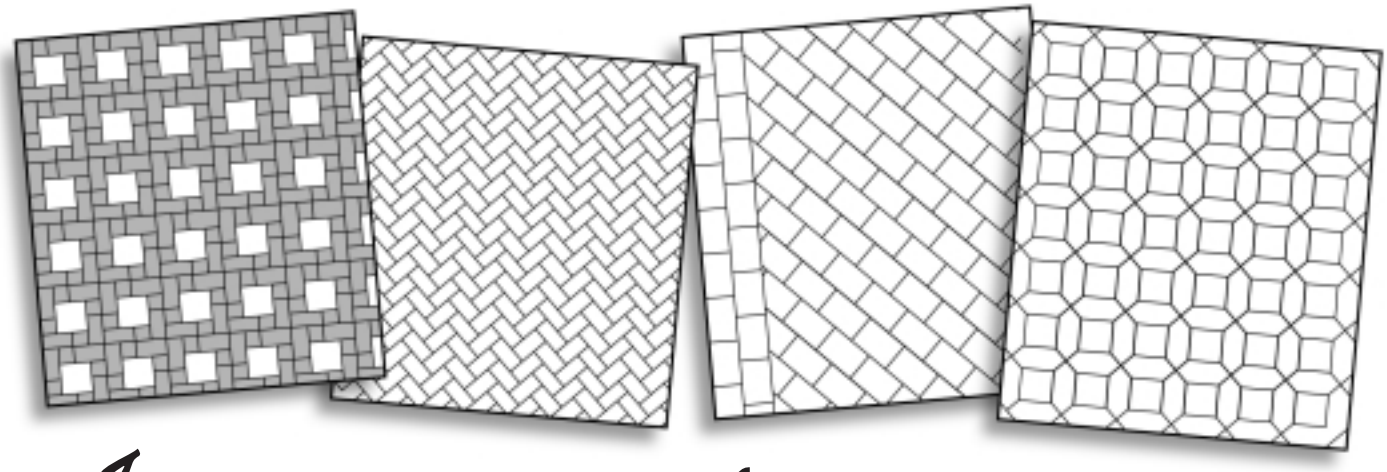
DesignScaping

Installation Patterns Using Cambridge Pavingstones With ArmorTec



Imagine... with dozens of Cambridge shapes and colors to choose from, you can create your own personal design for a driveway, walkway, patio, sunroom or any area you're planning to pave. For your convenience, we are providing you with some popular DesignScaping patterns for your consideration. Remember, using Cambridge Pavingstones with ArmorTec, the design possibilities are endless.

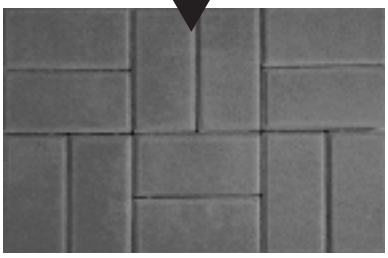
"They'll Look Like New Forever."

Cambridge Pavingstones™

With The ARMORTEC™ Surface

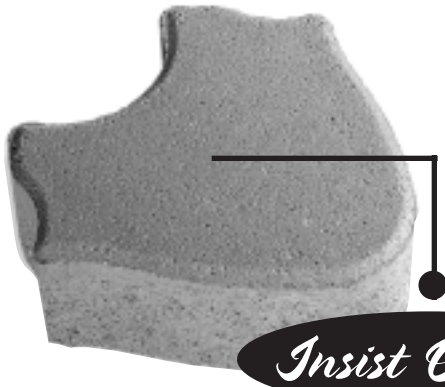
Cambridge Pavingstones With ArmorTec Are Superior! Here's Why:

WITH ARMORTEC



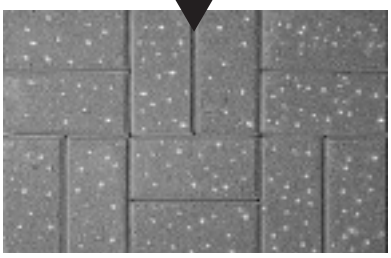
The technologically-advanced ArmorTec surface – exclusively on Cambridge Pavingstones – preserves the paver's rich color and smooth surface forever.

The ArmorTec Advantage



Insist On It!

WITHOUT ARMORTEC



In pavers without ArmorTec, beauty is compromised when the surface reveals small stones (aggregate) after only one year of ordinary wear.

Cambridge Pavers, Inc. ▲ PO Box 157 ▲ Lyndhurst, NJ 07071.0157

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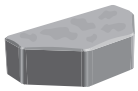
DESIGNSCAPING USING CAMBRIDGE PAVINGSTONES™ WITH ARMORTEC™

Installation Pattern DSR-001

From The Cambridge RoundTable Collection. See Instructions For Placement In Chart At Bottom.

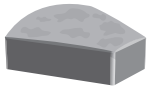
CIRCLE DESIGN KIT

Consists Of These 6 Numbered Shapes:

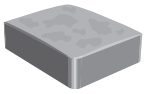


Circle I
Center

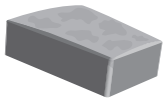
Circle II
Small w/Angled Top



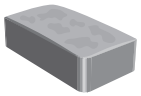
Circle III
Small w/Curved Top



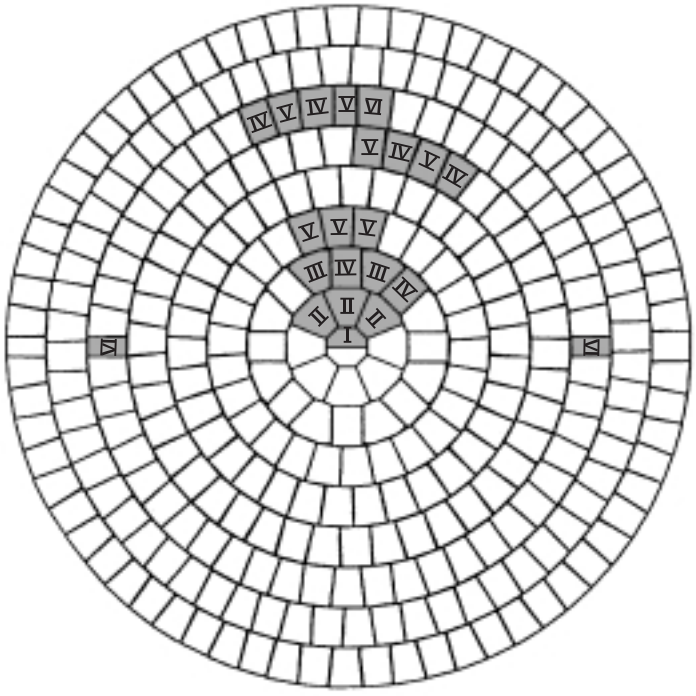
Circle IV
Three Quarter Rectangular



Circle V
Large Tapered



Circle VI
Half



Circle Design Kit

RING NO. ON PATTERN	CIRCLE DIAMETER	NO. OF PCS. & SHAPE FOR EACH RING
Center	6″	2 *pieces of* Circle I
1	17 1/2″	8 *pieces of* Circle II
2	29″	8 *pieces of* Circle III 8 *pieces of* Circle IV *alternate shapes*
3	41″	26 *pieces of* Circle V
4	53″	34 *pieces of* Circle V
5	65″	21 *pieces of* Circle IV 21 *pieces of* Circle V *alternate shapes*
6	77″	24 *pieces of* Circle V 25 *pieces of* Circle IV *alternate shapes* 3 *pieces of* Circle VI *place on opposite sides of ring*
7	89″	29 *pieces of* Circle IV 30 *pieces of* Circle V *alternate shapes* 1 *piece of* Circle VI
8	101″	34 *pieces of* Circle V 33 *pieces of* Circle IV *alternate shapes* 1 *piece of* Circle VI

Upon Completion, There Will Remain Four Of I, II & III; Sixteen Of IV; Twenty-Three Of V And One Of VI.

