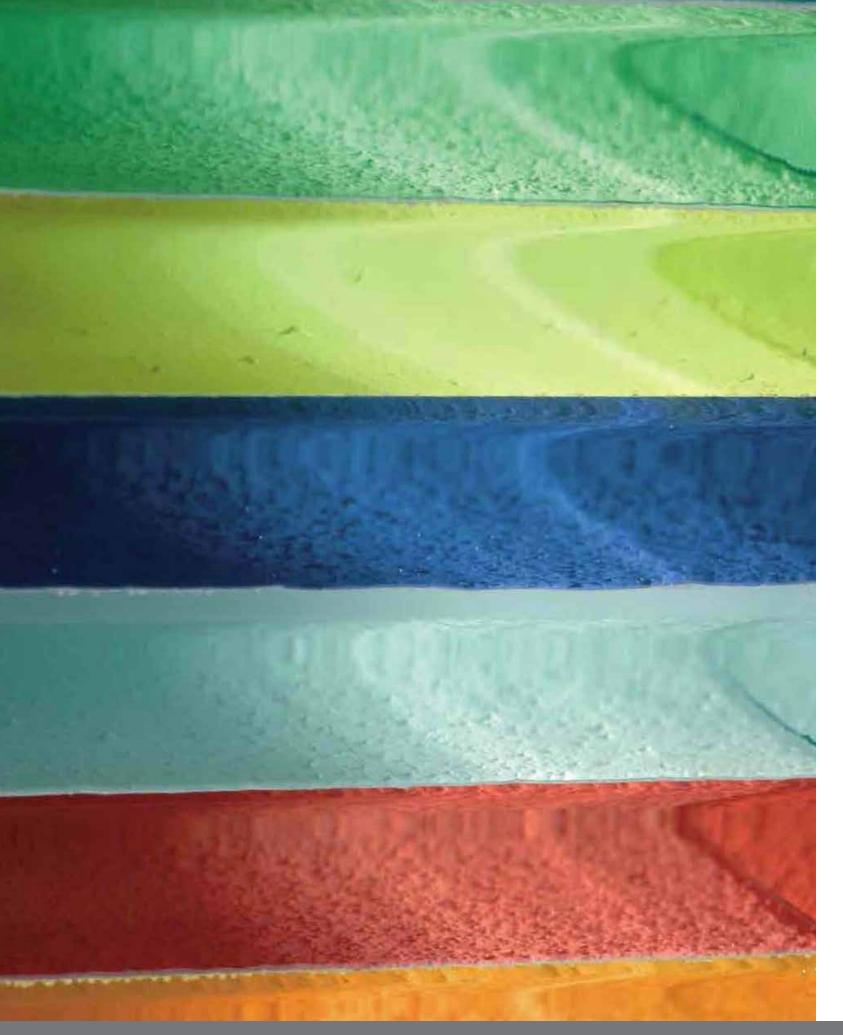
BRILLIANT GLASS TILES & MOSAICS



Product Guide



VILLI designs, develops and manufactures glass tiles and glass mosaics with world-class standards for quality, beauty and aesthetics.

Utilizing an innovative manufacturing process, VILLI products are created to provide a unique interplay of brilliant light and color.

Unlike any other product available, VILLI glass has a depth, texture and reflectance that will bounce light and color throughout your space. No matter where it is installed, VILLI will bring new sophistication to the places you live, work and play. It's brilliant.

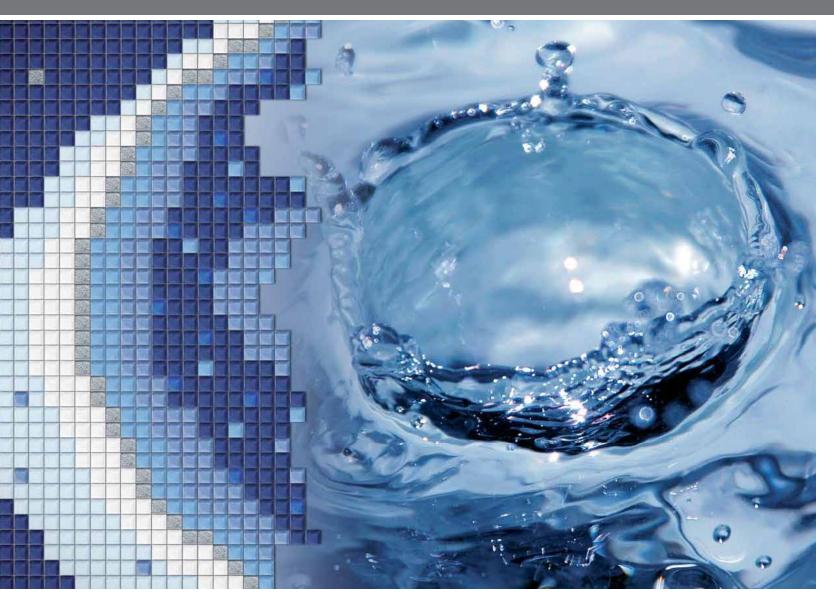
> VILLI USA 1340 Stonefield Court • Alpharetta, GA 30004 • USA T 678-990-5084 • F 678-990-5088 sales@villiusa.com

Villi

Unique & Brilliant

www.villiusa.com

GENERAL INFORMATION



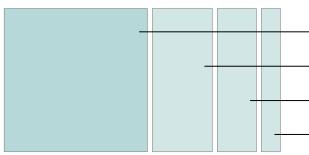
Unlimited Creative Possibilities

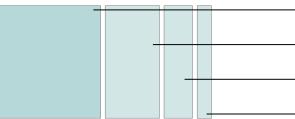
The VILLI product line with its wide range of colors and sizes gives planners and designers all the scope they require to put their ideas expression of stylish luxury and elegance.

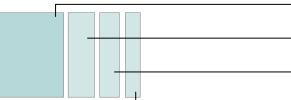
The Villi name stands for variety and perfection. The product range includes 6 square field tiles, 13 rectangular field tiles and a variety of

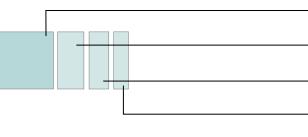
mosaics mounted on nets. The modular design of these sizes combined with absolute dimensional accuracy of every VILLI product into practice. Outstanding design for tiles and mosaics and the various allows for a **perfect combination of any formats**. Our mosaics, with surfaces offer unlimited creative possibilities. The profound depth a joint width of only 1/8", are preset on 12" x 12" mesh sheets, of our products reflected in the interplay of light and shadow creates ensuring a perfect fit. When the mosaics are used for trimmings or living spaces with a sense of well-being unknown hitherto. This is the ornamental elements, these mesh sheets can be cut to any size as necessary. When using Villi products in underwater applications, it is important to eliminate any hollow spaces underneath the tile. For this reason, mosaics for underwater use are face mounted, using foil, which is a special order item.













| | | 2 / 12 |
|---------|--------------|--------------------------|
| | DIM: | 1.98" x 11.72" |
| | | |
| 8" x 8" | NOM: | 8" x 8" |
| | DIM: | 7.78" x 7.78" |
| 4" x 8" | | |
| 4 10 | NOM: | 4" × 8" |
| | DIM: | 3.84" x 7.78" |
| 3" x 8" | NOM: | 3" x 8" |
| | DIM: | 2.86" x 7.78" |
| 2" x 8" | | |
| | NOM: DIM: | 2" x 8" 1.98" x 7.78" |
| | DIN. | 1.90 × 1.10 |
| | | |
| 6" x 6" | NOM: | 6" × 6" |
| | DIM: | 5.81" x 5.81" |
| 3" x 6" | NOM: | 3" x 6" |
| | DIM: | 2.86" x 5.81" |
| | L | |
| 4" x 4" | | |
| | NOM: DIM: | 4" x 4" 3.84" x 3.84" |
| | | 0.04 × 0.04 |
| | | |

| 12" x 12" | NOM: DIM: | 12" x 12" 11.72" x 11.72" |
|-----------|--------------|------------------------------|
| 4" x 12" | NOM: DIM: | 4" x 12" 3.84" x 11.72" |
| 3" x 12" | NOM: DIM: | 3" x 12" 2.86" x 11.72" |
| 2" x 12" | NOM: DIM: | 2" x 12" 1.98" x 11.72" |

| | NOM: DIM: | 8″ x 24″ 7.78" x 23.54" |
|-----------|--------------|------------------------------|
| 4" x 24" | NOM: DIM: | 24" x 4" 3.84" x 23.54" |
| 16" x 16" | NOM: DIM: | 16" x 16" 15.66" x 15.66" |
| 8" x 16" | NOM: DIM: | 8" x 16" 7.78" x 15.66" |
| 4" x 16" | NOM: DIM: | 4" x 16" 3.84" x 15.66" |
| 2" x 16" | NOM: DIM: | 2" x 16" 1.98 x 15.66 |

| 24" x 24" | NOM: | 24" x 24" |
|-----------|--------------|------------------------------|
| | DIM: | 23.54" x 23.54" |
| 12" x 24" | NOM: DIM: | 12" x 24" 11.72" x 23.54" |
| 8" x 24" | NOM: DIM: | 8" x 24" 7.78" x 23.54" |
| 4" x 24" | NOM: DIM: | 24" x 4" 3.84" x 23.54" |

| NOM: | Nominal measurement |
|--------------------------|---------------------|
| DIM: | Actual measurement |
| Tolerance: | ± 0.016" |
| Modular combination: | YES |
| Joint width: | 0.079" |
| Other sizes available on | request |

GENERAL INFORMATION

SIZES TRIM PIECES & FLAT LINERS

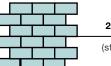
| NOM: | Nominal measurement |
|------|---------------------|
| DIM: | Actual measurement |

SIZES MOSAICS

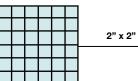


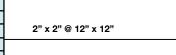
Preset on mesh sheets (joint width 2mm)

Sheet (foil) on the front for underwater applications and Metallic (joint width 2mm)



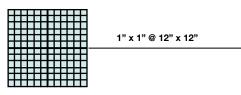
2" x 4" @ 12" x 12" (stocked in selected colors only)



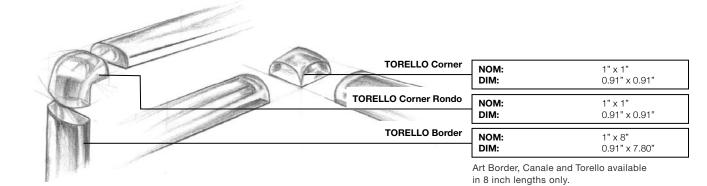


| OFFSET 1" x 2" @ 12" x 12" |
|----------------------------|
| |
| |
| |
| |





| 1" x 16" | NOM: DIM: | 1" x 16" 0.91" x 15.67" |
|--------------------|----------------------------------------------------|------------------------------|
| 1" x 12" | NOM: DIM: | 1" x 12" 0.91" x 11.73" |
| 5/8" x 12" | NOM: DIM: | 5/8" x 12" 0.54" x 11.73" |
| 1" x 8" | NOM: DIM: | 1" x 8" 0.91" x 7.80" |
| | 5/8 inch by 12 inch Flat in select colors only. | Liners stocked |
| ART Corner Rondo | NOM: DIM: | 2" x 1" 1.89" x 0.91" |
| ART Border | NOM: DIM: | 2" x 8" 1.89" x 7.80" |
| ART Corner | NOM: DIM: | 2" x 2" 1.89" x 1.89" |
| 8 mm CANALE Corner | NOM: DIM: | 1" x 1" 0.91" x 0.91" |
| CANALE Border | NOM: DIM: | 1" x 8" 0.91" x 7.80" |





| NOM: | | Nominal measurement |
|-------------------------|-----------|----------------------|
| DIM: | | Actual measurement |
| Tolerance mosaic | | + 0.016" - 0.016" |
| Tolerance mesh sheet | | + 0.016" - 0.016" |
| Prefabricated | on mesh s | heets. |
| Modular com | pination: | YES |
| Joint width: | | 0.079" |
| Other formats | available | on request |

| NOM: | 2" × 4" |
|--------|--------------------------------|
| DIM: | 1.98" × 3.84" |
| Prefat | oricated on: |
| NOM: | 12" x 12" |
| DIM: | 11.81" x 11.81" |
| Mater | ial needed: 1 sqft = 1 pcs. |
| NOM: | 2" x 2" |
| DIM: | 1.98" x 1.98" |
| | pricated on: |
| Mater | ial needed: 1 sqft = 1 pcs. |
| | 1.1.0.1 |
| NOM: | 1" x 2" |
| DIM: | 0.91" x 1.98" |
| Prefat | pricated on: |
| NOM: | 12" x 12" |
| DIM: | 10.69" x 11.71" |
| Mater | ial needed: 1 sqft = 1.14 pcs. |
| NOM: | 1" x 2" |
| DIM: | 0.91" x 1.98" |
| Prefat | oricated on: |
| NOM: | 12" x 12" |
| DIM: | 11.81" x 11.81" |
| Mater | ial needed: 1 sqft = 1 pcs. |
| NOM: | 1" x 1" |
| DIM: | 0.91" x 0.91" |
| Prefat | pricated on: |
| NOM: | 12" x 12" |
| DIM: | 11.81" x 11.81" |
| Matar | ial needed: 1 sqft = 1 pcs. |

