

CREATIVE /
STORIES
OF COLOR

CURATED /
RECYCLED
SHAPES

CRAFTED /
PREMIER
STOCK

MAISON

collection 2018

GEOMETRO

NEW
NOSTALGIA
UNDERSTATED & ELEGANT



maisonsurface.com



The contemporary style of Geometro features innovative geometric patterns, in a trendy color palette, which are key to the modern look.

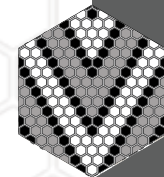
Our Rectified Recycled Glass collection offers a near-perfect straight edge, and a flat surface. Five new patterns, four solid colors in a square shape, all in a matte finish. It is crafted entirely from recycled glass that is ground to fine powder and molded under extreme pressure and heat. Colored with inert natural minerals and enamel, it is a full body product immune from fading or discoloration, showing equal color thru & thru.

Our special-order program spans to one hundred twenty-nine striking colors, and sixty shapes in both matte and polish finish.

Find your inspiration on a picture, fabric swatch, or a magazine cut-out.

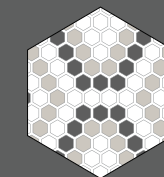
Geometro glass tiles welcome mixing and matching colors and finishes transforming any inspiration into a custom design.

Our experienced team is available to navigate our material selection and fully understand your design intent.

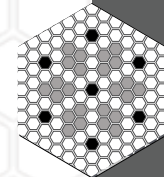


01

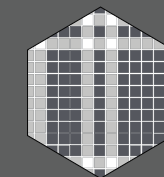
AMIENS
Coastal • Classic • Country



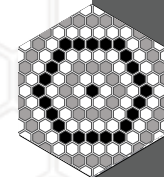
PYTHON
Hydra • Draco • Hopi



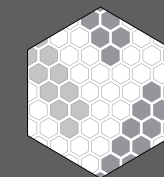
BAYEAUX
Coastal • Classic • Country



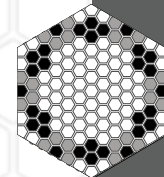
HIGHLAND
Bristol • Preston • Lancaster



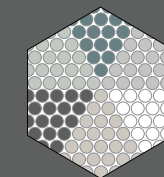
BELFORT
Coastal • Classic • Country



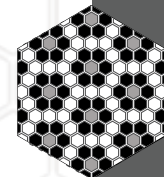
MISSONI
Retro • Zip • Vintage



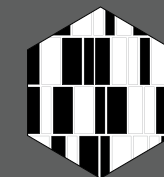
BOURGES
Coastal • Classic • Country



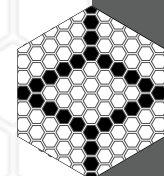
HYGGE
Log • Glow



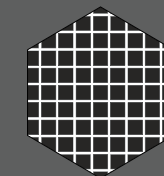
DIJON
Coastal • Classic • Country



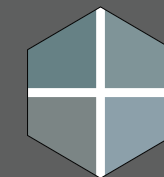
BARCODE
Puzzle • Crypto



TULLE
Coastal • Classic • Country



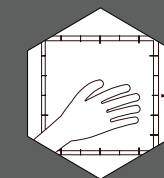
SOLIDS
S2: Chalk • Frost • Graphite • Raven
H1: Cloud • Flint • Smoke • Flaxen • Dusk



COLOR PALETTE
Special Order Shapes



CUSTOM GLASS MOSAIC
Artistic Mosaic • Pixel Art



INSTALLATION GUIDELINES
Pattern Diagrams • Settings Systems



SPECIFICATIONS
Testing Results • Applications



AMIENS

AMIENS

COASTAL

PART NUMBER

GLSGEOAMIENSCOAS

MATERIAL

RECYCLED GLASS

FINISH

MATTE

SF/SHEET

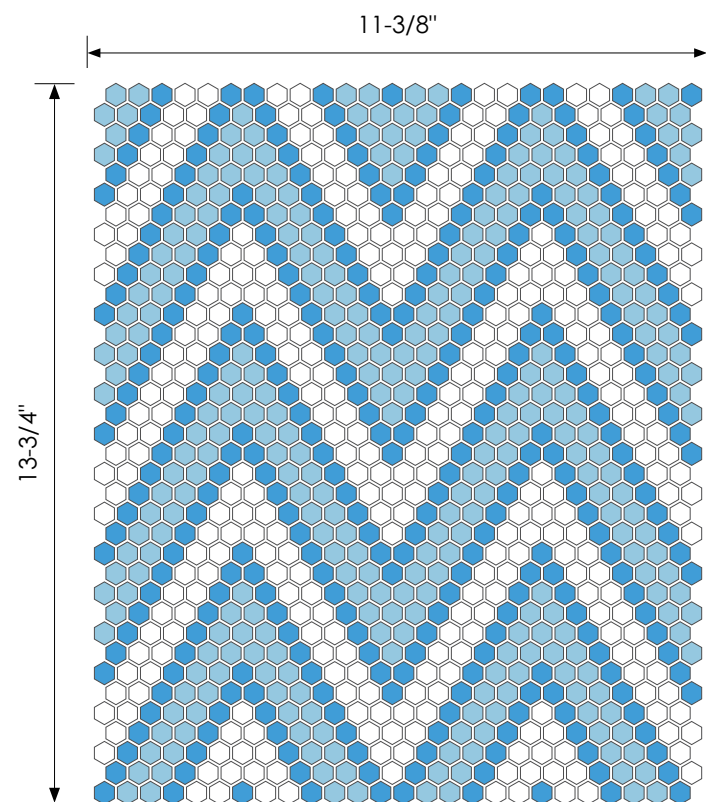
1.09

SF/CASE

7.63

CASE QUANTITY

7 PCS



AMIENS

CLASSIC

PART NUMBER

GLSGEOAMIENSCLAS

MATERIAL

RECYCLED GLASS

FINISH

MATTE

SF/SHEET

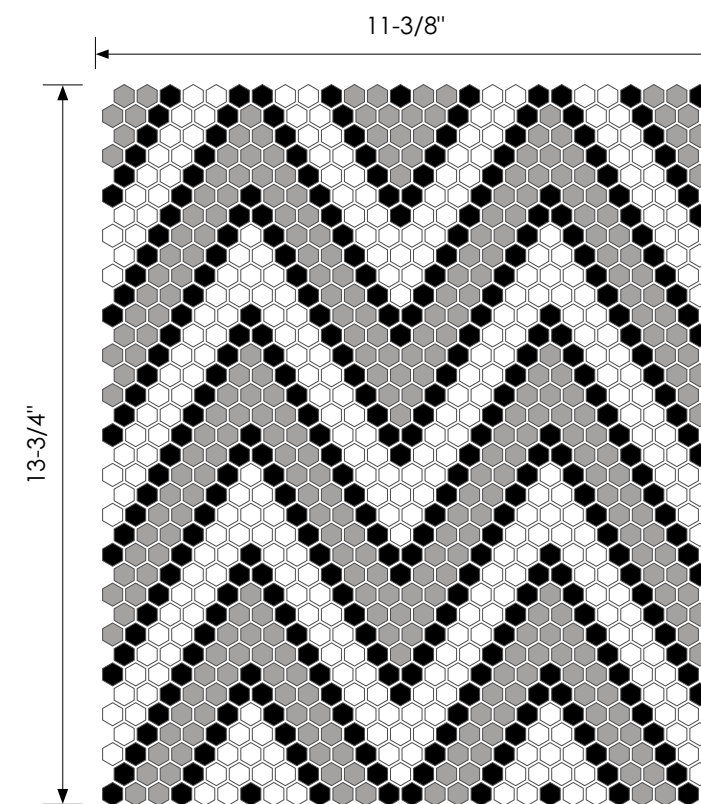
1.09

SF/CASE

7.63

CASE QUANTITY

7 PCS



AMIENS

COUNTRY

PART NUMBER

GLSGEOAMIENSCOUN

MATERIAL

RECYCLED GLASS

FINISH

MATTE

SF/SHEET

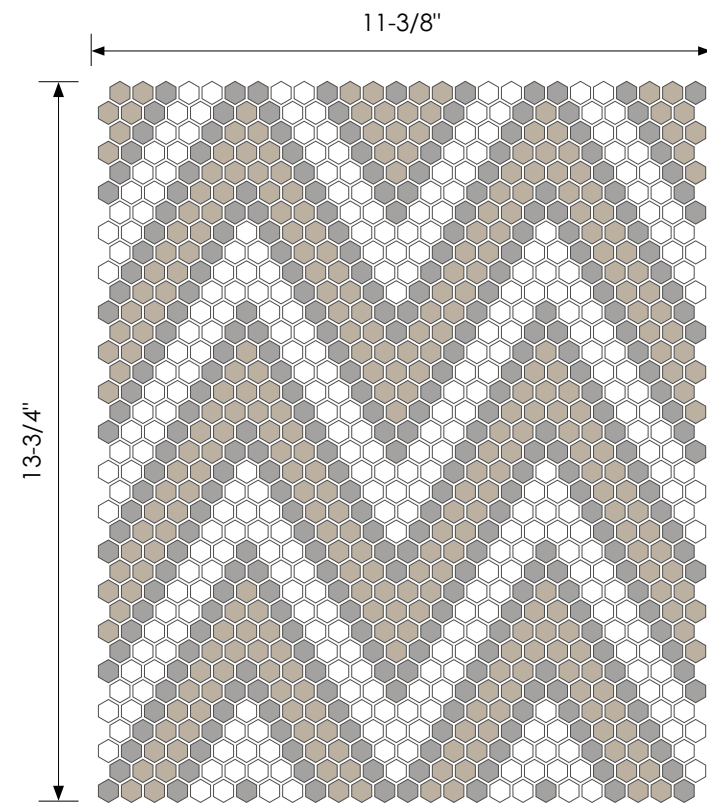
1.09

SF/CASE

7.63

CASE QUANTITY

7 PCS





BAYEUX

BAYEUX

COASTAL

PART NUMBER

GLSGEOBAYEUXCOAS

MATERIAL

RECYCLED GLASS

FINISH

MATTE

SF/SHEET

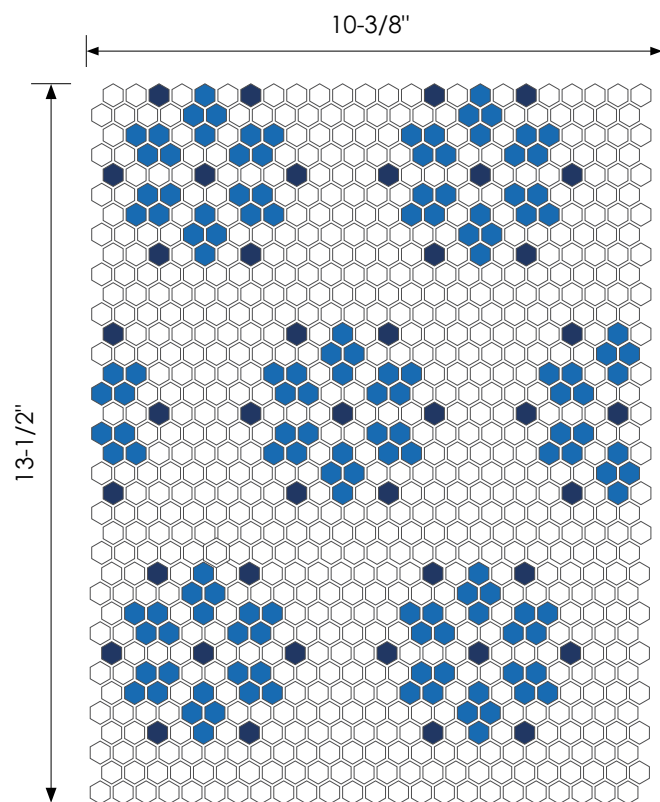
0.97

SF/CASE

6.79

CASE QUANTITY

7 PCS



BAYEUX

CLASSIC

PART NUMBER

GLSGEOBAYEUXCLAS

MATERIAL

RECYCLED GLASS

FINISH

MATTE

SF/SHEET

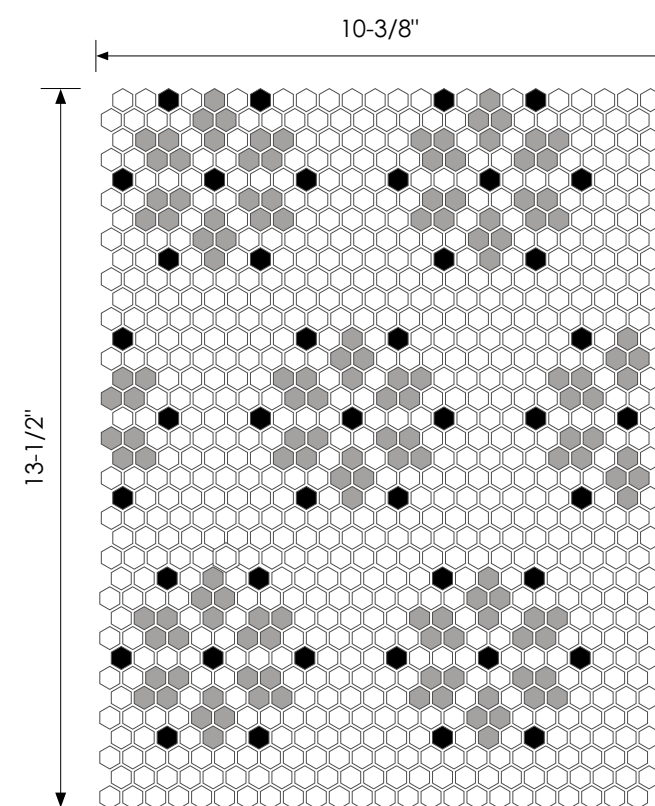
0.97

SF/CASE

6.79

CASE QUANTITY

7 PCS



BAYEUX

COUNTRY

PART NUMBER

GLSGEOBAYEUXCOUN

MATERIAL

RECYCLED GLASS

FINISH

MATTE

SF/SHEET

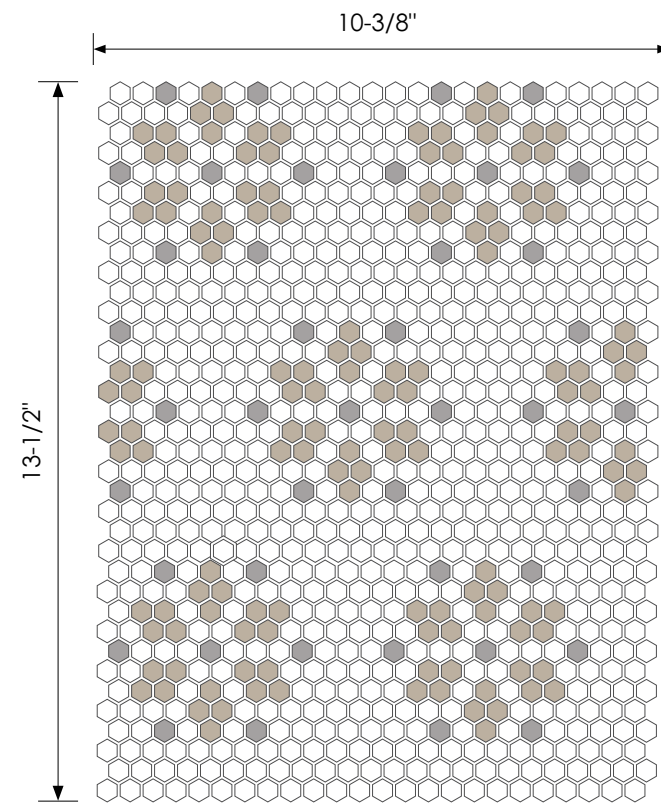
0.97

SF/CASE

6.79

CASE QUANTITY

7 PCS





BELFORT

BELFORT

COASTAL

PART NUMBER
GLSGEOBELFORTCOAS

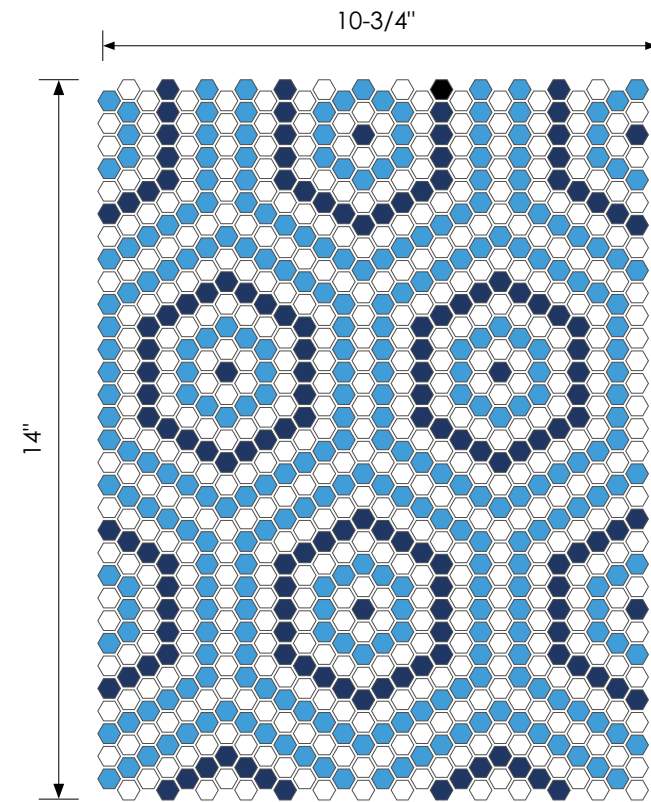
MATERIAL
RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.05

SF/CASE
7.35

CASE QUANTITY
7 PCS



BELFORT

CLASSIC

PART NUMBER
GLSGEOBELFORTCLAS

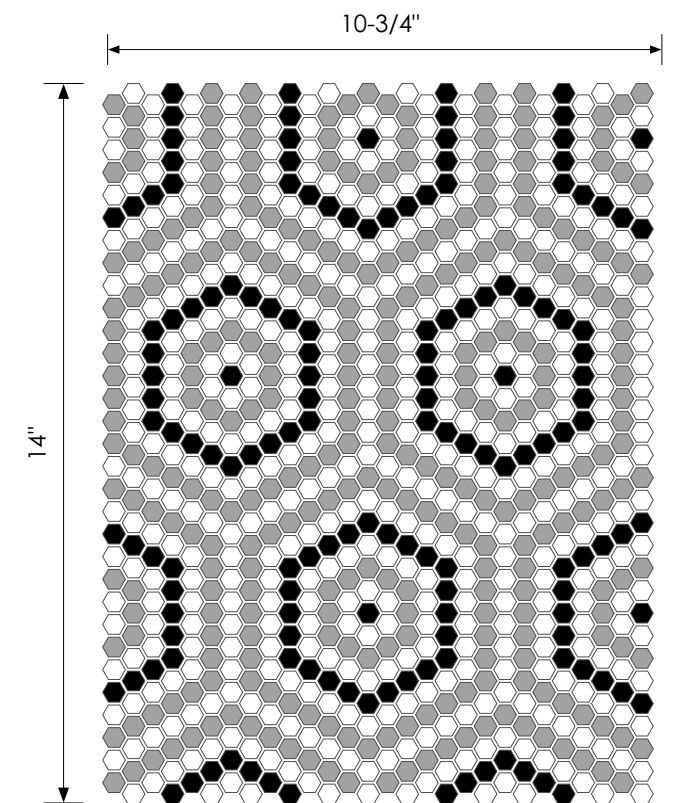
MATERIAL
RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.05