To Expand This 8′ 5″ Diameter Circle, A Second Circle Design Kit Is Necessary (See Ring Numbers 9-12).
For Ring Numbers 11 & 12, Add One Band Of 4 1/2 x 6 To Your Order.

RING NO. ON PATTERN	CIRCLE DIAMETER	NO. OF PCS. & SHAPE FOR EACH RING
9	112″	38 *pieces of* Circle IV 38 *pieces of* Circle V *alternate shapes*
10	124″	42 *pieces of* Circle IV 42 *pieces of* Circle V *alternate shapes*
11	136″	44 *pieces of* Circle V 40 *pieces of* Circle IV *alternate shapes* 2 *pieces of* Circle VI 10 *pieces of* 4 1/2 x 6 *place anywhere in ring*
12	148″	48 *pieces of* Circle V 51 *pieces of* 4 1/2 x 6 *alternate shapes* 2 *pieces of* Circle VI *place anywhere in ring*

To Achieve Ring Numbers In Excess Of 12, Add The Appropriate Number Of 4 1/2 x 6 Pavingstones

13	160″	107 *pieces of* 4 1/2 x 6
14	172″	115 *pieces of* 4 1/2 x 6
15	184″	124 *pieces of* 4 1/2 x 6

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Appendix To DSR-001A

DETERMINING SQUARE FOOTAGE FOR A CIRCLE AREA AND OTHER GEOMETRY

Formulas To Help In Calculating The "Not So Standard" Projects.

AREA OF CIRCLE FORMULA – AREA = π r^2

(3.14) (radius)2

2 Examples For A Circle Installation

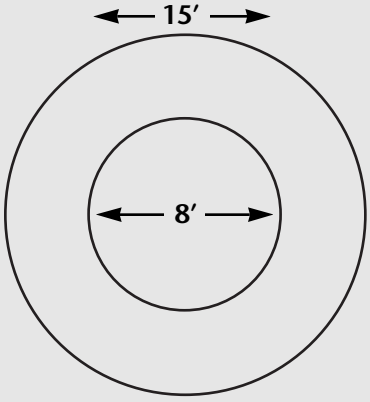
1 15′ Diameter Circle – Area = π r^2

Area = π $(7.5)^2$ = 177 sq. ft.

(3.14)(7.5 x 7.5) = 177 sq. ft.

2 circle cubes = 100 sq. ft.
(sq. ft. based on what pieces are applicable)
4 1/2 x 6 = 77 sq. ft.

2 A 15′ Diameter Circle With An 8′ Planter In The Center



15′ diameter = 177 sq. ft.
8′ diameter = $(\pi)(4)^2$ = 50.25 sq. ft. = *177 sq. ft. – 50.25 sq. ft. = 126.75*
(Subtract outer circle from inner circle)
1 circle cube - 50 sq. ft.
4 1/2 x 6 - 77 sq. ft.

Table One: Formulas

Circle	$A = \pi r^2$, $C=2\pi r$	Cube	$V = s^3$
Parallelogram	$A = bh$	Rectangle box	$V = lwh$
Right Triangle	$A = 1/2bh$, $c^2 = a^2 + b^2$	Right Circular Cylinder	$V = \pi r^2 h$
Square	$A = s^2$	Pyramid	$V = 1/3\ Bh$
Trapezoid	$A = 1/2h\ (b+b1)$	Right Circular Cone	$V = 1/3\pi r^2 h$
Triangle	$A = 1/2bh$	Sphere	$V = 4/3\pi r^3$
Sphere	$A = 4\pi r^2$		

Table Two: American System Of Weights And Measures

LENGTH

12 inches = 1 foot
3 feet = 1 yard
5 1/2 yards = 1 rod
5280 feet = 1 land mile
6076 feet = 1 nautical mile

WEIGHT

16 ounces = 1 pound
2000 pounds = 1 ton
2240 pounds = 1 long ton

AREA

144 square inches = 1 square foot
9 square feet = 1 square yard
160 square rods = 1 acre
640 square acres = 1 square mile

CAPACITY DRY MEASURE

2 pints = 1 quart
8 quarts = 1 peck
4 pecks = bushel

LIQUID MEASURE

16 fluid ounces = 1 pint
2 pints = 1 quart
4 quarts = 1 gallon
231 cubic inches = 1 gallon

VOLUME

1728 cubic inches = 1 cubic foot
27 cubic feet = 1 cubic yard

Table Three: Metric System Of Weights And Measures

LENGTH	10 millimeters (mm) = 1 centimeter (cm) = 0.3937 inch 100 centimeters = 1 meter (m) = 39.37 inches 1000 meters = 1 kilometer (km) = 0.6214 mile 1 square meter = 10.75 square feet
CAPACITY	1000 milliliters (ml) = 1 liter (l) = 1.057 quart 1000 liters (l) = 1 kiloliter (kl) = 264.2 gallons
WEIGHT	1000 milligrams (mg) = 1 gram (g) = 0.0353 ounce 1000 grams (g) = 1 kilogram (kg) = 2.205 pounds

INSTALLATION PATTERN DSR-001B

CREATING FANS USING A CIRCLE DESIGN KIT

From The Cambridge RoundTable & Renaissance Collections.

Cambridge Cutting Templates

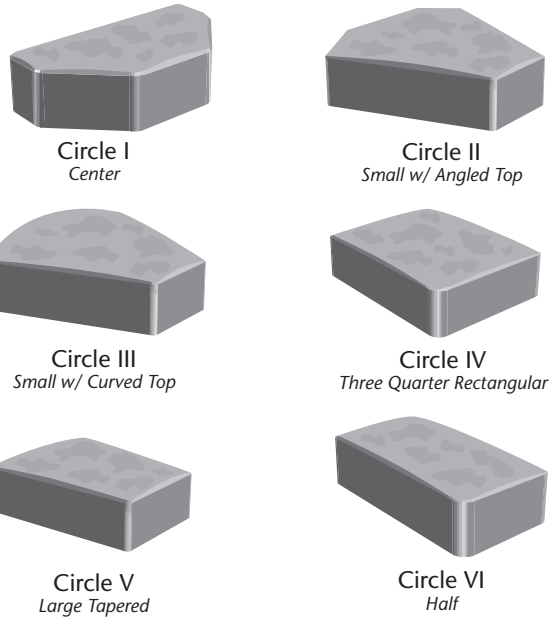
With only thirteen cuts per fan, four fans consisting of a center paver and six rings can be created from each Circle Design Kit. Each fan will measure 65"w x 37"d. One kit will also accommodate two half radius patterns that are necessary to complete the design. See C on Drawing No. 1: Fan Pattern Installation Detail below.