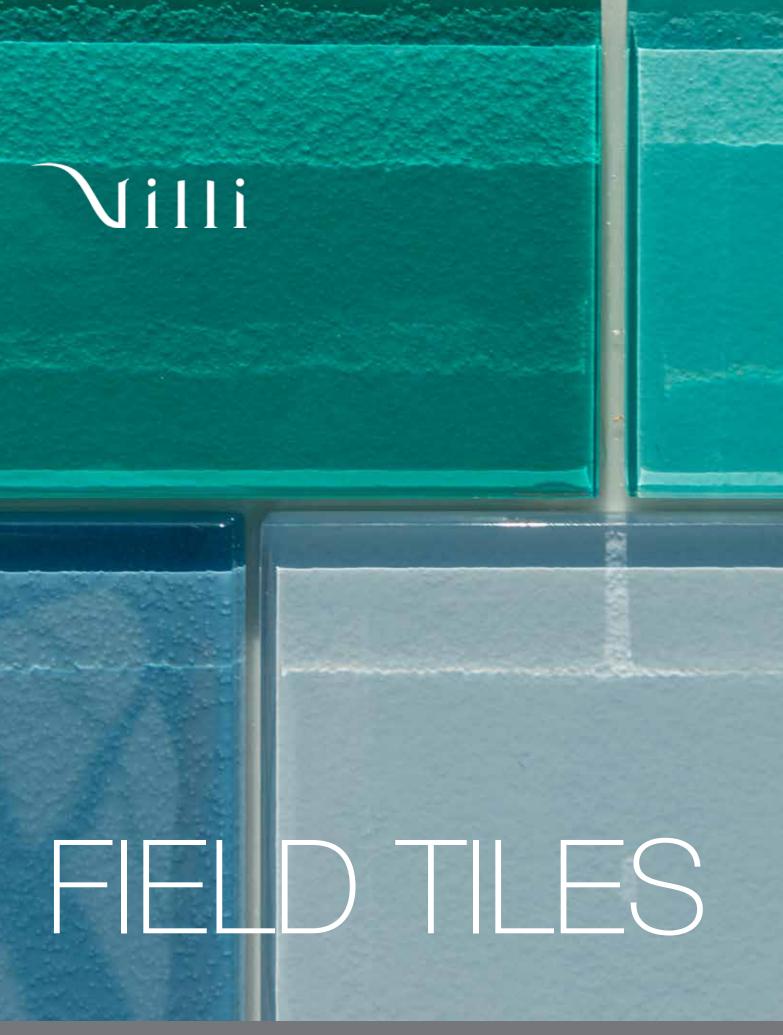
GENERAL INFORMATION

| <complex-block><text></text></complex-block> | | nfered and processed nd Baby River) and is |
|----------------------------------------------|----------------------------------|------------------------------------------------------|
| | | |
| River Mosaic Puzzle @ 12" x 12" | NOM: DIM: Material needed: | 12" x 12" approx.11" x 11" 1 sqft = 1.235 pcs. |
| Baby River Mosaic @ 12" x 12" | NOM: DIM: Material needed: | 12" x 12" 11.81" x 11.81" 1 sqft = 1 pcs. |
| Baby River Mosaic @ 6" x 12" | NOM: DIM: Material needed: | 6" x 12" 5.81" x 11.81" 1 sqft = 2 pcs. |
| Baby River Mosaic @ 2" x 8" | NOM: DIM: Material needed: | 2" x 8" 1.97" x 7.87" 1 sqft = 9.023 pcs. |

| | Overview Produ | ict Ra | ange | | UNICOLOR | | | DECOR | | | | | |
|--------------|---------------------------------------------------|-----------|----------------|----------------|----------|-------|--------|--------|-----------|---------|----------|------|--------|
| | | Packing | sq.ft./ box | xod/sdl | GLOSSY | MATTE | ANTICO | FOSSIL | SKID RES. | BAROQUE | ELEMENTS | XYNO | RELIEF |
| | Size | | | | | | | | | | | | |
| | 24" x 24" | 3 | 12 | 47.64 | • | • | - | - | - | - | - | - | - |
| | 16" x 16" | 7 | 12.45 | 50.05 | • | • | - | • | • | • | • | - | • |
| | 12" x 12" | 12 | 12.00 | 47.40 | • | • | - | • | • | - | - | - | - |
| | 8" x 8" | 12 | 5.33 | 21.00 | • | • | - | - | • | - | - | - | - |
| | 6" × 6" | 24 | 6.00 | 24.24 | • | • | - | - | - | - | - | - | - |
| | 4" x 4" | 48 | 5.33 | 20.64 | • | • | - | - | • | - | - | - | - |
| | 12" x 24" | 6 | 12.00 8 | 47.64 | • | • | - | - | - | - | - | - | - |
| (0 | 4" x 24" | 6 | | 30.00 | • | • | | | - | - | - | - | - |
| FIELD TILES | 8" x 16" | 18 | 12 6.23 | 47.70 | • | • | - | - | - | | - | - | - |
| IELD | | 7 | | 25.13 | | | - | | - | - | | - | - |
| Ľ | 4" x 16" | 14 18 | 6.22 6.00 | 25.06 23.76 | • | • | - | - | - | - | - | - | - |
| | 4" x 8" | 24 | 5.33 | 23.76 | • | • | - | - | - | - | - | - | - |
| | 3" x 12" | 48 | 12 | 48.00 | • | • | - | - | - | - | - | - | - |
| | 3" x 12" | 48 | 8 | 48.00 36.00 | • | • | - | - | - | - | - | - | - |
| | 3" × 6" | | 6 | | • | • | _ | - | _ | - | _ | | |
| | | 48 28 | 6.22 | 23.52 28.00 | • | • | - | - | _ | - | - | - | - |
| | 2" x 16" | 36 | 8 | | • | • | | | | | | | |
| | 2" x 8" | 36 | 4 | 27.00 18.00 | • | • | - | - | - | - | - | - | - |
| | 1" x 16" | 12 | 1.33 | 5.3 | • | • | - | - | _ | - | _ | _ | - |
| | 1" x 12" | 12 | 1 | 4.00 | • | • | _ | _ | _ | _ | _ | _ | _ |
| | 1" x 8" | 12 | 0.66 | 2.52 | • | • | _ | _ | _ | _ | _ | _ | _ |
| | 5/8" x 12" | | 5.63 | 23.76 | | | | | | | | | |
| | POPDER | 108 12 | 5.65 | 4.00 | • | • | - | - | - | - | - | - | - |
| | | 4 | | 1.00 0.5 | • | • | - | - | - | - | - | | - |
| | CANALE BORDER CORNER | 12 4 | | 4.00 | • | • | - | - | - | - | - | - | - |
| | TORELLO CORNER | 12 | | 4.00 | • | • | - | - | - | - | - | | - |
| | TORELLO CONKER RONDO 2" x 4" @ 12" x 12" | 4 | 0.00 | 1.00 | • | • | - | - | - | - | - | - | - |
| NC | @ 12" x 12" 2" x 3" | 6 | 6.00 | 21.42 | • | • | - | • | - | - | - | - | - |
| MOSAIC | @ 12" x 12" | 6 | 5.95 | 23.80 | - | - | - | • | - | - | - | - | - |
| | 2" X 2" @ 12" X 12" | 6 | 6.00 | 22.80 | • | • | • | - | - | - | - | • | - |
| | OFFSET 1" X 2" @ 12" X 12" | 6 | 5.28 | 19.37 | • | • | • | - | - | - | - | - | - |
| | PARALLEL 1" X 2" @ 12" x 12" | 6 | 6.00 | 22.08 | • | • | • | - | - | - | - | - | - |
| | 1" x 1" @ 12" x 12" | 6 | 6.00 | 19.92 | • | • | • | • | - | - | • | • | - |
| | Multiformat | 6 | 6.00 | 21.2 | • | • | - | - | - | - | - | - | - |
| | Pencils | 6 | 6.00 | 19.02 | - | - | - | - | - | - | - | - | - |
| | Buttons 1" @ 12" x 12" | 6 | 6.00 | 17.58 | - | - | - | - | - | - | - | - | - |
| | Buttons 3/4" @ 12" x 12" | 6 | 5.22 | 18.06 | - | - | - | - | - | - | - | - | - |
| | River Mosaic | 7 | 5.67 | 21.61 | • | _ | - | - | _ | - | - | • | - |
| SAIC | @ 12" x 12" Baby River Mosaic | 6 | 6.00 | 21.61 | • | _ | - | _ | _ | _ | _ | • | - |
| RIVER MOSAIC | Baby River Mosaic | 12 | 6.00 | 22.05 | • | _ | _ | _ | _ | _ | _ | _ | _ |
| RIVE | @ 6" x 12" Baby River Mosaic | | | | | | | | | | | | |
| | @ 2" x 8" | 12 | 1.33 | 4.85 | • | - | - | - | - | - | - | • | - |

INSTALLATIONS





TILES UNICOLOR

TILES UNICOLOR Glossy

| | Size | Packaging | Sq. Ft. | Order Code |
|-----------------------|-----------|-----------|---------|-----------------------|
| | 24" x 24" | 3 | 12.00 | colorcode-6060-08-000 |
| | 16" x 16" | 7 | 12.44 | colorcode-4040-08-000 |
| | 12" x 12" | 12 | 12.00 | colorcode-3030-08-000 |
| | 8" × 8" | 12 | 5.33 | colorcode-2020-08-000 |
| | 6" × 6" | 24 | 6.00 | colorcode-1515-08-000 |
| | 4" x 4" | 48 | 5.33 | colorcode-1010-08-000 |
| TILES UNICOLOR GLOSSY | 12" x 24" | 6 | 12.00 | colorcode-6030-08-000 |
| | 8" x 24" | 9 | 12.00 | colorcode-6020-08-000 |
| | 4" x 24" | 12 | 8.00 | colorcode-6010-08-000 |
| | 8" x 16" | 7 | 6.22 | colorcode-4020-08-000 |
| | 4" x 16" | 14 | 6.22 | colorcode-4010-08-000 |
| | 2" x 16" | 36 | 6.00 | colorcode-4050-08-000 |
| | 4" x 12" | 18 | 6.00 | colorcode-3010-08-000 |
| | 3" x 12" | 48 | 12.00 | colorcode-3075-08-000 |
| | 2" x 12" | 36 | 6.00 | colorcode-3050-08-000 |
| | 4" × 8" | 24 | 5.33 | colorcode-2010-08-000 |
| | 3" × 8" | 48 | 8.00 | colorcode-2075-08-000 |
| | 2" x 8" | 72 | 8.00 | colorcode-2050-08-000 |
| | 3" × 6" | 48 | 6.00 | colorcode-1575-08-000 |

| | | 3 0 223800 |
|--------------------------|-------------------|---------------------|
| 0001 Bright White | 0002 Pergemon | 0003 Florence Brown |
| 0004 Hazelnut | 0005 Brown | 0006 Cotio |
| | | |
| 0007 Chocolate | 0008 Mocca | 0009 Black |
| | | |
| 0011 Steel Blue | 0013 Shining Blue | 010 Royal Blue |
| | | |
| 0014 Surf | 0012 Blue Sky | 0017 Turquoise |
| | | |
| 0015 lbe | 0016 Bue Cloud | 0018 Venice Blue |
| | | |
| 0019 Ireland Green | 0046 Lernon Grass | 0020 Emerald |
| | | |
| 0023 Grey Stone | 0022 Highland Gr. | 0021 Green Olive |
| | | |
| 0025 Menhattan | 0024 Clear Grey | 0027 Dark Grey |
| | | |
| 0026 London Blue | 0044 Lavender | 0028 Amethyst |
| | | |
| 0043 Nude | 0047 Sugar Rose | 0029 Burgundy |
| | | |
| 0031 Orange | 0030 Red | 0045 Berry Red |
| | | |
| 0034 Lime | 0032 Mandarin | 0050 Anthracite |
| | | |
| 0035 Champagne | 0033 Com | 0060 Smokey Taupe |
| Other colors/sizes avail | able on request | 0041 Silver Grey |

TILES UNICOLOR Matte

The delicate coat on the top side and a subsequent second fusing process give the surface a matte, slightly rough touch. That means the surface has not been sand-blasted and has closed pores. This makes it resistant to fingerprints, and grease stains are easier to clean.