SF/CASE
7.35

CASE QUANTITY
7 PCS



BELFORT

COUNTRY

PART NUMBER
GLSGEOBELFORTCOUN

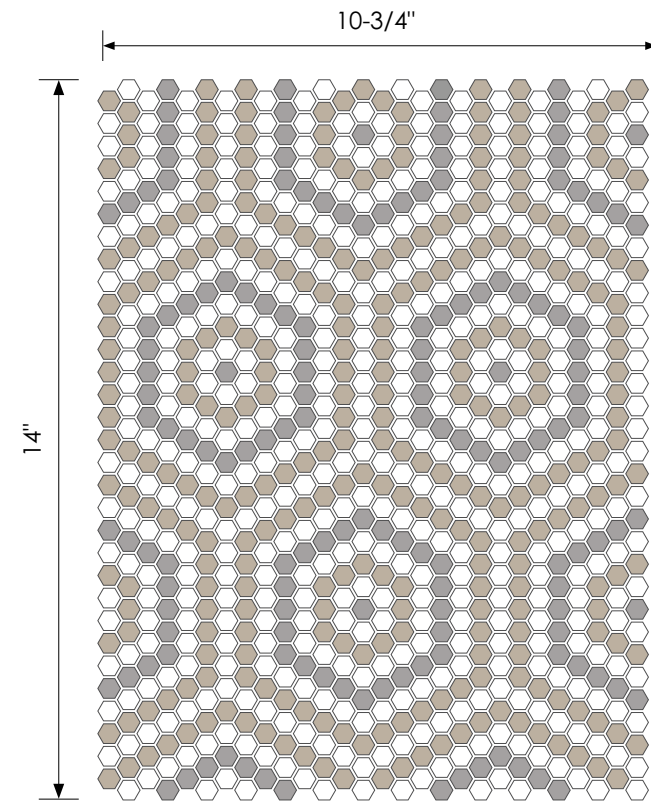
MATERIAL
RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.05

SF/CASE
7.35

CASE QUANTITY
7 PCS





BOURGES

BOURGES

COASTAL

PART NUMBER

GLSGEOBOURGESCOAS

MATERIAL

RECYCLED GLASS

FINISH

MATTE

SF/SHEET

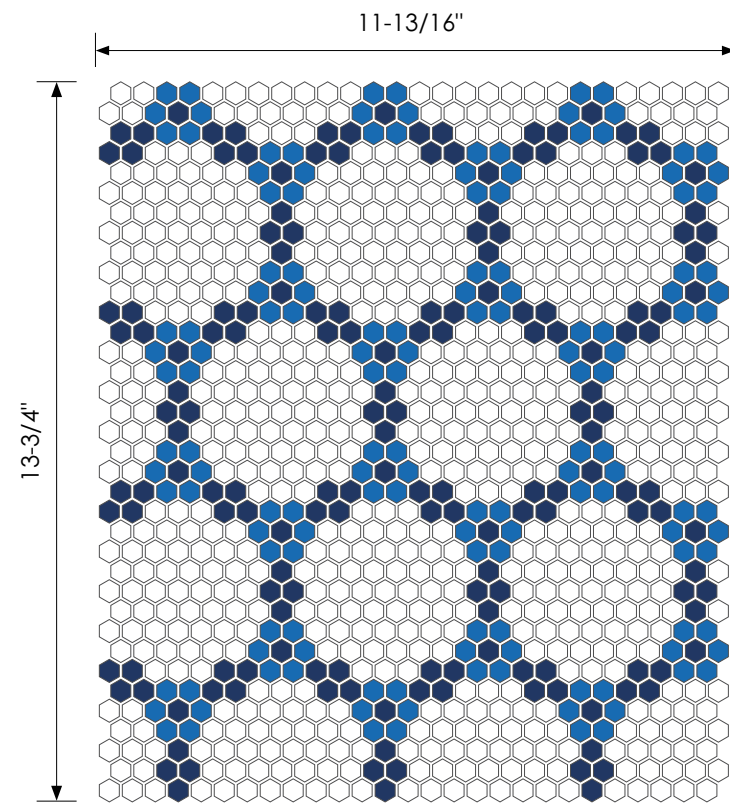
1.13

SF/CASE

7.91

CASE QUANTITY

7 PCS



BOURGES

CLASSIC

PART NUMBER

GLSGEOBOURGESCLAS

MATERIAL

RECYCLED GLASS

FINISH

MATTE

SF/SHEET

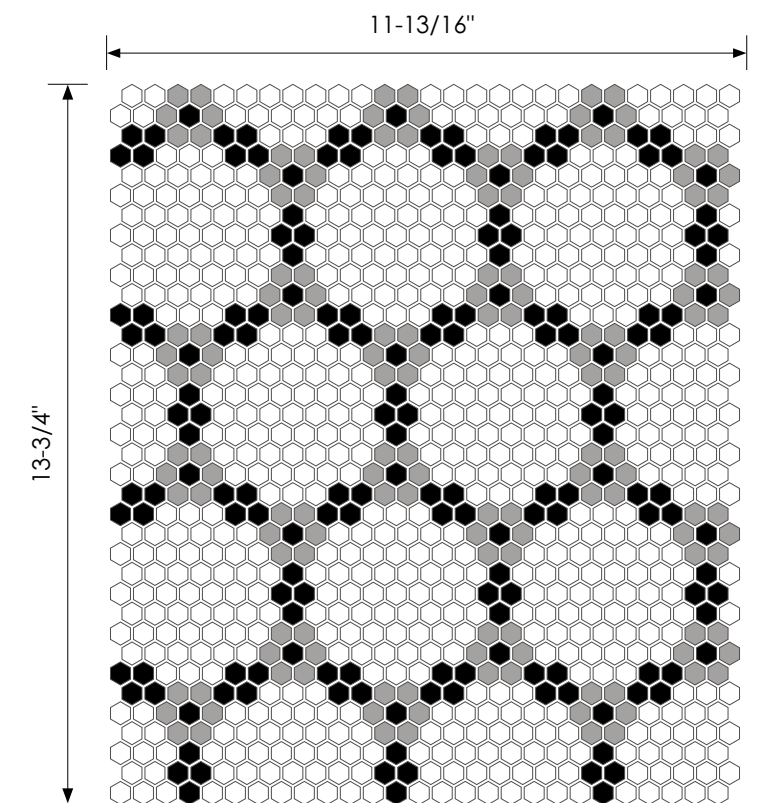
1.13

SF/CASE

7.91

CASE QUANTITY

7 PCS



BOURGES

COUNTRY

PART NUMBER
GLSGEOBOURGESOUN

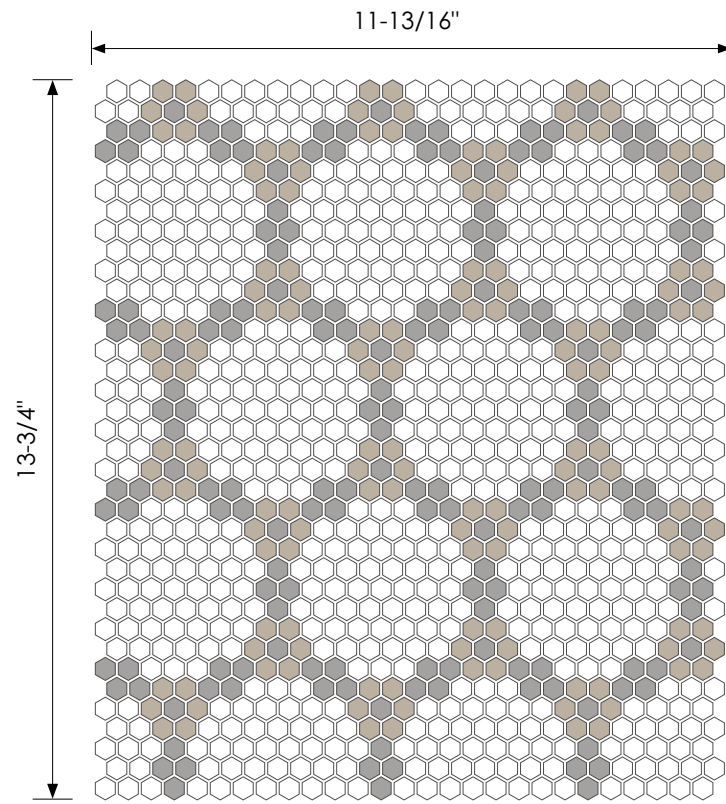
MATERIAL
RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.13

SF/CASE
7.91

CASE QUANTITY
7 PCS





DIJON



DIJON

COASTAL

PART NUMBER
GLSGEODIJONCOAS

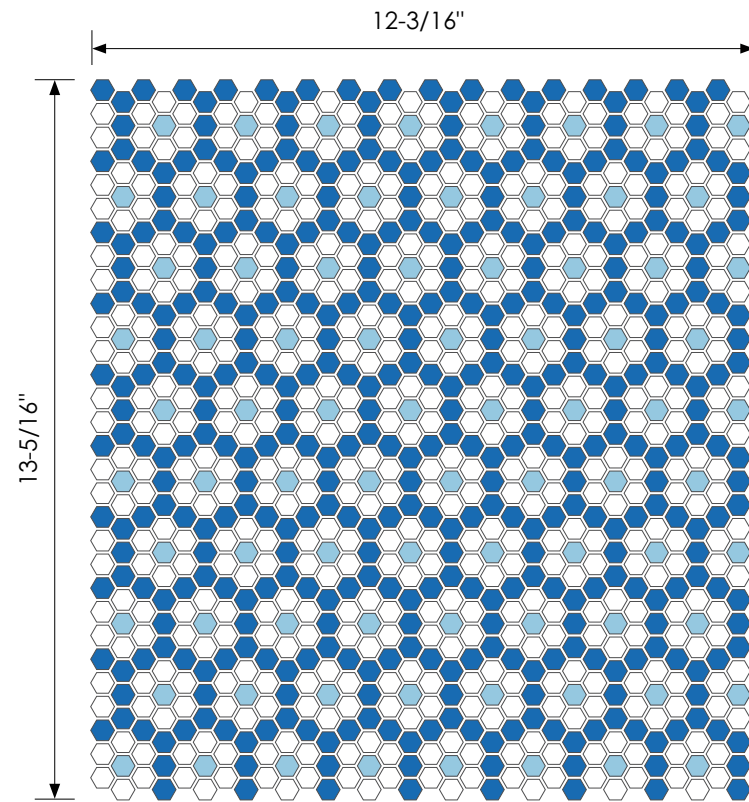
MATERIAL
RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.13

SF/CASE
7.91

CASE QUANTITY
7 PCS



DIJON

CLASSIC

PART NUMBER
GLSGEODIJONCLAS

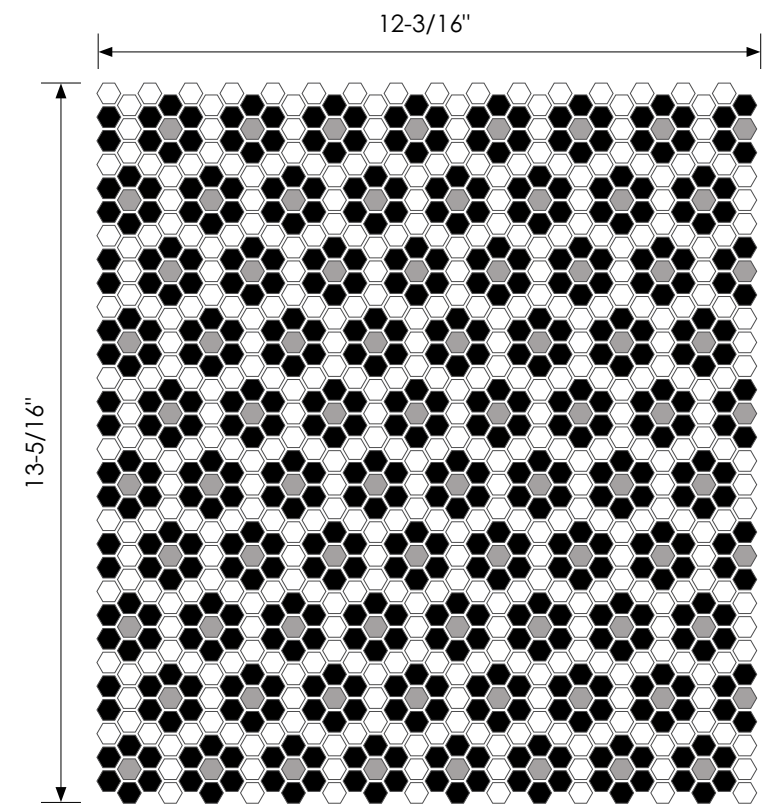
MATERIAL
RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.13

SF/CASE
7.91

CASE QUANTITY
7 PCS



DIJON

COUNTRY

PART NUMBER
GLSGEODIJONCOUN

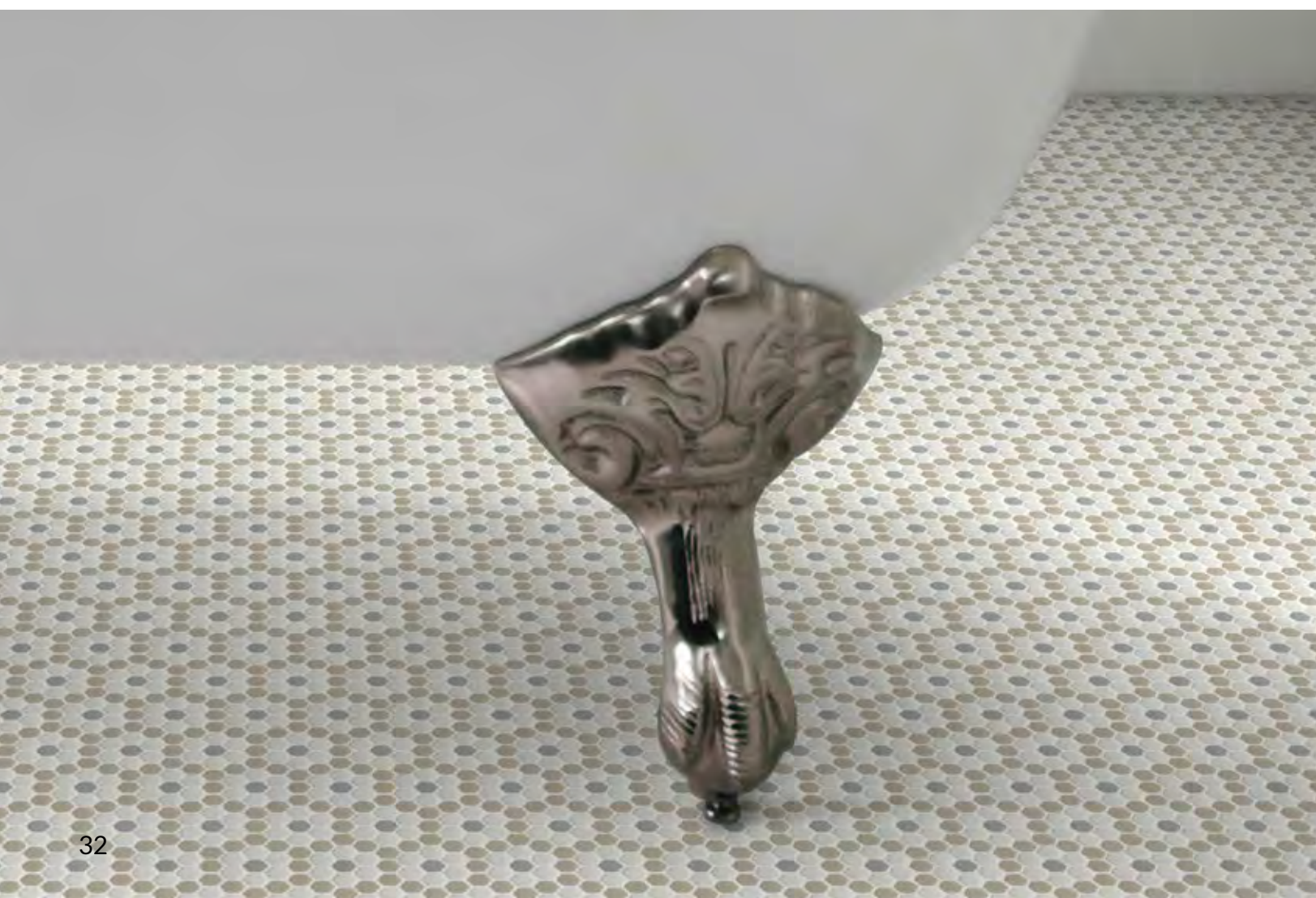
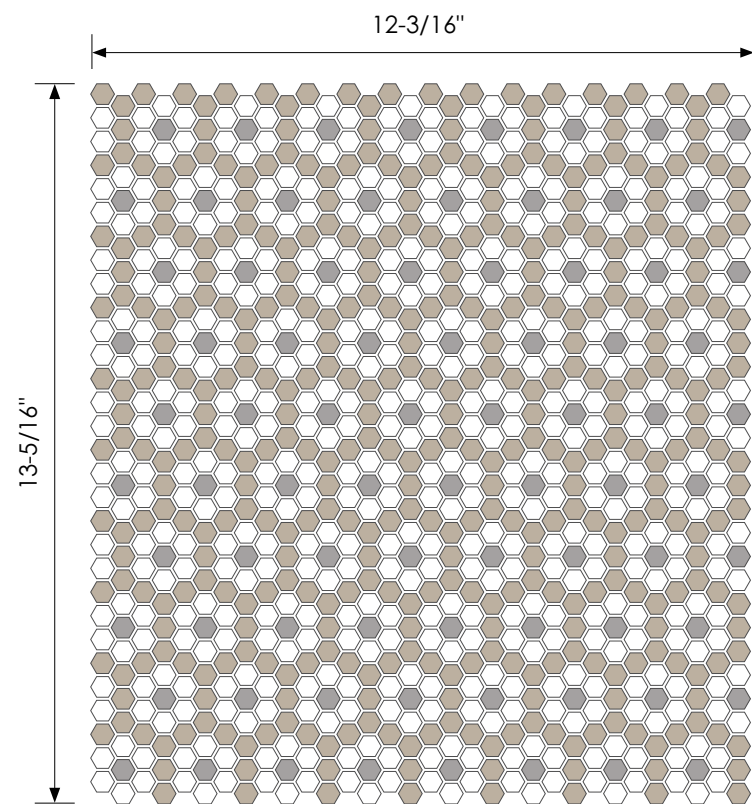
MATERIAL
RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.13