A fan design can be created from the six paver shapes included in the Cambridge Circle Design Kit. However, to place fans into a field of Cambridge Pavingstones, five of the shapes in the kit will require precision cuts. Five convenient cutting templates can be found on a separate sheet included in this instruction package. Cut out each template along the outer edge.

To achieve a proper fit where one fan meets another, mark the prescribed cuts by placing specific templates on top of the shapes that require cutting. See reverse side for instructions on using the templates.

Cambridge Circle Design Kit

The Cambridge Circle Design Kit Consists Of These 6 Numbered Shapes:



Circle I
Center

Circle II
Small w/ Angled Top

Circle III
Small w/ Curved Top

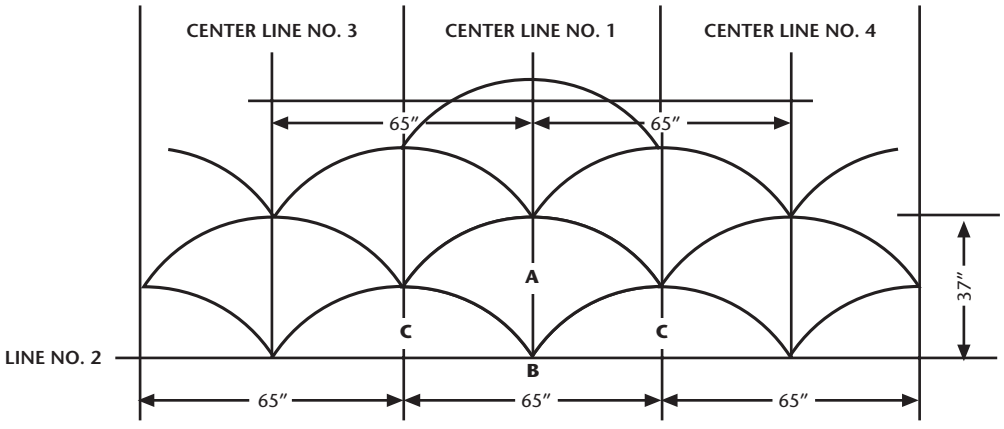
Circle IV
Three Quarter Rectangular

Circle V
Large Tapered

Circle VI
Half

Proper Installation Procedures

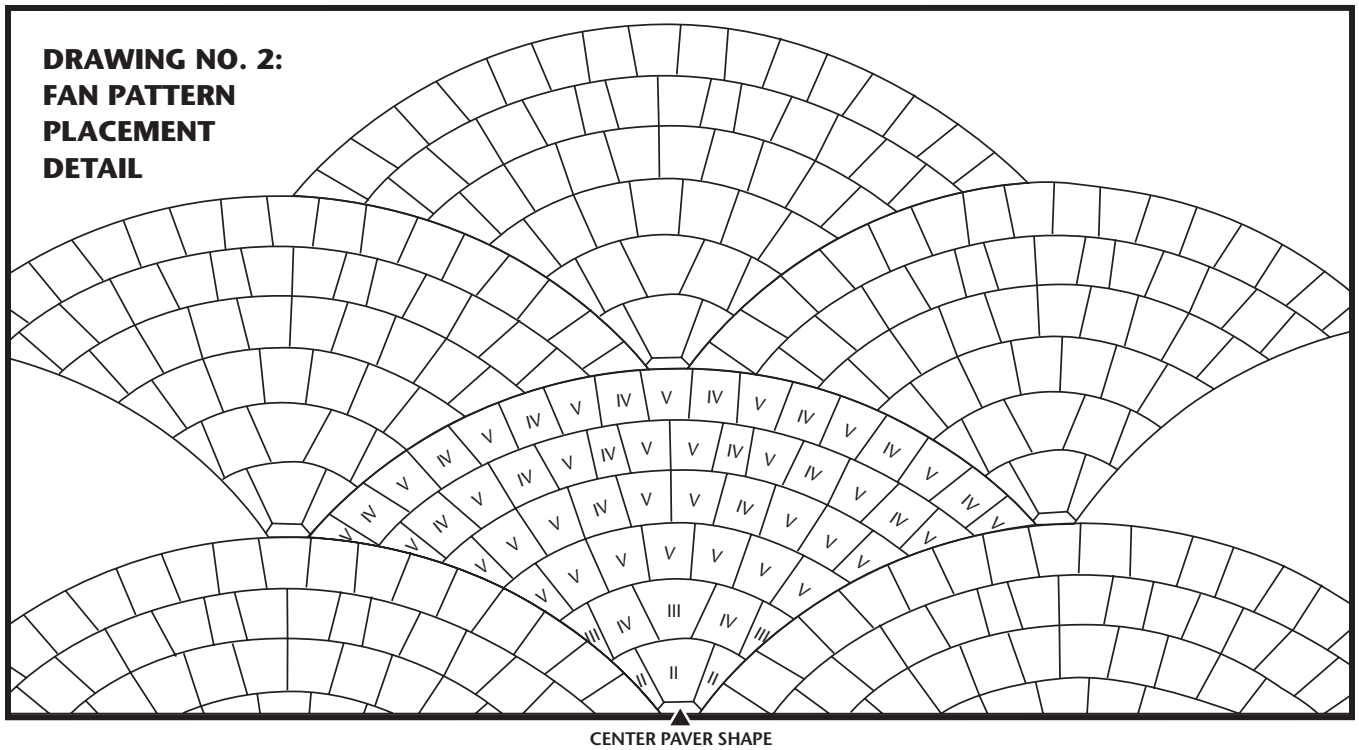
1. Make sure that a properly compacted quarry process base and layer of screeded C-33 sand has been installed.
2. Run first string line down the center of the laying surface. See Center Line No.1 on Drawing No.1: Fan Pattern Installation Detail.
3. Run a perpendicular line across the front of the laying face. See Line No. 2 on Drawing No. 1: Fan Pattern Installation Detail. To square up string lines, start the 3-4-5 triangle at B on Drawing No. 1: Fan Pattern Installation Detail. Leave sufficient room for the border course between Line No. 2 and the edge restraint.
4. Start the first fan. See A on Drawing No. 1: Fan Pattern Installation Detail. Follow instructions carefully, making sure that the appropriate pavers for each row are laid over Center Line No. 1. **Note that this is the ONLY method that will maintain symmetry of bond lines throughout the pattern. Straying from lines could tighten one side of the pattern and open the other.**
5. Run two additional string lines parallel with Center Line No. 1. Refer to Center Line No. 3 on left and Center Line No. 4 on right on Drawing No. 1: Fan Pattern Installation Detail. Repeat this step as many times as needed to fill the width of the laying face.
6. Repeat Step 4 on Lines No. 3 and 4. Make sure that the radii of the outer fans meet. See Drawing No. 1: Fan Pattern Installation Detail.
7. Fill in with a half radius against the lower concave radius of each fan starting with Ring No. 6. Work back to Ring No. 3 as needed. See C on Drawing No. 1: Fan Pattern Installation Detail.