Other colors/sizes available on request

| Static coefficien | t of friction: |
|-------------------|----------------|
| Dry | 0.9 |
| Wet | 0.7 |





| Size | Packaging | Sq. Ft. | Order Code | |
|-----------|-----------|---------|-----------------------|----------------------|
| 24" x 24" | 3 | 12.00 | colorcode-6060-08-001 | |
| 16" x 16" | 7 | 12.44 | colorcode-4040-08-001 | |
| 12" x 12" | 12 | 12.00 | colorcode-3030-08-001 | |
| 8" x 8" | 12 | 5.33 | colorcode-2020-08-001 | |
| 6" × 6" | 24 | 6.00 | colorcode-1515-08-001 | |
| 4" × 4" | 48 | 5.33 | colorcode-1010-08-001 | |
| 12" x 24" | 6 | 12.00 | colorcode-6030-08-001 | |
| 8" x 24" | 9 | 12.00 | colorcode-6020-08-001 | ш |
| 4" x 24" | 12 | 8.00 | colorcode-6010-08-001 | TILES UNICOLOR MATTE |
| 8" x 16" | 7 | 6.22 | colorcode-4020-08-001 | NICOLO |
| 4" x 16" | 14 | 6.22 | colorcode-4010-08-001 | ILLES UN |
| 2" x 16" | 36 | 6.00 | colorcode-4050-08-001 | F |
| 4" x 12" | 18 | 6.00 | colorcode-3010-08-001 | |
| 3" x 12" | 48 | 12.00 | colorcode-3075-08-001 | |
| 2" x 12" | 36 | 6.00 | colorcode-3050-08-001 | |
| 4" x 8" | 24 | 5.33 | colorcode-2010-08-001 | |
| 3" × 8" | 48 | 8.00 | colorcode-2075-08-001 | |
| 2" × 8" | 72 | 8.00 | colorcode-2050-08-001 | |
| 3" x 6" | 48 | 6.00 | colorcode-1575-08-001 | |

TILES UNICOLOR

TILES UNICOLOR Skid Resistant Floor Tiles



| | Size | Packaging | Sq. Ft. | Order Code |
|---------------------------------|-----------|-----------|---------|--------------------------------------------------------|
| DLOR SKID RESISTANT FLOOR TILES | | | | ble in every color n in the adjacent color pallette |
| UNICOLOR | 16" x 16" | 7 | 12.45 | colorcode-4040-08-003 |
| TILES | 12" x 12" | 12 | 12 | colorcode-3030-08-003 |
| Ē | 8" x 8" | 12 | 5.33 | colorcode-2020-08-003 |
| | 4" × 4" | 48 | 5.33 | colorcode-1010-08-003 |

| | | Shith St. C. |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | | Carlos and a second |
| ODDA DULLANDA | 00000 | CONTRACTOR OF CONTRACTOR |
| 0001 Bright White | 0002 Pergamon | 0003 Florence Brown |
| 1.22 | SECONS | STREET ST |
| 1.353/11-30 | 13201682 | S STANS |
| 0004 Hazelnut | 0006 Brown | D006 Cotto |
| OUCH PREMI CA | ODUG BROWN | ULUG COLLO |
| -THERE A | 153319968 | -17 TARA |
| | A SINE . | |
| 0007 Chocolate | 0006 Mocca | 0009 Black |
| Survey of the owner of the | No. of Concession, Name | State of the local division of the local div |
| REAL PROPERTY OF | JOINERSON ST | STATISTICS. |
| | 1 BIRDEN | Constant of the |
| 0011 Steel Blue | 0013 Shining Blue | 010 Royal Blue |
| 100000000000000000000000000000000000000 | ALCONTRACTOR OF | |
| | | |
| | A STREET | |
| 0014 Surf | 0012 Blue Sky | 0017 Turquoise |
| | | and the second second |
| | State States | NO WAR |
| | S-1.3-3 | |
| 0015 ke | 0016 Blue Cloud | 0018 Venice Blue |
| The second second | States of the | and the second second |
| | | |
| and the second second | | man and the second |
| 0019 Ireland Green | 0046 Lemon Grass | 0020 Emerald |
| MERICAN HE | | |
| | | D ANGEN ET |
| | (A) | |
| 0023 Grey Stone | 0022 Highana Gr. | 0021 Green Olive |
| | NOT STREET | C MELLIE A |
| | 131.201 | Contract of |
| 0025 Machattan | 0024 Clear Grey | 0027 Dark Casy |
| COLO MADE CALL | Manual Color Color | CONTRACTOR NAME |
| - 642. 12 | SHUNDER ST | STATES S |
| and the second s | SPUELTE AL | CARE PRACE |
| 0026 London Blue | 0044 Lavender | 0028 Amethyst |
| 10.00 CO 10 | Para and Sala | NO. CONTRACTOR |
| | | TEN STREET |
| | | THE REAL PROPERTY. |
| 0043 Nude | 0047 Sugar Rose | 0029 Burgundy |
| | A STATE AND | State of the second second |
| | | |
| A COMPLET | 1344 [082] | CONTRACTOR OF |
| 0031 Orange | 0030 Red | 0045 Berry Red |
| | 100000 | |
| 10.000 | | |
| 00041 | 000011-000 | |
| 0034 Lime | 0032 Mandarin | 0050 Anthracite |
| | | and the same |
| | | CHEROSAN |
| 0035 Champaigne | 0033 Core | 0060 Smokey Taupe |
| orga outsidadi si | COURT CONT | 0000 Smokey laupe |
| | | 1440 1 440 |
| | | |
| Other colors/sizes availab | le on request | 0041 Silver Grey |
| | | · · On · O O O |

| 0004 Hazeinut 0007 Chocolate 0011 Steel Bue 0014 Sut | 0002 Porgamon 0005 Brown 0006 Mocica 0013 Shining Blue 0012 Blue Sky | 0003 Forence Brown Oco6 Cotto Oco9 Black Oto Poyer Blue Oto Poyer Blue |
|---------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 0004 Hazeinut 0007 Chocolate 0011 Steel Bue 0014 Sut | 0006 Brown 0006 Mocca 0013 Shining Blue | COOB Cotto COOB Cotto COOB Back COOB Back COOB Back COOB Back COOB Cotto COOB COTTO COOD COOB COTTO COOD COOD COOD COOD COOD COOD COOD COO |
| 0007 Chocolate 0011 Steel Blue 0014 Surt 0015 Ice | 0008 Mocia 0013 Shining Blue | 0009 Black 010 Royal Blue 0017 Turquoise |
| 0007 Chocolate 0011 Steel Blue 0014 Surt 0015 Ice | 0008 Mocia 0013 Shining Blue | 0009 Black 010 Royal Blue 0017 Turquoise |
| 0011 Steel Bue 0 0014 Surt 0 0015 Ice 0 | 0013 Shining Blue | 010 Royal Blue |
| 0011 Steel Bue 0 0014 Surt 0 0015 Ice 0 | 0013 Shining Blue | 0017 Turquoise |
| 0014 Surt 0 | | 0017 Turquoise |
| 0015 kce | 0012 Bue Sky | 0017 Turquoise |
| 0015 kce | 0012 Bue Sky | |
| 1 ju | | |
| 1 ju | | 4.3 1. |
| 0019 heland Green | 0016 Blue Cloud | 0018 Venice Blue |
| 0019 Iteland Green | | Aller Constant |
| 國國共產黨 | 0046 Lemon Grass | 0020 Emerald |
| | | |
| 0023 Grey Stone (| 0022 Highland Gr. | 0021 Green Olive |
| 0025 Manhattan | 0024 Clear Grey | 0027 Dark Grey |
| | | |
| 0026 London Blue | 0044 Lavender | 0028 Amethyst |
| | | Saure 7 |
| 0043 Nude 0 | 0047 Sugar Rose | 0029 Burgundy |
| T ₁ | | |
| 0031 Orange 0 | 0090 Red | 0045 Berry Red |
| | | |
| 0034 Lime 0 | 0032 Mandarin | 0050 Anthracite |
| | | Sec. |
| 0035 Champaghe | 0033 Com | 0060 Smokey Taupe |
| Other ockens/sizes available | | The second |

Villi

TILES UNICOLOR



| Size Packaging Sg. Ft. Order | |
|--------------------------------------------------------|-------------|
| Size Packaging Sq. Ft. Order | r Code |
| Available in every color shown in the adjacent colo | or pallette |
| 16" x 16" 7 12.45 colorcode-4 | 4040-08-114 |
| 12" x 12" 12 12.00 colorcode-3 | 3030-08-114 |

BORDERS



Glossy & Matte

| | Size | | Packing | Sq. Ft. | Order Code |
|---------------------------|-----------------|------------|---------|---------|---------------------------------------------------------------|
| | Flat Liner | 1" x 16" | 12 | 1.33 | GLOSSY: colorcode-4025-08-408 |
| | Flat Liner | 1" x 12" | 12 | 1.00 | GLOSSY: colorcode-3025-08-408 |
| Ш | Flat Liner | 1" x 8" | 12 | 0.67 | GLOSSY: colorcode-2025-08-408 MATTE: colorcode-2025-08-409 |
| TRIM PIECES GLOSSY, MATTE | Flat Liner | 5/8" X 12" | 108 | 5.625 | GLOSSY: colorcode-3015-08-408 MATTE: colorcode-3015-08-409 |
| | See Contraction | BORDER | 12 | | GLOSSY: colorcode-2050-08-400 |
| | | CORNER | 4 | | GLOSSY: colorcode-5050-08-401 |
| | ART | RONDO | 2 | | GLOSSY: colorcode-5050-08-402 |
| | | BORDER | 12 | | GLOSSY: colorcode-2025-08-403 |
| | CANALE | CORNER | 4 | | GLOSSY: colorcode-5525-08-404 |
| | | BORDER | 12 | | GLOSSY: colorcode-2025-08-405 |
| | and the | CORNER | 4 | | GLOSSY: colorcode-5525-10-406 |
| | TORELLO | RONDO | 4 | | GLOSSY: colorcode-2525-10-407 |

Glossy available in every color shown in the adjacent color palette • Matte available as special order and stocked in selected colors in 1" x 8" and 5/8" x 12" sizes - Call for in-stock colors



Other colors/sizes available on request

0041 Silver Grey

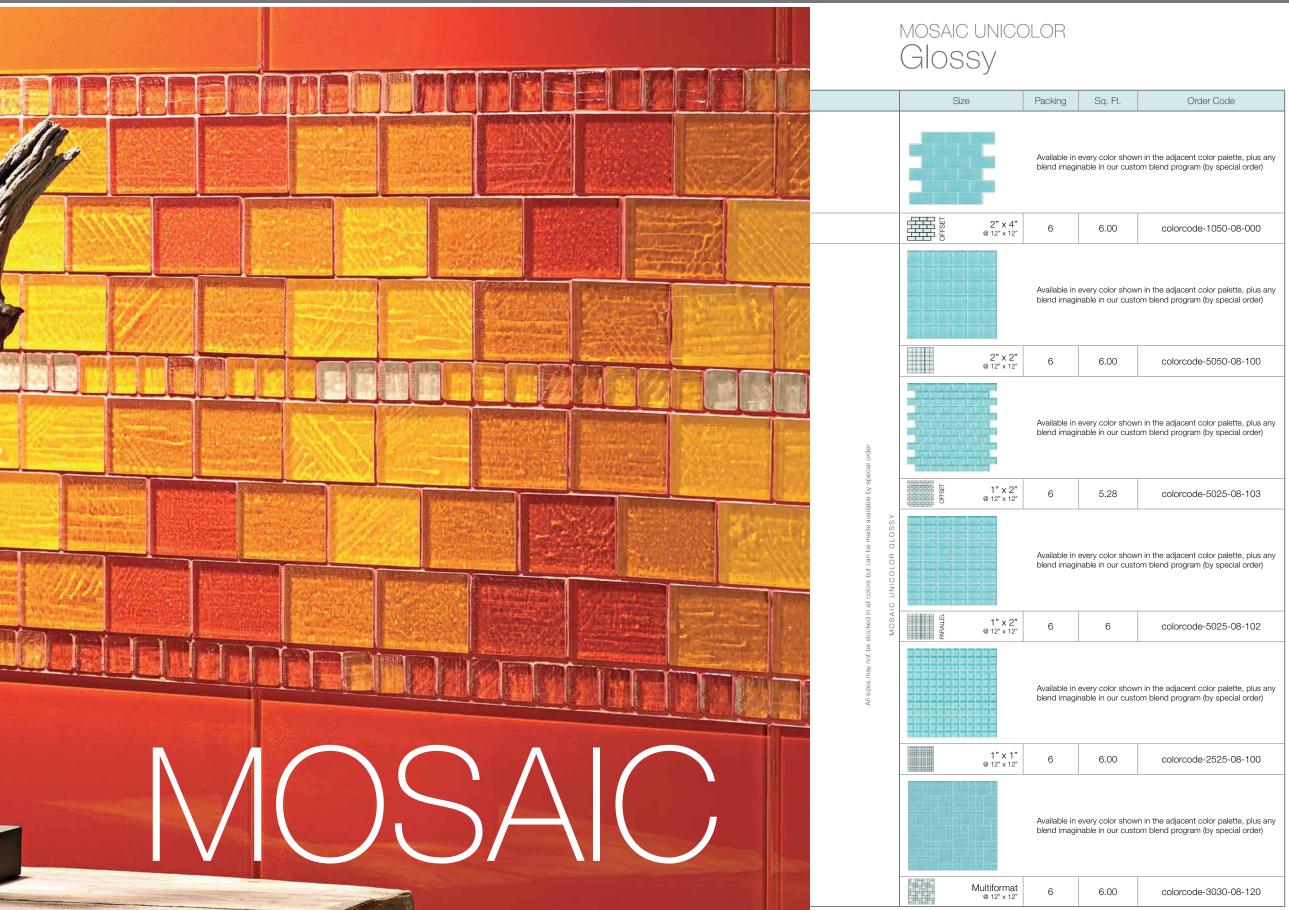




Villi

5/8" x 12" Flat Liner

MOSAIC UNICOLOR



Jilli

| 0001 Bright White | 0002 Pergamon | 0003 Florence Brown |
|-----------------------------|-------------------|---------------------|
| Constant I | | |
| 0004 Hazelhut | 0005 Brown | 0006 Cotto |
| | | |
| 0007 Chocolate | 0008 Mocca | |
| | | |
| 0011 Steel Blue | 0013 Shining Blue | 010 Royal Blue |
| -XSA | | |
| 0014 Surf | 0012 Bue Sky | 0017 Turquoise |
| | | |
| 0015 loo | 0016 Blue Cloud | 0018 Venice Blue |
| R. | | |
| 0019 keland Green | 0046 Lemon Grass | 0020 Emerald |
| | | |
| 0023 Grey Stone | 0022 Highland Gr. | 0021 Green Olive |
| | | |
| 0025 Manhattan | 0024 Clear Grey | 0027 Dark Grey |
| | | |
| 0026 London Blue | 0044 Lavender | 0028 Amethyst |
| | | |
| OD43 Nude | 0047 Sugar Rose | 0029 Burgundy |
| | | |
| 0031 Orange | 0030 Red | 0045 Berry Red |
| | | |
| 0034 Lime | 0032 Mandarin | 0050 Anthracite |
| | | |
| 0035 Champagné | 0033 Com | 0060 Smokey Taupe |
| Other colors available upor | request | 0041 Silver Grev |