SF/CASE
7.91

CASE QUANTITY
7 PCS





TULLE

TULLE

COASTAL

PART NUMBER
GLSGEOTULLECOAS

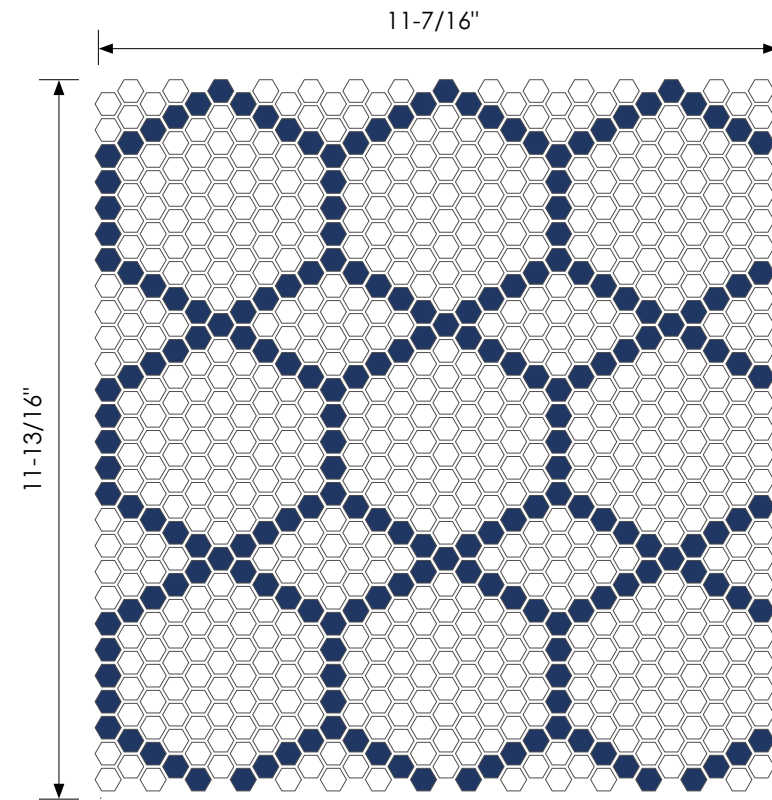
MATERIAL
RECYCLED GLASS

FINISH
MATTE

SF/SHEET
0.94

SF/CASE
6.58

CASE QUANTITY
7 PCS



TULLE

CLASSIC

PART NUMBER
GLSGEOTULLECOAS

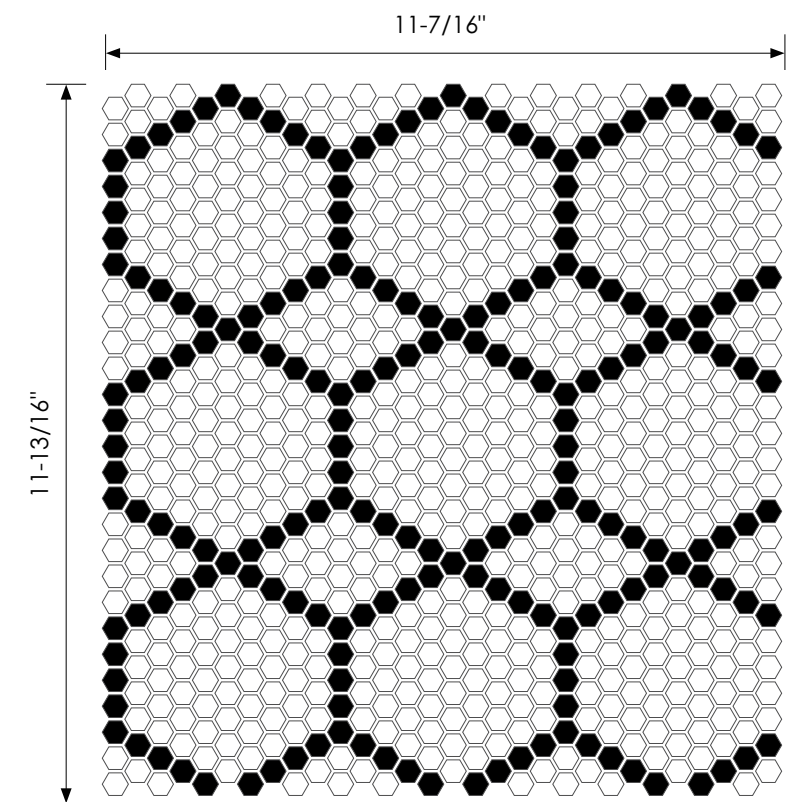
MATERIAL
RECYCLED GLASS

FINISH
MATTE

SF/SHEET
0.94

SF/CASE
6.58

CASE QUANTITY
7 PCS



TULLE

COUNTRY

PART NUMBER

GLSGEOTULLECOUN

MATERIAL

RECYCLED GLASS

FINISH

MATTE

SF/SHEET

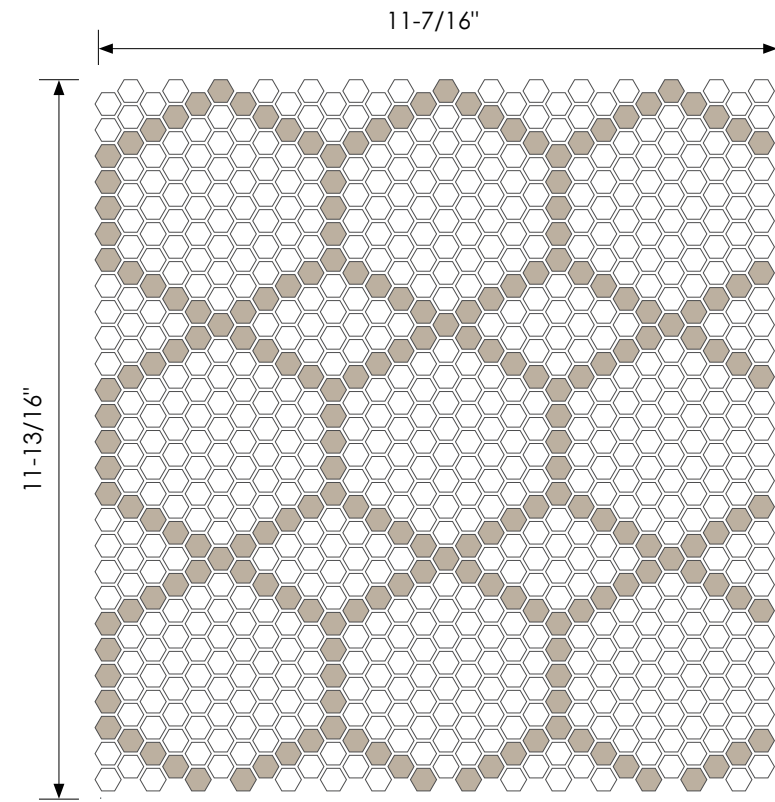
0.94

SF/CASE

6.58

CASE QUANTITY

7 PCS



3/8"



CLOUD



FLAXEN





PYTHON

HYDRA

PYTHON

PART NUMBER
GLSGEOPYTHHYDR

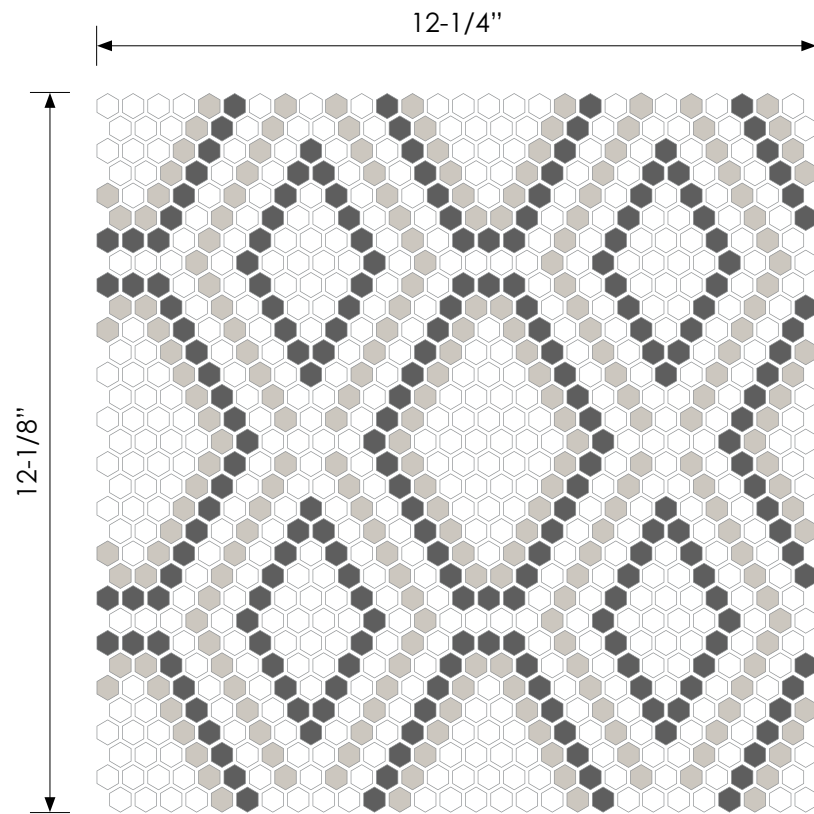
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.03

SF/CASE
10.30

CASE QUANTITY
10 PCS



DRACO

PYTHON

PART NUMBER
GLSGEOPYTHDRAC

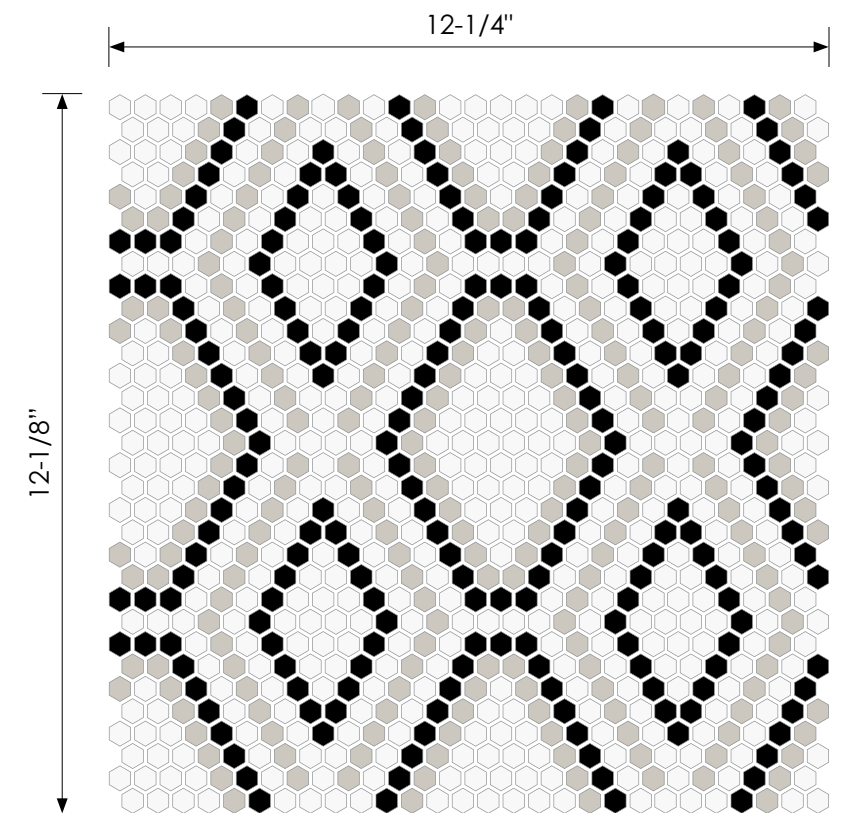
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.03

SF/CASE
10.30

CASE QUANTITY
10 PCS



HOPI

PYTHON

PART NUMBER
GLSGEOPYTHHOPI

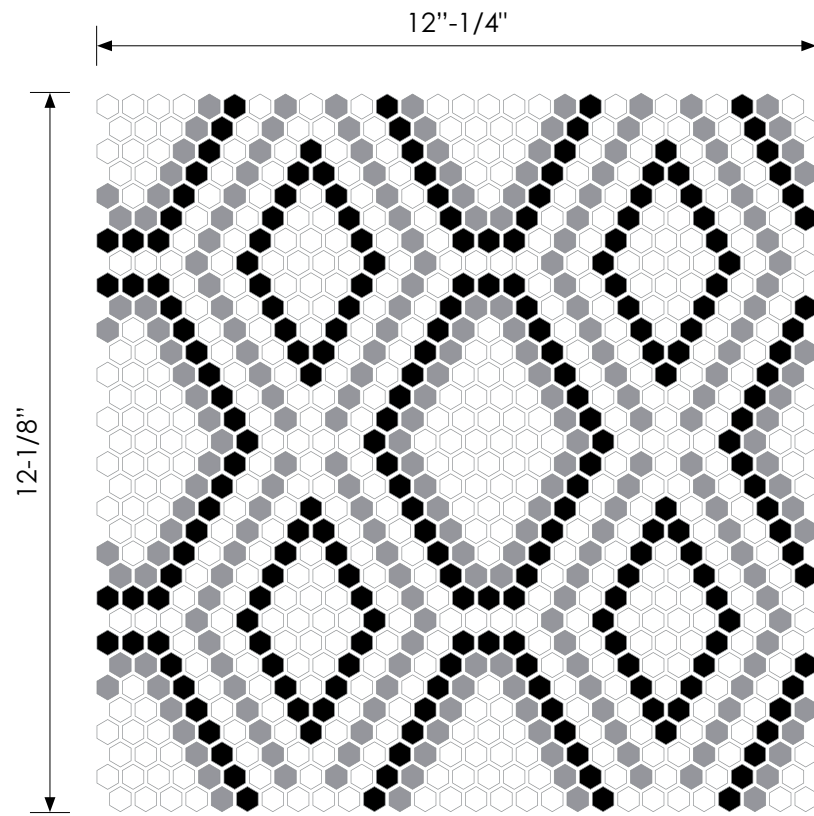
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.03

SF/CASE
10.30

CASE QUANTITY
10 PCS





HIGHLAND

BRISTOL

HIGHLAND

PART NUMBER
GLSGEOHIGHBRIS

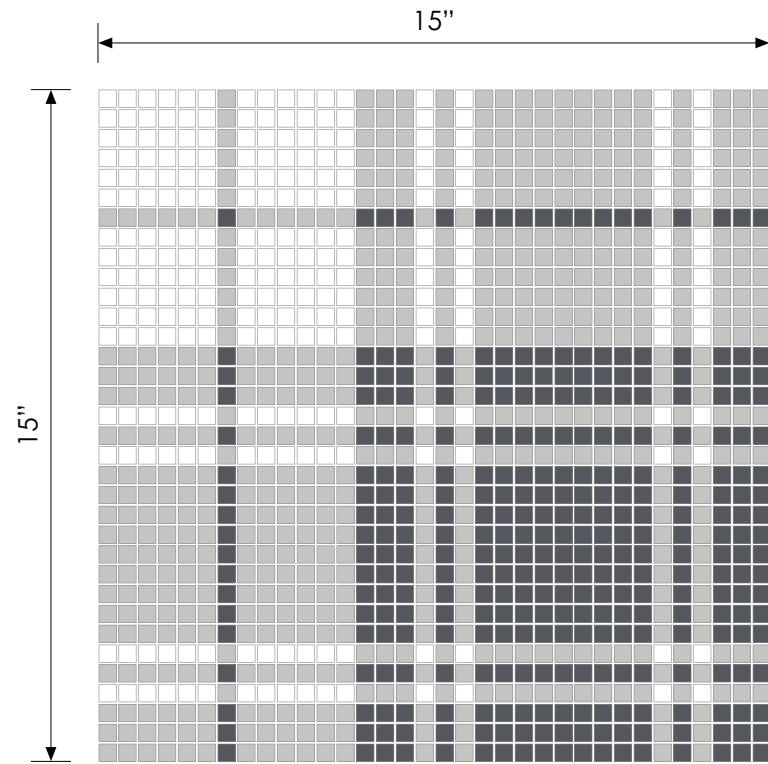
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.56

SF/CASE
15.60

CASE QUANTITY
10 PCS



PRESTON

HIGHLAND

PART NUMBER
GLSGEOHIGHPRES

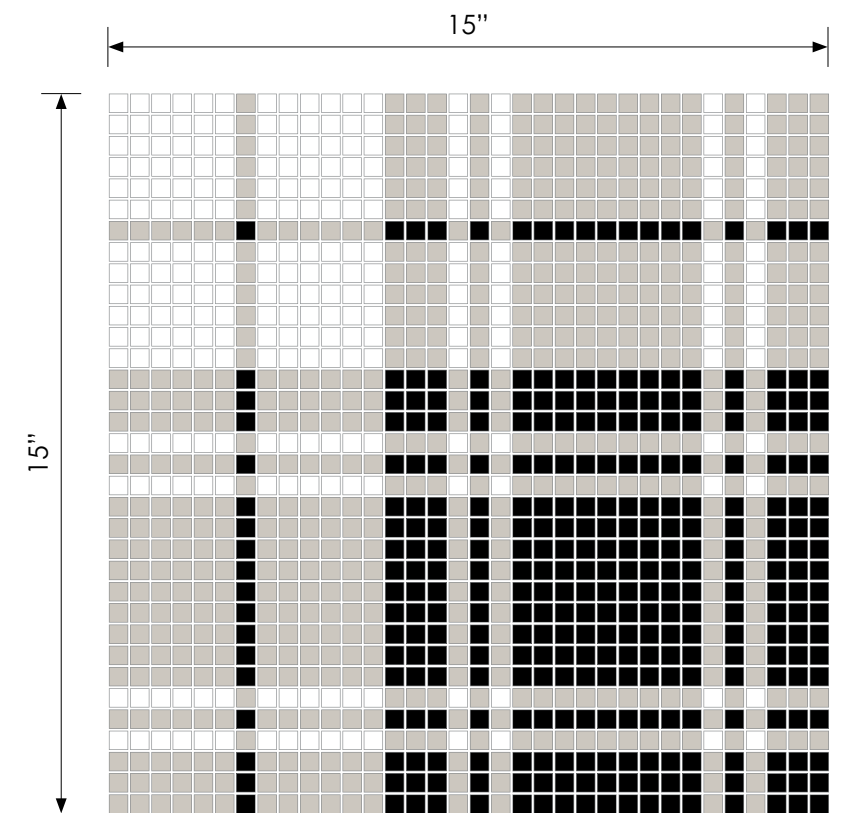
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.56

SF/CASE
15.60

CASE QUANTITY
10 PCS



LANCASTER

HIGHLAND

PART NUMBER
GLSGEOHIGHLANC

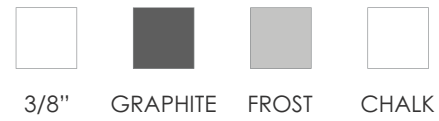
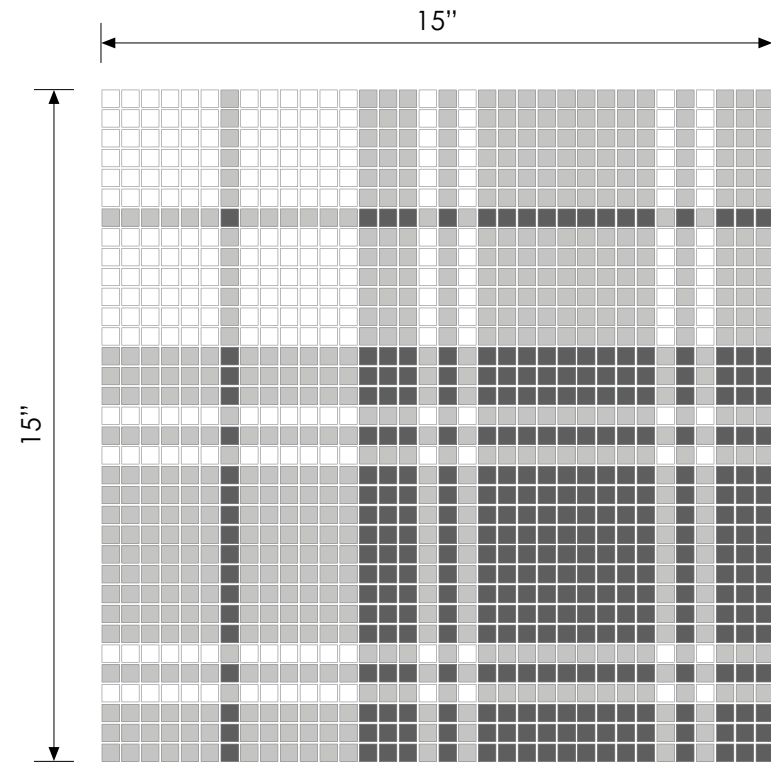
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
1.56