DRAWING NO. 1: FAN PATTERN INSTALLATION DETAIL

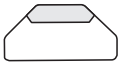
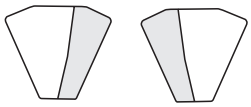
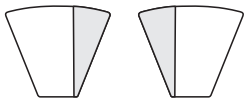
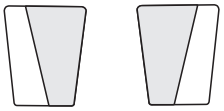
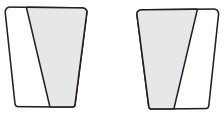
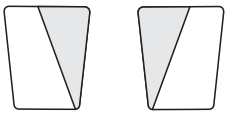
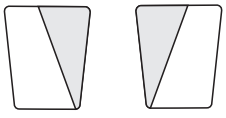
"They'll Look Like New Forever."

Cambridge Pavingstones™



PROPER INSTALLATION & CUTTING PROCEDURES

Refer To Drawing 2: Fan Pattern Placement Detail

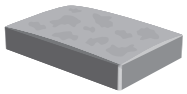
RING	LEFT HAND CUT / RIGHT HAND CUT (Shaded Area = Cut Pc. Used)	SHAPES	TEMPLATE	INSTRUCTIONS
Center		1 of Circle I	No.1	Using Template No. 1, cut a Center paver shape and place it.
No. 1		3 of Circle II	No. 2	Center first Circle II paver on center line. Using Template No. 2 and Circle II paver shapes, cut a right and left hand piece and place them at ends.
No. 2		3 of Circle III 2 of Circle IV	No. 3	Center one Circle III paver shape on center line. Add two Circle IV paver shapes. Using Template No. 3 and Circle III paver shapes, cut a right and left hand piece and place them at ends.
No. 3		7 of Circle V	No. 4	Place one paver on center line. Add remaining pavers. Using Template No. 4 and Circle V paver shapes, cut a right and left hand piece and place them at ends.
No. 4		2 of Circle IV 8 of Circle V	No. 4	Place one Circle V paver shape to the left and one to the right of center line. Add remaining pavers. Alternate shapes. Using Template No. 4 and Circle V paver shapes, cut a right and left hand piece and place them at ends.
No. 5		4 of Circle IV 8 of Circle V 2 of Circle VI	No. 5	Place two Circle V paver shapes in the same starting position as Ring No. 4. Add remaining pavers. Alternate shapes. Using Template No. 5 and Circle V paver shapes, cut a right and left hand piece and place them at ends.
No. 6		8 of Circle IV 9 of Circle V	No. 5	Place one Circle V paver shape on center line. Alternate Circle IV and Circle V paver shapes. Using Template No. 5 and Circle V paver shapes, cut a right and left hand piece and place them at ends.

Note: It will be necessary to cut six additional Circle VI paver shapes (two for the fourth fan and two for each half radius).

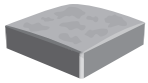
DESIGNSCAPING USING CAMBRIDGE PAVINGSTONES™ WITH ARMORTEC™

Installation Pattern No. DSR-002

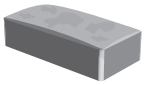
From The Cambridge RoundTable Collection.



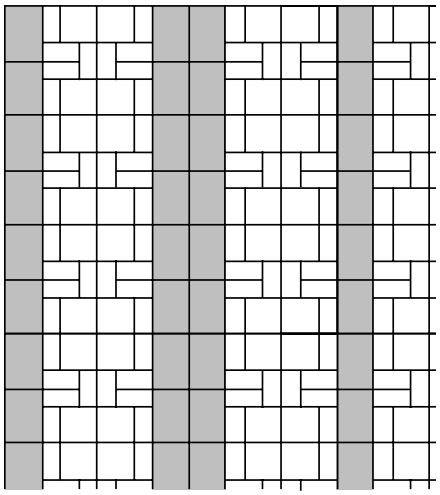
6 x 9 (40%)



6 x 6 (27%)

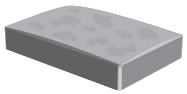


3 x 6 (33%)

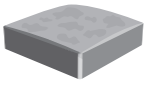


Installation Pattern No. DSR-003

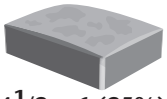
From The Cambridge RoundTable Collection.



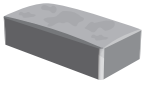
6 x 9 (25%)



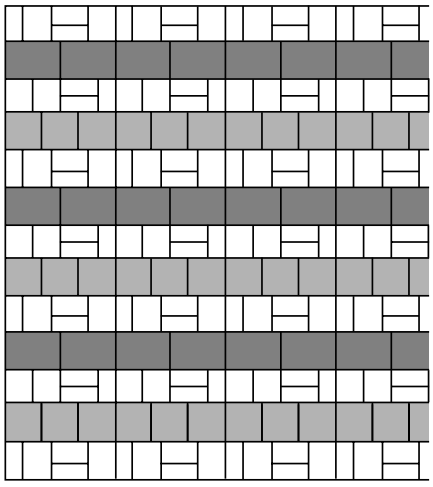
6 x 6 (25%)



4 1/2 x 6 (25%)

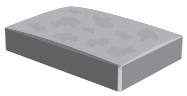


3 x 6 (25%)

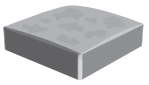


Installation Pattern No. DSR-004

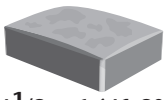
From The Cambridge RoundTable Collection.



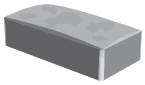
6 x 9 (16.8%)



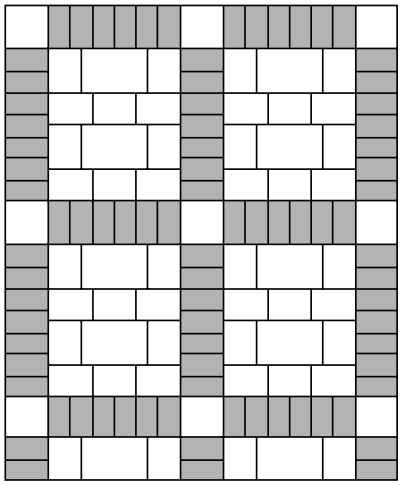
6 x 6 (5.5%)



4 1/2 x 6 (41.9%)

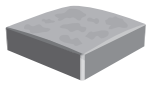


3 x 6 (35.8%)

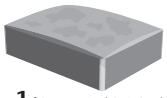


Installation Pattern No. DSR-005

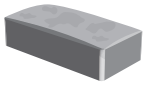
From The Cambridge RoundTable Collection.