0041 Silver Grey

www.villiusa.com

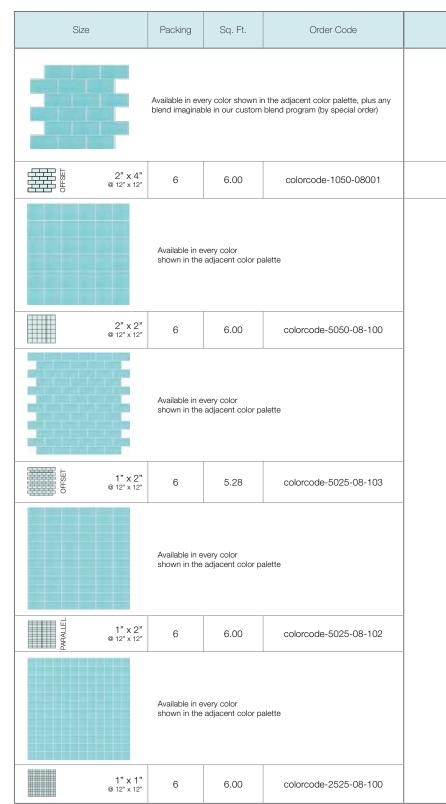
MOSAIC UNICOLOR



The delicate coat on the top side and a subsequent second fusing process give the surface a matte, slightly rough touch. That means the surface has not been sand-blasted and has closed pores. This makes it resistant to fingerprints, and grease stains are easier to clean.



MOSAIC UNICOLOR Matte









Other colors available upon request

Villi

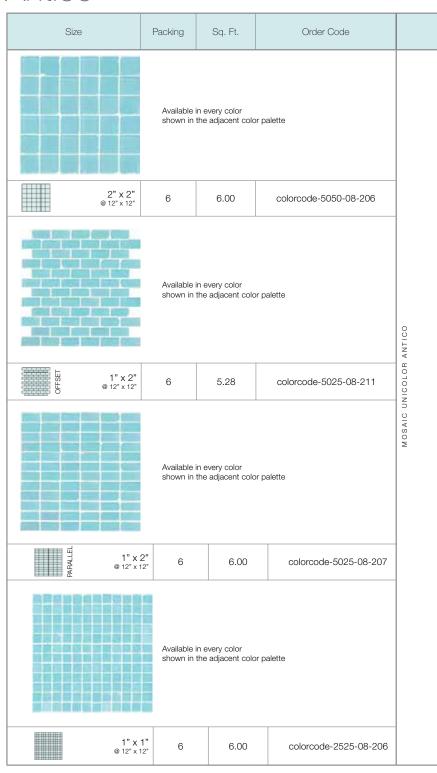


Other colors available by special order only

MOSAIC ANTICO

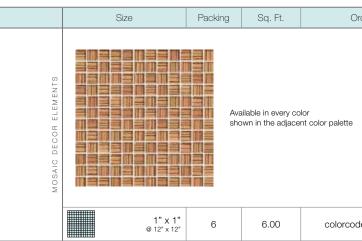


MOSAIC UNICOLOR









| 0210 Elements Virgin Forest |
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| TANKA TANAN MANAGER AND A DESCRIPTION OF TANKA AND ADDRESS OF TANKAN AND ADDRESS OF TANKANAN AND ADDRESS OF TANKAN AND ADDRESS OF TA |

| Order Code |
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| ode-7550-08-114 |
| |

| 0211 Elements Vibrant Lava |
|--------------------------------|
| |
| |
| |
| 0212 Elements Tropical Jungle |
| |
| |
| |
| 0213 Elements Pristine Springs |

TILES DECOR

TILES DECOR Elements





0212 Elements Tropical Jungle





| Size | | | | |
|--------------------------|---------------------|--|--|--|
| | 16" x 16" | | | |
| Packaging | Sq. Ft. | | | |
| 7 | 12.44 | | | |
| Order Code Elements | | | | |
| Elements Virgin Forest | 0210-4040-08-000 | | | |
| Elements Vibrant Lava | 0211-4040-08-000 | | | |
| Elements Tropical Jung | le 0212-4040-08-000 | | | |
| Elements Pristine Spring | gs 0213-4040-08-000 | | | |

| Size | | | | |
|-------------------------|---------------------|--|--|--|
| | 8" x 16" | | | |
| Packaging | Sq. Ft. | | | |
| 7 | 6.22 | | | |
| Order Code Elements | | | | |
| Elements Virgin Forest | 0210-4020-08-000 | | | |
| Elements Vibrant Lava | 0211-4020-08-000 | | | |
| Elements Tropical Jung | le 0212-4020-08-000 | | | |
| Elements Pristine Sprin | gs 0213-4020-08-000 | | | |

| Size | | | | |
|-------------------------|---------------------|--|--|--|
| | 4" x 16" | | | |
| Packaging | Sq. Ft. | | | |
| 14 | 6.22 | | | |
| Order Code Elements | | | | |
| Elements Virgin Forest | 0210-4010-08-000 | | | |
| Elements Vibrant Lava | 0211-4010-08-000 | | | |
| Elements Tropical Jung | le 0212-4010-08-000 | | | |
| Elements Pristine Sprin | gs 0213-4010-08-000 | | | |



| Siz | ze |
|--------------------------------------------------------|------------------|
| | 16" x 16" |
| Packaging | Sq. Ft. |
| 7 | 12.44 |
| Order Code | e Elements |
| Elements Virgin Forest Deco Structured Relief | 0210-4040-08-030 |
| Elements Vibrant Lava Deco Structured Relief | 0211-4040-08-030 |
| Elements Tropical Jungle Deco Structured Relief | 0212-4040-08-030 |
| Elements Pristine Springs Deco Structured Relief | 0213-4040-08-030 |

| | | 18 | | - | |
|-------|----|----|-----|---|--|
| 111 | | | 143 | | |
| 11.1 | | | | 1 | |
| 1 Con | | ŝ | | | |
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| | | | | | |



0210 Elements Virgin Forest Deco Structured Relief



ements Tropical Jungle Deco Structured Relief



0211 Elements Vibrant Lava Deco Structured Relief



0213 Elements Pristine Springs Deco Structured Relief

INNOVATIVE PRODUCTS





River Mosaic GLOSSY

| | Size | | Packaging | Sq. Ft. | Order Code |
|-----------------|---------------------------------|---------------------------------|-----------|-----------------------|-----------------------|
| OSSY | | River Mosaic @ 12" x 12" | 7 | 5.67 | colorcode-3030-08-300 |
| RIVER MOSAIC GL | | Baby River Mosaic @ 12" x 12 | 6 | 6.00 | colorcode-3030-08-301 |
| | Baby River Mosaic @ 6" x 12" | 12 | 6.00 | colorcode-3015-08-301 | |
| | ones | Baby River Mosaic @ 2" x 8" | 12 | 1.32 | colorcode-2005-08-301 |

Available in every color shown in the adjacent color palette



Diamond Series

This unique shaped, geometric diamond mosaic is sized to be installed and enjoyed in either horizontal or vertical formats, and features both all glass and Carrara marble/glass mixes. All glass versions are available in Bright White, Surf and Silver Grey, plus a mix of bright white and our 3 grey colors. Carrara marble/glass mixes feature a random mix of marble and our 3 grey colors, Clear Grey, Dark Grey and Anthracite.

| Size | | | |
|-----------------------|--|--|--|
| Diamonds 4" x 2" | | | |
| Packaging Sq. Ft. | | | |
| 6 6 | | | |
| Order Code | | | |
| colorcode-1050-08-500 | | | |

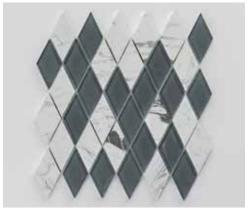


1554 Mix Grey with Bright White all glass

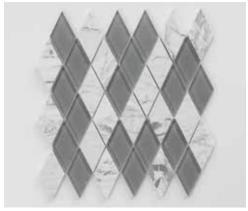


0001 Bright White all glass

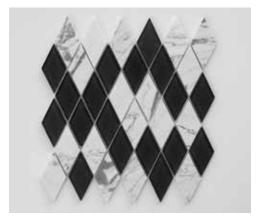
Villi



1556 Carrara with 0027 Dark Grey

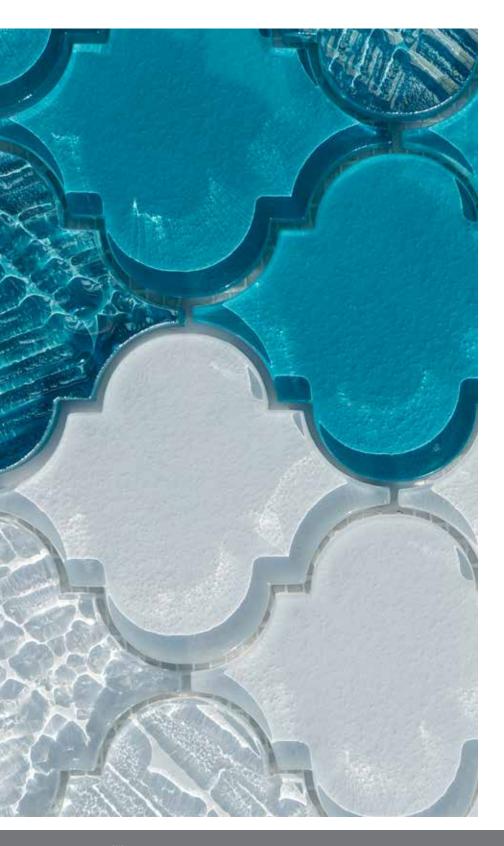


1555 Carrara with 0024 Clear Grey



1557 Carrara with 0050 Anthracite

INNOVATIVE PRODUCTS





Arabesque and Hexagons

Hip and retro at the same time, our Arabesque features a mix of 1/3 structured tile with 2/3 glossy finish, which brings depth and pop to the reflective properties of Villi glass. We also stock Arabesque in all glossy in Silver Grey.

Our large hexagons deliver a beautiful look, especially with the versatility of using glossy, matte or both in areas where these deep colors and statement-making shapes are desired.

Both Arabesque and Hexagons are offered in our six top-selling colors.







