MILE stone’s Outdoor 2CM is a new 3/4 inch thick paving porcelain system with the same benefits of regular porcelain offering a blend of design, versatility, performance, simplicity of installation and eco-sustainability.
**SUPERIOR IN STRENGTH AND IMPACT RESISTANCE TO CERAMIC TILES**
(SUPPORTS OVER 2000LB), LIGHTER & EASIER TO HANDLE THAN CONCRETE BLOCKS

**AVAILABLE IN A BROAD RANGE OF COLORS/STYLES**

**VIRTUALLY NO MAINTENANCE**

**RECYCLABLE AND ECOLOGICAL**

**VERSATILE INSTALLATION APPLICATIONS**

**HEAT RESISTANT UV**

**MASSIVE OVER LIFE COST SAVINGS**

**THERMAL SHOCK RESISTANT (-40°F - 210°F)**

**HEAVY COMMERCIAL**

**EASY TO CLEAN STAIN, CHEMICAL AND SALT RESISTANT**

**SLIP RESISTANT AND QUICK DRAINING**

**EASY TO INSTALL**

**RECYCLABLE AND ECOLOGICAL**

**VERSATILE INSTALLATION APPLICATIONS**
FROST-PROOF
RESISTANT TO SALT CORROSION
RESISTANT TO ATTACK FROM MOLD, MOSS AND VERDIGRIS TREATMENTS
RESISTANT TO EFFLORESCENCE AND OTHER MARKS
DURABLE: RESISTANT TO HEAVY VEHICLE AND PEDESTRIAN TRAFFIC

FROST-PROOF
HYPOALLERGENIC. NO VOC.
EASY TO STERILIZE
EASY TO CLEAN

40% recycled content
MULTICOLOR 24"x24"
### FLORIM USA OUTDOOR vs CONCRETE

<table>
<thead>
<tr>
<th>FLORIM USA OUTDOOR</th>
<th>CONCRETE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ability to express many looks; controlled variation and quality</td>
<td>Unpredictable results, color uniformity cannot be guaranteed</td>
</tr>
<tr>
<td>Frost resistant</td>
<td>Needs special treatment to resist frost</td>
</tr>
<tr>
<td>Easy installation</td>
<td>Requires special installation considerations</td>
</tr>
<tr>
<td>User friendly. Easy to clean and slip resistant</td>
<td>Easy to crack, poor drainage, and increased potential for curling</td>
</tr>
<tr>
<td>Highly resistant to chemicals, mold &amp; mildew, salt &amp; corrosion, and stains</td>
<td>Absorbs stains easily, sealing required; subject to scratches and wear patterns over time</td>
</tr>
<tr>
<td>Low maintenance, enhanced durability, more convenience</td>
<td>More maintenance required to extend its life cycle, not cost effective</td>
</tr>
</tbody>
</table>

### FLORIM USA OUTDOOR vs STONE

<table>
<thead>
<tr>
<th>FLORIM USA OUTDOOR</th>
<th>STONE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Better choice for areas that see a lot of foot traffic</td>
<td>Requires periodic maintenance, it needs to be sealed once a year</td>
</tr>
<tr>
<td>Porcelain can be whatever you want it to be</td>
<td>Cracking and pitting are common in natural stones</td>
</tr>
<tr>
<td>Quick to install</td>
<td>Stone requires additional labor for pre-sealing and thicker thin sets because of the irregularity of the material</td>
</tr>
<tr>
<td>Harder and stronger</td>
<td>Absorbs water, prone to stains and scratches</td>
</tr>
<tr>
<td>More time for you, less for cleaning</td>
<td>More difficult to clean, needs special products</td>
</tr>
</tbody>
</table>

### FLORIM USA OUTDOOR vs HARD WOOD

<table>
<thead>
<tr>
<th>FLORIM USA OUTDOOR</th>
<th>HARD WOOD</th>
</tr>
</thead>
<tbody>
<tr>
<td>Great for all climates and locations</td>
<td>Despite its inviting beauty hardwood flooring can only go so far, hardwood presents installation restriction</td>
</tr>
<tr>
<td>Perfect for the everyday lifestyle, tile flooring offers easy maintenance</td>
<td>Limited durability, hardwood is a high maintenance choice</td>
</tr>
<tr>
<td>You can create a custom flooring design that's one of a kind</td>
<td>Designing a unique pattern on a wood floor can be expensive and time-consuming</td>
</tr>
<tr>
<td>Eco-Friendly Tile gives the warmth and welcoming look of wood without destroying a single tree</td>
<td>Although naturally resilient, hardwood is still susceptible to scratches, dents, cracking and warping</td>
</tr>
</tbody>
</table>
The functional, yet elegant, outdoor 2CM collection ties together both your indoor and outdoor spaces with ease. Everything from the garden to the swimming pool. From stairways to driveways - our system offers a wide array of colors, surfaces, and combinations to be used in different ways.