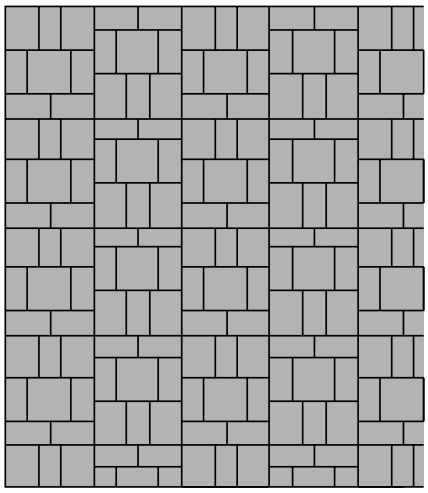
6 x 6 (20%)



4 1/2 x 6 (30%)

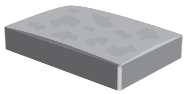


3 x 6 (50%)

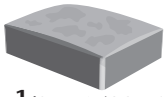


Installation Pattern No. DSR-006

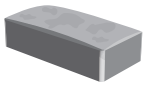
From The Cambridge RoundTable Collection.



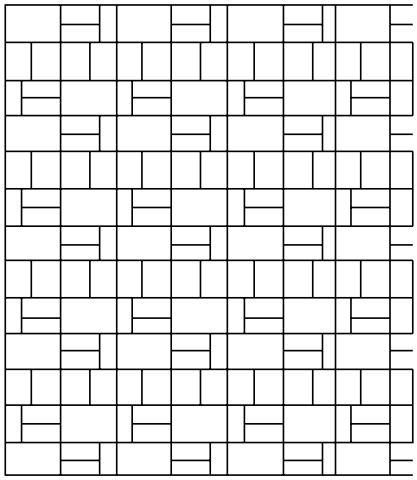
6 x 9 (33.5%)



4 1/2 x 6 (33.5%)

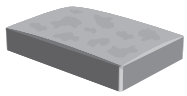


3 x 6 (33%)

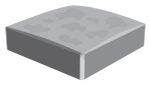


Installation Pattern No. DSR-007

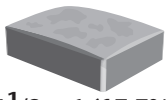
From The Cambridge RoundTable Collection.



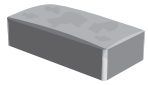
6 x 9 (35.5%)



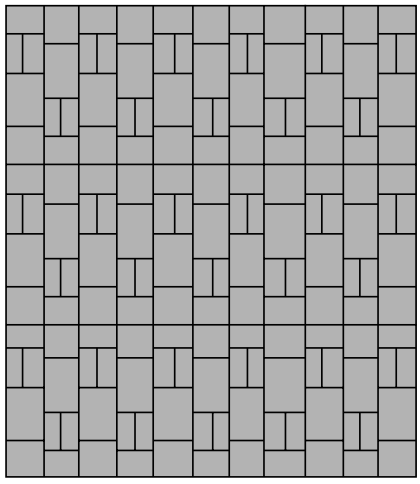
6 x 6 (23.4%)



4 1/2 x 6 (17.7%)

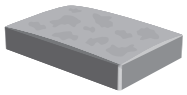


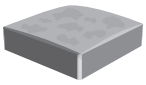
3 x 6 (23.4%)

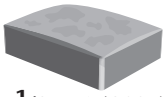


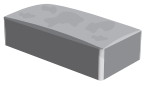
Installation Pattern No. DSR-008

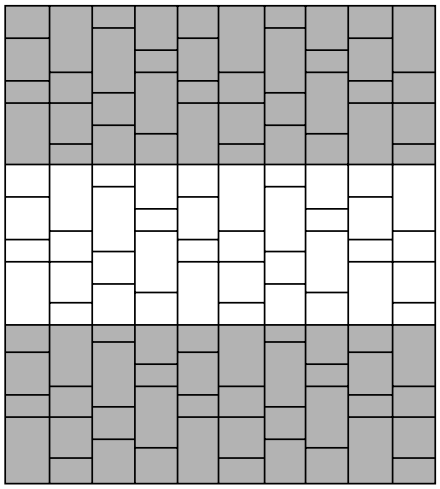
From The Cambridge RoundTable Collection.


6 x 9 (40%)


6 x 6 (26%)

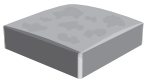

4 1/2 x 6 (20%)

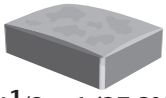

3 x 6 (13%)

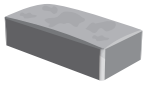


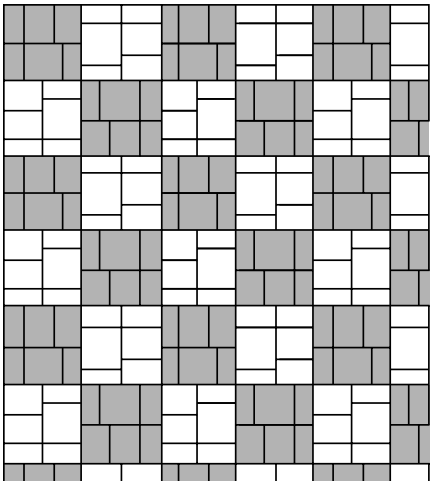
Installation Pattern No. DSR-009

From The Cambridge RoundTable Collection.


6 x 6 (24.9%)

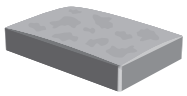

4 1/2 x 6 (37.8%)

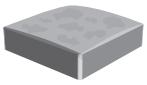

3 x 6 (37.3%)

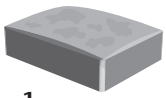


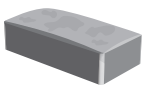
Installation Pattern No. DSR-010

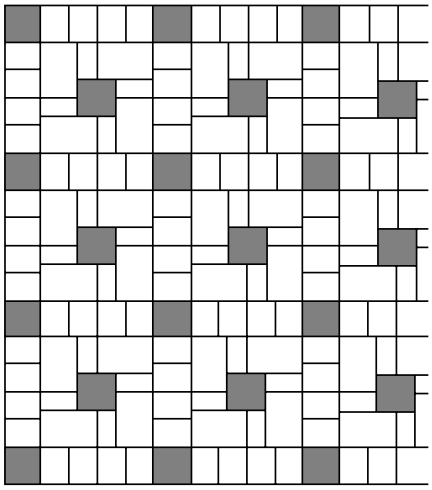
From The Cambridge RoundTable Collection.


6 x 9 (38%)


6 x 6 (12%)

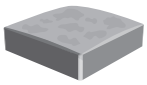

4 1/2 x 6 (38%)

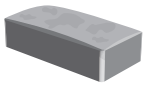

3 x 6 (12%)

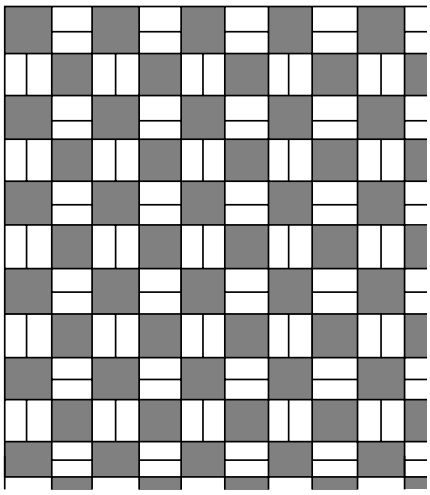


Installation Pattern No. DSR-011

From The Cambridge RoundTable Collection.