ARABESQUE

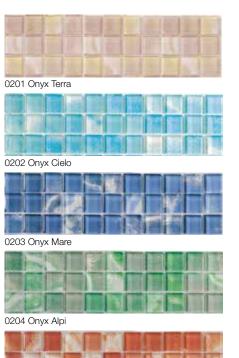
| Size | | | |
|----------------------|--|--|--|
| Arabesque 4" x 5" | | | |
| Packaging Sq. Ft. | | | |
| 6 5.166 | | | |
| Order Code | | | |
| colorcode-3225-08500 | | | |

HEXAGON GLOSSY

HEXAGON MATTE

| Size | | | |
|----------------------|---------|--|--|
| Hexagons 6" x 5" | | | |
| ging | Sq. Ft. | | |
| 3.936 | | | |
| Order Code | | | |
| olorcode-1315-08-700 | | | |

| Size | | | | |
|-----------------------|-------|--|--|--|
| Hexagons 6" x 5" | | | | |
| Packaging Sq. Ft. | | | | |
| 6 | 3.936 | | | |
| Order Code | | | | |
| colorcode-1315-08-701 | | | | |

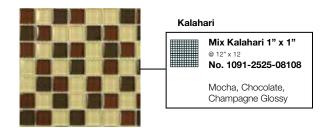


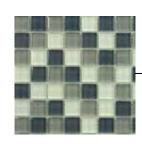
0205 Onyx Vulcano

MOSAIC DECOR Onyx Glossy

| | Size | Packing | Sq. Ft. | Order Code | |
|-----------------------------------------------------------------|--------------------------------|------------------|--------------------|-----------------------|----------------------|
| | | Availal showr | ble in every color | XXX | |
| | 2" x 2" @ 12" x 12" | 6 | 6.00 | colorcode-5050-08-100 | ECOR O |
| Available in every color shown in the adjacent color palette | | | | MOSAIC DI | |
| | 1" x 1" @ 12" x 12" | 6 | 6.00 | colorcode-2525-08-100 | |
| 题 | River Mosaic @ 12" x 12" | 7 | 5.67 | colorcode-3030-08-300 | RIVER MOSAIC ONYX |
| 1200 | Baby River Mosaic @ 2" x 8" | 12 | 1.32 | colorcode-2005-08-301 | RIVER I ON |

MOSAIC MULTICOLOR Mixes Glossy





 Mojave

 Mix Mojave 1" x 1"

 @ 12" x 12

 No. 1090-2525-08108

 Bright White, Dark Grey, Clear Grey Glossy

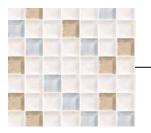
| Salerno |
|------------------------------------------------------------------------------------------------------------------------|
| Mix Salerno 1" x 1" @ 12" x 12 No. 1044-2525-08-108 Mix Salerno 1" x 2" @ 12" x 12 No. 1044-5025-08-111 |
| Surf Glossy, Steel Blue Glossy, Blue Sky Glossy |







Mosaic Multicolor Mixes Glossy/Matte

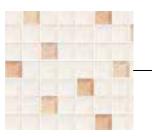






Mix Chopin 1" x 1" @ 12" x 12 No. 1050-2525-08-108 Mix Chopin 1" x 2" @ 12" x 12 No. 1050-5025-08-111

Pergamon Matte, Hazelnut Glossy, Clear Grey Glossy

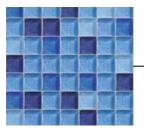


Corsica



Mix Corsica 1" x 1" @ 12" x 12 No. 1053-2525-08-108 Mix Corsica 1" x 2" @ 12" x 12 No. 1053-5025-08-111

Pergamon Matte, Hazelnut Glossy, Brown Glossy, Cotto Glossy



Cannes

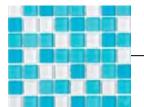


Steel Blue Glossy, Blue Sky Glossy, Shining Blue Glossy

| 1000 | 1000 | 1000 | 17 1400 |
|------|---------------|------|---------|
| | A state | | - |
| | | | |
| | The state | | |
| | There a | | |
| | diana. | 1000 | 1.10.00 |
| | as being a se | | 10.0 |

Mix Chai



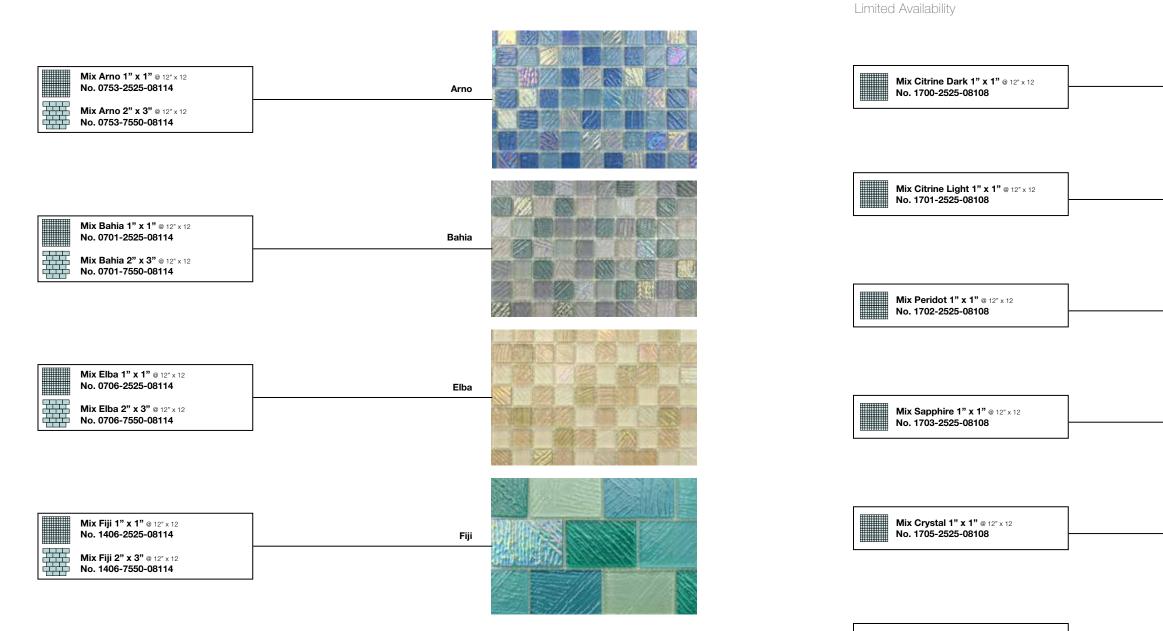


Taurus

Mix Taurus 1" x 1" @ 12" x 12 No. 1018-2525-08-108

Bright White Glossy, Blue Cloud Glossy & Matte, Turquoise Matte

MOSAIC MULTICOLOR Mixes Fossil



Mix Tanzanite 1" x 1" @ 12" x 12 No. 1704-2525-08108

MOSAIC MULTICOLOR

Jewel Blends

| Citrine Dark | |
|---------------|--|
| Citrine Light | |
| Peridot | |
| Sapphire | |
| Crystal | |
| Tanzanite | |

MOSAIC MULTICOLOR Specialty Designs



MOSAIC MULTICOLOR Mixes Glass & Metal Coating

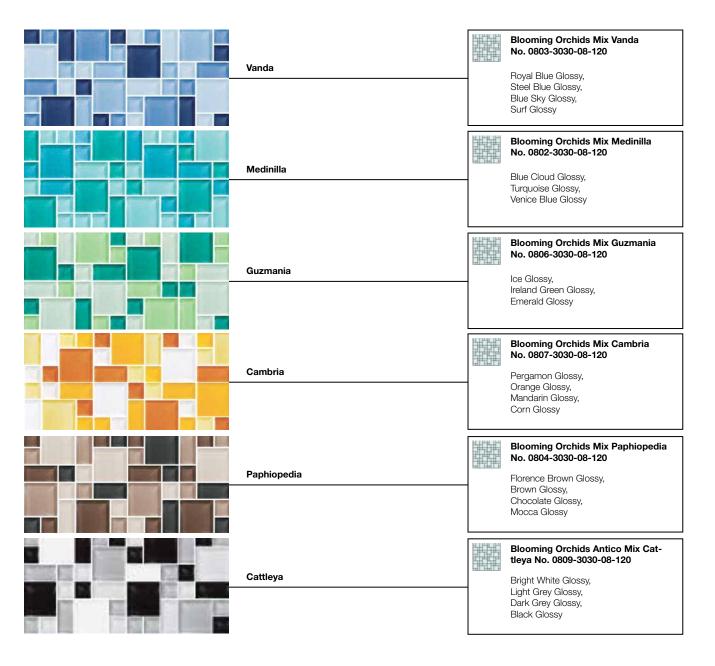
| Mix Savannah 1" x 1" No. 1071-2525-08-006 | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Bright White Glossy, | |
| Bright White Matte, Hazelnut Glossy, | |
| Bronze (Metal Coating) | |
| | |
| Mix Glacier 1" x 1" | |
| No. 1070-2525-08-006 | |
| Bright White Glossy, Clear Grey Glossy, | |
| Light Silver (Metal Coating), | |
| Dark Silver (Metal Coating) | |
| | |
| Mix Savannah Off-Set No. 1071-0803-08058 | |
| Bright White Glossy, Bright White Matte, | |
| Hazelnut Glossy, | |
| Bronze (Metal Coating) | |
| | |
| Mix Glacier Off-Set No. 1070-0803-08058 | |
| Bright White Glossy, Clear Grey Glossy, | |
| Light Silver (Metal Coating), | |
| Dark Silver (Metal Coating) | |
| | |
| | |
| Mix Savannah Parallel No. 1071-0803-08059 | |
| No. 1071-0803-08059 Bright White Glossy, | |
| No. 1071-0803-08059 | |
| No. 1071-0803-08059 Bright White Glossy, Bright White Matte, | |
| No. 1071-0803-08059 Bright White Glossy, Bright White Matte, Hazelnut Glossy, | |
| No. 1071-0803-08059 Bright White Glossy, Bright White Matte, Hazelnut Glossy, | |
| No. 1071-0803-08059 Bright White Glossy, Bright White Matte, Hazelnut Glossy, Bronze (Metal Coating) Mix Glacier Parallel No. 1070-0803-08059 Bright White Glossy, | |
| No. 1071-0803-08059 Bright White Glossy, Bright White Matte, Hazelnut Glossy, Bronze (Metal Coating) Mix Glacier Parallel No. 1070-0803-08059 | |

* These mosaics can be used in wet areas but for vertical wall application only. These mosaics are not to be submerged or to be used in underwater areas. They have excellent abrasion, corrosion and oxidation resistance.

Jilli

| Savannah * | |
|------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Glacier * | |
| Savannah * | |
| Glacier * | |
| Savannah * | |
| Glacier * | |
| | And the second division of the second divisio |

MOSAIC MULTICOLOR Mixes Blooming Orchids Glossy Multi-Format





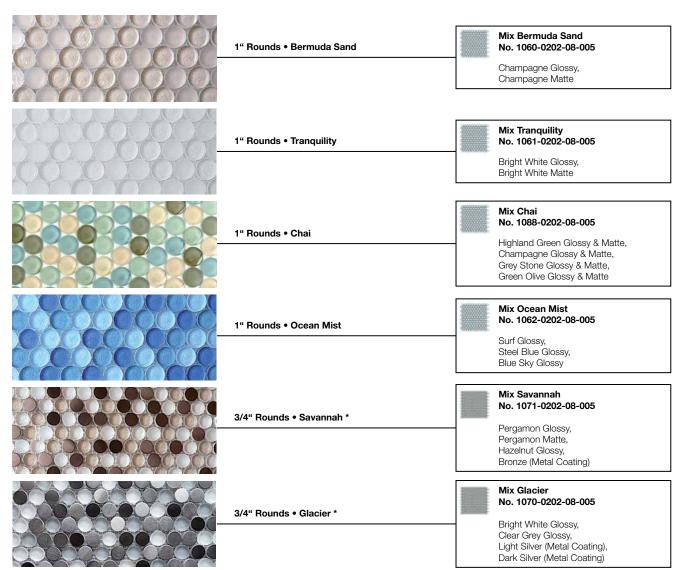
Mixes Blooming Orchids Antico MultiFormat

| No. 0803 | ng Orchids Antico Mix Vanda 3-3030-08-121 Je Antico, | |
|---------------------------------------------|------------------------------------------------------------|----|
| | e Antico, Antico, | |
| | ng Orchids Antico Mix Medinilla 2-3030-08-121 | a |
| Turquoise | ud Antico, e Antico, lue Antico | |
| | ng Orchids Antico Mix Guzman 6-3030-08-121 | a |
| lce Antic Ireland G Emerald | areen Antico, | |
| | ng Orchids Antico Mix Cambria 7-3030-08-121 | 1 |
| Pergamo Orange A Mandarir Corn Ant | n Antico, | |
| | g Orchids Antico Mix Paphioped 4-3030-08-121 | ia |
| Brown A | te Antico, | |
| | ng Orchids Antico Mix Cattleya 9-3030-08-121 | |
| · · · · | hite Antico, ey Antico, | |

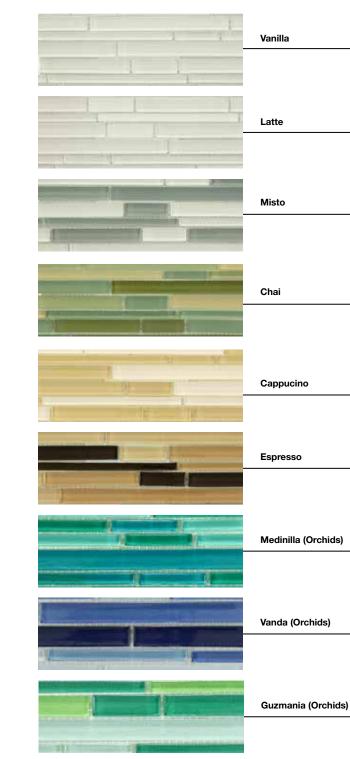
| Vanda Antico Medinilla Antico | |
|----------------------------------|--|
| | |
| | |
| Guzmania Antico | |
| | |
| Cambria Antico | |
| | |
| Paphiopedia Antico | |
| | |
| Cattleya Antico | |
| | |

BUTTONS

Buttons



Random Width and Random Length on 12 x 12 Net Pencils Brick (Linear)



* These mosaics can be used in wet areas but for vertical wall application only.

These mosaics are not to be submerged or to be used in underwater areas. They have excellent abrasion, corrosion and oxidation resistance.