SF/CASE
15.60

CASE QUANTITY
10 PCS





MISSONI

RETRO

MISSONI

PART NUMBER
GLSGEOMISSRETR

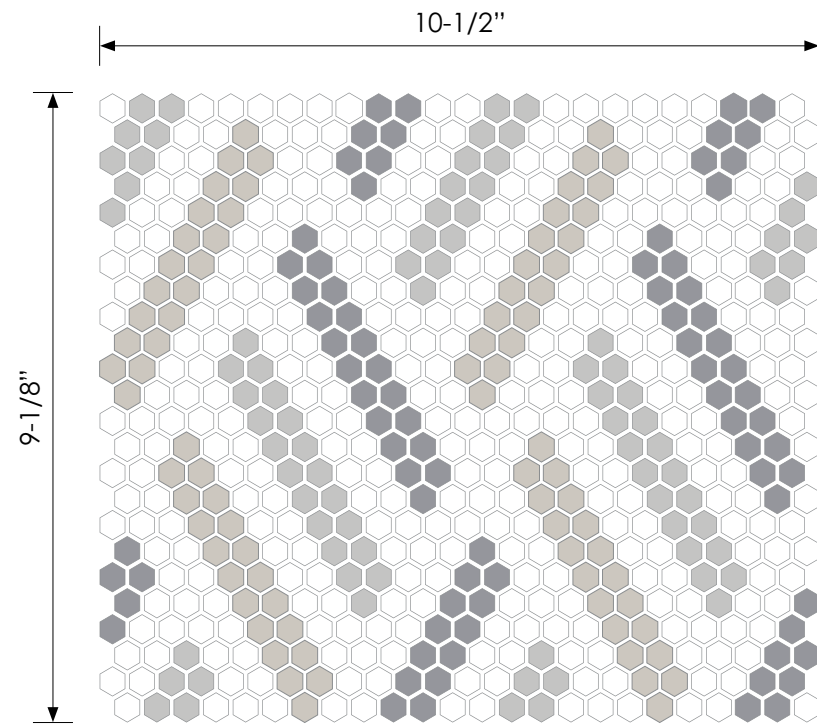
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
0.67

SF/CASE
6.70

CASE QUANTITY
10 PCS



ZIP

MISSONI

PART NUMBER
GLSGEOMISSZIP

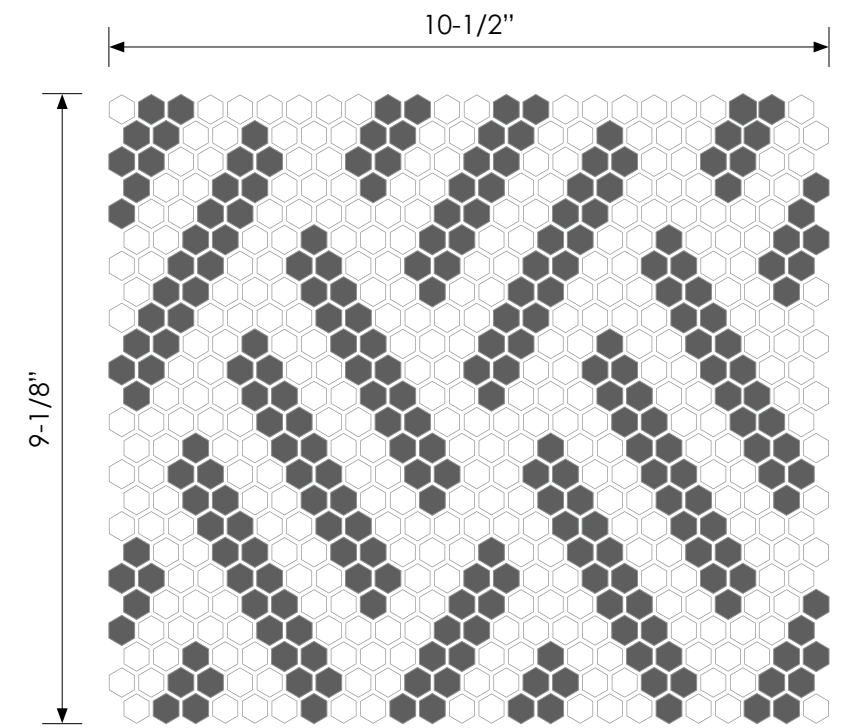
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
0.67

SF/CASE
6.70

CASE QUANTITY
10 PCS



VINTAGE

MISSONI

PART NUMBER
GLSGEOMISSVINT

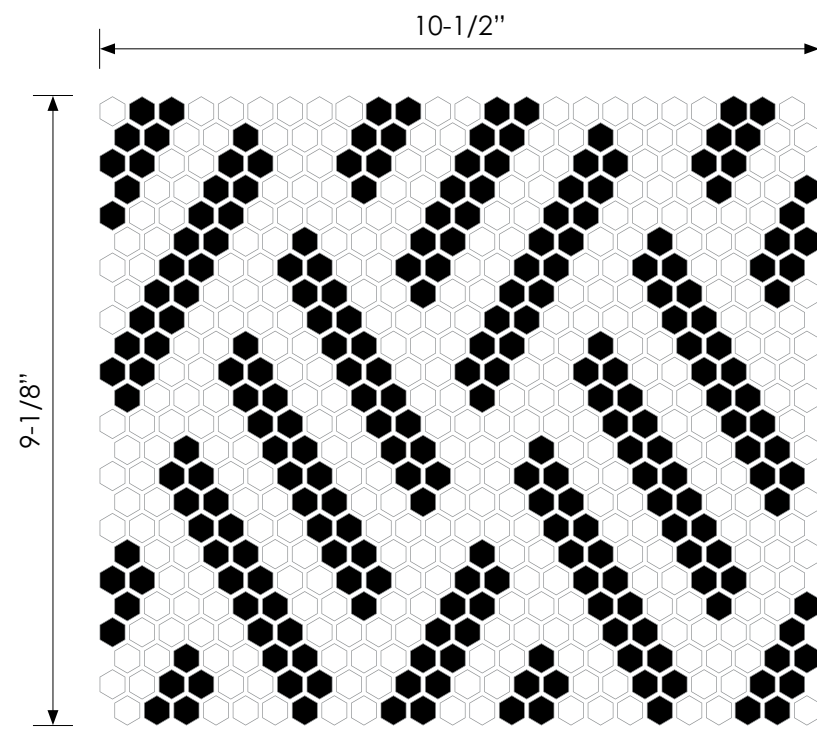
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
0.67

SF/CASE
6.70

CASE QUANTITY
10 PCS





HYGGGE

LOG

HYGGE

PART NUMBER
GLSGEOHYGGLOG

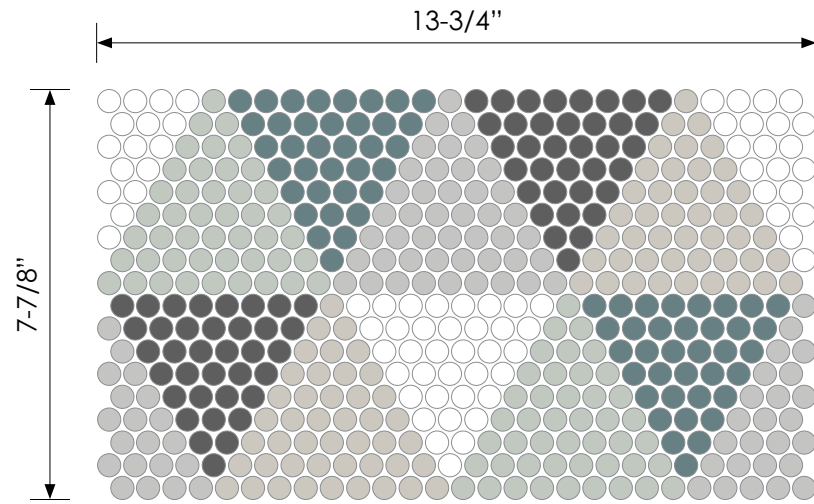
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
0.75

SF/CASE
7.50

CASE QUANTITY
10 PCS



GLOW

HYGGE

PART NUMBER
GLSGEOHYGGGLOW

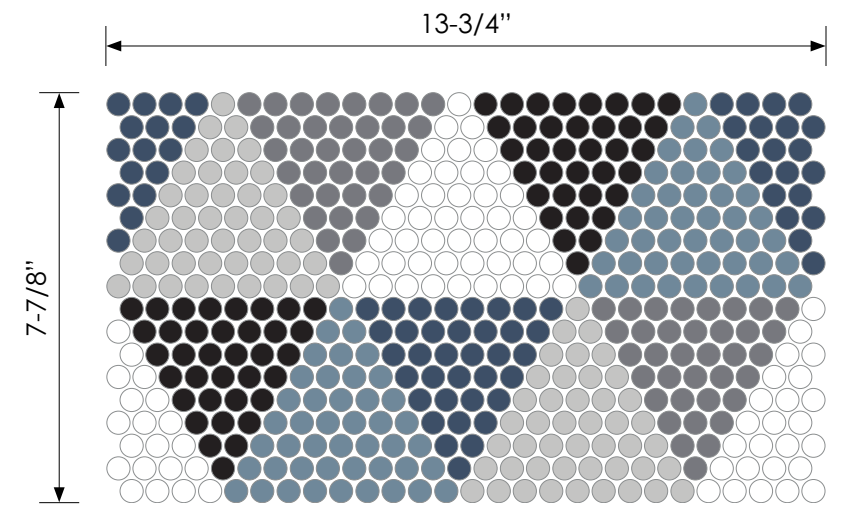
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
0.75

SF/CASE
7.50

CASE QUANTITY
10 PCS





BARCODE

PUZZLE

BARCODE

PART NUMBER
GLSGEOBARCPUZZ

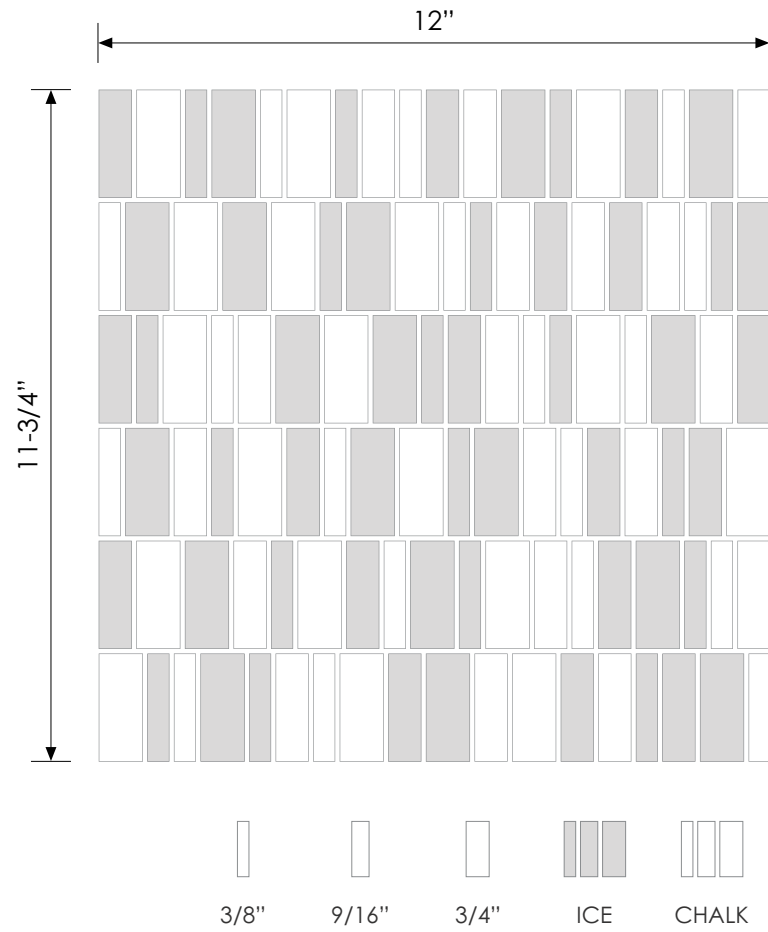
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
0.98

SF/CASE
9.80

CASE QUANTITY
10 PCS



CRYPTO

BARCODE

PART NUMBER
GLSGEOBARCCRYP

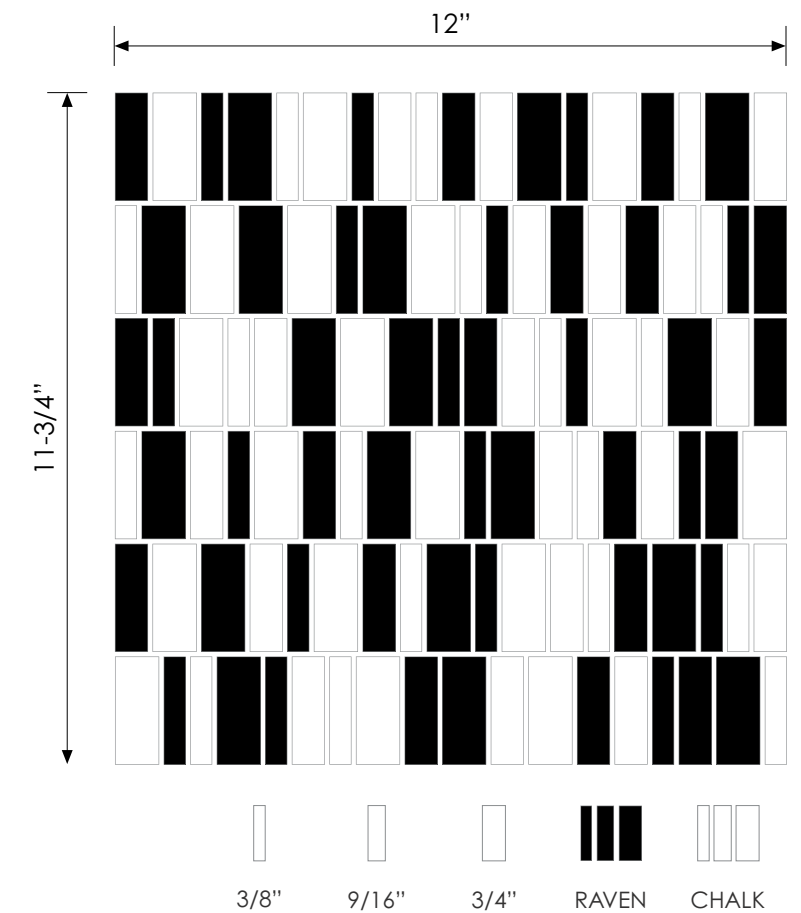
MATERIAL
RECTIFIED RECYCLED GLASS

FINISH
MATTE

SF/SHEET
0.98

SF/CASE
9.80

CASE QUANTITY
10 PCS





SOLIDOS

SOLIDS

SQUARES S2

MATERIAL

RECTIFIED RECYCLED GLASS

PART NUMBER

CHALK • GLSGEOSOLIDCHALS2

FROST • GLSGEOSOLIDFROSS2

GRAPHITE • GLSGEOSOLIDGRAPS2

RAVEN • GLSGEOSOLIDRAVES2

FINISH

MATTE

SF/SHEET

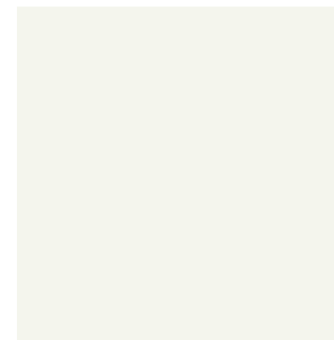
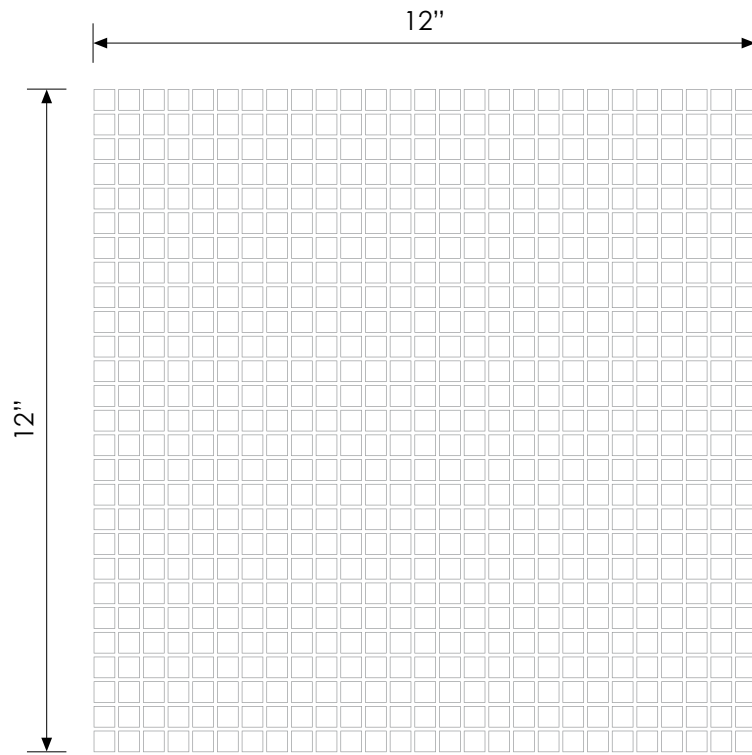
1.00