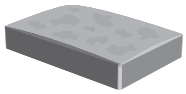

6 x 6 (50%)

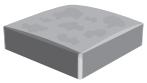

3 x 6 (50%)

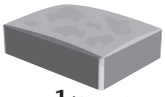


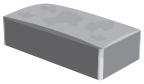
Installation Pattern No. DSR-012

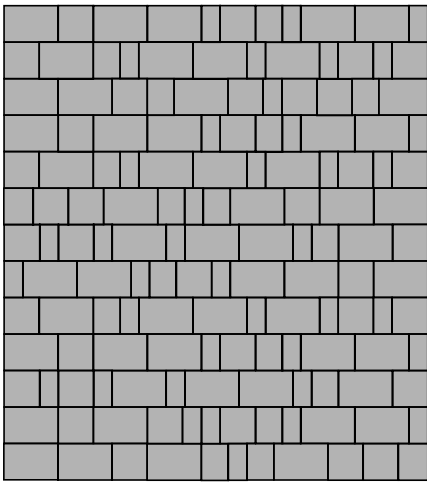
From The Cambridge RoundTable Collection.


6 x 9


6 x 6

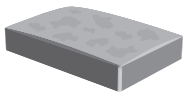

4 1/2 x 6

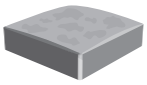

3 x 6



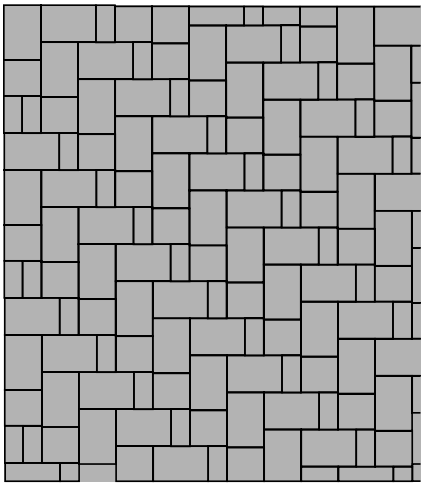
Installation Pattern No. DSR-013

From The Cambridge RoundTable Collection.


6 x 9 (67%)

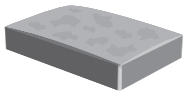

6 x 6 (22%)

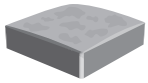

3 x 6 (11%)

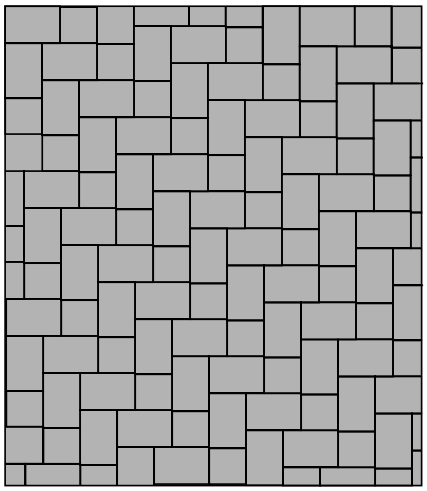


Installation Pattern No. DSR-014

From The Cambridge RoundTable Collection.

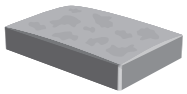

6 x 9 (75%)

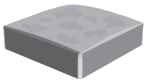

6 x 6 (25%)

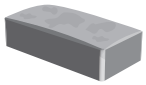


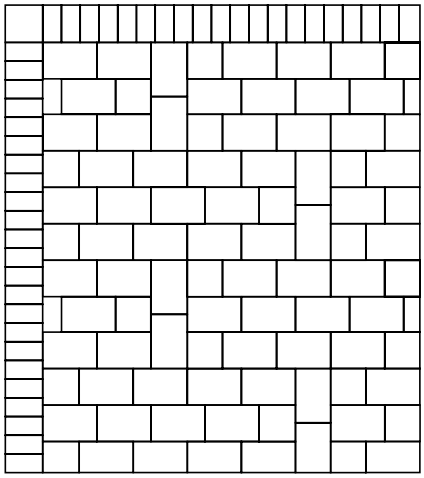
Installation Pattern No. DSR-015

From The Cambridge RoundTable Collection.


6 x 9 (88%)

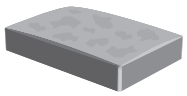

6 x 6 (12%)

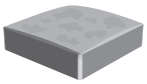

3 x 6

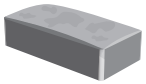


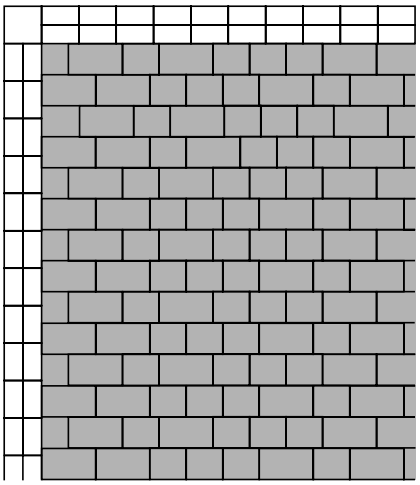
Installation Pattern No. DSR-016

From The Cambridge RoundTable Collection.


6 x 9

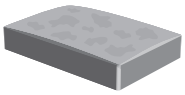

6 x 6

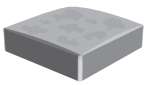

3 x 6

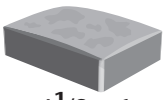


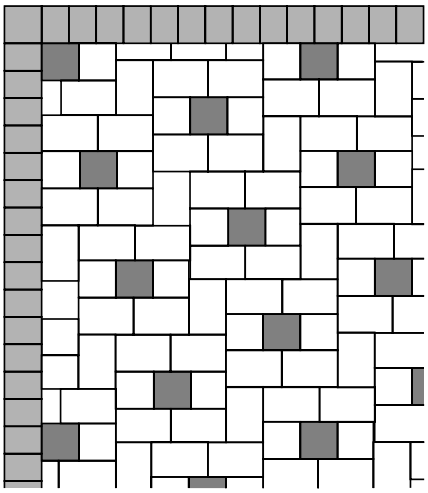
Installation Pattern No. DSR-017

From The Cambridge RoundTable Collection.


6 x 9 (72%)

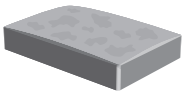

6 x 6 (28%)

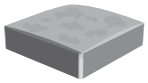

4 1/2 x 6

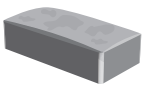


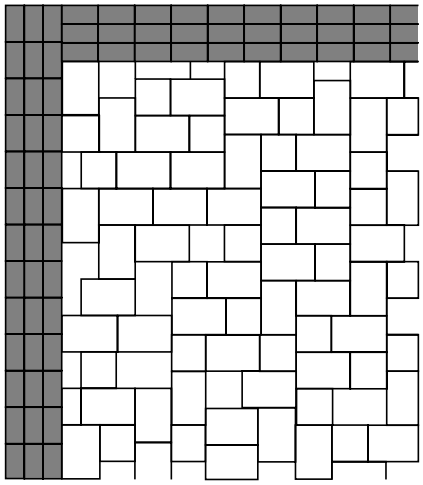
Installation Pattern No. DSR-018

From The Cambridge RoundTable Collection.


