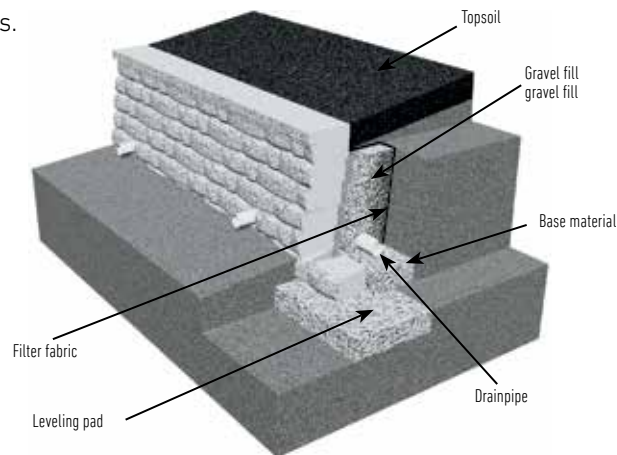
# SEGMENTAL RETAINING WALL TYPES

Segmental retaining walls typically fall into one of three categories.

## GRAVITY RETAINING WALL

The first category — a gravity wall — is a retaining wall that does not use soil reinforcement. A gravity wall has height limitations specific to each product. An advantage of this type of retaining wall is that it requires a smaller work area behind the wall.

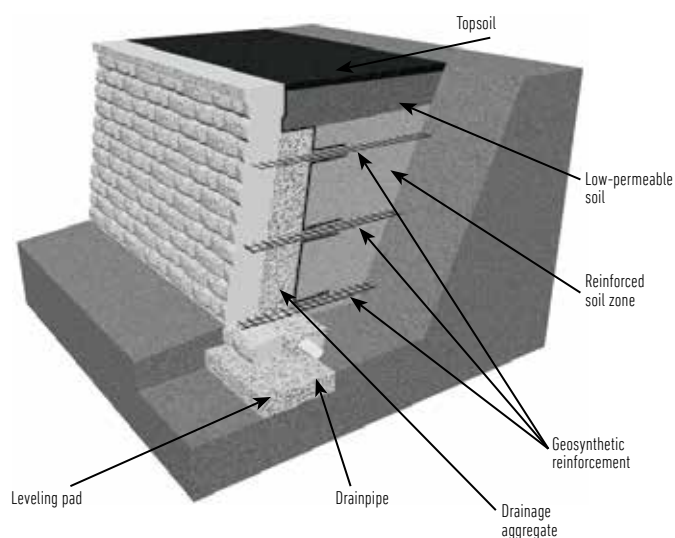
A gravity wall relies on the weight and setback of the block to resist the soil forces being exerted on the wall.



## GEOSYNTHETIC-REINFORCED RETAINING WALL

The second category is a geosynthetic-reinforced wall, which needs to be designed by a qualified engineer. There are (theoretically) no height limitations with reinforced retaining walls, and they are used in larger applications. It requires more work area behind the structure.

The block of soil is stabilized by introducing reinforcement layers into the soil mass behind the facing units. The larger the stabilized soil mass, the more soil can be retained or held back. The geogrid in the soil extends past the theoretical failure plane and serves to create a large, rectangular mass of block and soil, restraining the retained soil.

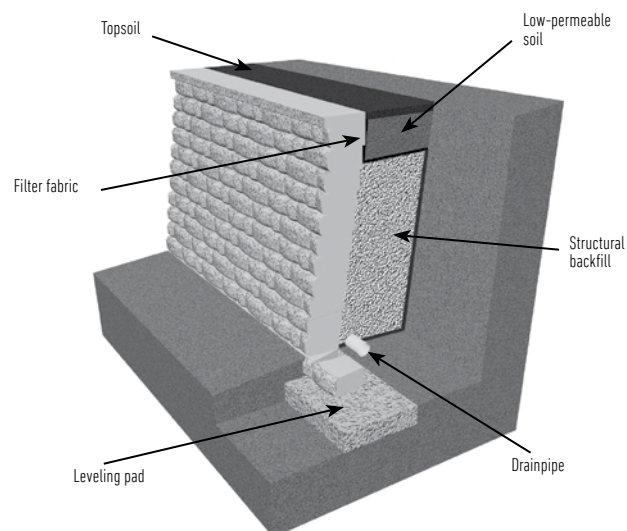


## ANCHORPLEX® SYSTEM

The third category is the Anchorplex system, which offers a unique, non-conventional solution to problematic wall construction sites. It is a retaining wall built with Anchor™ products and structural backfill specified by Anchor Wall Systems, and backed by engineering support tools developed by Anchor.

Use of the Anchorplex system completely eliminates the need for the construction of a mechanically stabilized earth zone behind the wall facing and requires substantially less excavation than is usually necessary in geosynthetic-reinforced wall construction.

Contact Anchor Wall Systems at 1-877-295-5415 for more information about designing and building with the Anchorplex system.

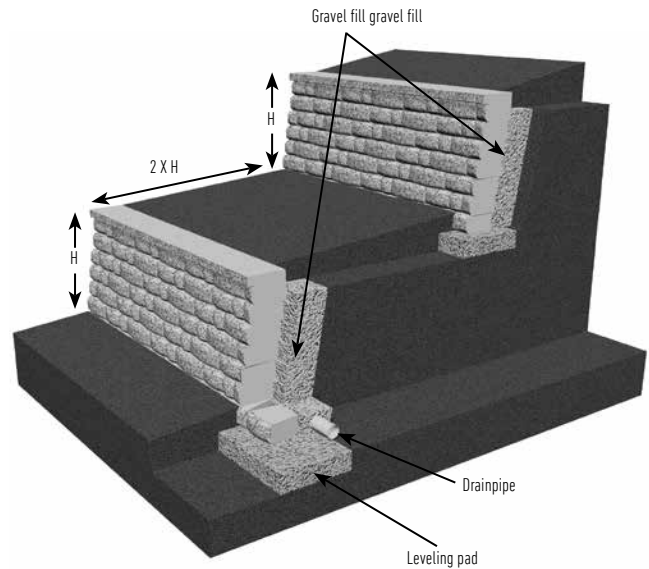


## OTHER SEGMENTAL WALL APPLICATIONS

### INDEPENDENT TERRACED WALLS

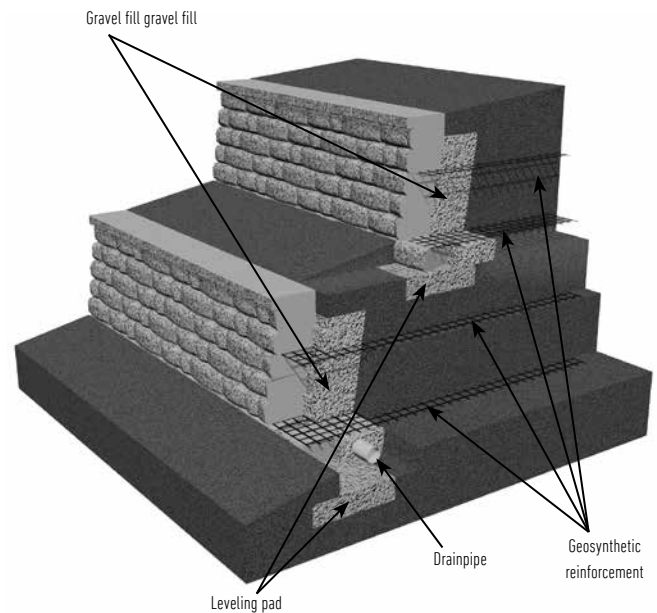
For each wall to be independent of others, they must be built using a 2:1 ratio: The upper wall must be built a distance away from the lower wall of at least twice the height of the lower wall. In addition, the upper wall must also be equal to or less than the height of the lower wall. Exceptions to this general rule include weak soil conditions or where slopes exist above, below or between wall locations. For example, if the lower terrace is 4 feet tall, the distance between the terraces must be at least 8 feet and the upper wall must not be higher than 4 feet.

Proper drainage is vital to maintaining stable, long-lasting terraced walls. A drainpipe must be installed so that the water is directed around or under the lower wall. Never place the drainpipe outlet for the upper wall above or behind the lower wall.



### DEPENDENT TERRACED WALLS

When the distance between the lower and upper walls is less than twice the height of the lower wall, the walls become structurally dependent on each other. In this situation, it is important to take global stability into account, incorporating additional reinforcement — and longer layers — into the wall plan. In addition, structurally dependent walls require even more excavation, backfill and time. So plan ahead and be sure to check the wall plan for specific requirements. For structurally dependent walls, consult with a qualified engineer.



## BEFORE YOU BEGIN

Advance planning and careful layout at the job site help ensure a successful retaining and freestanding wall project.