SF/CASE

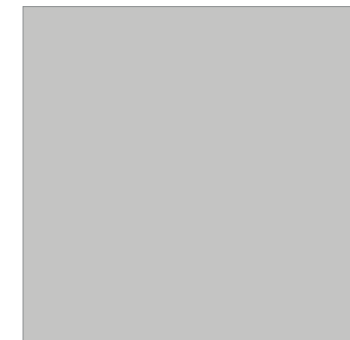
10.00

CASE QUANTITY

10 PCS



CHALK



FROST



GRAPHITE



RAVEN

SOLIDS

HEXAGON H1

FINISH
MATTE

PART NUMBER

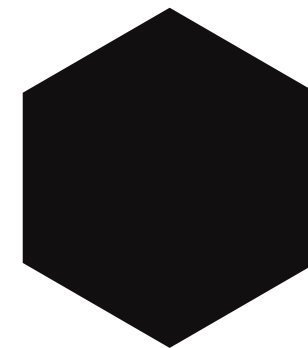
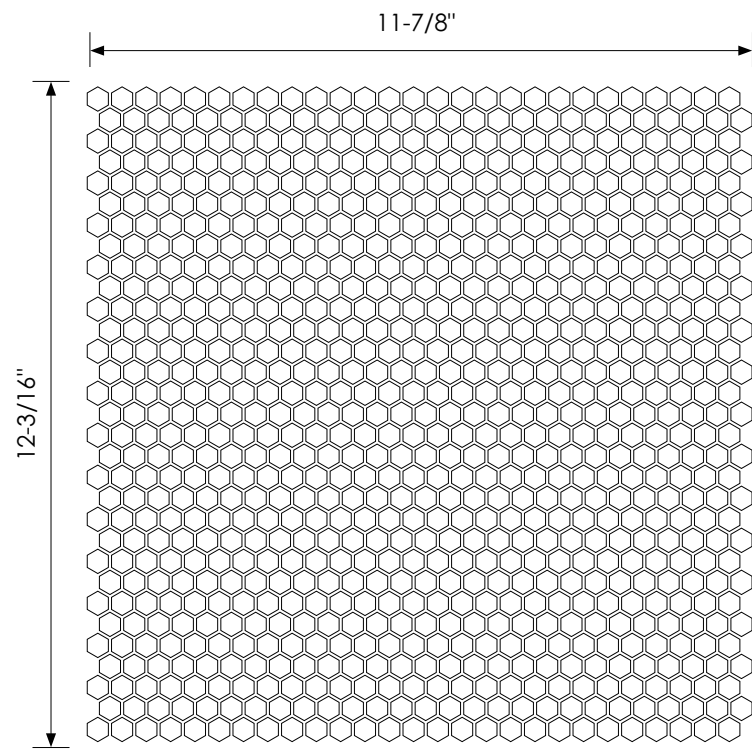
GLSGEOSOLIDCLOU
GLSGEOSOLIDFLAX
GLSGEOSOLIDFLIN
GLSGEOSOLIDDUSK
GLSGEOSOLIDSMOK