1. SWIMMING POOL
2. SUNDECK
3. TERRACE
4. PATH
5. STAIRS
6. HANDRAIL
7. WALL
8. DRIVEWAY
colors

- EARTH / MANHATTAN GREY
- EARTH / MULTICOLOR
- EARTH / MOON WHITE
- EARTH / MIAMI WHITE
- EARTH / LIGHT GREY
- EARTH / DARK GREY
Drawing inspiration from the Dolomites in Northeastern Italy, Earth, one of the three lines in our Outdoor collection, offers the classic beauty and variation of natural stone and the unparalleled durability of porcelain. Earth is perfect for designers and consumers who admire the elegant look of naturally occurring stone like that of the Dolomites. The beautiful organic qualities of Earth were inspired by the mountains, rivers, and valleys of the Trentino region and create a natural effortless style in any outdoor setting. Calming earthy tones and textures make this line a versatile choice for a variety of outdoor installations. From clean whites to warm greys and browns, Earth embodies a natural warm feel that is unsurpassed. With the ability to mimic virtually any stone, our 2CM pavers provide essentially endless possibilities.
EARTH / MANHATTAN GREY
EARTH

24"x24" / MANHATTAN GREY
EARTH / MULTICOLOR
EARTH

12"x24" / MULTICOLOR
EARTH / MOON WHITE
Moon White completes this pool area with a classic, sophisticated style that will always leave a lasting impression.
EARTH / MIAMI WHITE
EARTH

24"x24" / LIGHT GREY
EARTH / DARK GREY
sizes:

24"x24"
Rectified / Matte

1096343 Dark Grey
1096344 Light Grey
1096348 Manhattan Grey
1096349 Miami White
1096350 Moon White
1096342 Multicolor

packaging

<table>
<thead>
<tr>
<th>SIZES</th>
<th>METRIC (CM)</th>
<th>THICKNESS (CM)</th>
<th>PIECES PER BOX</th>
<th>SQ. FT PER BOX</th>
<th>WEIGHT PER BOX</th>
<th>BOXES PER PALLET</th>
<th>UOM PER PALLET</th>
<th>WEIGHT PER PALLET*</th>
</tr>
</thead>
<tbody>
<tr>
<td>FIELD TILES</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>24&quot;x24&quot; RECTIFIED</td>
<td>60x60</td>
<td>2 cm</td>
<td>2</td>
<td>8</td>
<td>76</td>
<td>36</td>
<td>288</td>
<td>2,736</td>
</tr>
<tr>
<td>COPING</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12&quot;x24&quot; COPING</td>
<td>30x60</td>
<td>2 cm</td>
<td>4</td>
<td>8</td>
<td>73.6</td>
<td>40</td>
<td>160 pcs</td>
<td>2,944</td>
</tr>
<tr>
<td>12&quot;x24&quot; STAIR TREAD COPING</td>
<td>30x60</td>
<td>2 cm</td>
<td>4</td>
<td>8</td>
<td>73.6</td>
<td>40</td>
<td>160 pcs</td>
<td>2,944</td>
</tr>
<tr>
<td>12&quot;x24&quot; DRAIN COPING</td>
<td>30x60</td>
<td>2 cm</td>
<td>4</td>
<td>8</td>
<td>73.6</td>
<td>40</td>
<td>160 pcs</td>
<td>2,944</td>
</tr>
<tr>
<td>12&quot;x24&quot; DRAIN COPING WITH STAIR TREAD</td>
<td>30x60</td>
<td>2 cm</td>
<td>4</td>
<td>8</td>
<td>73.6</td>
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<td>160 pcs</td>
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</tbody>
</table>

* WEIGHT PER PALLET DOES NOT INCLUDE PALLET WEIGHT ITSELF.
ALL OTHER SIZES WILL BE PACKAGED AS ORDERED.
PLEASE CONTACT MILESTONE CUSTOMER SERVICE AT 1-877-356-7461 FOR PACKAGING INFORMATION.