6 x 9

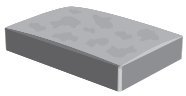

6 x 6

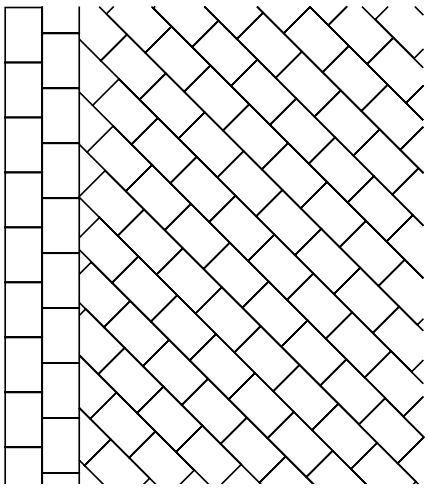

3 x 6



Installation Pattern No. DSR-019

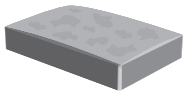
From The Cambridge RoundTable Collection.


6 x 9 (100%)

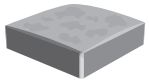


Installation Pattern No. DSR-020

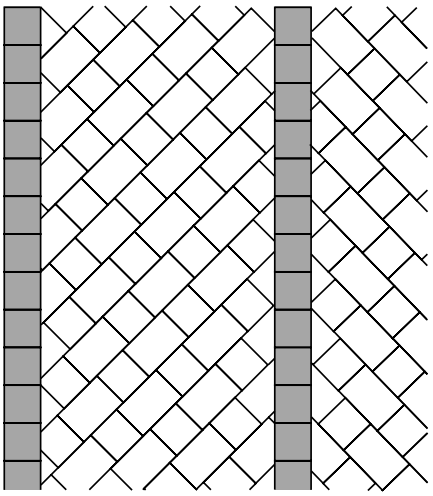
From The Cambridge RoundTable Collection.



6 x 9 (60%)

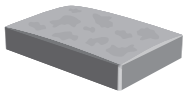


6 x 6 (40%)

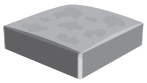


Installation Pattern No. DSR-021

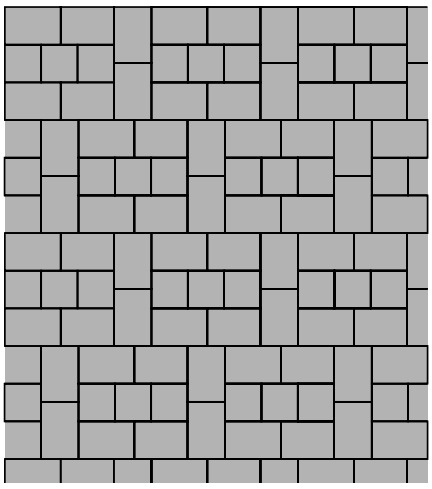
From The Cambridge RoundTable Collection.



6 x 9 (75%)

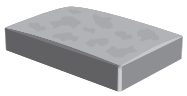


6 x 6 (25%)

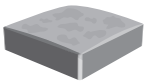


Installation Pattern No. DSR-022

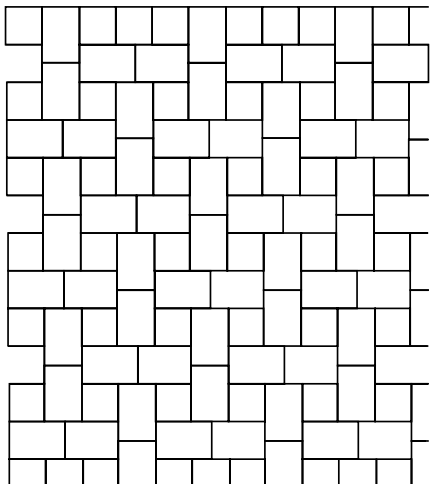
From The Cambridge RoundTable Collection.



6 x 9 (75%)

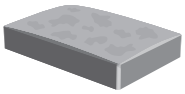


6 x 6 (25%)

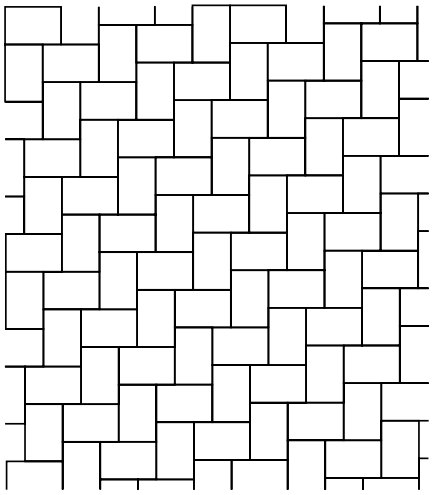


Installation Pattern No. DSR-023

From The Cambridge RoundTable Collection.

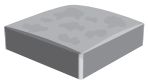


6 x 9 (100%)

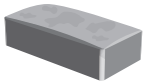


Installation Pattern No. DSR-024

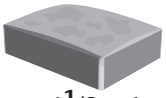
From The Cambridge RoundTable Collection.



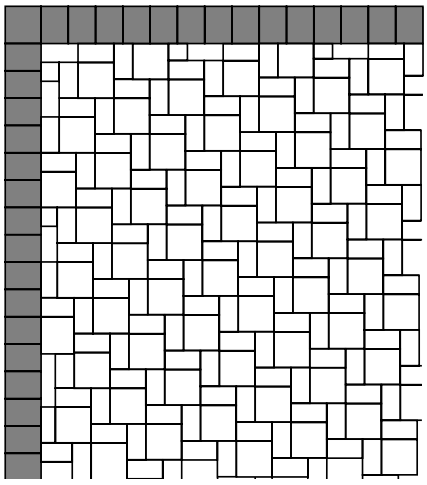
6 x 6 (50%)



3 x 6 (50%)

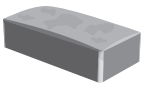


4 1/2 x 6

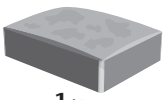


Installation Pattern No. DSR-025

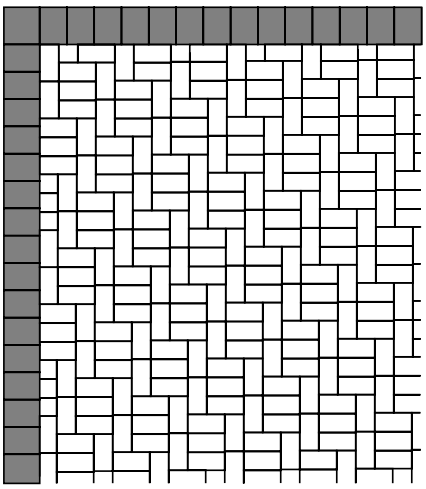
From The Cambridge RoundTable Collection.



3 x 6 (100%)



4 1/2 x 6

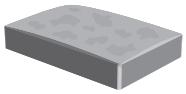


DESIGNSCAPING USING CAMBRIDGE PAVINGSTONES™ WITH ARMORTEC™

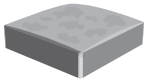
Installation Pattern No. DSR-026

From The Cambridge RoundTable Collection.