FINISH
MATTE

SF/SHEET
1.01

SF/CASE
7.07

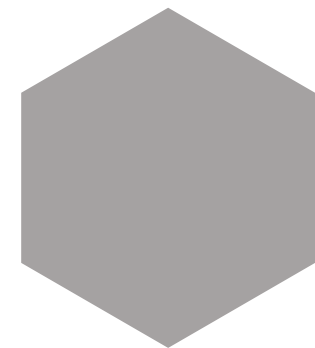
CASE QUANTITY
7 PCS



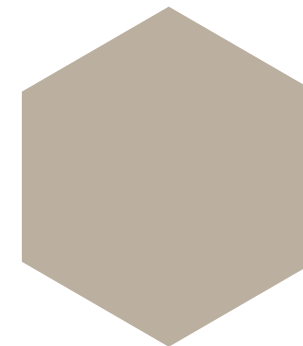
FLINT



CLOUD



SMOKE



FLAXEN



DUSK

COLOR PALETTE

129 COLOR OPTIONS • MATTE OR POLISHED • RECTIFIED CAST & NON-RECTIFIED CAST RECYCLED GLASS



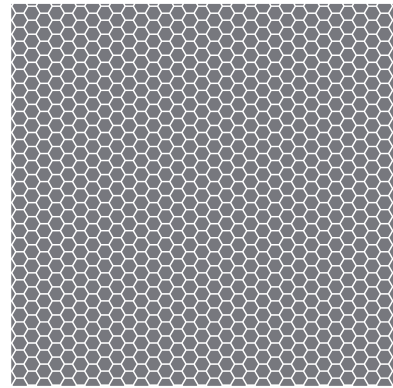
COLOR PALETTE

129 COLOR OPTIONS • MATTE OR POLISHED • RECTIFIED CAST & NON-RECTIFIED CAST RECYCLED GLASS

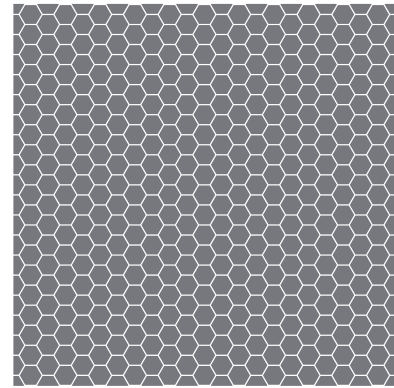


SPECIAL ORDER SHAPES

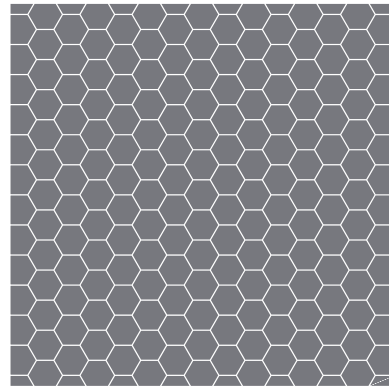
129 COLORS • 60 SHAPES • COLOR BLEND PATTERN OPTIONS • MATTE OR POLISHED



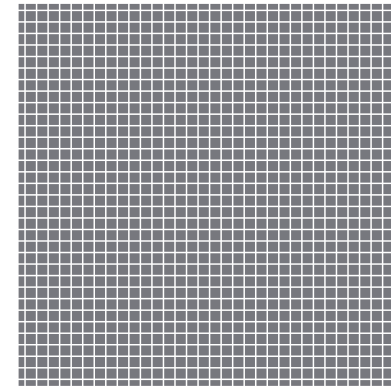
H1 3/8" HEXAGON



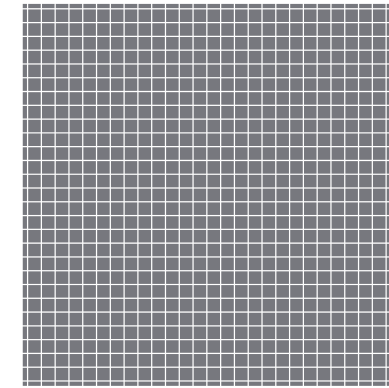
H2 5/8" HEXAGON



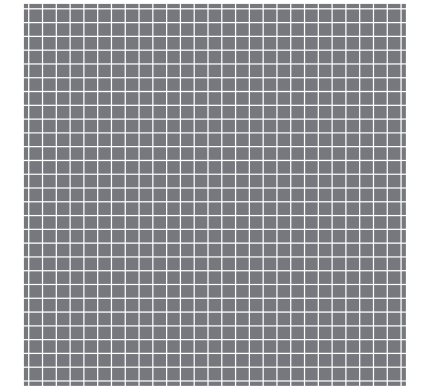
H3 7/8" HEXAGON



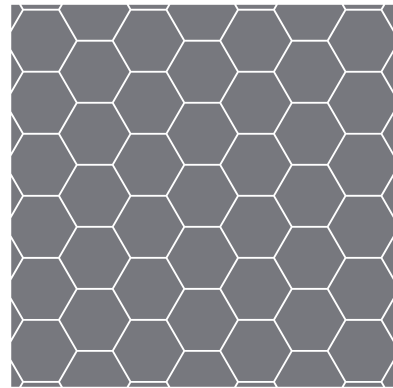
S1 1/4" SQUARE



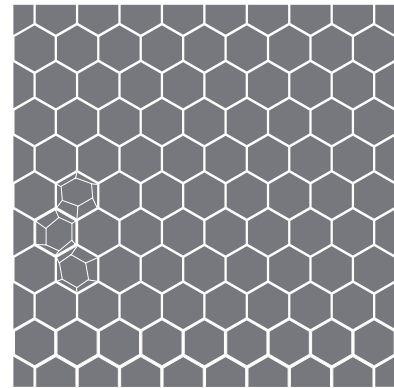
S2 3/8" SQUARE



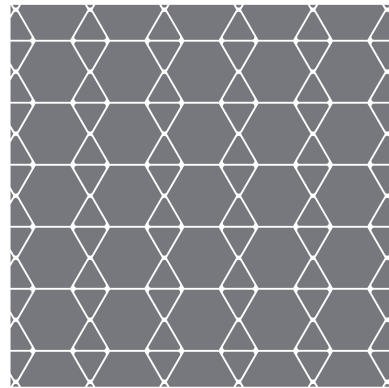
S3 1/2" SQUARE



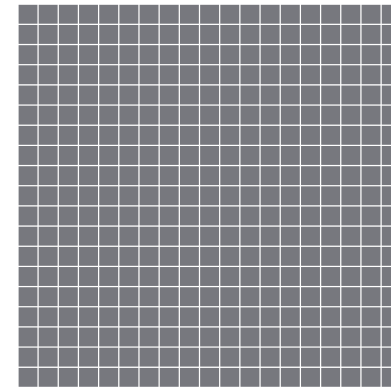
H4 1-7/8" HEXAGON



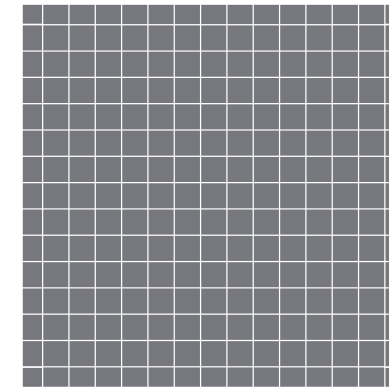
H5 1-1/4" 3D HEXAGON



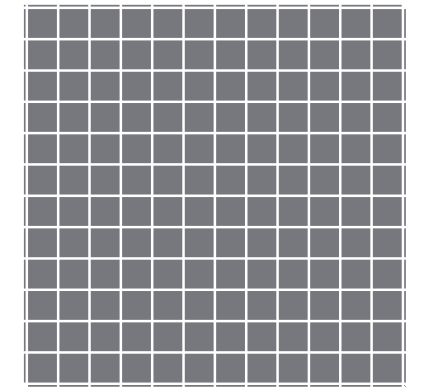
H6 1-7/8" HEXAGON & TRIANGLE



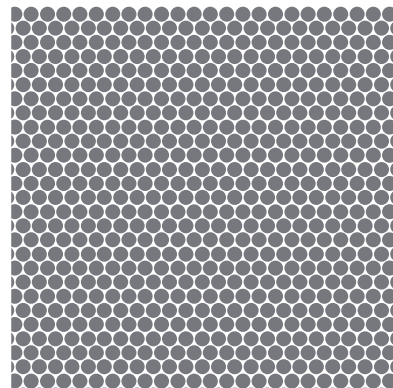
S4 5/8" SQUARE



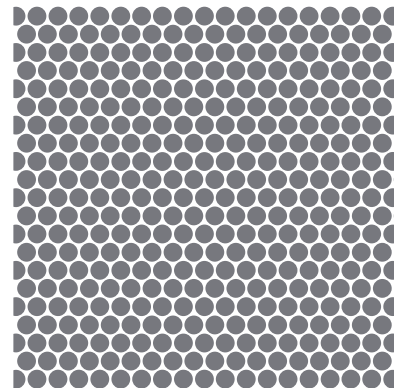
S7 3/4" SQUARE



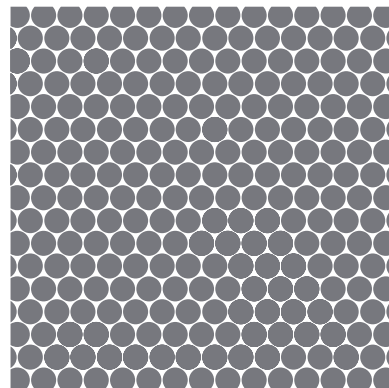
S6 7/8" SQUARE



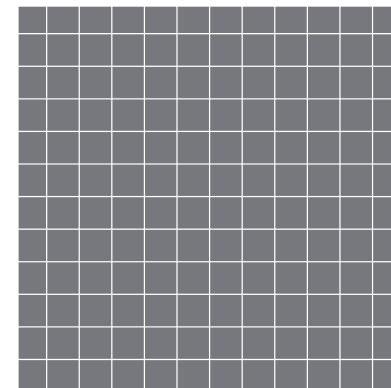
C1 1/2" CIRCLE



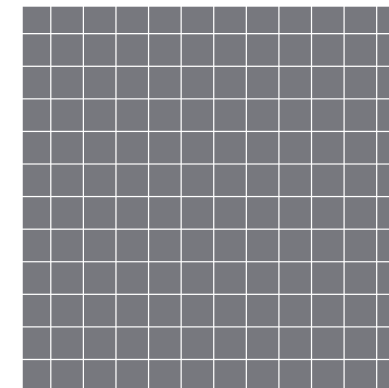
C2 5/8" CIRCLE



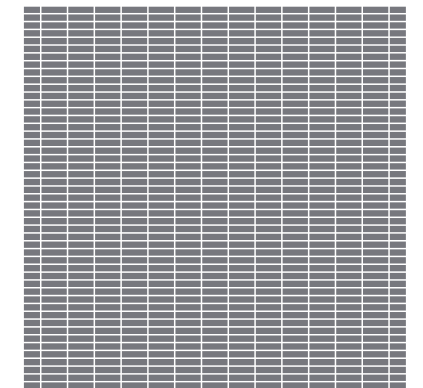
C3 3/4" CIRCLE



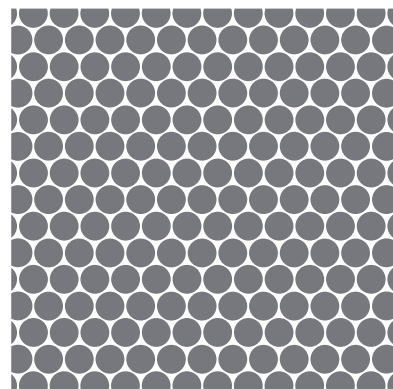
S8 1" SQUARE



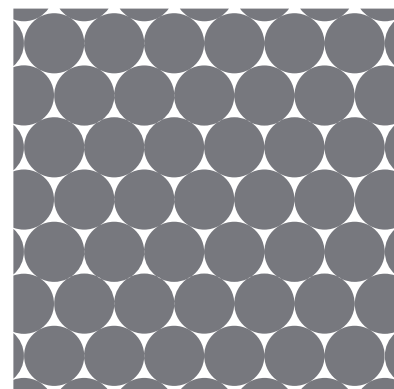
S5 1-7/8" SQUARE



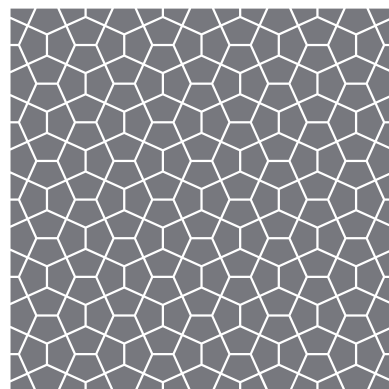
R9 1/4" X 3/4" BRICK



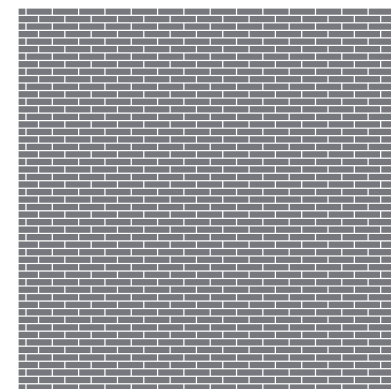
C4 7/8" CIRCLE



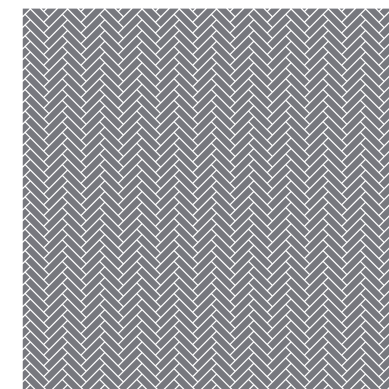
C5 1-7/8" CIRCLE



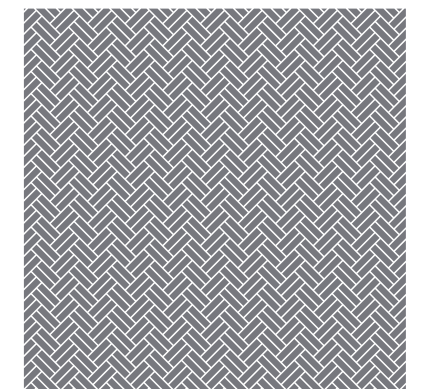
TB1 1" X 3/4" TUMBLER



R8 1/4" X 3/4" OFFSET BRICK



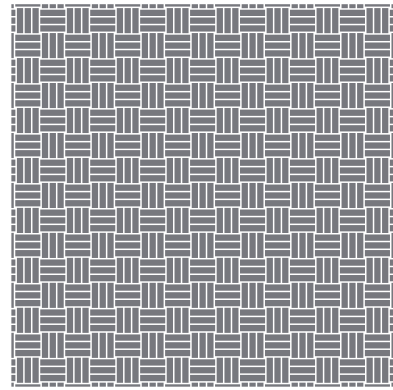
R7 1/4" X 3/4" WEAVE BRICK



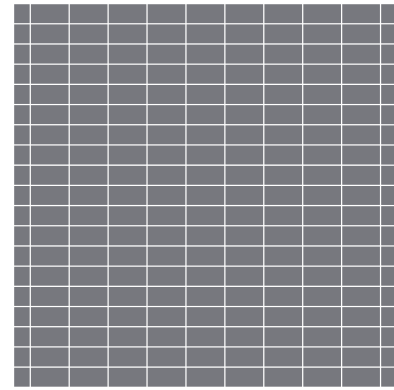
W2 1/4" X 3/4" DOUBLE WEAVE BRICK

SPECIAL ORDER SHAPES

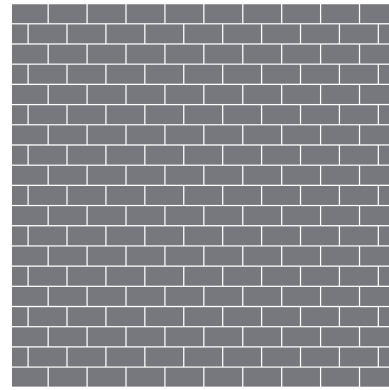
129 COLORS • 60 SHAPES • COLOR BLEND PATTERN OPTIONS • MATTE OR POLISHED



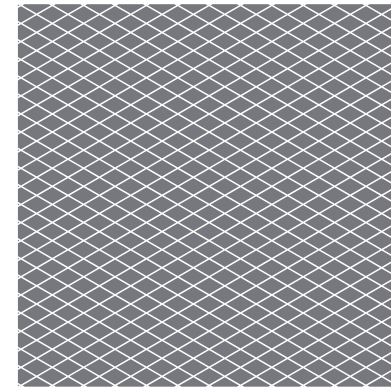
W1 1/4" X 3/4" WEAVE



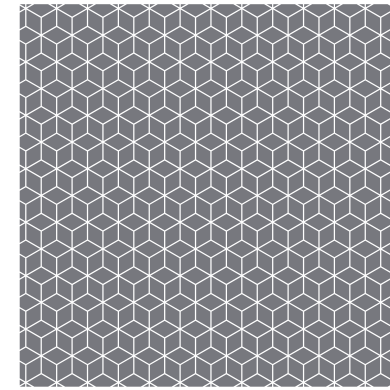
R5 5/8" X 1-1/5" BRICK



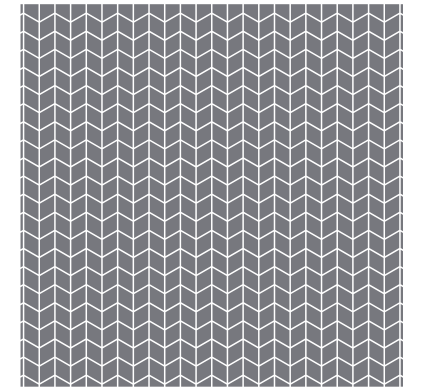
R6 5/8" X 1-1/5" OFFSET BRICK



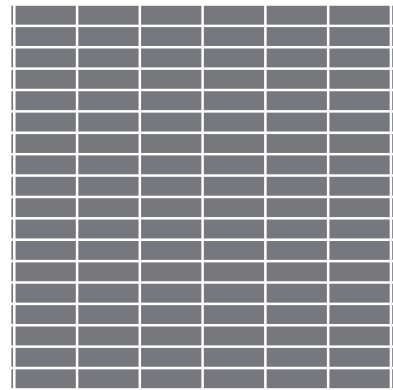
D3 1/2" X 3/4" DIAMOND



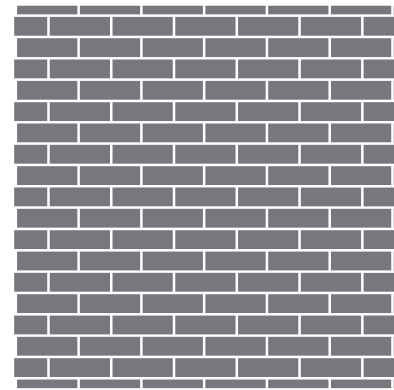
D1 1/2" X 3/4" HEXAGON DIAMOND



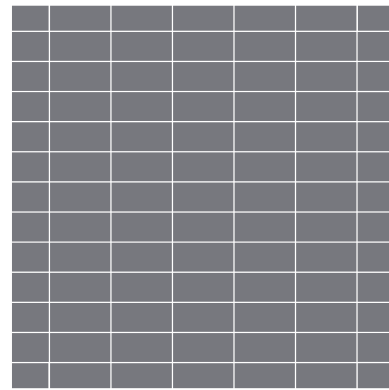
D2 1/2" X 3/4" CHEVRON DIAMOND



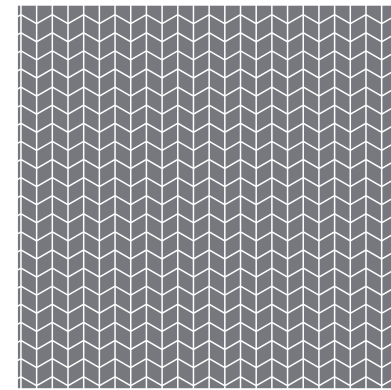
R3 5/8" X 1-7/8" BRICK



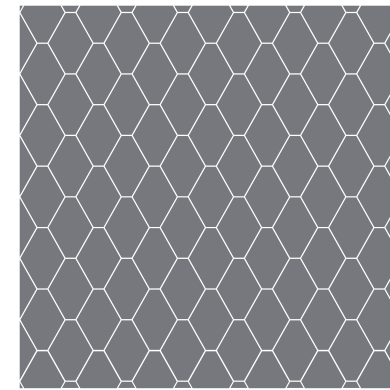
R4 5/8" X 1-7/8" OFFSET BRICK



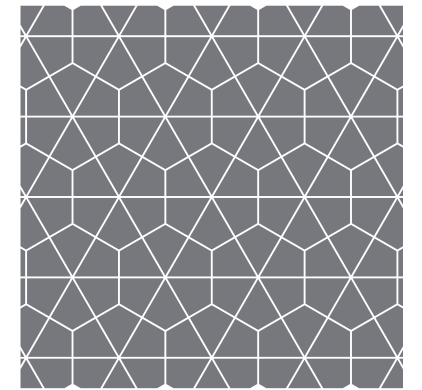
R1 7/8" X 1-7/8" BRICK



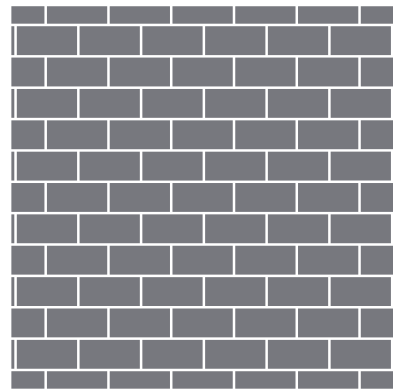
D4 15/16" X 1-7/8" DIAMOND



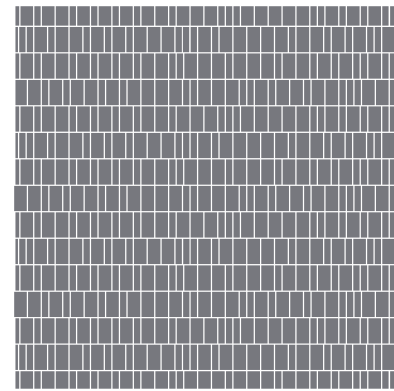
D5 1-3/4" X 1-7/8" DIAMOND



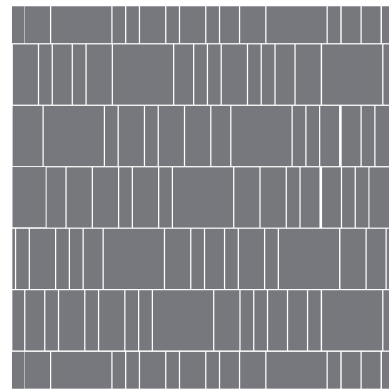
D6 1-3/4" X 1-1/2" DIAMOND



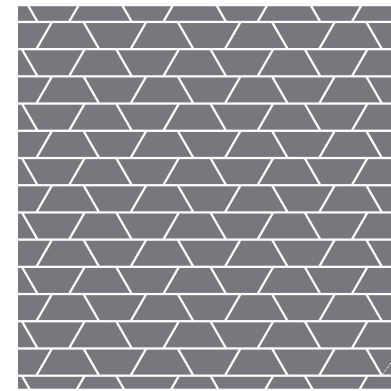
R2 7/8" X 1-7/8" OFFSET BRICK



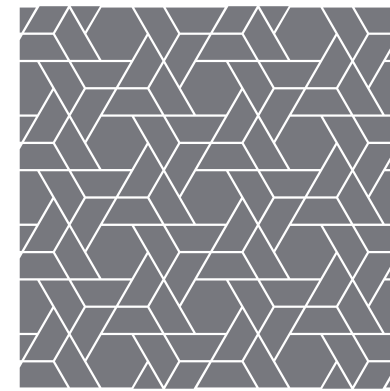
MB2 SMALL MULTI BRICK



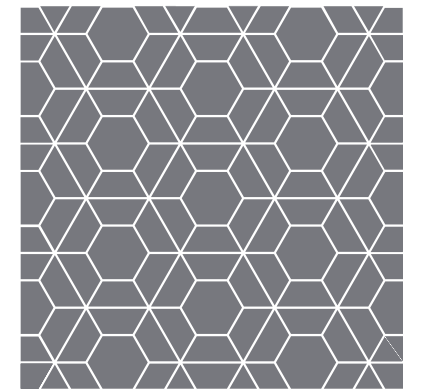
MB1 LARGE MULTI BRICK



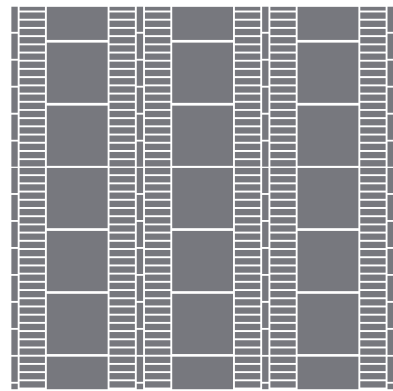
T1 3/4" X 1-7/8" TRAPEZIUM



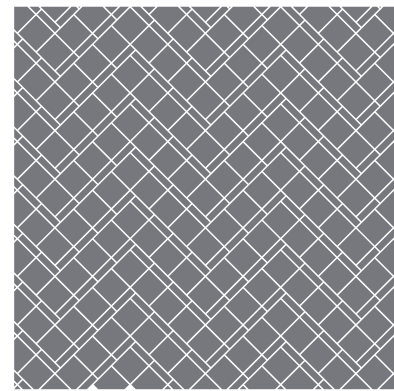
T2 3/4" X 1-7/8" WEAVE TRAPEZIUM



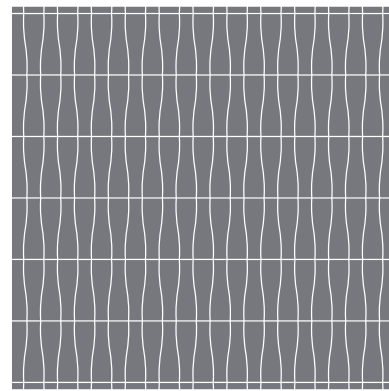
T3 3/4" X 1-7/8" HEX TRAPEZIUM



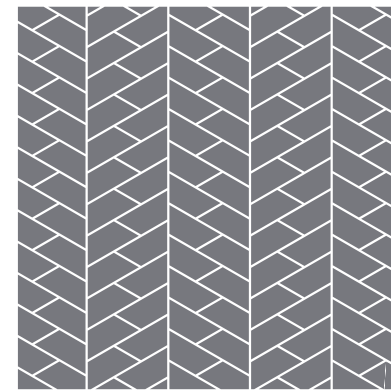
MB3 LADDER MULTI BRICK



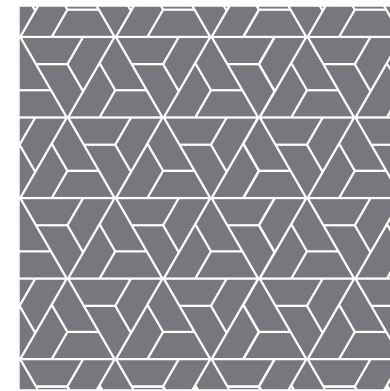
MB4 ZIG-ZAG MULTI BRICK