Colors shown may vary from actual product. Final selection should be made from actual product samples.
coping:

**V1**
- **UNIFORM APPEARANCE**
- Differences among pieces from the same production run are minimal.

**V2**
- **SLIGHT VARIATION**
- Clearly distinguishable differences in texture and/or pattern with similar colors.

**V3**
- **MODERATE VARIATION**
- While the colors present on a single piece of tile will be indicative of the colors to be expected on the other tiles, the amount of colors on each piece will vary significantly.

**V4**
- **SUBSTANTIAL VARIATION**
- Random color differences from tile to tile, so that one tile may have totally different colors from that on other tiles. Thus, the final installation will be unique.

**COPING**
- 12"x24"
- Styles: Manhattan Grey, Multicolor, Moon White, Miami White, Light Grey, Dark Grey

**DRain COPING**
- 12"x24"
- Styles: Manhattan Grey, Multicolor, Moon White, Miami White, Light Grey, Dark Grey

**DRAIN COPING \ STAIR TREAD**
- 12"x24"
- Styles: Manhattan Grey, Multicolor, Moon White, Miami White, Light Grey, Dark Grey

**COPING \ STAIR TREAD**
- 12"x24"
- Styles: Manhattan Grey, Multicolor, Moon White, Miami White, Light Grey, Dark Grey

---

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<table>
<thead>
<tr>
<th>Style</th>
<th>15 mm</th>
<th>5 mm</th>
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</thead>
<tbody>
<tr>
<td>Manhattan Grey</td>
<td>30 mm</td>
<td>11 mm</td>
</tr>
<tr>
<td>Multicolor</td>
<td>15 mm</td>
<td>5 mm</td>
</tr>
<tr>
<td>Moon White</td>
<td>15 mm</td>
<td>5 mm</td>
</tr>
<tr>
<td>Miami White</td>
<td>15 mm</td>
<td>5 mm</td>
</tr>
<tr>
<td>Light Grey</td>
<td>15 mm</td>
<td>5 mm</td>
</tr>
<tr>
<td>Dark Grey</td>
<td>15 mm</td>
<td>5 mm</td>
</tr>
</tbody>
</table>
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**MILESTONE**
Italian tile Made in the USA
MOOD WOOD

colors

MOOD WOOD / WHITE

MOOD WOOD / HONEY

MOOD WOOD / GREY

MOOD WOOD / OUTDOOR 2CM
MOOD WOOD

Transform your residential and commercial project with the elegant look of natural wood with the MOOD WOOD collection by Milestone.

Combining a sleek, matte finish with an array of 3 warm color compositions, MOOD WOOD provides the durability of porcelain tile while combining the authentic look of wood popular in modern design.
MOOD WOOD / WHITE
MOOD WOOD

12"x48" / HONEY
Mood Wood Grey is highlighted by tones of charcoal and grey with a natural wood grain finish, giving the appearance of wood planks that have been weathered by the ocean spray.
### SIZES & SHADE VARIATION

**sizes:**

12”x48”
Rectified / Matte

1100818 White
1100819 Honey
1100822 Grey

---

**packaging**

<table>
<thead>
<tr>
<th>SIZES</th>
<th>METRIC (CM)</th>
<th>THICKNESS (MM)</th>
<th>PIECES PER BOX</th>
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<th>UOM PER PALLET</th>
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<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>12”x48” RECTIFIED MATTE</td>
<td>30x120</td>
<td>20 mm</td>
<td>4</td>
<td>16 SF</td>
<td>147</td>
<td>16</td>
<td>256 SF</td>
<td>2,352</td>
</tr>
</tbody>
</table>

* WEIGHT PER PALLET DOES NOT INCLUDE PALLET WEIGHT ITSELF.
ALL OTHER SIZES WILL BE PACKAGED AS ORDERED.
PLEASE CONTACT MILESTONE CUSTOMER SERVICE AT 1-877-356-7461 FOR PACKAGING INFORMATION.

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Colors shown may vary from actual product.
Final selection should be made from actual product samples.
V3
MODERATE VARIATION
While the colors present on a single piece of tile will be indicative of the colors to be expected on the other tiles, the amount of colors on each piece will vary significantly.

V1
UNIFORM APPEARANCE
Differences among pieces from the same production run are minimal.

V2
SLIGHT VARIATION
Clearly distinguishable differences in texture and/or pattern with similar colors.