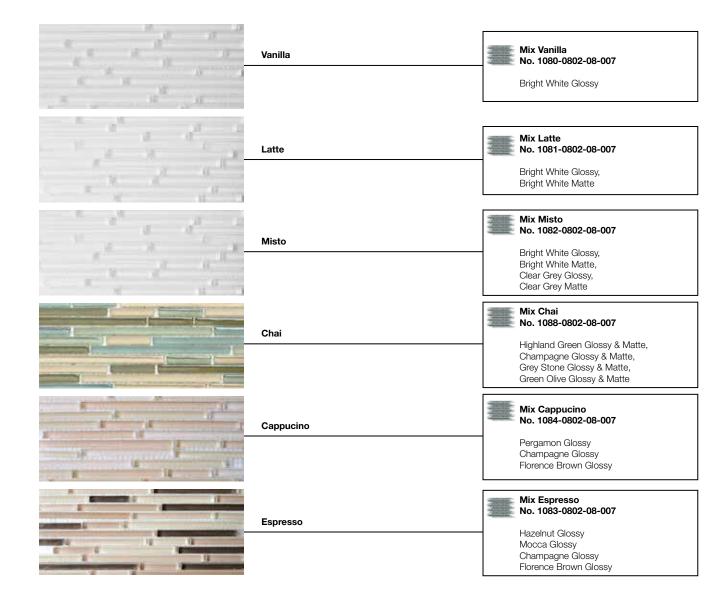
| | |
|----|----------------------------------------------------------------------------------------------------------------------|
| | Mix Vanilla No. 1080-0802-08009 |
| | Bright White Glossy |
| | |
| | Mix Latte No. 1081-0802-08009 |
| | Bright White Glossy, Bright White Matte |
| | |
| | Mix Misto No. 1082-0802-08009 |
| | Bright White Glossy, Bright White Matte, Clear Grey Glossy, Clear Grey Matte |
| | Mix Chai No. 1088-0802-08009 |
| | Highland Green Glossy & Matte, Champagne Glossy & Matte, Grey Stone Glossy & Matte, Green Olive Glossy & Matte |
| | Min Orangeria |
| | Mix Cappucino No. 1084-0802-08009 |
| | Pergamon Glossy, Champagne Glossy, Florence Brown Glossy |
| | |
| | Mix Espresso No. 1083-0802-08009 |
| | Hazelnut Glossy, Mocca Glossy, Champagne Glossy, Florence Brown Glossy |
| | |
|) | Mix Medinilla (Orchids) No. 0802-0802-08700 |
| | Blue Cloud Glossy, Turquoise Glossy, Venice Blue Glossy |
| | |
| | Mix Vanda (Orchids) No. 0803-0802-08700 |
| | Royal Blue Glossy, Steel Blue Glossy, Blue Sky Glossy, Surf Glossy |
| | |
| s) | Mix Guzmania (Orchids) No. 0806-0802-08700 |
| | |

Ice, Ireland Green, Emerald Glossy

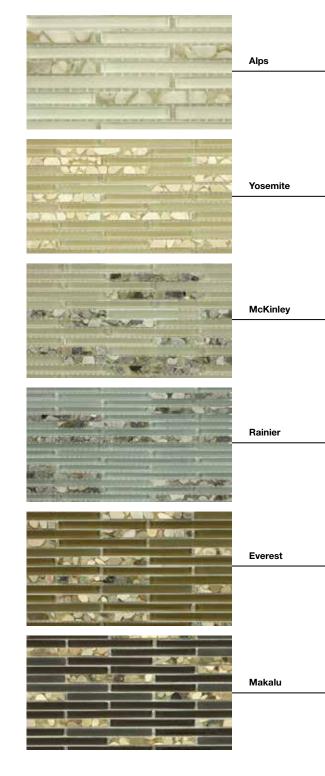




1/4" Random Length on 12 x 12 Net Pencils Glossy & Matte

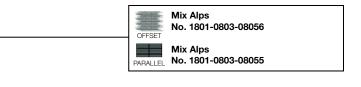


1/4" x 4" on 12 x 12 Net Pencils with Marble



* These mosaics can be used in wet areas but for vertical wall application only. These mosaics are not to be submerged or to be used in underwater areas. They have excellent abrasion, corrosion and oxidation resistance.









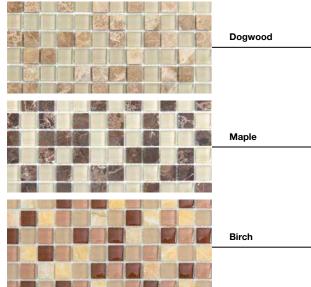
| OFFSET | Mix Rainier No. 1805-0803-08056 |
|----------|------------------------------------|
| PARALLEL | Mix Rainier No. 1805-0803-08055 |





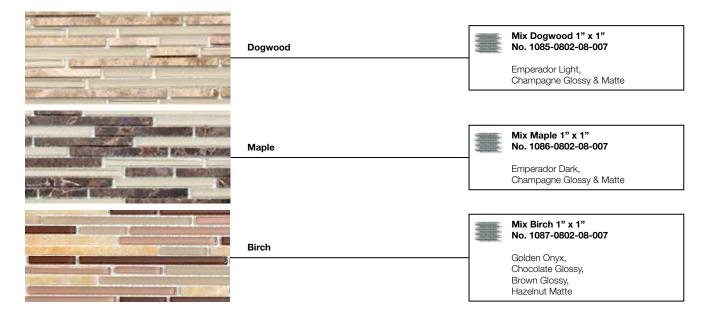
STONE MIXES

MOSAIC MULTICOLOR Mixes Glass & Stone





1/4" Random Length on 12 x 12 Net Pencils Glass & Stone

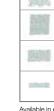




Light and shadow, water and air, fire and earth - the series Onyx is modeled after the varied and colorful interplay of the elements and, in a timeless manner, pays homage to the beauty of nature - right in your home.













0205 Onyx Vulcano

0202 Onvx Ciel

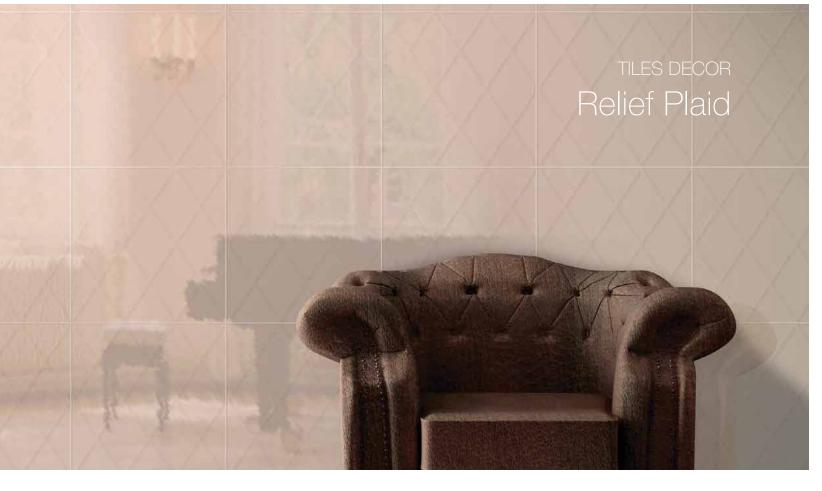
Villi

River Mosaic ONYX

| Size | Packaging | Sq. Ft. | Order Code | |
|----------------------------------|-----------|---------|-----------------------|--------|
| River Mosaic @ 12" x 12" | 7 | 5.67 | colorcode-3030-08-300 | |
| Baby River Mosaic @ 12" x 12" | 6 | 6.00 | colorcode-3030-08-302 | LOSSY |
| Baby River Mosaic @ 6" x 12" | 12 | 6.00 | colorcode-3015-08-301 | ONYX G |
| Baby River Mosaic @ 2" x 12" | 12 | 1.33 | colorcode-2005-08-301 | 0 |
| | | | | |

Available in every color shown in the adjacent color palette

TILES DECOR



| Size | | |
|------------------------------------------|------------------------|--|
| | 16" x 16" | |
| Packaging | Sq. Ft. | |
| 7 | 12.45 | |
| Order Code Relief Lir | nes (Deco Str. Relief) | |
| Bright White Deco Structured Relief | 0001-4040-23-014 | |
| Florence Brown Deco Structured Relief | 0003-4040-23-014 | |
| Chocolate Deco Structured Relief | 0007-4040-23-014 | |
| Black Deco Structured Relief | 0009-4040-23-014 | |
| Lemon Grass Deco Structured Relief | 0046-4040-23-014 | |







0003 Florence Brown 0007 Chocolate

< 0001 Bright White



< 0046 Lemon Grass

TILES DECOR Relief Lines & Waves



| 0001 Bright White |
|--------------------|
| < 0046 Lemon Grass |





< 0007 Chocolate









0009 Black

| Size | | |
|--------------------------------------------|------------------------|--|
| | 16" x 16" | |
| Packaging | Sq. Ft. | |
| 7 | 12.45 | |
| Order Code Relief Lines (Deco Str. Relief) | | |
| Bright White | 0001-4040-23-015 | |
| Florence Brown | 0003-4040-23-015 | |
| Chocolate | 0007-4040-23-015 | |
| Black | Black 0009-4040-23-015 | |
| Lemon Grass | 0046-4040-23-015 | |
| Order Code Relief Waves (Deco Str. Relief) | | |
| Bright White | 0001-4040-23-016 | |
| Florence Brown | 0003-4040-23-016 | |
| Chocolate | 0007-4040-23-016 | |
| Black | 0009-4040-23-016 | |
| Lemon Grass | 0046-4040-23-016 | |

TILES DECOR



TILES DECOR Baroque Daphne

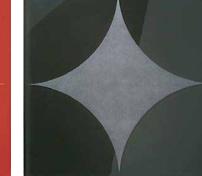
| Size | | |
|---------------------|--|--|
| 16" x 16" | | |
| Sq. Ft. | | |
| 12.45 | | |
| Order Code Elements | | |
| 0001-4040-20-004 | | |
| 0009-4040-20-004 | | |
| 0030-4040-20-004 | | |
| | | |

TILES DECOR



0030 Red Deco Matte





0009 Black Deco Matte









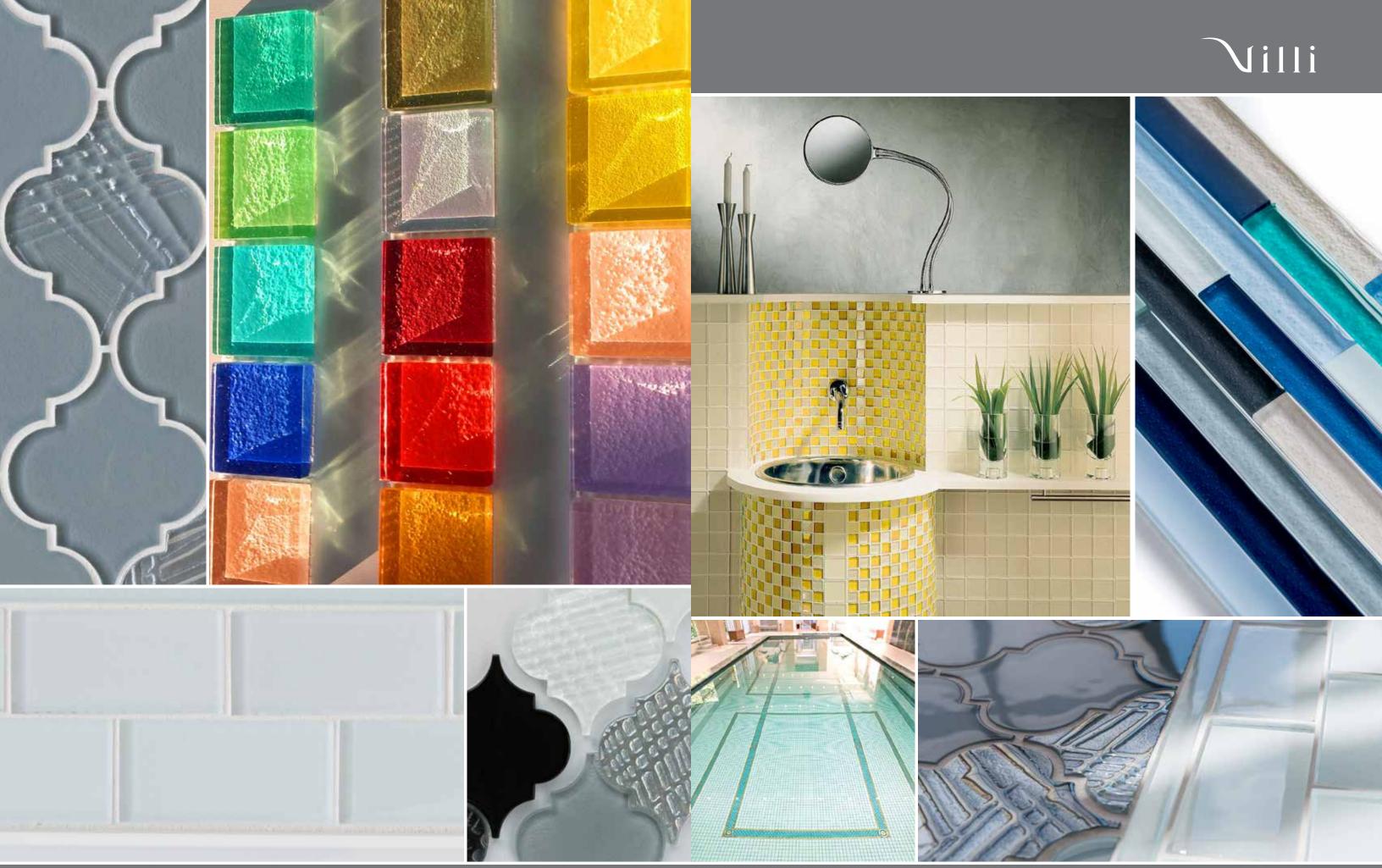
0001 Bright White Deco Matte

0035 Champagne Deco Matte

0009 Black Deco Matte



| Size | | |
|---------------------------------|------------------|--|
| | 16" x 16" | |
| Packaging | Sq. Ft. | |
| 7 | 12.45 | |
| Order Code Elements | | |
| 0001 Bright White Deco Matte | 0001-4040-20-007 | |
| 0035 Champagne Deco Matte | 0035-4040-20-007 | |
| 0009 Black Deco Matte | 0009-4040-20-007 | |



INSTALLATION GUIDELINES

PLEASE READ THESE INSTALLATION **INSTRUCTIONS CAREFULLY BEFORE BEGINNING INSTALLATION!**

VILLI makes high-quality, architectural building materials. Installation of large format glass tiles requires skillful techniques and training, and it is essential to adhere strictly to the relevant instructions for installation. For this reason installation should only be carried out by properly trained professionals. The owner or end user of the tiles is responsible for determining the acceptability of the product for the particular installation being considered. If the customer has any doubt as to whether the tile is suited to the application being considered it is strongly suggested a call be made to Villi USA to discuss the concern.