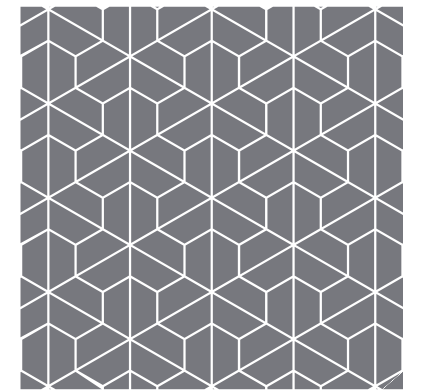
BT1 1-7/8" X 3/8" BOTTLE



T4 3/4" X 1-7/8" CHEVRON TRAPEZIUM



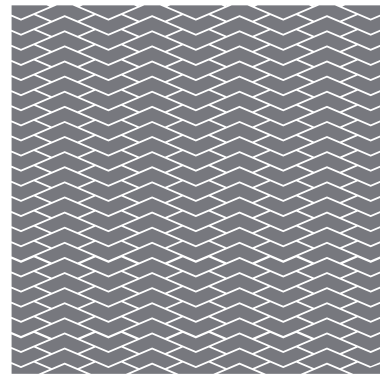
T5 3/4" X 1-7/8" TRIANGLE TRAPEZIUM



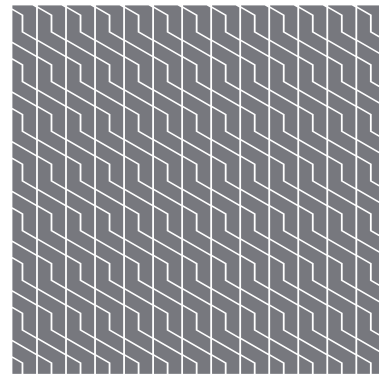
T6 3/4" X 1-7/8" STAR TRAPEZIUM

SPECIAL ORDER SHAPES

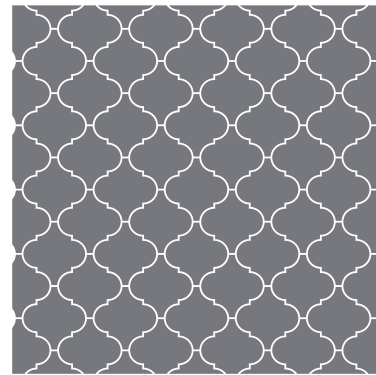
129 COLORS • 60 SHAPES • COLOR BLEND PATTERN OPTIONS • MATTE OR POLISHED



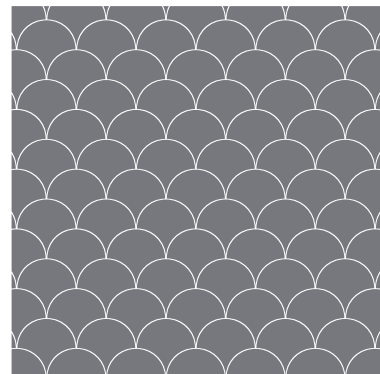
CV1 3/8" X 1-7/8" CHEVRON



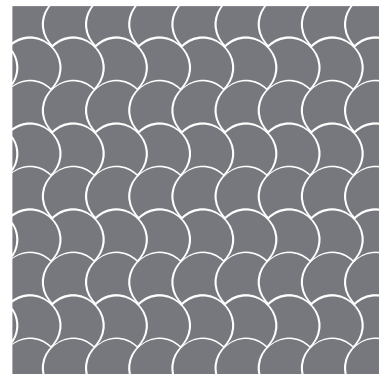
CV2 3/8" X 1-7/8" STRIP CHEVRON



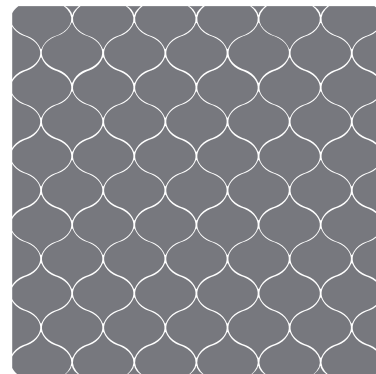
A1 2" ARABESQUE



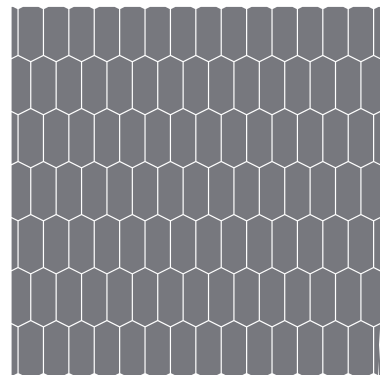
F1 1-7/8" FAN



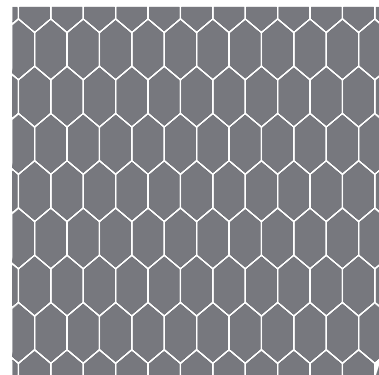
F2 1-7/8" WAVE FAN



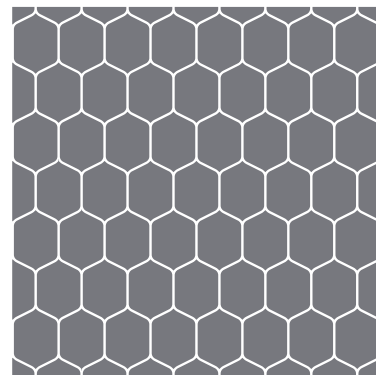
OG2 2" OGEE



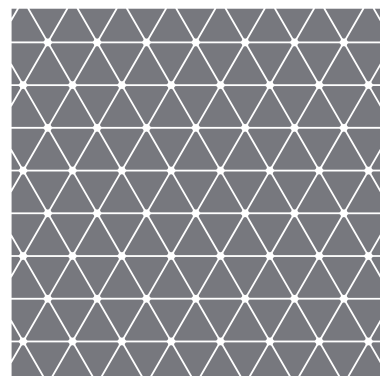
B1 1-7/8" X 3/4" BAGUETTE



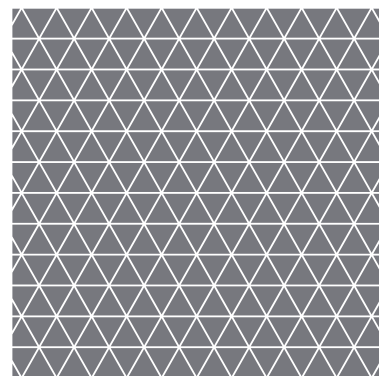
B2 1-7/8" X 1" 3D BAGUETTE



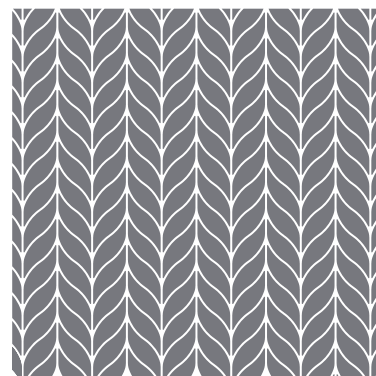
OG1 1-3/8" X 2" 3D OGEE



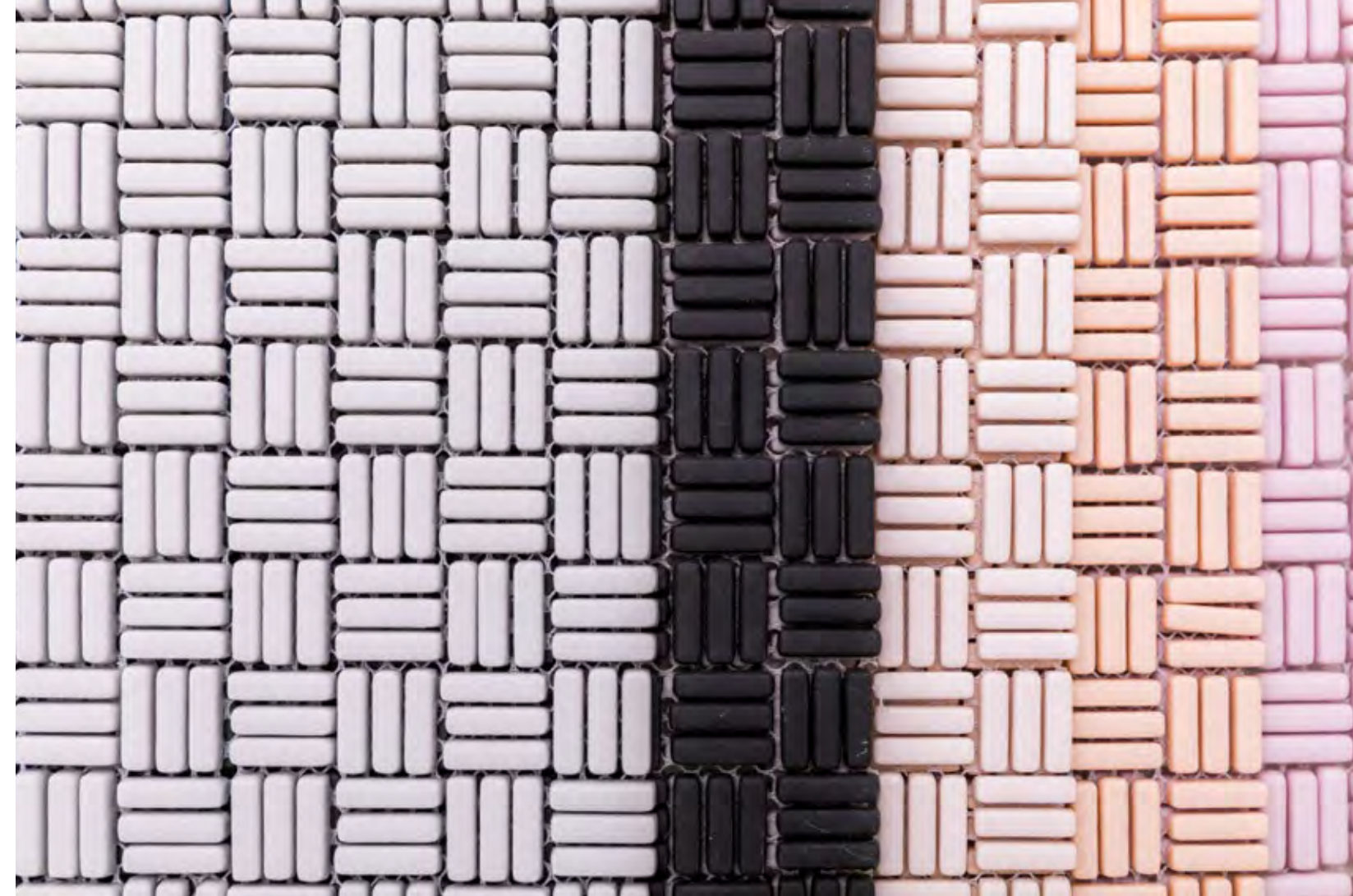
TR2 1-3/8" 3D TRIANGLE



TR1 1" TRIANGLE

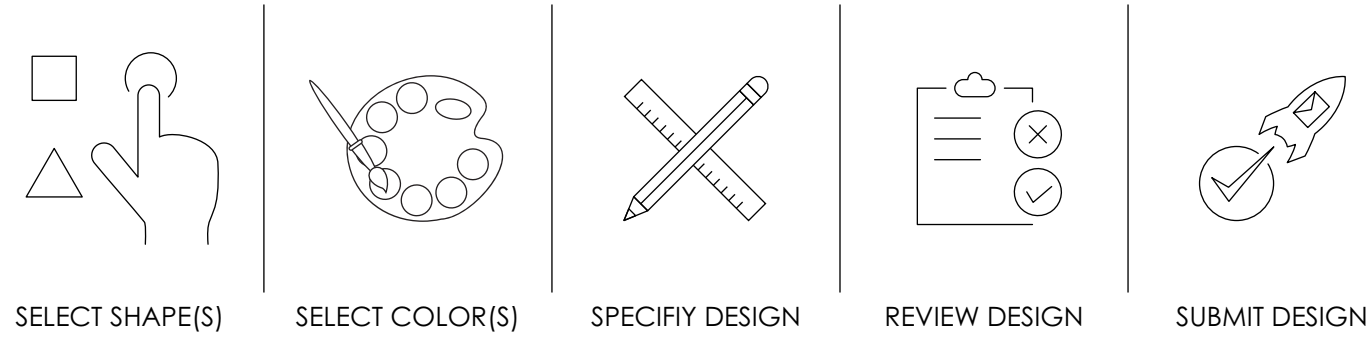


FT1 2-3/8" X 5/8" FEATHER



CUSTOM GLASS MOSAIC

Bring your design ideas and creativity to life. Geometro recycled glass offers a rich and trendy color palette with more than one hundred colors to choose from, sixty different shapes, in two finishes, Matte and Polished.



Submit your order(s) to csr@nsrstone.com for price and lead time.

NSR offers a curated selection of glass mosaics, but if in need of something with a personal touch, our customer service team will assist brainstorming your project from start to finish.

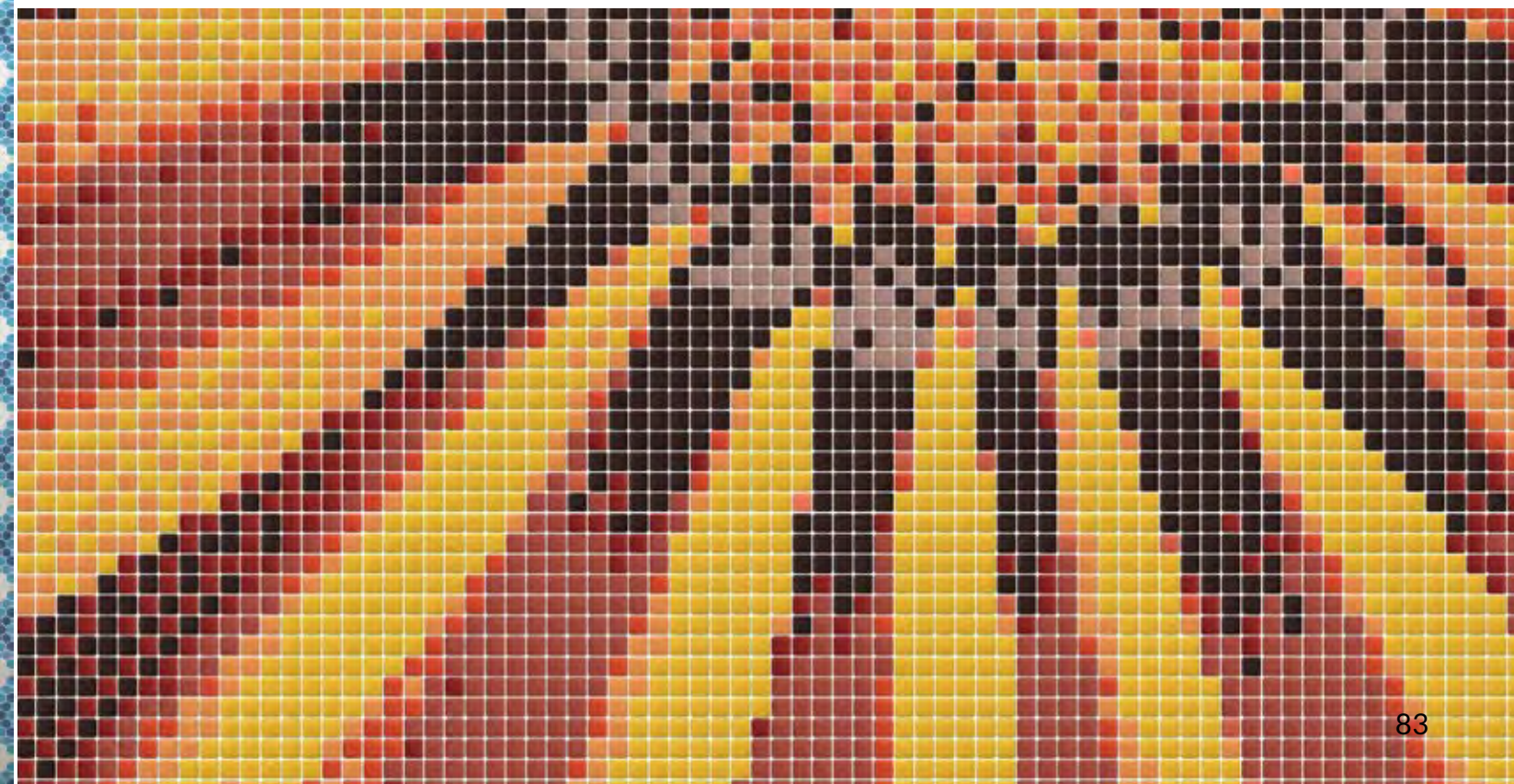
ARTISTIC MOSAIC

A Mosaic is an artistic technique that uses tiny parts to create a whole image or object. Mosaics are usually assembled using small tiles that can be randomly shaped to fit the design intent.

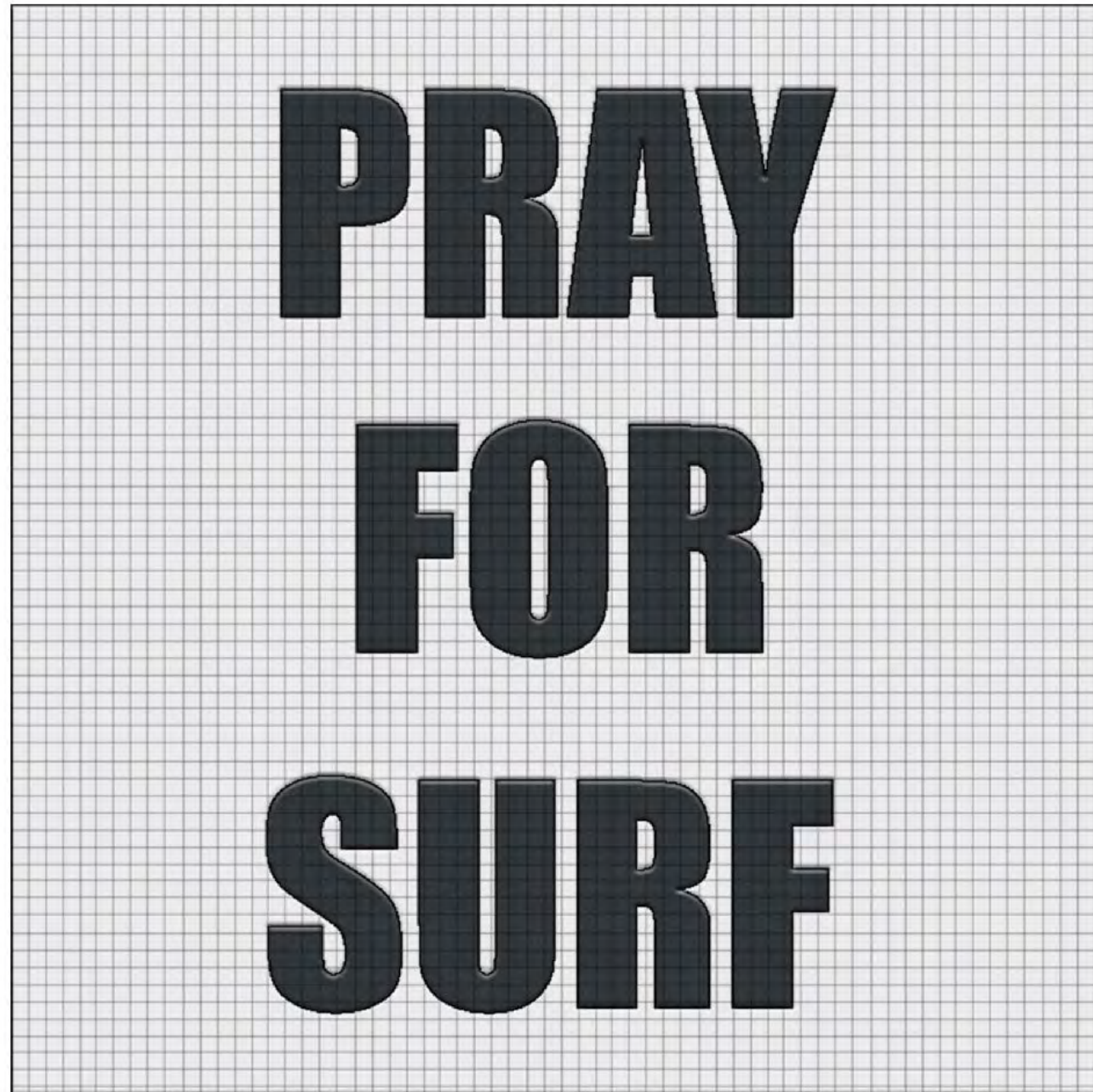


PIXEL ART

Pixel mosaic is a modern mosaic art where colored glass pieces of a perfect shape are assembled to create the image needed. With Pixel Art, your images and designs are brought to life.



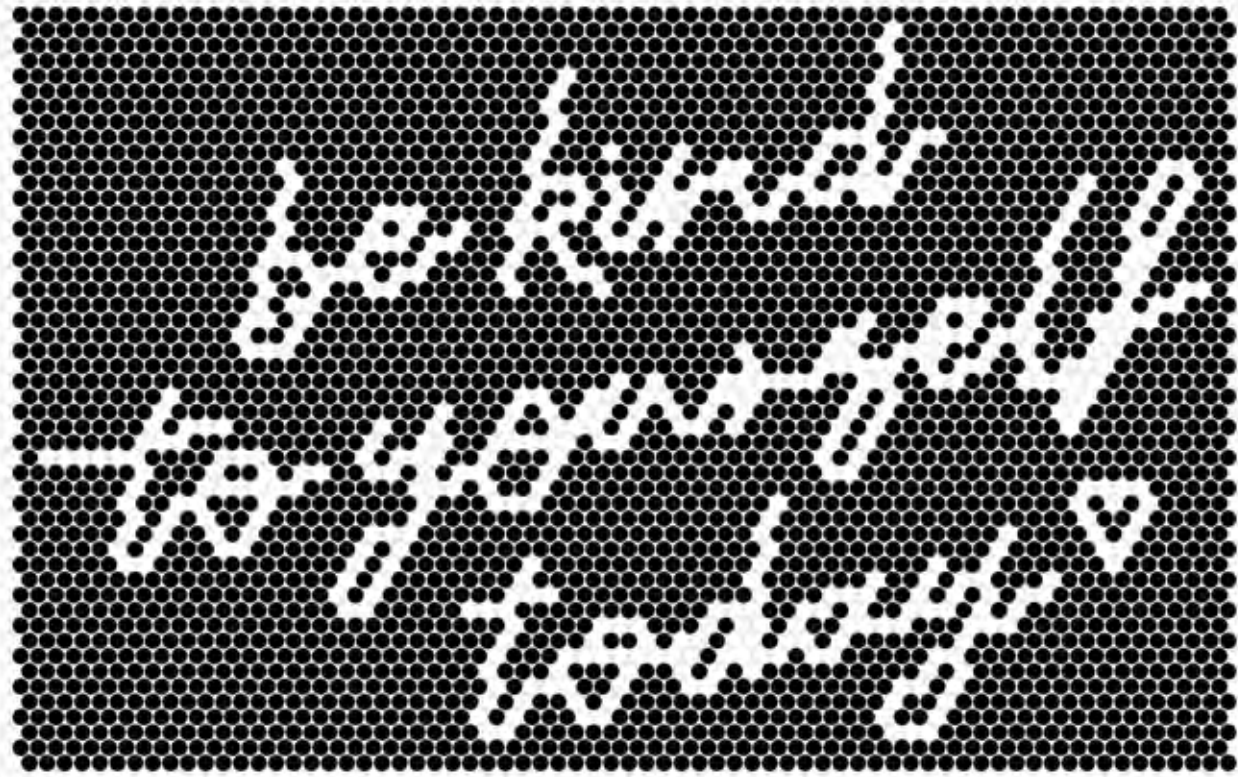
ARTISTIC MOSAIC



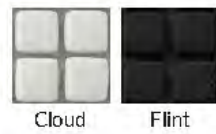
Pray for Surf
Piece size: S3 1/2"
Inlay: 30" x 30"



PIXEL ART

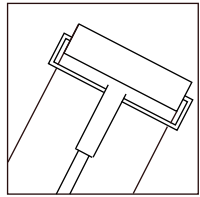


Be Kind to Yourself
Piece size: C1 1/2"
Inlay: 38 1/8" x 24 7/8"

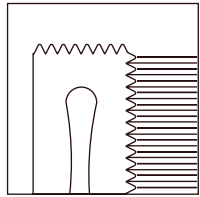


INSTALLATION GUIDELINES

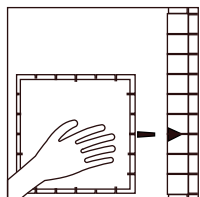
FOLLOW EACH STEP AS DIRECTED FOR BEST RESULTS



Apply a crack insulation membrane over substrate per the membrane manufacturer's instructions.



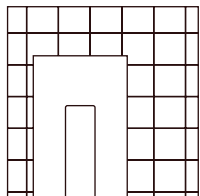
Use a V-notch trowel to apply a white glass tile thin-set mortar.
Comb notches in one direction.



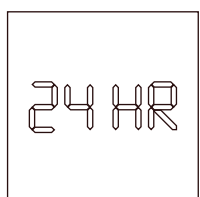
Set sheets into thin-set

*Either face-tape side out or mesh side to the wall.
*Geometro shapes 10mm or above come facetaped.

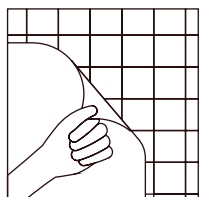
10mm & below are back mesh mounted.



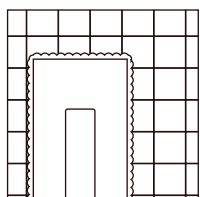
Lightly tap sheets with rubber grout float.



Wait 24 hours (minimum).



Remove film-face and remove excess thin-set from grout joints with a razor knife if necessary.



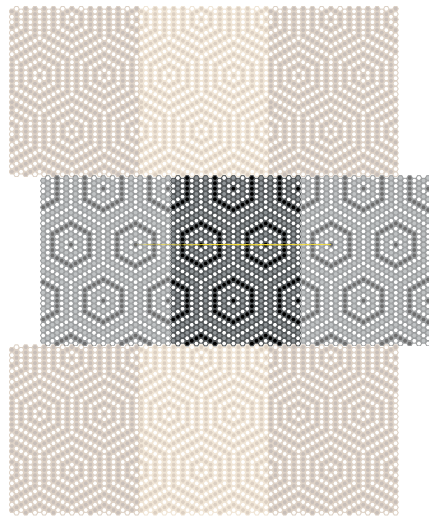
Apply grout per grout manufacturer's instructions.



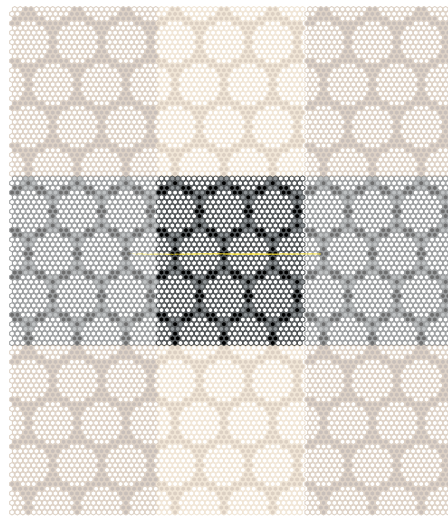
PATTERN DIAGRAMS

It is strongly suggested to dry fit all inlays before applying thin set.
Review pattern diagrams prior to installation;
This will help to view each pattern in the inlay space available & catch any possible mistakes.