V4
SUBSTANTIAL VARIATION
Random color differences from tile to tile, so that one tile may have totally different colors from that on other tiles. Thus, the final installation will be unique.
colors

+ONE / CHALK

+ONE / GREIGE

+ONE / ASH

+ONE / GREY p.XX

+ONE / COLOR BODY PORCELAIN MADE IN THE USA.
## SIZES & SHADE VARIATION

### SIZES:

<table>
<thead>
<tr>
<th>Sizes</th>
<th>12&quot;x48&quot; Rectified / Matte</th>
<th>24&quot;x24&quot; Rectified / Matte</th>
</tr>
</thead>
<tbody>
<tr>
<td>1101411 Chalk</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1101412 Greige</td>
<td></td>
<td></td>
</tr>
<tr>
<td>1101413 Ash</td>
<td></td>
<td></td>
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### Packaging

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<th>Pieces Per Box</th>
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</tbody>
</table>

* Weight per pallet does not include pallet weight itself. All other sizes will be packaged as ordered. Please contact Milestone customer service at 1-877-356-7461 for packaging information.

Colors shown may vary from actual product. Final selection should be made from actual product samples.
V3 MODERATE VARIATION
While the colors present on a single piece of tile will be indicative of the colors to be expected on the other tiles, the amount of colors on each piece will vary significantly.

V2 SLIGHT VARIATION
Clearly distinguishable differences in texture and/or pattern with similar colors.

V1 UNIFORM APPEARANCE
Differences among pieces from the same production run are minimal.

V4 SUBSTANTIAL VARIATION
Random color differences from tile to tile, so that one tile may have totally different colors from that on other tiles. Thus, the final installation will be unique.
QUARTZ

colors

QUARTZ / EXTRA WHITE

QUARTZ / WHITE

QUARTZ / GREY

QUARTZ / GREY p.xx

QUARTZ \ COLOR BODY PORCELAIN MADE IN THE USA.
QUARTZ

12"x48" . 24"x24" / WHITE
SIZES & SHADE VARIATION

sizes:

12”x48”
Rectified / Matte

1101847 Extra White
1101423 White
1101424 Grey

24”x24”
Rectified / Matte

1101848 Extra White
1101426 White
1101427 Grey

24”x48”
Rectified / Matte

1101846 Extra White
1101421 White
1101422 Grey

packaging

<table>
<thead>
<tr>
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<th>METRIC (CM)</th>
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Final selection should be made from actual product samples.
V1
UNIFORM APPEARANCE
Differences among pieces from the same production run are minimal.

V2
SLIGHT VARIATION
Clearly distinguishable differences in texture and/or pattern with similar colors.

V3
MODERATE VARIATION
While the colors present on a single piece of tile will be indicative of the colors to be expected on the other tiles, the amount of colors on each piece will vary significantly.

V4
SUBSTANTIAL VARIATION
Random color differences from tile to tile, so that one tile may have totally different colors from that on other tiles. Thus, the final installation will be unique.
Routine care instructions:

1. Wash with water to remove superficial dirt.
2. Application of Fila Cleaner® Fila (commercial product) diluted to an average of 1:200 to the surface.
3. Let the solution sit 5-7 minutes.
4. Remove the cleaner with a vigorous mechanical cleaning action using common hand cleaning equipment, or a suitable floor-cleaning appliance.
5. Dry the floor completely.

Note: For desired results, it is particularly important to combine the effect of the detergent with a vigorous mechanical cleaning action.