COLOR / SHADE

Glass always has its own natural coloring, which increases as the thickness/ density increases. The color of the final consignment may deviate slightly from the color of the original sample. This is referred to as a shade variation and does not constitute any reason to return the goods. This color variation is reduced with Opti-Glass, but is not completely eradicated. We strongly recommend that all tiles should be dry-laid and examined for variation and shading prior to installation. VILLI USA assumes NO responsibility for problems related to product installation and No adjustments will be made after installation.

Important factors for a successful Villi installation:

PREPARATIONS

The contractor is to examine substrates and advise the General Contractor and Architect of existing conditions and surface contamination requiring correction before work commences. Before starting, substrates are to comply with deflection requirements as defined by International Building Code (IBC), International Residential Code (IRC), or applicable local building code. Substrates are to be cleaned to remove curing compounds, sealers, soil, mortar, dirt, dust, etc. Curing compounds and sealers are to be mechanically removed (e.g. metal bead-blasting, grit / sand blasting, diamond wheel grinding with vacuum attachment). After removal of the curing compounds and sealers, all rough and uneven substrates are to be brought into required tolerances. For tiles with edges shorter than 15 inches (375mm), maximum allowable variation is 1/4 inch in 10 feet (6 millimeters in 3 meters) from the required plane, with no more than 1/16 inch variation in 12 inches (1.5 millimeters variation in 300 millimeters) when measured from the high points in the surface. For tiles with at least one edge 15 inches (375 millimeters) in length, maximum allowable variation is 1/8 inch in 10' (3 millimeters in 3 meters) from the required plane, with no more than 1/16 inch variation in 24 inches (1.5 millimeters variation in 600 millimeters) when measured from the high points in the surface. For modular substrate units, such as exterior glue plywood panels or adjacent concrete masonry units, adjacent edges cannot exceed 1/32 inch (0.8 millimeters) difference in height. Use LATICRETE 3701 Fortified Mortar. Dry, dusty concrete or masonry surfaces must be water washed and excess water removed just prior to the application of LATICRETE installation materials.

EXPANSION AND CONTROL JOINTS

Existing joints in substrate must be carried through the tile work and conform to architectural details. Expansion joints to be installed where tile work abuts restraining surfaces, such as perimeter walls, curbs, columns, corners, etc. Expansion joints to be installed at all "changes of plane" in tile work. Refer to Tile Council of North America (TCNA) Detail EJ-171 (Current Year) for industry recommendations.

INSTALLATION OF CRACK SUPPRESSION MEMBRANE

Install HYDRO BAN® over all hairline cracks (≤ 1/8" or 3mm) in surfaces, prior to installing tiles, in accordance with the LATICRETE® written installation instructions. Refer to LATICRETE DS 663.0 and DS 663.5 for complete information.

MIXING

Mix according to LATICRETE printed product instructions included with each product package.

THINSET INSTALLATION OF TILES

Ensure that the backs of the glass tiles have been thoroughly washed, rinsed, and completely dried prior to installation. Use LATICRETE Glass Tile Adhesive Mortar to install tiles, via thin-set method. Installation is to comply with current revisions of ANSI A108.02 (3.11), A108.1B and ANSI A108.5. Use an appropriate sized notched trowel to facilitate full coverage of the thinset mortar to the backs of the tiles. Use the flat side of the trowel to firmly apply LATICRETE Glass Tile Adhesive Mortar onto the substrate. Next, apply LATICRETE Glass Tile Adhesive Mortar in a horizontal direction using notched side of the trowel. Use the flat side of the trowel to knock down the ridges and create a smooth setting bed. Check for voids and fill in where necessary. Next, back butter each clean, dry tile using LATICRETE Glass Tile Adhesive Mortar. Verify that 100% coverage has been achieved by removing a tile while the thin-set mortar is still fresh. The face of the glass tile can also be checked before setting to verify the appearance of full coverage. Tiles must be dry prior to installation to avoid the appearance of water spots on backs of tile. Apply glass tile into the wet thin-set mortar using firm, even pressure to establish contact and eliminate any voids. Remove excess thin-set mortar from in between tile edges. If voids or water spots in the thin-set mortar are visible through the tiles, remove the tile and correct the installation at this point. Allow the tile installation to cure a minimum of 48 hours at 70°F (21°C) prior to grouting. Clean excess thin-set mortar from the face of the glass tiles and joints between pieces while fresh, before it hardens.

EPOXY GROUTING

Store liquid components of SPECTRALOCK® PRO Premium Grout+ for 24 hours @ 70-80°F (21-27°C), prior to use, to facilitate mixing and application. Substrate temperature must be 40-95°F (4-35°C). Verify joints are free of dirt, debris, thin-set mortar or grout spacers. Sponge or wipe dust/dirt off glass and remove all water standing in joints. Cut open pouch and pour SPECTRALOCK PBO Premium Grout Part A Liquid into a clean mixing pail. Then open pouch and pour SPECTRALOCK PRO Premium Grout Part B Liquid into the mixing pail. Mix by hand or with a slow speed (<300 rpm) mixer until the two liquids are well blended. Then, while mixing, add SPECTRALOCK Grout Part C Powder and blend until uniform. For narrow joints, it is acceptable to leave out up to 10% of the SPECTRALOCK Grout Part C Powder to produce a more fluid mix. Install SPECTRALOCK PRO Premium Grout in compliance with current revisions of ANSI A108.02 (3.13) and ANSI A108.6 (3.0 - 4.0). Spread using a sharp edged, firm rubber float and work grout into joints. Using strokes diagonal (at 45° angle) to the grout lines, pack joints full and free of voids/pits. Then hold float face at a 90° angle to grouted surface and use float edge to "squeegee" off excess grout. stroking diagonally to avoid pulling grout out of filled joints. Once excess grout is removed, a thin film/haze will be left. Initial cleaning of the remaining film/haze can begin approximately 20 minutes after grouting (wait longer when temperatures are cooler). Begin by mixing one cleaning additive packet with 2 gallons (7.6 L) of clean water in a clean bucket to make cleaning solution. Dip a clean sponge into the bucket and then wring out cleaning solution until sponge is damp. Using a circular motion, lightly scrub grouted surfaces with the damp sponge to loosen grout film/haze. Then drag sponge diagonally over the panel surfaces to remove froth. Rinse sponge frequently and change cleaning solution at least every 50 ft2 (4.7m2). Discard sponges as they become "gummy" with residue. Check work as you clean and repair any low spots with additional grout. One (1) hour after finishing first cleaning, clean the same area again following the same procedure but utilizing a clean white scrub pad and fresh cleaning solution. Rinse scrub pad frequently. Drag a clean sponge diagonally over the panel surfaces to remove froth. Use each side of sponge only once before rinsing and change cleaning solution at least every 50 ft2 (4.7m2). Allow cleaned areas to dry and inspect panel surfaces. For persistent grout film/haze (within 24 hours), repeat scrubbing procedure with undiluted white vinegar and clean pad. Rinse with clean water and allow surface to dry. Inspect grout joint for pinholes/voids and repair them with freshly mixed LATICRETE® SPECTRALOCK® PRO Premium Grout⁺. Caution: Do not use acid cleaners on epoxy grout less than 7 days old.

PORTLAND CEMENT GROUTING

Verify grout joints are free of dirt, debris, thin-set mortar and grout spacers. Sponge or wipe dust/dirt off all surfaces. Remove all water standing in joints. Surface temperature must be between 40-90° F (4-32°C). Mixing: Pour approximately 64 oz. (1.9 L) of clean, potable water into a clean mixing container. Add a 25 lb. (11.3 kg) bag of LATICRETE PERMACOLOR™ Grout to the container while

mixing. Mix with a slow speed mixer to a smooth, stiff consistency. Allow to slake for 5 minutes and remix. Install grout per current revisions of ANSI A108.1A (7.0 A water jet machine is an excellent option for cutting Villi products, especially Grouting of tile), ANSI A108.02 (4.5 Cleaning tile) and ANSI A108.10. Dampen for more difficult cuts. There is a difference in cutting glass versus stone. The dry surfaces with clean water. Spread using a sharp edged, hard rubber float water jet machines are set to 50-60,000 psi. For glass, it must be reduced to and work grout into joints. Using diagonal (at 45° angle to direction of grout 18-20,000 psi. Also, there should either be a change to the metering disc to line) strokes, pack joints full and free of voids/pits. Hold float face at a 90° angle restrict the amount of sand that is used or a vacuum assist pump should be to panel surface and use float edge to "squeegee" off excess grout, stroking used. The water jet company can contact Villi for any further questions. diagonally to reduce pulling grout out of filled joints. Initial cleaning can begin TO CUT OUT A SECTION OF THE TILE when grout has become firm, typically 15-20 minutes after grouting @ 70° F (21°C). Higher temperatures may require faster time to initial cleaning; wider **E.G. FOR POWER OUTLETS** joints or lower temperatures may require a longer time to initial cleaning. Begin First, mark out the piece which needs to be cut out. Where the mark-out lines initial cleaning by lightly dampening the entire grouted area with a damp sponge. intersect, drill a hole with a diameter of at least 5mm. Using a wet drill bit designed Then, wash clean the entire area with a damp (not wet) sponge. Drag a clean, for drilling glass tile, drill half way through the tile from the front, turn it over and dampened sponge diagonally over the panel surfaces to remove grout haze then drill half way through from the back, meeting in the middle. This is necessary left after "squeegeeing." Rinse towel/sponge frequently. Change rinse water to avoid chipping and stress fractures once the tile is set. The cutting should at least every 200 ft2 (19m2). Repeat this cleaning sequence again if grout then be done using a water-cooled glass saw. The saw should be positioned haze is still present. Allow grout joints to become firm. Buff surface of grout at right angles to the tile. with clean coarse cloth. Inspect joint for pinholes/voids and repair them with **DRILLING HOLES** freshly mixed grout. Within 24 hours, check for remaining haze and remove it Holes with a smaller diameter can be drilled using a diamond drill suitable for with warm soapy water and a nylon scrubbing pad, using a circular motion, to drilling glass, while constantly using cooling water. When drilling holes starting lightly scrub surfaces and dissolve haze/film. Do not use acid cleaners on latex from a 10 mm diameter, care must be taken to drill on both sides. First drill on the Portland cement grout less than 10 days old. colored side halfway through the tile, then drill on the glass side. This is necessary PROTECTION to avoid chipping the color and potential breaking due to stress. It is advisable The contractor must take precautions to protect the finished work from damage to use a rabbet or similar aid. While drilling, it is essential to use cooling water.

by other trades. Allow the cement grout to cure for a minimum of 7 days at 70° F (21° C) before aggressive cleaning.

COLD WEATHER NOTE

The curing of installation materials is retarded by low temperatures and finished work should be protected for an extended period of time. Typically, for every 18° F below 70° F (10°C below 21°C), installation materials take twice as long to cure.

GROUT JOINT WIDTH

VILLI glass tiles should be set with a minimum of 1/8 inch grout joint. We also recommend non-sanded grout to prevent any scratching on the tile surface. If applications call for sanded grout, we recommend the use of a soft rubber float to minimize the possibility of scratching the tile. After installation, it is recommended that the tile be cleaned with a commonly accepted grout cleaner, e.g. Aqua Mix (1-800-366-6877) or TEC (1-800-832-9023).