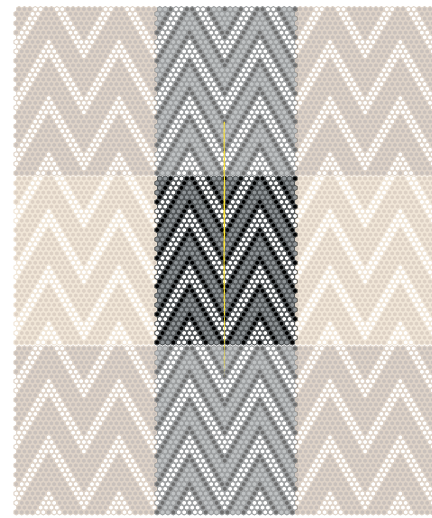
Belfort



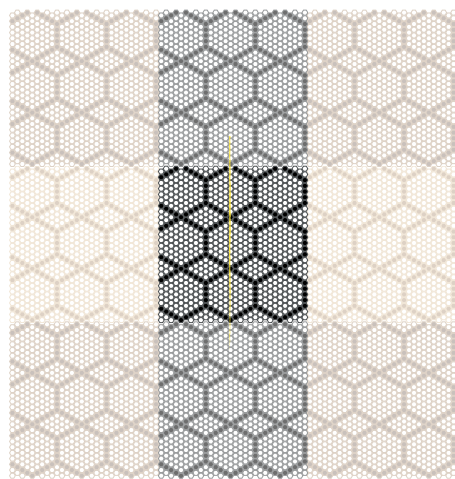
Bourges



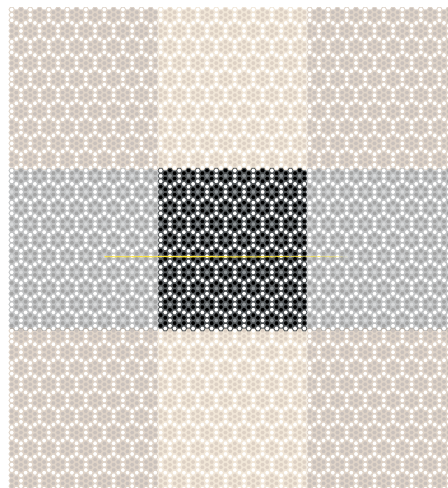
Amiens



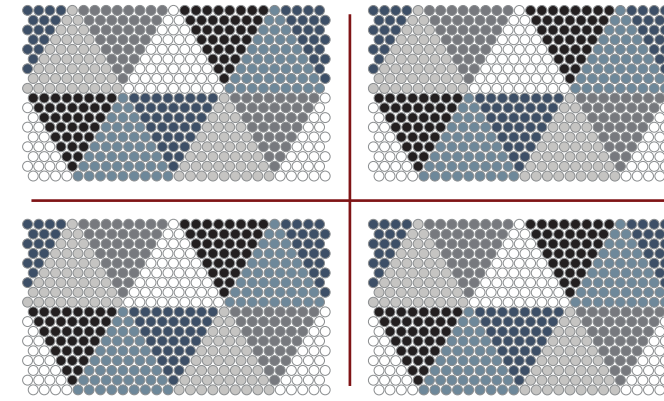
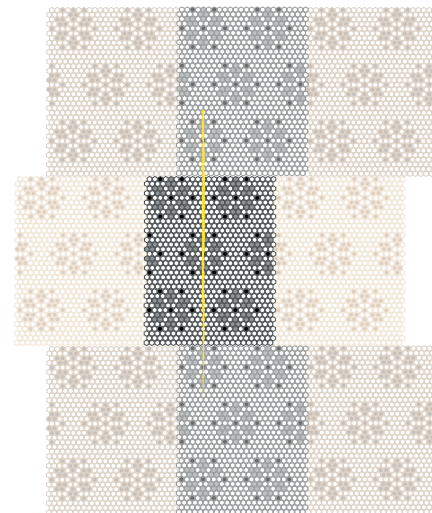
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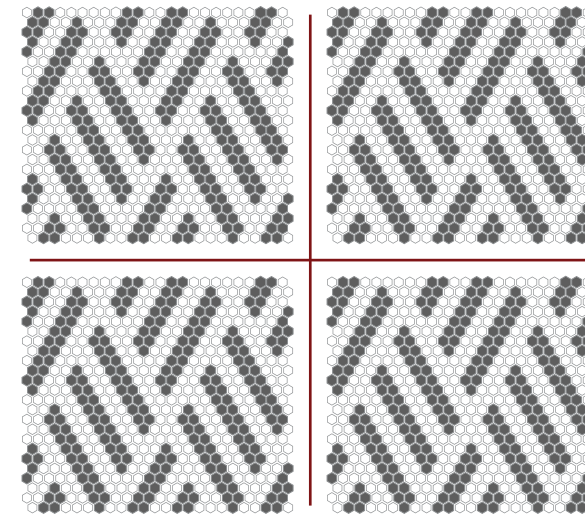
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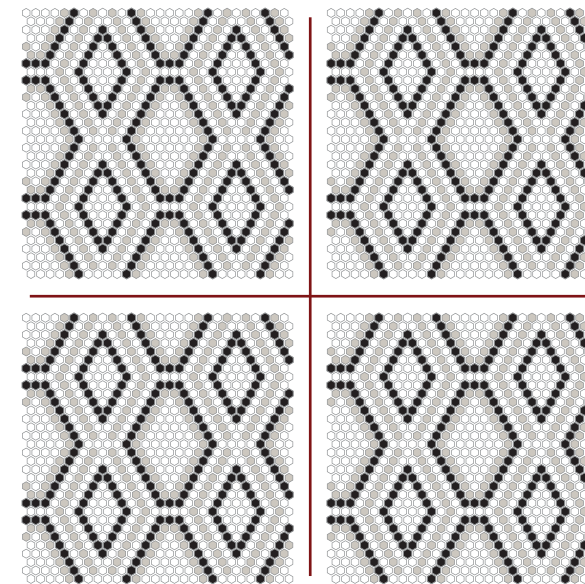
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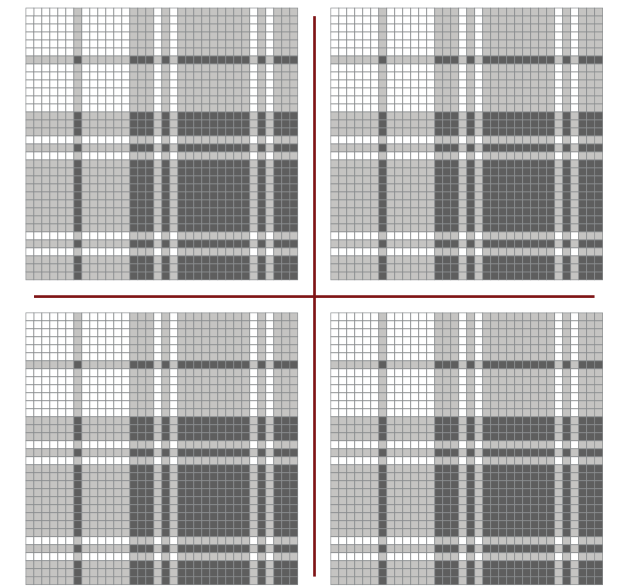
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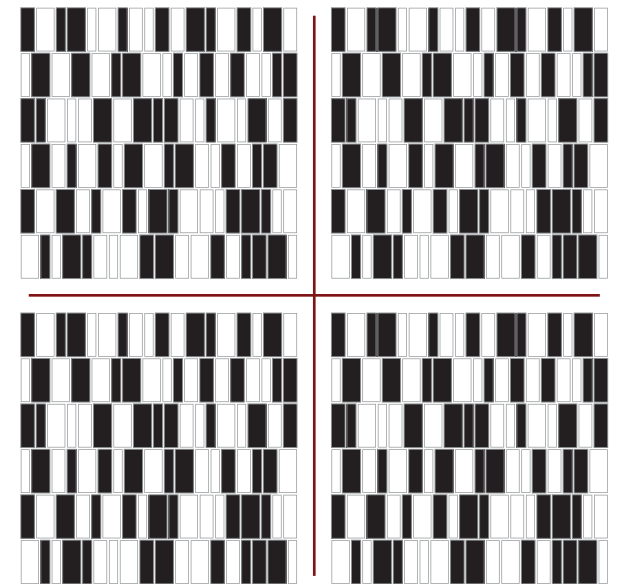
MISSONI



PYTHON



HIGHLAND



BARCODE

SETTING SYSTEMS

All materials should be used according to manufacturer's instructions. If the mosaic includes glass tiles, please note that due to the translucent nature of glass, the color of the bonding material will impact the ultimate look of the tile. We recommend the use of specific white bonding mortars; some mixed with specific latex admix.

See the following list for required thin-set and follow manufacturer's recommended cure times for all setting materials. Pools, spas and all submerged applications require a minimum 21-day cure time after grouting and before submersion or exposure to heavy water use.

Although we require the use of highest performing setting materials for installing our products, occasionally, due to the transparent and/or light translucent nature of some of our products, visible effects, also known as "ghosting", may occur behind glass tiles.

When Mixing Setting and Grouting Materials:

- 1 Measure liquid and powder per manufacturer's recommendations.
- 2 Machine mixing will provide more consistent results.
- 3 Do not exceed 300 rpm or manufacturer's recommendations.
- 4 Setting and grouting materials need to slake (set) 10 to 15 minutes after mixing and be remixed before use.

Acceptable Setting Systems (white)

- Custom Building Products: MegaFlex Crack Prevention Mortar
- Custom Building Products: MegaLite Crack Prevention Mortar
- Flextile: 52 Versatile Floor Mortar
- Hydroment ReFlex Ultra-Premium Latex-Modified Thin Set Mortar
- Kerakoll: H40 Tenax Single Component Thin-Set
- Laticrete: 254 Platinum Multipurpose Thin Set Mortar
- Mapei: Adhesilex P10 mixed with Keraply mortar additive
- TEC (H.B. Fuller): Super Flex Premium Performance Universal Latex-Modified Thin-Set Mortar
- FOR METAL (Geometro 2.0): Litokol LitoElastic Epoxy

Unacceptable Setting Systems

- Organic adhesive (mastic) – due to yellowing and low bond strength
- Epoxy – due to low flexibility, as well as degeneration in UV sunlight

Movement Joints

Movement joints are essential for the success of most tile installations. Follow recommendations on Movement Joints EJ171-07 in the "2008 TCA Handbook for Ceramic Tile Installation." Movement joint requirements will vary depending on substrate, climate and size of installation. An architect or design professional should be consulted when specifying the exact number and location of each movement joint. Saw-tooth joints are not recommended. Certain application may require a different type of sealant.

Acceptable Flexale Joint Fillers

- Hydroment: Chem-Calk 900 One-Part Urethane Sealant
- Kerakoll: Sigibuild PU Poly-Urethane Sealant
- Laticrete: Latacil 100% Silicone
- Silaflex: 1A or 2C Polyurethane-based Sealant

Grout

Install grout mix according to manufacturer's instructions. Grout should be full and uniformly finished. Due to the impervious quality of glass, the grout will take longer to begin setting-up. For initial cleaning of grout from the tile face, use clean, dry cheesecloth. This wicks additional moisture from the grout and avoids washing out the joints. Use on a clean, damp sponge for the final cleaning and smoothing of the joints. For final polishing of excess haze use a clean, soft cloth.

Acceptable Grouts

- Custom Building Products: Prism SureColor Grout (can go in pools)
- Custom Building Products: Fusion Grout
- Custom Building Products: Polyblend Sanded Tile Grout
- Flextile: 600 Polymer Sanded Floor Grout
- Hydroment: Sanded Ceramic Tile Grout
- Kerakoll: Fugabella 2-12
- Laticrete: 1500 Series Tile Grout or Equivalent
- Mapei: Ker200 Series and Ker700 Series Ultra/Color
- Tec: AccuColor Premium Sanded Tile Grout
- Litokol Starlike (for LeMer)
- Litokol Starlike grout or Customs Prism (for Gunmetal - Geometro 2.0)

An Acrylic grout admix can improve freeze-thaw resistance. Check manufacturer's recommendations.

Unacceptable Grout

- Epoxy Grout – due to low flexibility, as well as degeneration in UV sunlight
- Non-sanded grout – due to shrinkage
- Consult grout manufacturers before considering blue, green or red grout in submerged applications.

Anti-Fracture/Waterproofing Membranes

- Aquafin 1K and 2K/M: Cementitious waterproofing system
- Custom Building products: RedGard Waterproofing and Crack Prevention Membrane
- Hydroment: Gold Anti-fracture and waterproofing membrane
- Laticrete: 9235 waterproof & anitfracture membrane
- Tec: T1-324 Triple-Flex waterproofing/crack isolation membrane
- Xypex: Concentrate

We do not recommend membranes directly behind the setting material when installing translucent or transparent glass tile.

TESTING RESULTS

Water Absorption Test (ASTM C 373)

Samples were dried to a constant weight in an oven at 150 C, then cooled and weighed. Then were immersed in distilled water (boiling vigorously for 5 hours before cooling gradually to a total elapsed time of 29 hours). Samples were removed from water, wiped dry and immediately reweighed.

SAMPLE NO.	DRY WT. (GRAMS)	WET WT. (GRAMS)	PERCENT WATER ABSORPTION	AVERAGE
1.	31.46	31.46	0.00%	0.00%
2.	31.30	31.30	0.00%	
3.	29.87	29.87	0.00%	
4.	30.44	30.44	0.00%	
5.	30.78	30.78	0.00%	

Reference:

ANSI A 137.1 (General) - When tested as described in ASTM C 373, the tile in the sample shall be impervious for porcelain paver tile and shall be impervious, vitreous or semi-vitreous for natural clay paver tile.

Impervious Tile	(0.5% or less Water Absorption)	<input checked="" type="checkbox"/>	Materials Tested Comply with Specifications.
Vitreous Tile	(0.5%-3.0% Water Absorption)	<input type="checkbox"/>	Materials Tested Did Not Comply with Specifications.
Semi-Vitreous Tile	(3.0%-7.0% Water Absorption)	<input type="checkbox"/>	No Established Criteria for Acceptable Limits.
Unglazed Quarry Tile	(Max. 5.0% Water Absorption)	<input type="checkbox"/>	For Information Only.

Moisture Expansion (ASTM C-370 *Modified)

Each specimen was cut as possibly close from the center of a tile to an approximate facial dimension of 3"-3/4" x 3/4", then measured to an accuracy of 0.0001 inch. Specimens were put into an autoclave and subjected to a steam pressure of 150 PSI for five (5) hours. After pressure was released by opening a blow-off valve, the specimens were dried to a constant weight and remeasured. *Modification: Sample Size Limitation - 0.50 Hexagon Glass Buttons

SPECIMEN NO.	LENGTH INITIAL	LENGTH FINAL	PERCENT MOISTURE EXPANSION	AVERAGE
1.	0.38850	0.38850	0.00%	0.01%
2.	0.38735	0.38740	0.01%	
3.	0.39740	0.39740	0.00%	
4.	0.39950	0.39960	0.03%	
5.	0.39990	0.39990	0.00%	

<input type="checkbox"/>	Materials Tested Comply with Specifications.
<input type="checkbox"/>	Materials Tested Did Not Comply with Specifications.
<input type="checkbox"/>	No Established Criteria for Acceptable Limits.
<input checked="" type="checkbox"/>	For Information Only.

Test Results of ROHS Directive

ppm = Parts Per Million | ND = Not Detected

Tested Elements	Results
CADMIUM (cd)	ND
LEAD (cd)	ND

Radioactivity of Building Materials

Radioactivity of building materials were evaluated in accordance with GB 6566-2010, type A decoration materials.

Tested Elements	Results
RADIUM-226 Radioactivity Rate Activity, Bq/kg	4.906
THORIUM-232 Radioactivity Rate Activity, Bq/kg	2.999
POTASSIUM-40 Radioactivity Rate Activity, Bq/kg	48.61

Type A Decoration Materials

Radioactivity of building materials were conform to requirements specified in GB 6566-2010, type A decoration materials.

Requirements	Results
IRRADIATION < 1.0	< 0.1
EXTERNAL IRRADIATION < 1.3	< 0.1

Recycled Content of Material

The factory declares that the contents of enamel glass mosaic are silica (SiO₂) and zirconium silicate; and all materials are recycled from collet. No other new raw materials are added during the manufacturing process. The recycled content of materials is 98%.

Water Absorption Test (ISO 10545-3:1995)

Specimen dimensions: 20mm x 20mm x 7mm, 9pcs in each group.

Group No.	Test Results	Average
1	1.00	0.67
2	0.43	
3	0.49	
4	0.57	
5	1.09	
6	0.66	
7	0.51	
8	0.61	
9	0.63	
10	0.72	

Resistance to Stain Test (ISO 10545-14:1995)

Specimen dimensions: 20mm x 20mm x 7mm, 15pcs.

Group No.	Green Staining	Iodine 13g/L	Olive Oil
1	5	5	5
2	5	5	5
3	5	5	5
4	5	5	5
5	5	5	5

Thermal Stability

Specimen dimensions: 20mm x 20mm x 7mm, 50pcs.

Test Items	Test Method	Test Results
Thermal Stability	With reference to GB/T 7697-1996	No cracking/breakage on surface of all test specimens
Thermal Shock Resistance	ISO 10545-9:2013	Fully resistance
Frost Resistance	ISO 10545-12: 1995/Cor I: 1997	Fully resistance

Coefficient of Friction

Test method: GB/T 4100-2006 Annex M determining the coefficient of friction of ceramic tile specimens: 170mm x 170mm, 3pcs. All test samples were cut from the products with the size of 320mm x 320mm.

Test Items	Test Results
Coefficient of Friction for Dry Surface	0.77
Coefficient of Friction for Wet Surface	0.50

Resistance to Surface Abrasion

Test method: Refer to ISO 10545-7:1996 Ceramic tiles-part 7: Determination of resistance to surface abrasion for glazed tiles.
Specimens: mosaic
Test Results: After 1500 revolutions, visual failure occurred.

Chemical Resistance

Test method: GB/T 4100-2006 Annex M determining the coefficient of friction of ceramic tile specimens: 170mm x 170mm, 3pcs. All test samples were cut from the products with the size of 320mm x 320mm.

Aqueous Test Solutions	Test Results
Household Chemicals	Ammonium Chloride solution, 100g/l Visual Examination Class: GA
Swimming Pool Salts	Sodium Hypochlorite solution, 20mg/l Visual Examination Class: GA
Low Concentrations Acids & Alkalis	Hydrochloric Acid solution, 3% (V/V) Visual Examination Class: GA
	Citric Acid Solution, 100g/l Visual Examination Class: GA
	Potassium Hydroxide solution, 30g/l Visual Examination Class: GA

APPLICATIONS & SPECS

Tested for hardness and scoring a mohs hardness of 5.5 with excellent resistance to UV, common household chemicals, foot traffic, stains, and frost while delivering a slip resistance of r9.

It is an excellent choice for both vertical and horizontal surfaces, both indoors and outdoors as well as fully submerged pools & spas.



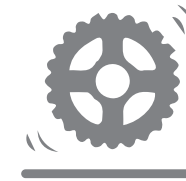
Interior Walls & Floors



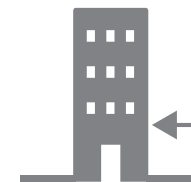
Linear Thermal Expansion Tested



Bath Walls/Floors & Steam Rooms



Abrasion Resistance



Exterior Walls



Frost Resistance



Exterior Floors



Chemical Resistance



Full Submersion in Pools & Spas



Eco-Friendly