The products mentioned in these instructions do not officiate any official agreements with any floor cleaning product producers.
### Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Test Method</th>
<th>Reference Value</th>
<th>Declared Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static coefficient of friction</td>
<td>ASTM - C 1028</td>
<td>&gt; 0.60 dry and wet</td>
<td>&gt; 0.60 dry and wet</td>
</tr>
<tr>
<td>Dynamic coefficient of friction (section 9.6 ANSI A 137.1 2012)</td>
<td>DCOF Acutest</td>
<td>&gt; 0.42 wet</td>
<td>&gt; 0.42 wet</td>
</tr>
<tr>
<td>Resistance to freeze</td>
<td>ASTM - C 1026</td>
<td>required</td>
<td>Resistant</td>
</tr>
<tr>
<td>Frost resistance</td>
<td>ISO - 10545-12</td>
<td>As reported</td>
<td>Resistant</td>
</tr>
<tr>
<td>Chemical resistance</td>
<td>ASTM - C 650</td>
<td>As reported</td>
<td>Not affected</td>
</tr>
<tr>
<td>Resistance to domestic chemicals and additives for swimming pools</td>
<td>ISO - 10545-13</td>
<td>UB minimum</td>
<td>UA</td>
</tr>
<tr>
<td>Resistance to low concentrations of acids and alkali</td>
<td>ISO - 10545-14</td>
<td>See manufacturer’s declaration</td>
<td>ULA</td>
</tr>
<tr>
<td>Resistance to high concentrations of acids and alkali</td>
<td>ISO - 10545-15</td>
<td>See manufacturer’s declaration</td>
<td>UHA</td>
</tr>
<tr>
<td>Resistance to staining</td>
<td>ASTM - C 1378</td>
<td>As reported</td>
<td>Not affected</td>
</tr>
<tr>
<td>Maximum straightness deviation, in %, in relation to the corresponding production dimensions</td>
<td>ASTM - C 485</td>
<td>±0.75% (±1.8 mm)</td>
<td>±10%</td>
</tr>
<tr>
<td></td>
<td>ISO - 10545-2</td>
<td>±0.5% (±1.5 mm)</td>
<td>±10%</td>
</tr>
<tr>
<td>Admitted deviation, in %, of the average thickness of each tile from the production dimensions</td>
<td>ASTM - C 499</td>
<td>± 1.2 mm</td>
<td>±0.5%</td>
</tr>
<tr>
<td></td>
<td>ISO - 10545-2</td>
<td>±0.5% (±0.5 mm)</td>
<td>±0.5%</td>
</tr>
<tr>
<td>Length 7 width: admitted deviation, in % of the average size of each tile from the production dimensions</td>
<td>ASTM - C 499</td>
<td>±0.5 % (±2.0 mm)</td>
<td>± 0.15 %</td>
</tr>
<tr>
<td></td>
<td>ISO - 10545-2</td>
<td>±0.6 % (±2 mm)</td>
<td>± 0.15 %</td>
</tr>
<tr>
<td>Amount of water absorbed, in percentage</td>
<td>ASTM - C 373</td>
<td>≤ 0.5%</td>
<td>≤ 0.5%</td>
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<tr>
<td></td>
<td>ISO - 10545-3</td>
<td>≤ 0.5%</td>
<td>≤ 0.5%</td>
</tr>
<tr>
<td>Breaking strength in N (thickness ≥ 7.5 mm)</td>
<td>ASTM - C 648</td>
<td>≥ 2500 LBF Average</td>
<td>≥ 3000 LBF Individual</td>
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<tr>
<td></td>
<td>ISO - 10545-4</td>
<td>≥ 1300 Newton</td>
<td>&gt; 13000</td>
</tr>
<tr>
<td>Resistance to deep abrasion of unglazed tiles</td>
<td>ASTM - C 1243</td>
<td>&lt; 175 mm 3</td>
<td>&lt; 150</td>
</tr>
<tr>
<td></td>
<td>ISO - 10545-6</td>
<td>&lt; 175 mm 3</td>
<td>&lt; 150</td>
</tr>
<tr>
<td>Thermal shock resistance</td>
<td>ASTM - C 484</td>
<td>-</td>
<td>Meets the requirement</td>
</tr>
<tr>
<td></td>
<td>ISO - 10545-9</td>
<td>-</td>
<td>Resistant</td>
</tr>
</tbody>
</table>
LAYING SYSTEMS

DIRECT INSTALLATION

The Milestone 2CM porcelain tile can be easily positioned on grass, removed and repositioned, allowing maximum flexibility in creating different configurations. Milestone 2CM porcelain tiles can be installed either with a minimum joint, or with a 1/2" joint or larger (called Japanese joint).

Installation steps

- Remove 2" of soil in the area where you want to place the 2CM tiles;
- Apply and compact evenly 1" of gravel into the area you have cleared;
- Directly lay the Milestone porcelain tile on the gravel bed and tap it with a rubber hammer to eliminate any unevenness.

PLUS

- EASY TO INSTALL AND REMOVE
- QUICK WATER DRAINAGE KEEPING THE GROUND UNCHANGED
- IDEAL TO CREATE CONTINUITY BETWEEN INDOOR AND OUTDOOR FLOORING

LAYING ON GRAVEL AND SAND

Installation steps

- Level and compact the surface (sand or gravel);
- Position the Milestone 2CM porcelain tile on the gravel/sand bed;
- Tap the tiles with a rubber hammer to eliminate any unevenness and fill the joints between the tiles with gravel/sand to add stability to the surface.