- Review the site plan to confirm lot lines, wall location, length and elevations.
- Understand on-site soils. Ideal soils are sand and gravel. For walls built in clay or poor soils, work with a local engineer to confirm the wall design and the required soil reinforcement. Black or organic soils should not be used as backfill.
- Confirm the location of underground utilities. Call 811.
- Seek all necessary building permits.
- Prepare a drawing of the site with the wall location, lengths and elevations.
- Plan drainage to avoid erosion or buildup of water behind the wall. Consider where the water will drain through the wall, where downspouts will expel and whether there's an underground sprinkler. For walls greater than three feet in height, a perforated drainpipe is recommended at the base of the aggregate to quickly remove large amounts of water.
- A best practice is to divert water away from the wall before it has an opportunity to enter the reinforced soil and gravel fill zone.
- Check the block delivered to ensure it is the correct product and color. Check the geogrids to confirm that it's the strength and weight specified in the engineering plans.
- Be sure to use the right tools. Hand tools include a shovel, 4-foot level, dead-blow hammer, 2- or 3-pound hammer, chisel, hand tamper, hydraulic splitter and string line. Power tools may include a circular saw with a diamond blade and a plate compactor.
- Always wear protective eye wear.

For additional wall installation references go to [Belgard.com](http://Belgard.com).





Scan for additional  
product information

NOTE: For walls over 30 inches in height, soil reinforcement is generally necessary.  
A qualified engineer should be consulted for design and analysis of structures.

RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
✓	✓	✓	✓	✓	✓	✓	✓

## SHAPES & SIZES

### 3-Piece



7 x 13<sup>3</sup>/<sub>16</sub> x 2<sup>5</sup>/<sub>8</sub>

7 x 15<sup>13</sup>/<sub>16</sub> x 2<sup>5</sup>/<sub>8</sub>

7 x 18<sup>7</sup>/<sub>16</sub> x 2<sup>5</sup>/<sub>8</sub>

### Cap



15 x 24 x 3<sup>1</sup>/<sub>4</sub>

### Modular Block



7<sup>1</sup>/<sub>16</sub> x 7<sup>7</sup>/<sub>8</sub> x 7<sup>7</sup>/<sub>8</sub>  
(Connectors included)

### U Start Base Block



12 x 18<sup>7</sup>/<sub>16</sub> x 3<sup>1</sup>/<sub>2</sub>  
(Recommended for  
all installations)

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ SQFT	WEIGHT/ UNIT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	----------------	-----------------	-------------------

### 3-PIECE

7 X 13 <sup>3</sup> / <sub>16</sub> X 2 <sup>5</sup> / <sub>8</sub>	19.2	3.2	—	30	1.56	18.23	546.82
7 X 15 <sup>13</sup> / <sub>16</sub> X 2 <sup>5</sup> / <sub>8</sub>	23.55	3.92	—	30	1.27	22.36	671
7 X 18 <sup>7</sup> / <sub>16</sub> X 2 <sup>5</sup> / <sub>8</sub>	27.35	4.56	—	30	1.09	26.04	781.48
TOTAL	70.1	11.68	6	90	—	—	2003

### CAP

15 X 24 X 3 <sup>1</sup> / <sub>4</sub>	64 LF	8 LF	8	32	0.5 LF	95.31	3050
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### MODULAR BLOCK

7 <sup>1</sup> / <sub>16</sub> X 7 <sup>7</sup> / <sub>8</sub> X 7 <sup>7</sup> / <sub>8</sub>	49.29	—	4	128	0.389	22	2816
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### U START BASE BLOCK®

12 X 18 <sup>7</sup> / <sub>16</sub> X 3 <sup>1</sup> / <sub>2</sub>	77.88 LF	11.13 LF	7	56	0.72	54	3080
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# BELAIR WALL® 2.0

NATURAL  
COLLECTION



Scan for additional  
product information

NOTE: For walls over 30 inches in height, soil reinforcement is generally necessary.  
A qualified engineer should be consulted for design and analysis of structures.

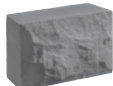
RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
✓	✓	✓	✓	✓	✓	✓	✓

## SHAPES & SIZES

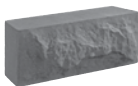
### 3-Piece Freestanding Wall



6 x 6 x 5



6 x 10 x 5



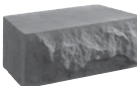
6 x 16 x 5



6 x 6 x 8

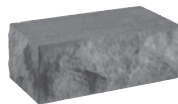


6 x 10 x 8



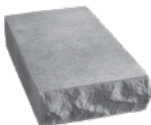
6 x 16 x 8

### Corner/Column



7.25 x 16 x 8

### Cap



3 x 7 / 8 x 13½

### Cap End



3 x 8 x 13½

### Wall End



6 x 8 x 11

See pallet information on the following page.





Scan for additional  
product information

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ SQFT	WEIGHT/ UNIT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	----------------	-----------------	-------------------

## 3-PIECE FREESTANDING

6 X 6 X 5	3.75	0.75	–	30	8	11.25	337.5
6 X 10 X 5	6.25	1.25	–	30	4.8	18.75	562.5
6 X 16 X 5	20	4	–	60	3	30	1800
TOTAL	30	6	5	120	–	–	2700

## 3-PIECE RETAINING

6 X 6 X 8	3.75	1.25	–	15	4	20.4	306
6 X 10 X 8	6.25	2.08	–	15	2.4	34.06	511
6 X 16 X 8	20	6.66	–	30	1.5	54.26	1628
TOTAL	30	10	3	60	–	–	2445

## CORNER/COLUMN

7.25 X 16 X 8	18.66	9.33	2	28	1.5	58.92	1650
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## CAP

3 X 7 / 8 X 13½	90 LF	11.25	8	144	1.6	24.37	3510
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## CAP END

3 X 8 X 13½	24 LF	12	2	36	1.5	25.33	912
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## WALL END

6 x 8 x 11	14	7	2	42	3	43.61	1832
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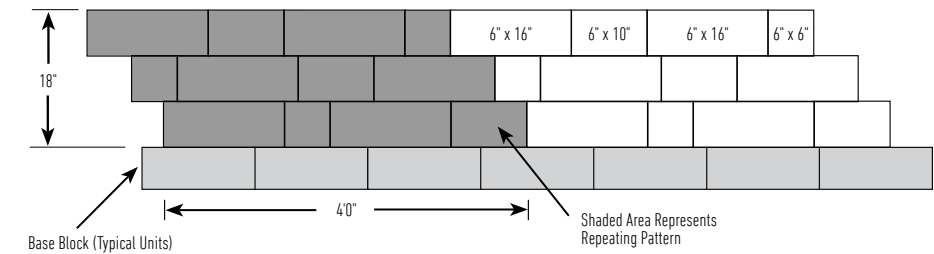
# BELAIR WALL® 2.0 - LAYING PATTERN GUIDE

## USING A PATTERN FOR SINGLE-HEIGHT RETAINING WALLS

When using a pattern, begin at one edge, laying the units as indicated. Install at least one repeat of the pattern to establish the pattern before proceeding to the next course. Stagger the patterns as shown to avoid vertical bonds.

One set of 6-inch-high retaining wall blocks consists of 2 large units, 1 medium unit and 1 small unit, and is 2 square feet.

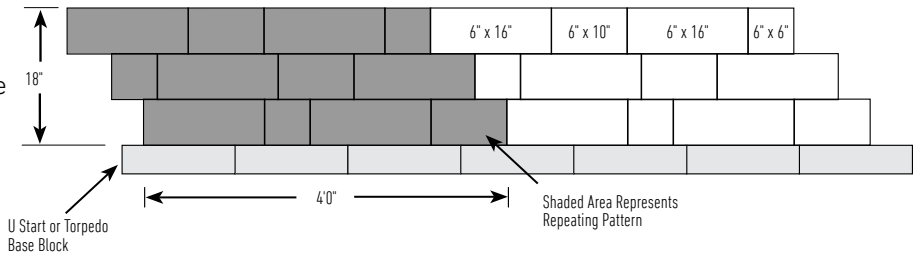
6" Multipiece wall system, 18-inch by 4-foot pattern = 6 sq. ft.



Blocks required		Blocks required	
6 Sets		3 Sets	
12	6" x 16"	6	6" x 16"
6	6" x 10"	3	6" x 10"
6	6" x 6"	3	6" x 6"

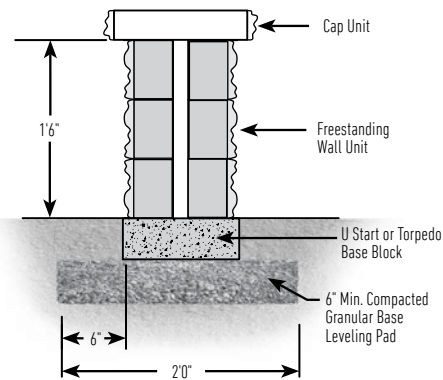
## WHEN TO USE A PATTERN FOR FREESTANDING WALLS

One set of 6-inch-high blocks consists of 2 large units, 1 medium unit and 1 small unit, and is 1 square foot of two sided wall.

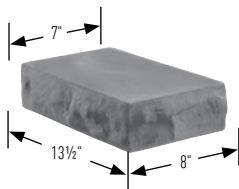


**NOTE:** These freestanding wall installation patterns show only one side of the freestanding wall. The same number of blocks are needed to build the other side of a freestanding wall when using Belair Wall 2.0 freestanding wall systems. Freestanding wall installation patterns are measured in length by height of one side of the wall, and are expressed in square feet. Sets of blocks required include the number of blocks needed to build both sides of the wall.