CUTTING VILLI TILES

There are various ways to cut Villi tiles. These include:

SCORING AND BREAKING

Scoring can be done using a glass cutter (tile cutter, e.g. hand cutter 6 or 8 mm carbide wheel housed in a ball bearing casing. The breaking is then done evenly, applying a constant pressure, using glazier's pliers. The cut edges should then be sanded with sanding pads, to minimize risk of injury. The lighter you score (apply the least amount of pressure to score the tile) the better it snaps - the glass tile does not break because of the force, it breaks because of the heat generated from the carbide wheel.

USING A WET SAW

Using a wet saw may result in chipping on both the top and bottom of the tile causing an irregular edge and some color loss. Using a wet saw is only recommended when the cut area will be covered by more than 1/4" of switch plate or molding. Wet saws generally are not recommended for cutting VILLI tiles. Most wet saws cannot cut the tile without excessive vibrations, which cause chipping. If you do use a wet saw, use a Glass Blade 10" wet saw blade which is made specifically for glass. In addition, the tile has to be cut extremely slowly: Example: One piece of 4x4 glass tile should take approx. 1-1/2 to 2 minutes to cut. Use masking tape or blue painters tape all the way around the tile when the cut is being made and cutting the tile upside down will prevent the backing from chipping as much and will put the worst edge on the front of the tile. This edge should then be sanded and re-polished if needed.

USING A WATER-JET MACHINE

INSTALLATION OF BATHROOM FIXTURES & FITTINGS

When installing bathroom fixtures/fittings (e.g. toilets, sinks, mirrors, etc.) by means of screws, place suitable plastic washers between the screws/bearing surface and the glass tile. When you tighten the screws, the plastic washers ensure an even distribution of pressure and prevent the tiles from breaking under the stress.

PLACING HARDWARE AND ACCESSORIES

- All hardware anchors or blocking for heavy objects must be set directly into the structure. Do not put any weight loads on the immediate substrate (cementitious board, greenboard, hardibacker, etc.) and never on to the glass tile itself.
- Shower doors and glass panel hardware should be set before setting glass tile. Do not set heavy items directly onto the glass. Blocking is required where doors attach to the wall. This reduces stress to the wall.
- The glass must be physically separated from towel bars, light fixtures, hooks, or any other hardware. Use cork material or 1/16" rubber sheeting to separate hardware from the glass tile. Cut to size and shape as needed.

CLEANING INSTRUCTIONS FOR GLASS TILES

GENERAL INFORMATION

Market research, studies and, above all, practical experience confirm that glass scores excellently well in comparison with other covering materials. The decisive criteria include, above all, long-lasting beauty and easy cleaning, together with high functionality, in both private homes and public areas. When using cleaning agents, please observe the instructions for use and the danger warnings given by the manufacturers. We cannot accept any liability for damage caused through failure to follow these instructions and warnings. Never use cleaning agents which contain hydrofluoric acid or any of its compounds (fluoride). Even when heavily diluted, these will corrode the glass tiles.

Important: When cleaning, always also take the surrounding materials into account!

BASIC GUIDELINES

There is an old saying which has not lost its wisdom: "dirt which is never carried inside need never be cleaned away!" Shoe-scraper grids, doormats and walk-off areas in front of the entrance area stop a great deal of dirt from getting in. Optimal cleaning results can be achieved using clean water and a microfiber cloth: simply dampen the cloth and polish the glass tiles/mosaics - and finished! In the event of heavy soiling, glass should always be rinsed with clean water beforehand, to remove dust and silica sand. If cleaning agents must be used, then these should

INSTALLATION GUIDELINES

CAUTION: Please do not use any blades or lambskin – both of these cleaning add a surface layer. aids can damage the glass! All cleaning devices must always be free of "grainy elements.

CLEANING

maintenance cleaning (daily cleaning).

Final building cleaning or first cleaning

This refers to the cleaning at the end of building work, immediately after complet- Skid Resistant (floor tile) ing the surface. After the heaviest dirt has been rinsed off, the thorough cleaning Clean using clean water and microfiber cloth, alcohol-based / tenside-free cleanis carried out using a suitable cleaning agent.

Grout joints

Grout joints must always be protected by wetting them with water beforehand. CAUTION: Do NOT USE aggressive LIME-SCALE REMOVERS! Once they are saturated with water the joint sealer cannot absorb any further liquids (cleaning agents), and therefore cannot suffer corrosion. Acidic cleaning agents corrode the (cement-based) joint sealer. After use, rinse thoroughly and tenside-free cleaning agent. neutralize if necessary.

- Cement-based joint sealer: clean with cement residue remover
- "Epoxy" joint sealer (clinics): clean with silicone remover

Tiles / Mosaics

Usually cleaned using basic sanitary cleaning agents (phosphoric acid - pH cleaning) to remove any joint sealer residue from the fine surface lines. 0.5 - in a concentrated form: 5 - 10%), to achieve the highest possible degree of cleanliness.

Facades

Each facade must undergo a final cleaning after being laid or mechanically mount- CONSULT RECOMMENDED ADHESIVE AND GROUTED PRODUCTS ed. Mechanically-held facades preferably require a neutral cleaning to remove oily and greasy dirt produced during assembly, while conventionally cemented facades require acid-based cleaning to remove the cement residue.

Basic cleaning (precision building cleaning)

This is usually carried out using basic sanitary cleaning agents (phosphoric acid - pH 0.5 - in a concentrated form: 5 - 10%), to achieve the highest possible degree of cleanliness.

Maintenance cleaning, cleaning for daily use

The "everyday cleaning" is trouble-free and will be necessary at varying intervals, according to the amount of dirt and use: weekly, daily, or several times a day in the event of especially intensive use. Generally, water and a microfiber cloth suffice for installed, VILLI glass tiles are guaranteed to conform (within accepted industry maintenance cleaning. We recommend cleaning with citric acid cleaning agents standards and tolerances) to the manufacturer's declared specifications. Villi USA (pH 2 – 2.5) in sanitary facilities. Cleaning agents containing special care agents are not necessary and may even cause problems if continually used: sticky layers installed. Except for the warranties set forth above, Villi makes no other warrantees are not necessary and may even cause problems if continually used: sticky layers of grease, wax and plastic can build up, which not only look unsightly, but are ties, expressed or implied, including but not limited to any implied warranties of also bad for hygiene, safety (danger of slipping) and cleaning.

Sanitary areas

If cleaning agents are used, these should contain a small amount of alcohol, be free of tensides or be slightly acidic.

Living areas

Normal dirt can be most easily removed using slightly alkaline (up to pH 10) or neutral cleaning agents.

Cleaning in clinics

Surface disinfectants can be recommended with no problem: alcohol-based, spray-on and pour-on disinfectants, hand disinfectants, wound disinfectants.

CLEANING DIFFERENT VILLI SURFACES

Glossy and Matte

Clean using clean water and microfiber cloth, alcohol-based / tenside-free cleaning agent - acidic maintenance cleaning agent (sanitary areas). The "Matte" surface is virtually non-porous (i.e. grease- and oil-resistant) and should be cleaned in the same way as glass or a mirror surface. CAUTION: DO NOT USE aggressive LIME-SCALE REMOVERS!

For further information contact: sales@villiusa.com, or call toll free: 1-866-724-5836

contain a small amount of alcohol or acid, and be used with a microfiber cloth. PLEASE NOTE: Do not use any cleaning agents which have a sealing effect or

Fossil, Structured Relief

The same method as in the final building cleaning is recommended, but in addition it is essential to thoroughly clean the surface "grooves". Immediately rinse with A distinction is made between the final building cleaning, basic cleaning and a lot of water and clean the surface using cement residue remover. Clean using clean water and microfiber cloth, alcohol-based / tenside-free cleaning agent acidic maintenance cleaning agent (sanitary areas)

ing agent - acidic maintenance cleaning agent (sanitary areas)

Deco Matte

PLEASE NOTE: Do not use any cleaning agents which have a sealing effect or add a surface layer. Clean with clean water and microfiber cloth, alcohol-based/

River Mosaic (mosaic pieces)

The toughened safety glass used for the manufacture of mosaic pieces is basically more "delicate" than float glass. The important thing is that, immediately after laving, the River Mosaic should be cleaned (see recommended final building Afterwards, thoroughly rinse with water. Clean with clean water and microfiber cloth, alcohol-based / tenside-free cleaning agent - acidic maintenance cleaning agent (sanitary areas).

ON FOLLOWING PAGE.

LIMITED WARRANTY

VILLI glass products are produced using a worldwide patented procedure. The organic color pigments are melted into the glass therefore no corrosion can occur and change the color. VILLI products are produced from homogeneous glass slates; they don't absorb water and are therefore frost resistant. VILLI products can be installed in and outdoors. VILLI products are manufactured in accordance with industry standards, and they are warranted to be reasonably free of defects in materials and workmanship. When properly handled and correctly cannot accept responsibility for the performance of these products after they are merchantability or fitness for a particular purpose.

Additional information is available at www.villiusa.com

Physical Properties

| Weight |
|-----------------------------------------------------------------------|
| Water |
| Frost-proof |
| Color-fast, no corrosion |
| Light-fast |
| Surface resistant to acid and lye |
| Pigments are fused in and are therefore color-fast and do not corrode |
| Scratch hardness on the Mohs scale |
| Break strength of tiles |
| Required for ceramic |
| Thermal expansion on temperature change of 100°C |
| Electrical conductivity |

Tile Council Of North America - Product Test Results

| Tests Run | Required Minimums | | Test Results—Villi Glass Products | | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------|-------------------------------------|-----------------------------------------------|--|-----|----------------|
| ANSI A137.2-2012 Section 7.9: "Thermal Shock Resistance of Glass Tile" (a.k.a. immersion test) | Visible defects? No | | Observations? None | | | |
| | Mosaic and porcelain tiles = 250 lbf Glazed wall tiles = 150 lbf | | - | | | |
| ASTM C648-04 (2009): "Standard Method for | | | | | | |
| Breaking Strength of Ceramic Tile" Fused or Low temperature Glass tiles = 250 lbf | | | Average of 640 lbf | | | |
| | Cast Mosaic Glass tiles = 350 lbf | | | | | |
| ANSI A137.1-2012 Section 9.6.1: "Wet Dynamic | 0.42 or higher 3 tiles tested Tile 1 = 0.82 Tile 2 = 0.84 Tile 3 = 0.7 | | 0.40 ex bigher | | 0.4 | 3 tiles tested |
| Coefficient of Friction (DCOF)"-Matte Finish | | | Tile 1 = 0.82 Tile 2 = 0.84 Tile 3 = 0.72 | | | |
| ISO 10545-4: "Determination of Modulus of Rupture Fused Large For and Breaking Strength" Glass Tile | Fused Large Format | Min av breaking strength = 600 N | 2767 N | | | |
| | Glass Tile | Min av MOR = 12 N/mm ² | MOR = 68 N/mm ² | | | |
| Mohs' Scratch Hardness | No minimum | | 6 (same as Feldspar) | | | |
| ANSI A137.2-2012 Section 7.7: "Shear Bond Large Format Strength of Glass Tile" Glass Tile | Large Format | 28 Day dry: Min 150 PSI | Average = 392 PSI | | | |
| | 21 Day dry + 7 Day Submerged: Min 100 PSI | Average = 220 PSI | | | | |
| ASTM C372: Standard Test Method for Linear Thermal Expansion of Porcelain Enamel and Glaze Frits and Fired Ceramic Whiteware Products by the Dilatometer Method. | There is no standard for glass tiles | | Test results are available on request | | | |

Recommended adhesive and grouting products

VILLI recommends the use of the following LATICRETE products:

Latex Portland Cement Thick Bed Mortar: LATICRETE® 3701 Fortified Mortar Crack Suppression Membrane: HYDRO BAN®

Latex Portland Cement Thinset Mortar: Glass Tile Adhesive Mortar Stain-Resistant Epoxy Grout: SPECTRALOCK® PRO Premium Grout Polymer-Fortified Cement Grout: PERMACOLOR® Grout

| For questions relating to setting materials, | please contact LATICI |
|----------------------------------------------|-----------------------|
| Telephone: 1 (203) 393-0010 | Fax: 1 (203) 393-1 |
| E-mail: technicalservices@laticrete.com | Website: www.lat |

Care should be taken when using light colored Villi products or light colored grout. Use a white colored adhesive to prevent shadowing through the tile and visible thinset bubbles in the grout lines. Back-buttering each piece of tile with the flat edge of the trowel will help to provide a void free installation; good contact with the mortar bed is also recommended - 100% coverage is needed! Larger tiles may require a larger notched trowel. Refer to current TCNA Handbook for Ceramic Tile Installations



| 8 mm Thickness • 4.1 lbs/sq.ft |
|--------------------------------|
| absorption 0% |
| ✓ |
| ✓ |
| ✓ |
| e.g. chlorine |
| ✓ |
| 6 |
| 795 lbs/sqi |
| 280 lbs/sqi |
| 1 mm/m |
| 0 |

Latex Portland Cement Unsanded Grout: LATICRETE 1600 Unsanded Grout mixed with LATICRETE 1776 Grout Enhancer (for joint widths less than or equal to 1/8 inch [3mm]) 100% Silicone caulk: | ATASII ™

CRETE International, Inc., Bethany, CT, USA

-1684 ticrete.com

BEAUTY



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www.villiusa.com

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