PLUS

- EASY TO INSTALL AND REMOVE
- QUICK WATER DRAINAGE KEEPING THE GROUND UNCHANGED
- IDEAL WHERE IT ISN'T POSSIBLE TO LAY PERMANENT FLOORING
- EXHIBITIONS AND EVENTS
ADHESIVE INSTALLATION

DRAINING SCREED
It is ideal for garden and courtyard flooring because it ensures that water is drained correctly, using the special glues.

VEHICLE TRANSIT PAVEMENT
It is ideal for parking lots and garage ramps, thanks to the extremely high resistance of ceramic surface to dynamic and concentrate loads.

PLUS
- HIGH RESISTANCE TO DYNAMIC AND CONCENTRATE LOADS
- IDEAL TO CREATE CONTINUITY BETWEEN PEDESTRIAN AREAS AND VEHICLE ACCESSIBLE AREAS, USING THE SAME MATERIAL.

INSTALLATION ON RAISED SYSTEMS

Mainly, there are three raised floor systems that the customers can adopt to install the Milestone 2CM porcelain tiles: fixed support, adjustable support, and self-leveling support.

Installation steps
Ensure that the area where the raised system will be installed is flat, compact, rigid, and make sure it can support the weight of the new floor;

Choose the raised floor system that best suits your use. Remember that the raised floor has to be installed to provide adequate drainage of rain water.

*Rectified tiles are required for pedestal installations

Warnings: these systems cannot be used when high dynamic loads transit in the area.

PLUS
- FROM THE AESTHETIC POINT OF VIEW, IT ENSURES FLOORING WITH A SINGLE GRADIENT, WITHOUT ANY VISIBLE WATER DRAINING ELEMENTS
- THE SMALL GAP BETWEEN ONE SLAB AND ANOTHER ALLOWS A QUICK WATER DRAINAGE, IT IS EASY TO CLEAN
- LOWER LOAD BEARING ON ATTICS AND BALCONIES AS THE LAST LAYER OF CONCRETE AND GLUE IS NOT NECESSARY
- FROST-PROOF, IT ABSORBS THE THERMAL EXPANSIONS OF THE CONCRETE SUBSTRATE, THE DIRECT CAUSE OF TRADITIONAL OUTDOOR FLOORING SUBSIDENCES
- THE GAP BETWEEN THE SLAB AND THE CONCRETE SUBSTRATE FOSTERS EXCELLENT THERMAL INSULATION
- BEST ACOUSTIC INSULATION
- HIDDEN BUT EASY TO INSPECT PIPES
- SPEED OF INSTALLATION
- RECYCLABLE
- VALUE FOR MONEY SOLUTION IN TERMS OF LAYING AND MAINTENANCE, LASTS VIRTUALLY FOREVER
LAYING ON GRAVEL AND SAND
GENERAL INDICATIONS

SUBSTRATE
Level the substrate and compact it with care before proceeding with installation consisting of resting the slabs on the substrate. It is advisable to lay a separating cloth (geotextile) to stabilize the substrate in order to limit any washing away along the gaps / joints between the pavers and to minimize the growth of weeds.

SPACERS BETWEEN PAVERS
When laying porcelain pavers by resting them directly on the substrate, they must never be laid so that they touch each other, as this would drastically increase the risk of chipping caused by micro-movements while the pavers are setting into place. 1/6" joints are recommended for pressed material.

CUTS AND HOLES
- It is possible to cut the material in both damp or dry conditions.
- It is essential to use ONLY approved cutting wheels (continuous edge) for porcelain stoneware.
- To make holes in the slabs, use diamond drill bits for porcelain stoneware.

DO NOT USE A PLATE COMPACTOR AFTER LAYING
To avoid the risk of chipping the material, never use a plate compactor once the porcelain pavers slabs have been laid.

EDGE RESTRAINTS
When pavers are laid on draining sand or gravel, always prepare an edge restraint system to hold the substrate material used and prevent any washing away of sand or gravel, therefore keeping the paver slabs in place.

LAYING ON SAND
Fill the gaps with sand and eliminate the excess material. In time, wind, rain and cleaning activities may remove the sand, therefore calling for some occasional re-filling.