## TYPICAL CROSS SECTION



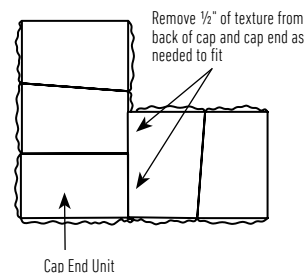




## TRAPEZOID DOUBLE-SIDED CAP

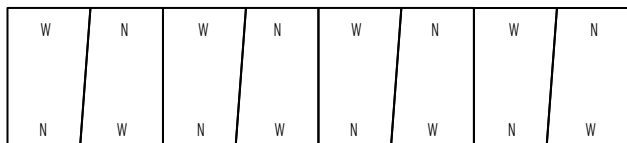
Minimum radius: 7'6"

The double-sided cap has a right-angle side and an offset-angle side. The caps can be used in any of four directions since there is no specific top or bottom.



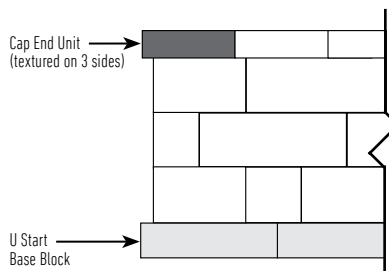
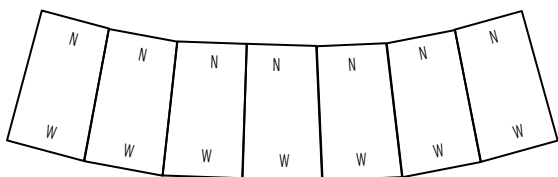
## STRAIGHT WALL

The cap must be laid alternately, narrow (N) and wide (W) faces, for a straight line. Always start capping from the lowest elevation.



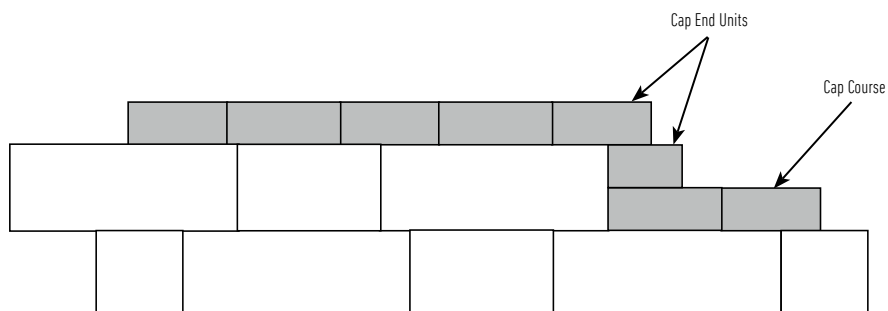
## CURVES

Lay out the cap units side by side with same face facing out (wide faces for outside curves; narrow faces for inside curves). Occasional cutting of some pieces may be necessary.



## STEPPING UP CAPS WITH CAP ENDS

If a wall elevation changes, caps can be stacked where the wall steps up. Begin laying caps at the lowest elevation and work your way toward the next step-up. Cut a cap unit to fit. Place the cut unit directly on top of the capped portion of the wall with the cut side hidden from view. If not using a Cap End, place the trapezoid double-sided cap so that the side with the arrow is hidden.





**NOTE:** To split a block, use a hydraulic splitter or split manually by using a hammer and chisel to score the block on all sides. Pound the chisel on the same line until the block splits. If partial unit sides are not exposed, use a saw with a diamond blade to achieve a tighter fit.



Scan for additional  
product information

NOTE: For walls over 30 inches in height, soil reinforcement is generally necessary.  
A qualified engineer should be consulted for design and analysis of structures.

RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
							
✓	✓	✓	✓	✓	✓	✓	✓

## SHAPES & SIZES

### Wall Units

### Cap



6 x 6 / 4 x 10    6 x 12 / 10 x 10    6 x 16 / 14 x 10    3 x 12 / 8 x 12

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ SQFT	WEIGHT/ UNIT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	----------------	-----------------	-------------------

### WALL UNITS

6 X 6 / 4 X 10	4.16	0.83	–	20	4.8	22	440
6 X 12 / 10 X 10	9.16	1.83	–	20	2.18	48	960
6 X 16 / 14 X 10	12.5	2.5	–	20	1.6	66	1320
TOTAL	26	5.16	5	60	–	–	2720

### CAP

3 X 12 / 8 X 12	60 LF	10 LF	6	72	1.2 LF	28.32	2039
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# CASTLEMANOR - LAYING PATTERN GUIDE FOR MULTI HEIGHT RETAINING WALLS

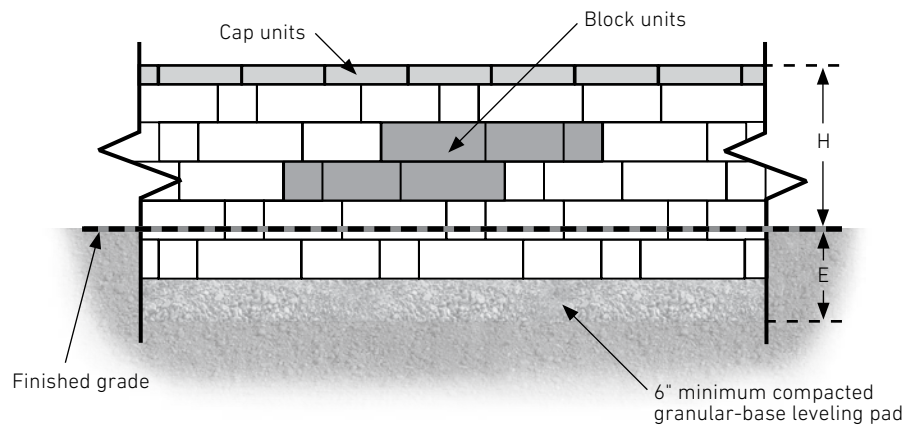
## WHEN TO USE A PATTERN

You can install the multipiece retaining wall system in a random pattern using any combination of units. Just avoid vertical lines that span more than 1 foot in height. If you are building a wall without geosynthetic reinforcement, use a pattern for inspiration or follow the pattern exactly. Pleasing random patterns can be built using an equal number of 6- and 3-inch high blocks or using an equal square footage of blocks in each size. These patterns are based on using an equal number of blocks of each size in each height.

When building a wall that includes geosynthetic reinforcement, using a pattern at the appropriate spacing eliminates the need to cut the geogrid. When using a pattern, begin at one edge laying the blocks as indicated. Install at least one repeat of the pattern to establish the pattern before proceeding to the next course.

## SEQUENT™ PANEL INSTALLATION PATTERN









9-inch by 5-foot 8-inch Installation Pattern. This 9-inch high by 34-inch long installation pattern uses an equal number of units of each face size to make the panel. This installation pattern is one of many possible options. Others can be used for different appearances.





Scan for additional  
product information

NOTE: For walls over 30 inches in height, soil reinforcement is generally necessary.  
A qualified engineer should be consulted for design and analysis of structures.

RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
							
✓	✓	✓					✓

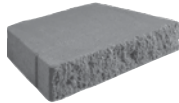
## SHAPES & SIZES

### Block



6 x 17<sup>3</sup>/<sub>4</sub> x 9

### Cap



3 x 18 / 12 x 13

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNIT/ SQFT	WEIGHT/ PALLET
BLOCK							
6 X 17 <sup>3</sup> / <sub>4</sub> X 9	35.5	8.875	4	48	12	1.35	2670
CAP							
3 X 18 / 12 X 13	78.75 LF	11.25 LF	7	63	9	1.25 LF	3700











# DIAMOND PRO® STRAIGHT FACE

HERITAGE  
COLLECTION 



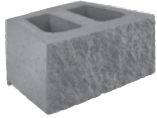
Scan for additional  
product information

NOTE: For walls over 30 inches in height, soil reinforcement is generally necessary.  
A qualified engineer should be consulted for design and analysis of structures.

RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
							
✓	✓						✓

## SHAPES & SIZES

### Block



8 x 18 x 12

### 4" Cap



4 x 18 x 13

### 8" Cap



8 x 18 x 13









UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNIT/ SQFT	WEIGHT/ PALLET
BLOCK							
8 X 18 X 12	45	9	5	45	9	1	3548
4" CAP							
4 X 18 X 13	96 LF	12 LF	8	64	8	–	4155
8" CAP							
8 X 18 X 13	90 LF	12 LF	5	40	8	–	4120





Scan for additional  
product information

NOTE: For walls over 30 inches in height, soil reinforcement is generally necessary.  
A qualified engineer should be consulted for design and analysis of structures.

RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
							
✓	✓	✓	✓			✓	✓

SHAPES & SIZES

2-Piece 6" FSW



6 x 6 / 4 x 9    6 x 12 / 10 x 9

18" FSW



6 x 18 / 16 x 9

2-Piece 6" SRW



6 x 6 x 12    6 x 12 x 12

18" SRW



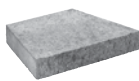
6 x 18 x 12

Corner/Column



6 x 18 x 9

Cap



3 x 18 / 12 x 13

See pallet information on the following page.