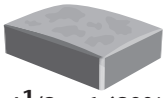
CAMBRIDGE RANDOM DESIGN KIT



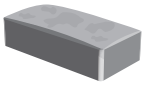
6 x 9 (40%)



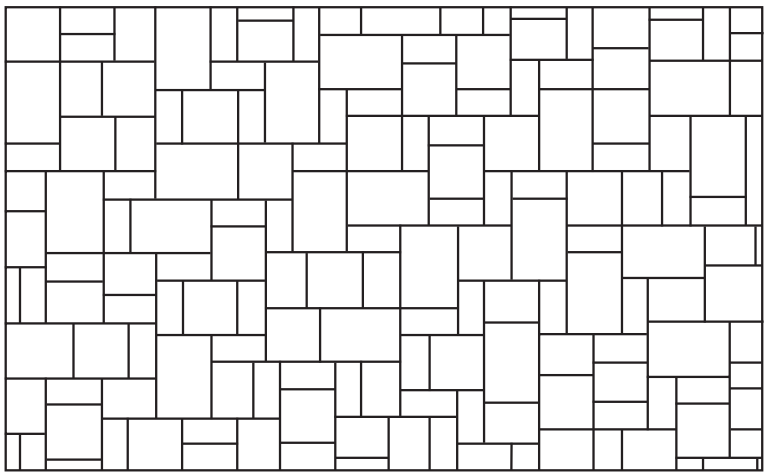
6 x 6 (27%)



4 1/2 x 6 (20%)



3 x 6 (13%)



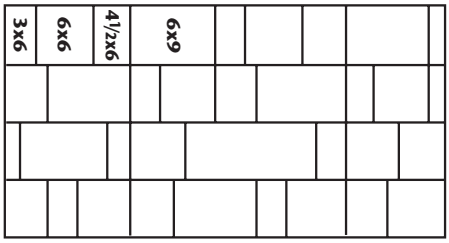
EXAMPLE 1: RANDOM PLACEMENT PATTERN

You can choose one of 5 standard Cambridge Blends for each 113 Sq. Ft. Random Design Kit. If you opt to use a standard solid color in one or more of the shapes in your random pattern, these shapes must be ordered individually from your authorized Cambridge Pavingstones distributor.

Example:

Breakdown Of A Typical 1000 Sq. Ft. Installation

6 x 9 (40%)	=	400 Sq. Ft.
6 x 6 (27%)	=	270 Sq. Ft.
4 1/2 x 6 (20%)	=	200 Sq. Ft.
3 x 6 (13%)	=	130 Sq. Ft.
Total		**1,000 Sq. Ft.**

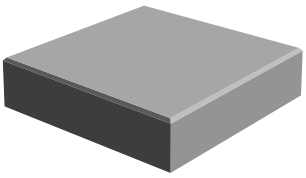


EXAMPLE 2: RUNNING BOND PATTERN

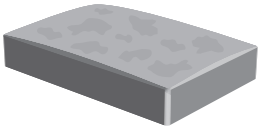
Note: *Order an additional 5% of material to allow for cuts and field changes.*

Installation Pattern No. DSR-027

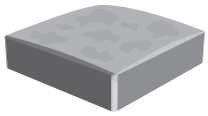
RANDOM LAYING PATTERNS USING 12 X 12 FROM THE CAMBRIDGE RENAISANCE COLLECTION



12 x 12 (29%)

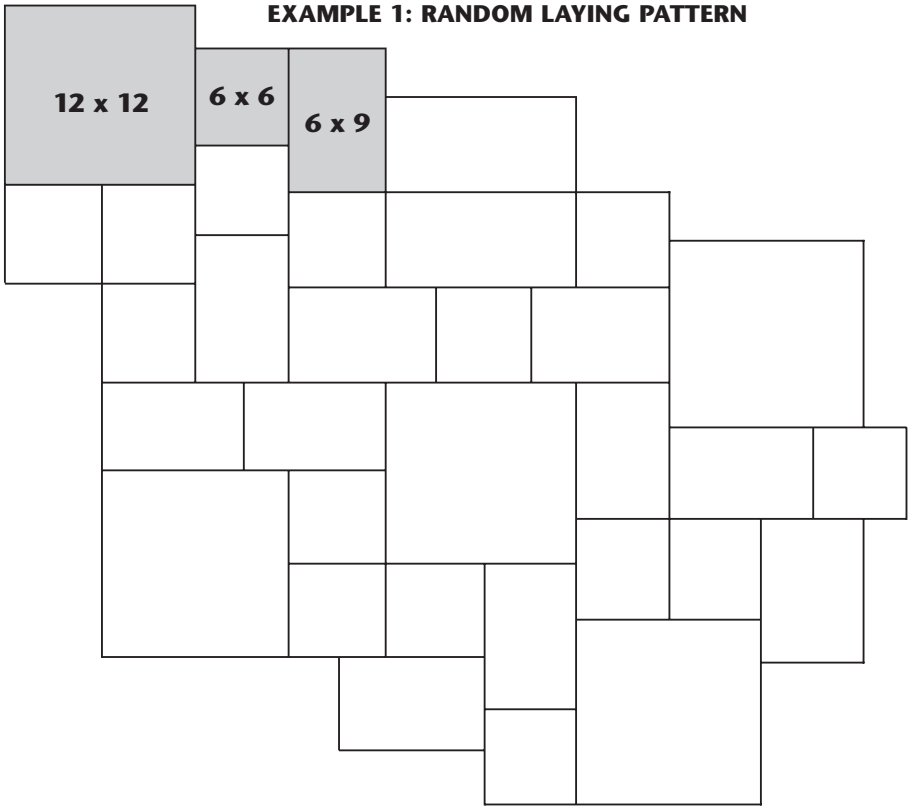


6 x 9 (42%)

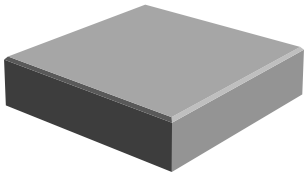


6 x 6 (29%)

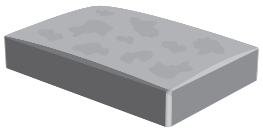
EXAMPLE 1: RANDOM LAYING PATTERN



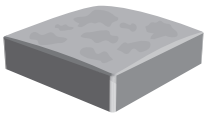
EXAMPLE 2: RATIOS TO CONSIDER



12 x 12 (15%)

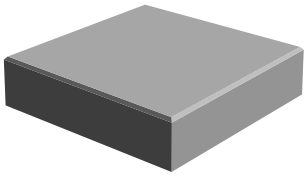


6 x 9 (51%)

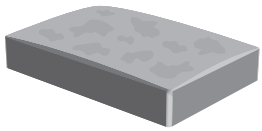


6 x 6 (34%)

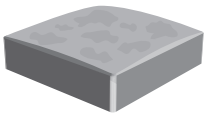
EXAMPLE 3: RATIOS TO CONSIDER



12 x 12 (15%)



6 x 9 (64%)



6 x 6 (21%)

Note: *Order an additional 5% of material to allow for cuts and field changes.*