LAYING POLYMERIC SAND OR GRAVEL
It is a composition created specifically for outdoor paving installation. It is important to use specific sand for porcelain stoneware. This sand is available in several different colors and grain sizes. Once the polymeric sand has been compacted, it will prevent the growth of weeds. Once the gaps have been filled with polymeric sand eliminate with care all the excess material. Lastly, wet the gaps between the pavers with water to activate the reaction of the polymers that will transform the sand into a compact body.
THE ONLY PATENTED SYSTEM ABLE TO PASS THE DYNAMIC LOADING TEST FOR "HARD OBJECT IMPACT" WITH REFERENCE TO UNI EN 12825:2003 NORM.
Installation of protective layer SHOCK CONTROL® is quick and easy. It can be easily applied by a single person within seconds without any tool in 4 short passages.

1. Choose the proper size of SHOCK CONTROL® considering the size of the tile and apply it on the tile’s lower surface, avoiding folds and aligning the edges.

2. Starting from one side, peel the protective foil, ensuring perfect adhesion of SHOCK CONTROL® to porcelain’s surface.

3. Proceed smoothly until joining adhesion on the entire surface, avoiding wrinkles or air bubbles.

4. The tile is immediately ready to be applied on pedestals for the realization of the exterior elevated floor.

SHOCK CONTROL® is the only PATENTED system for porcelain tiles’ protection, that can guarantee with its application the overcoming of the dynamic loading test for “hard object impact” with reference to UNI EN 12825:2003 norm.

SHOCK CONTROL® is the only protective reinforcing system created to be coupled with porcelain, allowing 2 cm thick porcelain tiles for outdoor raised floors to pass the dynamic loading test for hard object impact in all the three tests:

<table>
<thead>
<tr>
<th>TEST PASSED</th>
<th>NO PORCELAIN FRAGMENT DETACHED FROM THE PANEL</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pic. 1,2</td>
<td>DROP TEST IN THE MIDDLE OF THE PANEL</td>
</tr>
<tr>
<td>Pic. 3</td>
<td>DROP TEST ON ONE SIDE OF THE PANEL</td>
</tr>
<tr>
<td>Pic. 4</td>
<td>DROP TEST AT 7 cm ON DIAGONAL</td>
</tr>
</tbody>
</table>

**TEST**

**PRICE LIST**

SHOCK CONTROL® ($ / FT2)

2.92
SHOCK CONTROL® 2.0

Application

1) Position SHOCK CONTROL 2.0 on the application surface;
2) Remove the release film from the lower face, this is divided longitudinally in two sections, in one or two steps, making sure to also remove the side selvedge of the upper surface;
3) To use suitable roller by applying pressure over all of the SHOCK CONTROL 2.0 surface, particularly the side & head laps to further promote adhesion.

Recommendations

• The SHOCK CONTROL 2.0 is to applied on dry clean surfaces.
• Do not apply the SHOCK CONTROL 2.0 below the 0° C.
• During the cold season for the most simple and safe application it is to use hot air generated by a burner
• The SHOCK CONTROL 2.0 has to be stocked preferably indoor in a dry and ventilated areas with temperatures higher than 15° C.
• For a perfect stuck of SHOCK CONTROL 2.0 on the back of the tile it doesn’t must be left any air bubble areas in order to avoid not adherent spaces and moisture buildup.
• Do not stack SHOCK CONTROL 2.0 pallets at the warehouse to prevent adhesions between the sheets.

For further information and news we recommend to consult technical literature; our technical service is always available to study particular problems, offering the necessary assistance for optimal use.

Technical Data

<table>
<thead>
<tr>
<th>Technical Characteristics</th>
<th>Measure Units</th>
<th>Reference Norm</th>
<th>P</th>
<th>PA</th>
<th>Tolerance</th>
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<tbody>
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<td>Upper face finish</td>
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<td>Tensile strength L / T</td>
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<tr>
<td>Fire resistance</td>
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WHY PORCELAIN?

There are many reasons to choose impervious porcelain tile over other floor coverings. It offers the largest array of design options and holds its value the longest. In a comparison between the many different flooring options, porcelain tile offers one of the most durable and least expensive options over the lifespan of the building.

Benefits of Porcelain Tile

• Impervious to water
• Easy to maintain
• Variety of design options
• Environmentally friendly
• Resistant to germs and bacteria
• Fade resistant
• Fire resistant
• Durable - best long-term value vs. other floor coverings