Scan for additional  
product information

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ SQFT	WEIGHT/ UNIT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	----------------	-----------------	-------------------

## 2-PIECE 6" FREESTANDING WALL

6 X 6 / 4 X 9	10.67	2.67	–	48	4.49	23.2	1113.75
6 X 12 / 10 X 9	21.33	5.33	–	48	2.25	47.1	2261.25
TOTAL	32	8	4	96	-	-	3375

## 18" FREESTANDING WALL

6 X 18 / 16 X 8	27	9	3	36	1.33	82.22	2960
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## 2-PIECE 6" SEGMENTAL RETAINING WALL

6 X 6 X 12	9	2.25	–	36	4	26.58	957
6 X 12 X 12	18	4.5	–	36	2	53.97	1943
TOTAL	27	6.75	4	72	-	-	2900

## 18" SEGMENTAL RETAINING WALL

6 X 18 X 12	27	6.75	4	36	1.33	76.66	2760
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## CORNER/COLUMN

6 X 18 X 9	36	9	4	32	0.88	95.06	3042
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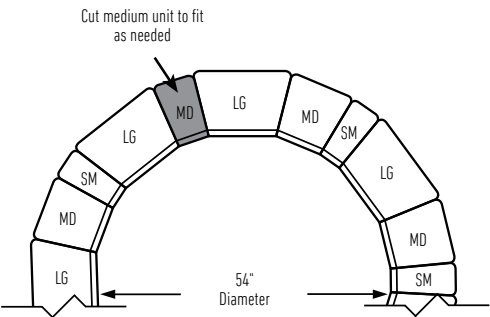
## CAP

3 X 18 / 12 X 13	78.75 LF	11.25 LF	7	63	1.25 LF	58.73	3700
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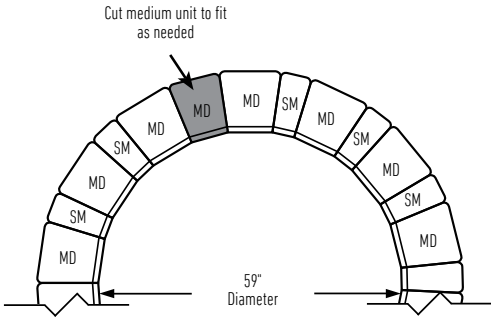


# RADIUS PATTERNS

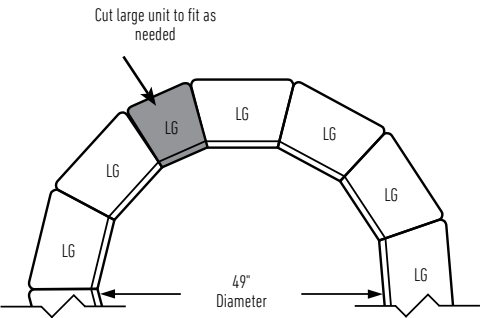
PATTERN	NUMBER OF UNITS AND REPEAT	INSIDE DIAMETER	OUTSIDE RADIUS
1	8 SMALL / 8 MEDIUM / 7 LARGE	54"	39"
2	13 SMALL / 15 MEDIUM	59"	41.5"



PATTERN 1



PATTERN 2



PATTERN 3

KEY

SM = Small

MD = Medium

LG = Large

**NOTE:** To split a block, use a hydraulic splitter or split manually by using a hammer and chisel to score the block on all sides. Pound the chisel on the same line until the block splits. If partial unit sides are not exposed, use a saw with a diamond blade to achieve a tighter fit.





Scan for additional  
product information

NOTE: For walls over 30 inches in height, soil reinforcement is generally necessary.  
A qualified engineer should be consulted for design and analysis of structures.

RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
✓	✓	✓	✓	✓	✓	✓	✓

## SHAPES & SIZES

### 3-Piece



7 x 13<sup>3</sup>/<sub>16</sub> x 2<sup>5</sup>/<sub>8</sub>



7 x 15<sup>13</sup>/<sub>16</sub> x 2<sup>5</sup>/<sub>8</sub>



7 x 18<sup>7</sup>/<sub>16</sub> x 2<sup>5</sup>/<sub>8</sub>

### Cap



15 x 24 x 3<sup>1</sup>/<sub>4</sub>

### Modular Block



7<sup>1</sup>/<sub>16</sub> x 7<sup>7</sup>/<sub>8</sub> x 7<sup>7</sup>/<sub>8</sub>  
(Connectors included)

### U Start Base Block



12 x 18<sup>1</sup>/<sub>2</sub> x 3<sup>1</sup>/<sub>2</sub>  
(Recommended for all installations)

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ SQFT	WEIGHT/ UNIT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	----------------	-----------------	-------------------

### 3-PIECE

7 X 13 <sup>3</sup> / <sub>16</sub> X 2 <sup>5</sup> / <sub>8</sub>	19.2	3.2	—	30	1.56	18.23	546.82
7 X 15 <sup>13</sup> / <sub>16</sub> X 2 <sup>5</sup> / <sub>8</sub>	23.55	3.92	—	30	1.27	22.36	671
7 X 18 <sup>7</sup> / <sub>16</sub> X 2 <sup>5</sup> / <sub>8</sub>	27.35	4.56	—	30	1.09	26.04	781.48
TOTAL	70.1	11.68	6	90	—	—	2003

### CAP

15 X 24 X 3 <sup>1</sup> / <sub>4</sub>	64 LF	8 LF	8	32	0.5 LF	95.31	3050
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### MODULAR BLOCK

7 <sup>1</sup> / <sub>16</sub> X 7 <sup>7</sup> / <sub>8</sub> X 7 <sup>7</sup> / <sub>8</sub>	49.29	-	4	128	0.389	22	2816
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### U START BASE BLOCK®

12 X 18 <sup>1</sup> / <sub>2</sub> X 3 <sup>1</sup> / <sub>2</sub>	77.88 LF	11.13 LF	7	56	0.72	54	3080
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Scan for additional  
product information

NOTE: For walls over 20 inches in height, soil reinforcement is generally necessary.  
A qualified engineer should be consulted for design and analysis of structures.

RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
							
✓	✓	✓	✓	✓	✓	✓	✓

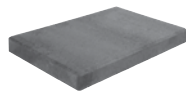
## SHAPES & SIZES

### Wall Unit

### Cap



4 x 20 x 10



2 x 20 x 13

NOTE: Some units may include channels for lighting.

UNIT	LNFT/ PALLET	LNFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ SQFT	WEIGHT/ UNIT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	----------------	-----------------	-------------------

### WALL UNIT

4 X 20 X 10	26.67	4.44	6	48	1.8	48.75	3120
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### CAP

2 X 20 X 13	120 LF	10 LF	12	72	0.6 LF	43.33	3100
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Scan for additional  
product information

NOTE: For walls over 30 inches in height, soil reinforcement is generally necessary.  
A qualified engineer should be consulted for design and analysis of structures.

RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
✓			✓		✓	✓	✓

## SHAPES & SIZES

### Wall Units

### Cap



6 x 6 / 4 x 10



6 x 12 / 10 x 10



6 x 16 / 10 x 14



3 x 12 / 8 x 12

NOTE: Pins are included

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ SQFT	WEIGHT/ UNIT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	----------------	-----------------	-------------------

### WALL UNITS

6 X 6 / 4 X 10	4.16	0.83	–	20	4.8	22	440
6 X 12 / 10 X 10	9.16	1.83	–	20	2.18	48	960
6 X 16 / 14 X 10	12.5	2.5	–	20	1.6	66	1320
TOTAL	26	5.16	5	60	–	–	2720

### CAP









3 X 12 / 8 X 12	60 LF	10 LF	6	72	1.2 LF	28.32	2039
-----------------	-------	-------	---	----	--------	-------	------





Scan for additional  
product information

NOTE: For walls over 30 inches in height, soil reinforcement is generally necessary.  
A qualified engineer should be consulted for design and analysis of structures.

RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
							
✓			✓		✓	✓	✓

## SHAPES & SIZES

### Wall Units

### Cap



6 x 6 / 4 x 10



6 x 12 / 10 x 10



6 x 16 / 14 x 10



3 x 12 / 8 x 12

NOTE: Pins are included

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ SQFT	WEIGHT/ UNIT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	----------------	-----------------	-------------------

### WALL UNITS

6 X 6 / 4 X 10	4.16	0.83	–	20	4.8	22	440
6 X 12 / 10 X 10	9.16	1.83	–	20	2.18	48	960
6 X 16 / 14 X 10	12.5	2.5	–	20	1.6	66	1320
TOTAL	26	5.16	5	60	–	–	2720

### CAP

3 X 12 / 8 X 12	60 LF	10 LF	6	72	1.2 LF	28.32	2039
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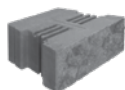
Scan for additional  
product information

NOTE: For walls over 30 inches in height, soil reinforcement is generally necessary.  
A qualified engineer should be consulted for design and analysis of structures.

RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
✓	✓	✓	✓	✓	✓	✓	✓

## SHAPES & SIZES

### Freestanding Wall



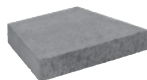
6 x 17¾ x 10

### Retaining Wall



6 x 17¾ x 12

### Cap

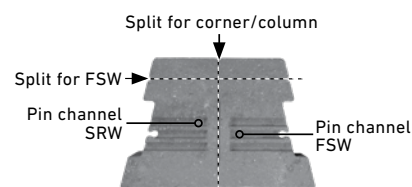


3 x 18 / 12 x 13

### Pin\*



\*Pins included



UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ SQFT	WEIGHT/ UNIT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	----------------	-----------------	-------------------

### FREESTANDING WALL

6 X 17¾ X 10	33.3	6.65	5	45	1.35	66.11	2975
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### RETAINING WALL

6 X 17¾ X 12	33.3	6.65	5	45	1.35	75	3375
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### CAP

3 X 18 / 12 X 13	22.54 SF 90 LF	2.82	8	72	.313 SF 1.25 LF	54.69	3938
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### PINS\*









5 X ½ DIAMETER 2 PINS PER BLOCK	100 / BAG	-	-	-	-	-	15 LBS / BAG
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Scan for additional  
product information

NOTE: For walls over 30 inches in height, soil reinforcement is generally necessary.  
A qualified engineer should be consulted for design and analysis of structures.

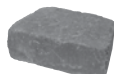
RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
							
✓	✓	✓	✓	✓	✓	✓	✓

## SHAPES & SIZES

### 3-Piece



4 x 8 x 8



4 x 8 x 12



4 x 8 x 16

### Universal



4 x 8 x 12

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ SQFT	WEIGHT/ UNIT	WEIGHT/ PALLET
------	-----------------	----------------	------------------	------------------	----------------	-----------------	-------------------

### 3-PIECE

4 X 8 X 8	9.33	1.33	–	42	4.51	18	766.04
4 X 8 X 12	14	2	–	42	3	27.36	1149.06
4 X 8 X 16	18.66	2.66	–	42	2.25	37.3	1566.9
TOTAL	42	6	7	126	–	–	3482

### UNIVERSAL

4 X 8 X 12	33.5	6.7	5	100	2.98	28.99	2899
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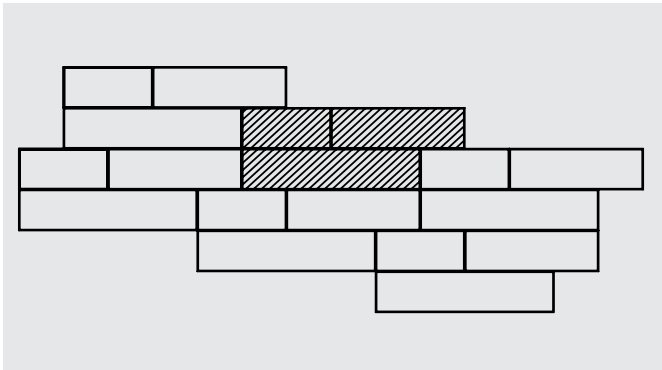
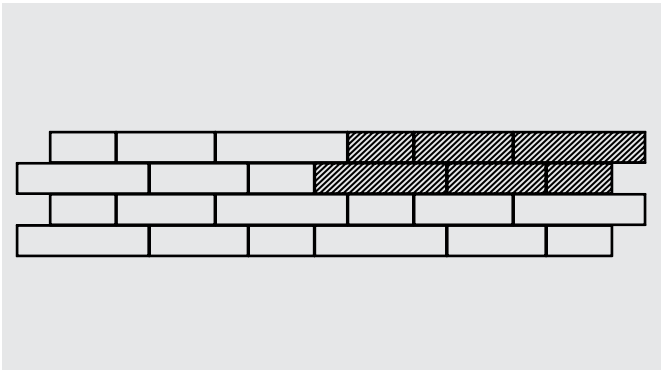


# WESTON STONE™ INSTALLATION INSTRUCTIONS

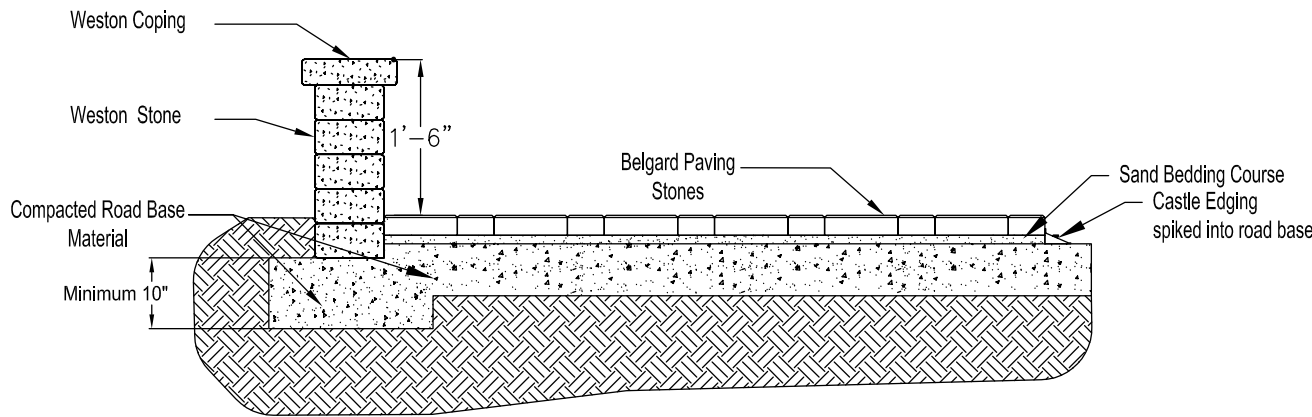
This is a pinless system. Maximum wall height is 2½ feet. Walls exceeding 2½ feet in height may require geogrid reinforcing and the consultation of a qualified engineer. Contact your Belgard sales representative or dealer for assistance.

Weston Stone wall units must be glued with a quality construction adhesive to develop the necessary mechanical bond. All measurements herein are approximate. Natural materials are used in the manufacturing of this product.

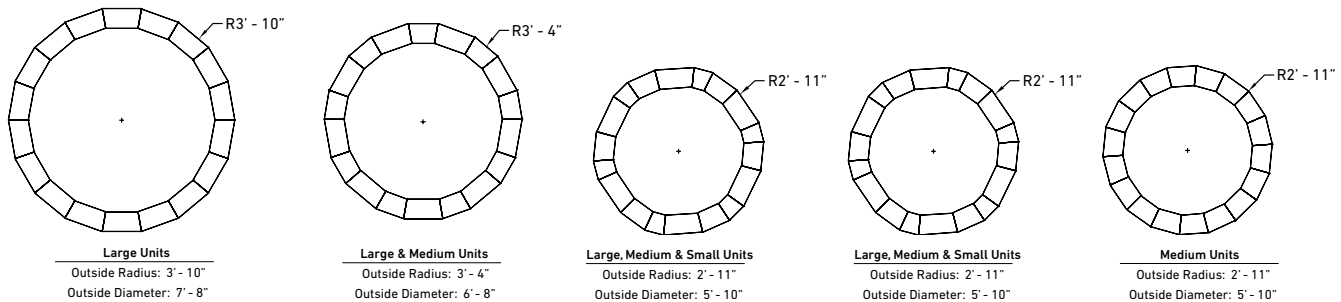
## WESTON STONE™ WALL PATTERNS



## TYPICAL CROSS SECTION WITH WESTON STONE SEAT WALL



## TREE RINGS WITH WESTON STONE



# FIRE FEATURES



## FIRE FEATURES INSTALLATION GUIDE

109 Installation Instructions

## FIRE FEATURES

110 Weston Stone™ Fire Pit Kit



# STANDARD INSTALLATION INSTRUCTIONS

## GRAVEL BASE

Gravel Fill shall be a clean angular stone or angular granular fill meeting the following gradation as determined in accordance with ASTM D 422.

<u>Sieve Size</u>	<u>Percent Passing</u>
1-in	100
3/4-in	75-100
No. 4	0-60
No. 40	0-50
No. 200	0-12

## FOUNDATION PREPARATION

Following excavation of the leveling pad, foundation soil shall be examined to assure the actual foundation soil strength meets or exceeds the assumed design bearing strength. Soils not meeting the required strength shall be removed and replaced with soil meeting the design criteria.



*Scan for Fortified Installation Method  
to be used with soft soils or expanding clays*

## LEVELING PAD PREPARATION

A minimum 18-in thick layer or compacted granular material shall be placed for use as a leveling pad up to the grades and locations as shown on the construction drawings. The granular base shall be compacted to a firm, level bearing pad on which to place the bottom level of the unit. A leveling pad consisting of 6-in (minimum) thick lean, unreinforced concrete may be used at the contractor's option, or if so detailed on the plans. The leveling pad should extend a minimum of 6-in from the toe and from the heel of the unit base.

## GRAVEL FILL

Gravel fill shall be placed to the minimum finished thickness and width shown on the construction plans.

Gravel lifts shall be a maximum thickness of 6-in.

Lifts shall be compacted by three passes of a light weight vibratory plate compactor.

For areas not affected by freeze-thaw conditions please contact your local Belgard sales representative for further installation information.

# WESTON STONE™ FIRE PIT KIT

HERITAGE  
COLLECTION 

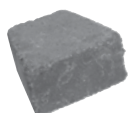


Scan for additional  
product information

RESIDENTIAL	COMMERCIAL	STEPS	COLUMNS	FIRE PIT	KITCHEN	FREESTANDING WALL	RETAINING WALL
							
✓				✓			

## SHAPES & SIZES

### Fire Pit Unit



4 x 8 x 8

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
FIRE PIT UNIT							
4 X 8 X 8	-	-	-	36	9	-	1025

## FIRE PIT KITS INSTALLATION INSTRUCTIONS

- Always use in accordance with all applicable local and state fire codes
- Failure to follow these instructions could result in a hazardous fire causing property damage or physical injury
- Caution: For outdoor use only
- Use the fire ring on stone, dirt or sand surfaces
- For adult use only — do not allow children to use the fire ring
- Do not use on lawns, wooden decks, concrete or asphalt
- Do not use fire ring indoors or under a patio roof
- Do not use in windy conditions
- Do not leave fire unattended at any time
- Do not use under tree branches, trellis, or overhangs of any kind, including covered porches
- Do not use flammable liquids such as gasoline, alcohol, diesel fuel, kerosene, or charcoal lighter fluid to light or relight fires as this may also cause paint to flake off fire ring
- Care should be taken to make sure all combustible material is far enough away from the fire ring not to ignite it
- Avoid using softwoods such as pine or cedar because they are likely to throw sparks — hardwoods are recommended
- Keep children and pets away from the fire ring while it is in use
- Exercise the same precautions you would with any open fire
- Do not wear flammable or loose clothing when tending an open fire
- Avoid touching surfaces as they will be extremely hot
- Assure the fire is completely extinguished before leaving fire ring
- Any modifications to this appliance may be dangerous and are not permitted

### ADDITIONAL MATERIALS NEEDED

- Tamper
- Level
- 2 Bags of Leveling Sand
- 2 Tubes of Concrete Adhesive
- Caulk Gun
- 3 Bags of Gravel or Lava Rock
- Shovel
- Optional Marking Paint or Chalk






# ACCESSORIES

## ACCESSORIES

- 113 Anchor™ Column Cap
- 114 Anglia Edger®
- 116 Artforms™
- 118 Landings™ Step Unit
- 121 Marina™ Coping
- 123 Melville™ Curb



Scan for additional  
product information

RESIDENTIAL	COMMERCIAL	STEPS	CAPS	COPING
				
✓			✓	

## SHAPES & SIZES

### Cap



28 x 28 x 3

UNIT	LNFT/ PALLET	LNFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	WEIGHT/ UNIT	WEIGHT/ PALLET
CAP							
28 X 28 X 3	-	-	-	4	-	254	1016





Scan for additional  
product information

RESIDENTIAL	COMMERCIAL	STEPS	CAPS	COPING
✓	✓			

## SHAPES & SIZES

### Edger Units



5 1/4 x 8 x 8



5 1/4 x 8 x 10 1/2



5 1/4 x 8 x 15 5/8



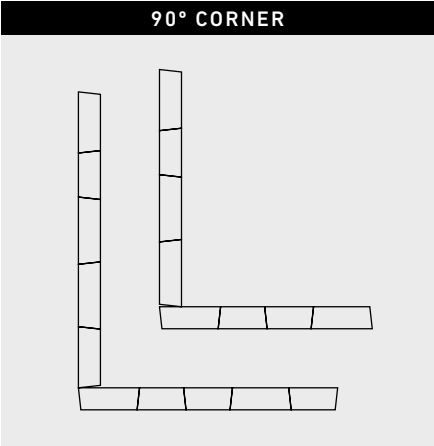
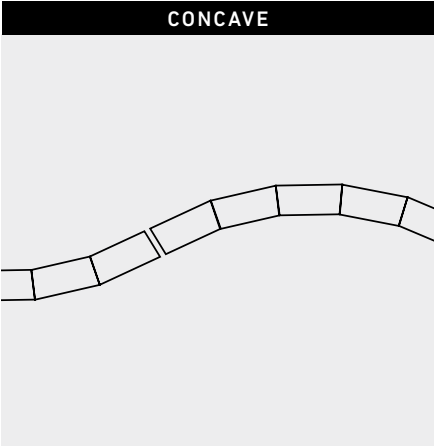
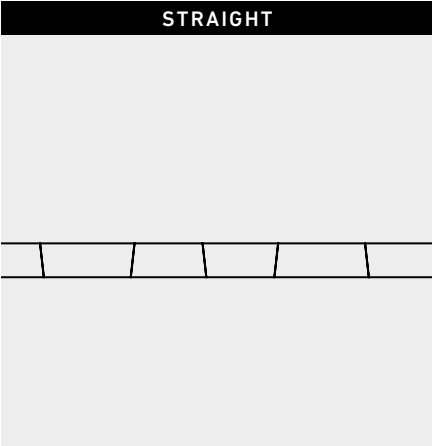
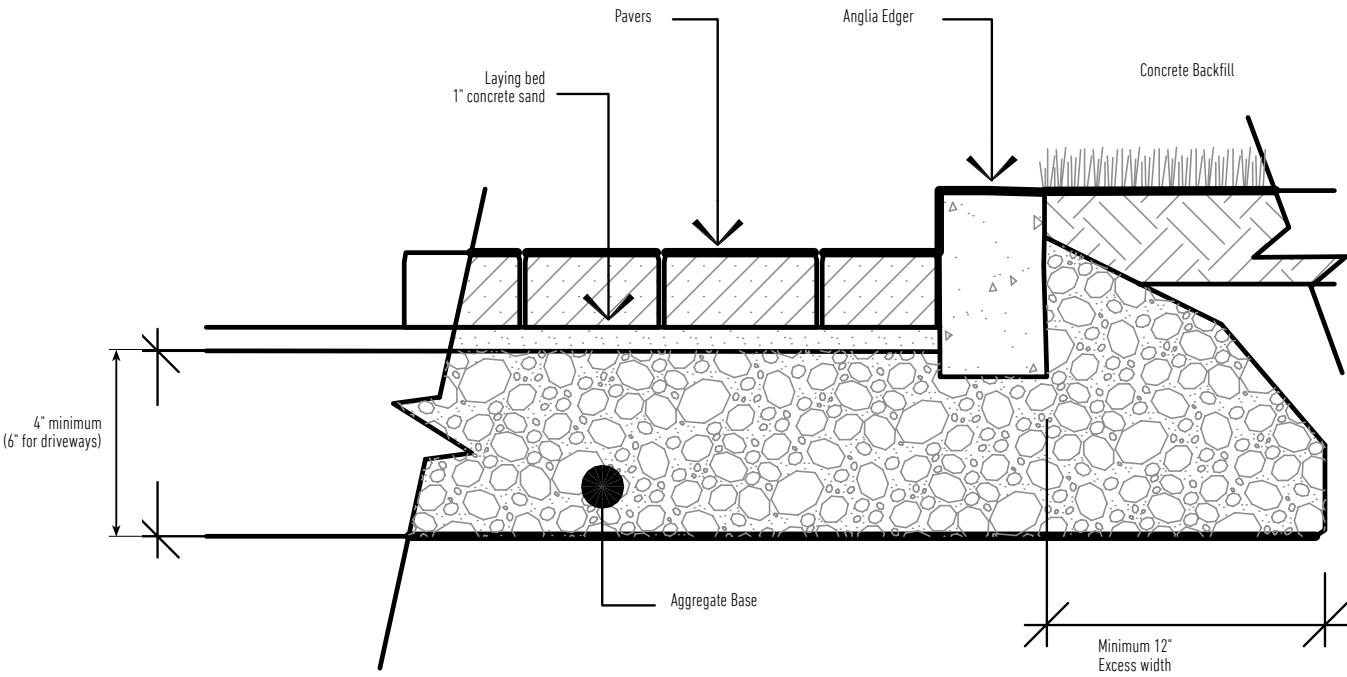
5 1/4 x 8 x 18

UNIT	LNFT/ PALLET	LNFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ LNFT	WEIGHT/ PALLET
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### EDGER UNITS









5 1/4 X 8 X 8	7.9	2.63	–	12	1.52	24.29	291.5
5 1/4 X 8 X 10 1/2	10.5	3.5	–	12	1.14	35.33	424
5 1/4 X 8 X 15 5/8	15.6	5.2	–	12	0.76	48.58	583
5 1/4 X 8 X 18	35.75	11.92	–	24	0.67	56.31	1351.5
TOTAL	69.75	23.25	3	60	–	–	2650

# ANGLIA EDGER INSTALLATION INSTRUCTIONS





Scan for additional  
product information

RESIDENTIAL	COMMERCIAL	STEPS	CAPS	FIRE PITS	KITCHEN	FREESTANDING WALL	RETAINING WALL
							
✓	✓			✓	✓		

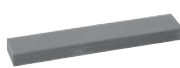
## SHAPES & SIZES

### 18 x 36



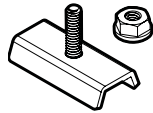
3 x 18 x 36

### 6 x 36

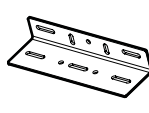


3 x 6 x 36

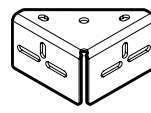
### Installation Hardware



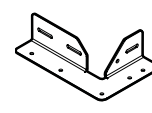
Anchor  
Slide & Nut  
50 per box



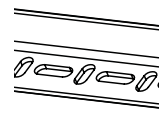
Joining  
Plate  
10 per box



Outer  
Corner  
10 per box



Inner  
Corner  
10 per box



Stretcher  
10 per box

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	WEIGHT/ LAYER	WEIGHT/ PALLET
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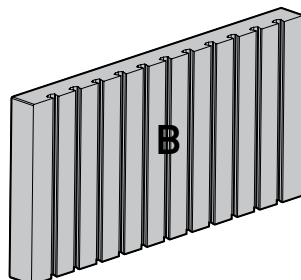
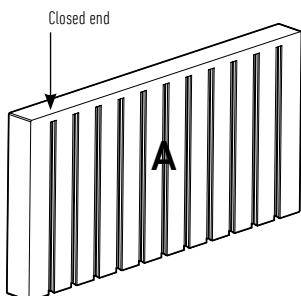
## ARTFORMS

3 X 18 X 36	81	9	9	18*	2	305	2745***
3 X 6 X 36	31.5	10.5	3	21*	7	365	1095

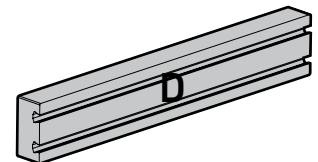
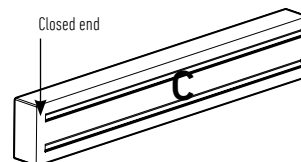
\*Total number of both open and closed end panels. 18 x 36 pallets contain 9 of each. 6 x 36 pallets contain 3 open end panels and 18 closed end panels

\*\*\*150lbs is the weight for the closed units, 148lbs is the weight for the open units.

### 18 X 36 X 3



### 6 X 36 X 3



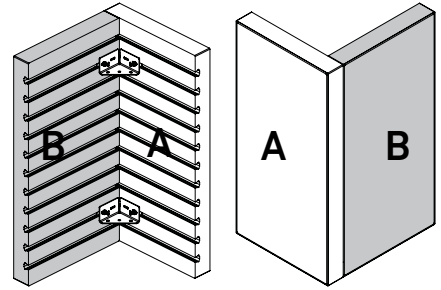
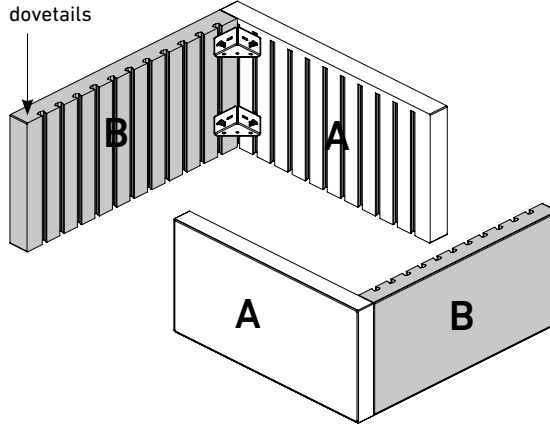


# PANEL CONFIGURATIONS

## IDEAL:

This configuration uses equal number of panel A and panel B.

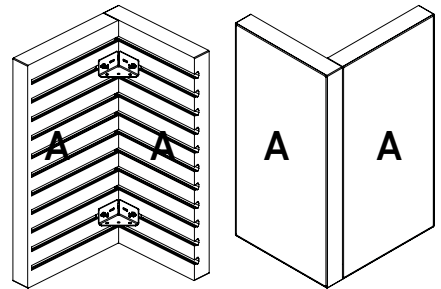
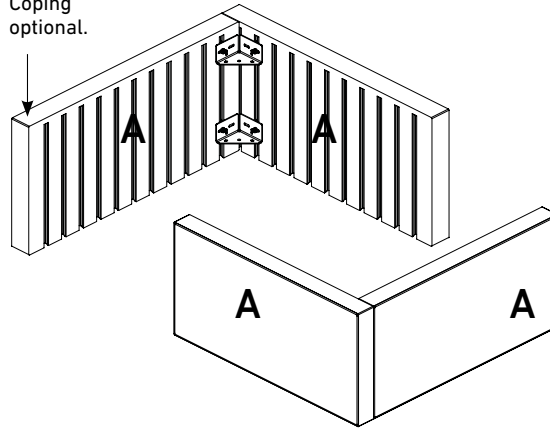
Coping can be used to hide the dovetails



## NOT OPTIMAL:

This configuration uses panel A only.

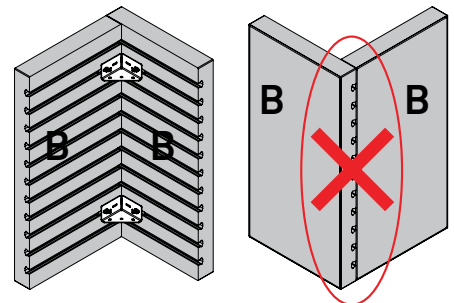
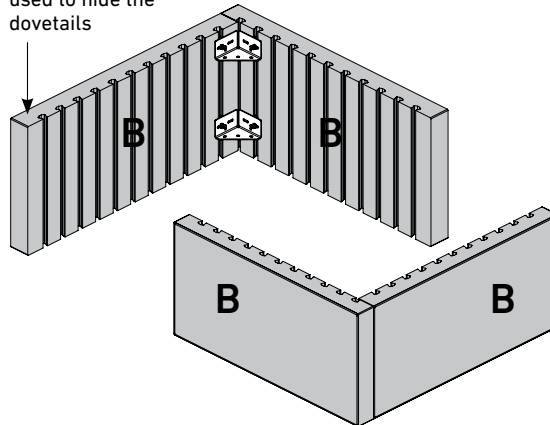
Coping optional.



## NOT RECOMMENDED:

This configuration uses panel B only and the dovetails are exposed. Use ideal configuration as shown above.

Coping can be used to hide the dovetails








\*IMPORTANT: When planning configurations, consider the amount of panel A and panel B on a pallet. 18 x 36' panels are sold in pair/layer or in full pallet only. 6 x 36 panels are sold in layer or in full pallet only.

# LANDINGS™ STEP UNIT

NATURAL  
COLLECTION 

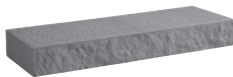


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product information

RESIDENTIAL	COMMERCIAL	STEPS	CAPS	COPING
				
✓	✓	✓	✓	

## SHAPES & SIZES

### Step Unit



6 x 48 x 18

UNIT	LNFT/ PALLET	LNFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	WEIGHT/ UNIT	WEIGHT/ PALLET
STEP UNIT							
6 X 48 X 18	24	-	6	6	2	454.47	2726.82



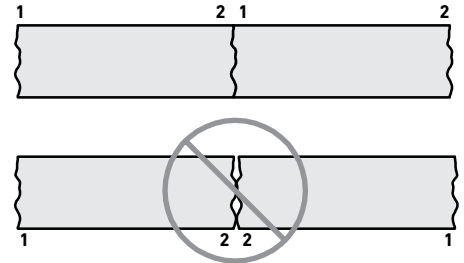
# LANDINGS™ STEP UNIT INSTALLATION

Each Landings™ Step Unit is manufactured with two unique face patterns. The step units are palletized and packaged for easy skid-steer loader removal. Care needs to be taken in handling these units. If a blemish occurs on one side of unit, rotate 180° before setting unit into place.

## BASE COURSE

Excavate an area 6 inches deep by 1 foot longer by 1 foot wider than the installed step(s) size. Add a minimum of 6 inches of compactable base material, 3/4-inch minus (with fines) aggregate. Compact and level. Set unit and, if desired, add a slight pitch of no more than 1/4 inch toward the front of the step to shed moisture. If installing step units next to a retaining wall, keep units level from front to back.

The Textures on Sides 1 and 2 are Designed to Nest with Minimal Gapping Between the Units.



Place Units so They Nest Tightly Together.



Two unique faces on each step

## STAIR TREAD

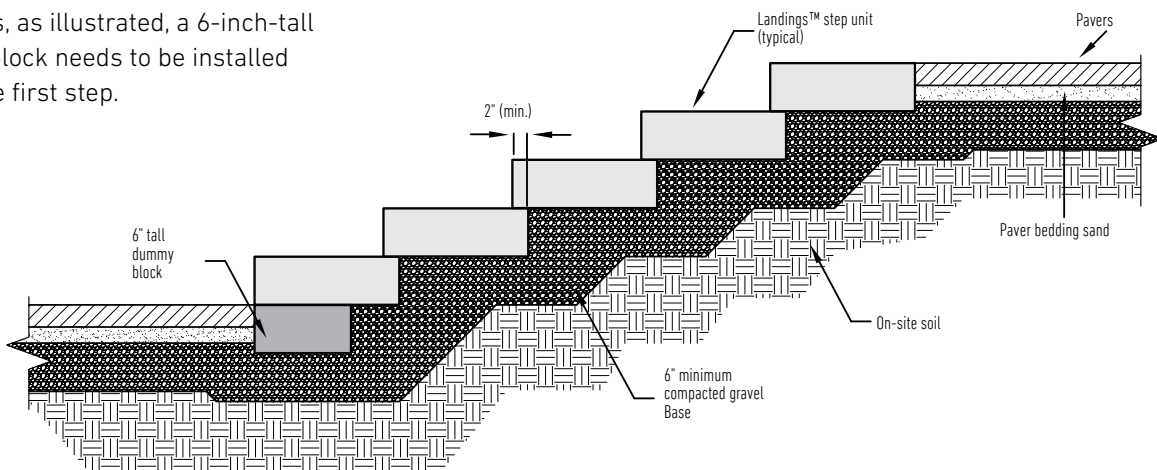
For each consecutive step, follow base course instructions, making sure the top of the base is even with the top of the previously installed unit. Recommended tread depth is a minimum of 10 inches, but no more than 16 inches. When installing steps adjacent to a finished surface such as pavers, as illustrated, a 6-inch-tall dummy block needs to be installed below the first step.

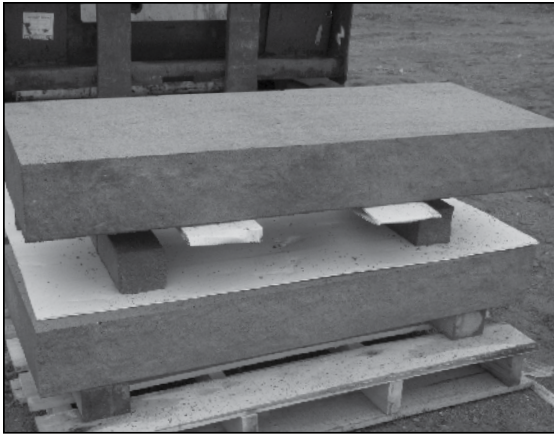
## LANDING

For landing(s) follow base course instructions. Each step unit is manufactured with two unique face patterns. The face patterns are manufactured to nest together, which will create a narrower joint, providing pleasing aesthetics.

## STEPS IN A 90-DEGREE WALL

When building into a retaining wall, construct the steps first and build the walls adjacent to the steps.





## SKID-STEER LOADER

Slide forks underneath the first step unit and lift off pallet. Set the step unit onto its desired location, using a spacer to ease in fork removal.



A helpful tip to protect the step unit is to wrap the fork of the skid-steer with corrugated plastic packaging from the pallet or other protective materials. Secure to the forks.



## CLAMP

Using a materials clamp, center the clamp on the step unit. Attach clamp to skid-steer or mini-excavator and slowly lift the step unit off of the pallet and move it into place. Be sure to have a second person to help guide the unit into place as the machine sets the step unit down.



## STRAPS

When using a heavy duty strap(s), start by wrapping the strap(s) around the center if using one or close to step unit ends if two straps are being used. Cinch the strap(s) tight and attach the looped ends of the strap(s) to skid-steer or mini-excavator. Slowly lift the step unit from the pallet and move it into place. Be sure to have a second person to help guide the unit into place as the machine sets the step unit down. Using a spacer will help to ease in the strap removal.








## CART

When using a cart, place provided corrugated plastic from pallet or other protective material onto the cart to help protect the step unit. With help from a second person, slowly slide the step unit from the pallet onto the cart. Maneuver the unit carefully into place.

Videos can be found on our YouTube channel:  
[www.youtube.com/anchorblockmn](http://www.youtube.com/anchorblockmn)

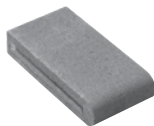


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RESIDENTIAL	COMMERCIAL	STEPS	CAPS	COPING
				
✓		✓	✓	✓

## SHAPES & SIZES

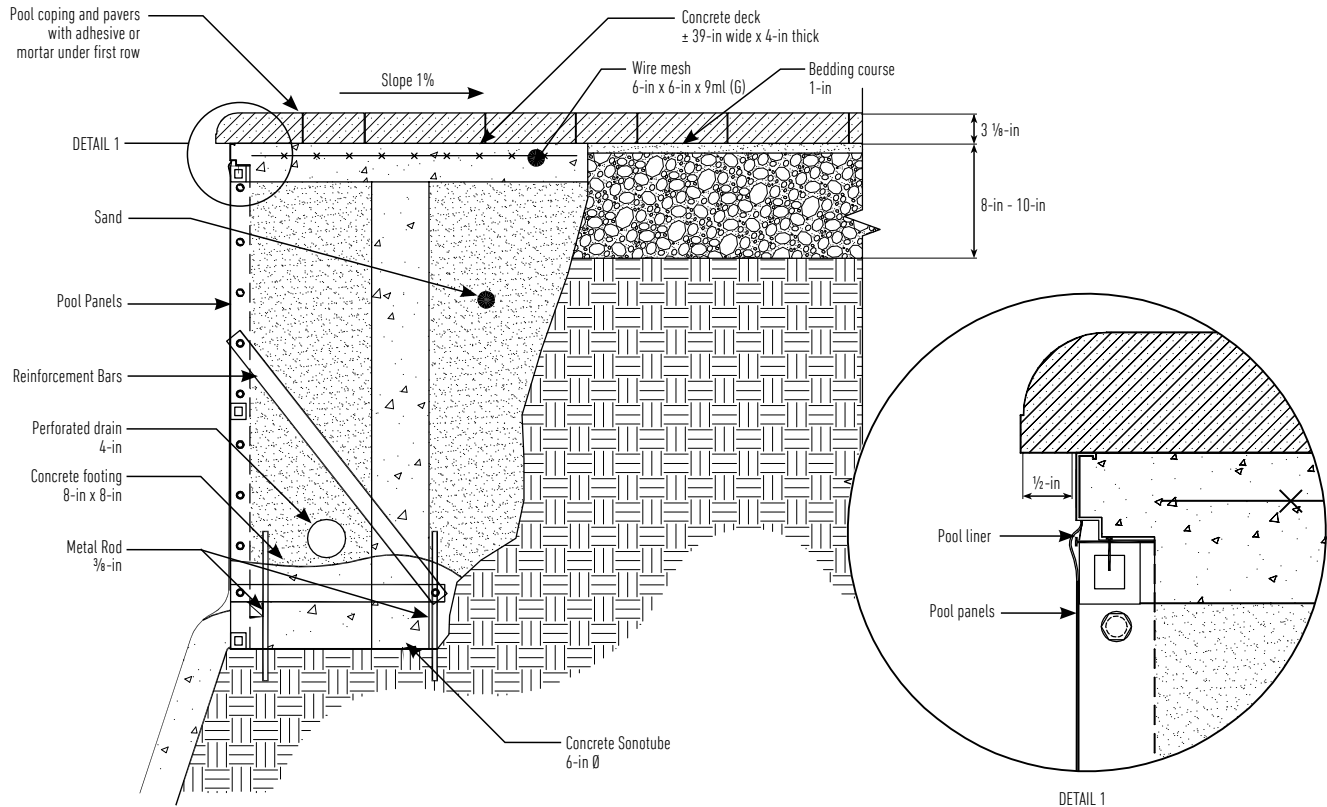
60mm



6 x 12 x 2<sup>3</sup>/<sub>8</sub>

UNIT	SQFT/ PALLET	SQFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ SQFT	WEIGHT/ PALLET
60MM							
6 X 12 X 2 <sup>3</sup> / <sub>8</sub>	63	21	3	126	42	2	1760

## MARINA COPING - POOL INSTALLATION

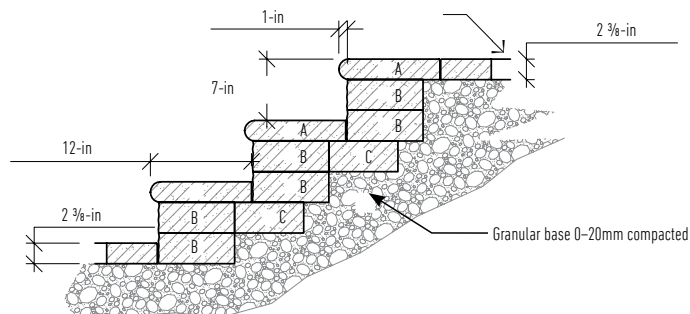


## MARINA COPING - STEP INSTALLATION

### OPTION 1

- A. Marina Coping
- B. Wall Block
- C. Grey block (4 in x 8 in x 16 in) or Wall Block

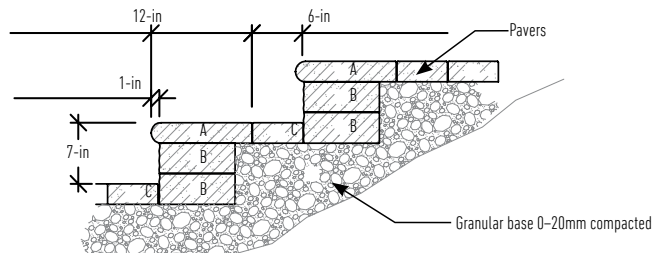
Note: All elements must be glued together with the concrete adhesive



### OPTION 2






- A. Marina Coping
- B. Wall Block

Note: A & B elements must be glued together with the concrete adhesive.



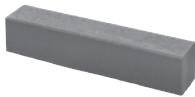


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product information

RESIDENTIAL	COMMERCIAL	STEPS	CAPS	COPING
				
✓	✓			

## SHAPES & SIZES

### Curb



4 x 24 x 6½

UNIT	LNFT/ PALLET	LNFT/ LAYER	LAYER/ PALLET	UNITS/ PALLET	UNITS/ LAYER	UNITS/ LNFT	WEIGHT/ PALLET
CURB							
4 X 24 X 6½	96	24	4	48	12	0.5	2480

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