

# OUTDOOR PAVERS



AVAILABLE AT:

realstone **SYSTEMS**<sup>™</sup>  
Inspiring. Timeless. Enduring.

866-698-5066 | [www.Realstone.com](http://www.Realstone.com)

# OUTDOOR



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.

# BENEFITS

## OF OUTDOOR 2CM PORCELAIN PAVERS



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



HEAVY COMMERCIAL



EASY TO CLEAN  
STAIN, CHEMICAL  
AND SALT RESISTANT



SUPERIOR IN STRENGTH  
AND IMPACT RESISTANCE  
TO CERAMIC TILES  
(SUPPORTS OVER  
2000LB), LIGHTER &  
EASIER TO HANDLE THAN  
CONCRETE BLOCKS



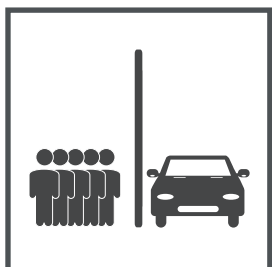
RESISTANT TO SALT  
CORROSION



RESISTANT TO ATTACK  
FROM MOLD, MOSS  
AND VERDIGRIS  
TREATMENTS



RESISTANT TO  
EFFLORESCENCE  
AND OTHER MARKS



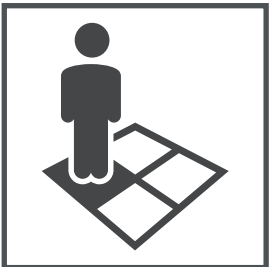
DURABLE: RESISTANT  
TO HEAVY VEHICLE AND  
PEDESTRIAN TRAFFIC



VIRTUALLY NO  
MAINTENANCE



SLIP RESISTANT AND  
QUICK DRAINING



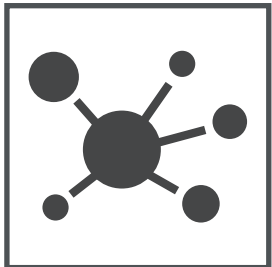
EASY TO INSTALL



RECYCLABLE AND  
ECOLOGICAL



FROST-PROOF



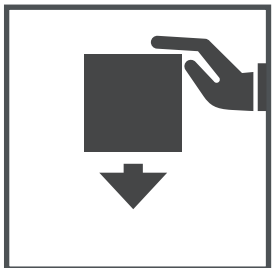
HYPOALLERGENIC.  
NO VOC.



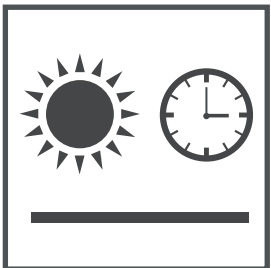
EASY TO STERILIZE



EASY TO CLEAN



VERSATILE INSTALLATION  
APPLICATIONS



HEAT RESISTANT UV



AVAILABLE IN A BROAD  
RANGE OF COLORS/  
STYLES



MASSIVE OVER LIFE  
COST SAVINGS





24"x24" / MULTICOLOR

FLORIM USA OUTDOOR

Ability to express many looks;  
controlled variation and quality

Frost resistant

Easy installation

User friendly. Easy to clean and  
slip resistant

Highly resistant to chemicals, mold &  
mildew, salt & corrosion, and stains

Low maintenance, enhanced  
durability, more convenience

FLORIM USA OUTDOOR

Better choice for areas that see a lot of foot traffic

Porcelain can be whatever you want it to be

Quick to install

Harder and stronger

More time for you, less for cleaning

FLORIM USA OUTDOOR

Great for all climates and locations

Perfect for the everyday lifestyle,  
tile flooring offers easy maintenance

You can create a custom flooring  
design that's one of a kind

Eco-Friendly Tile gives the warmth and welcoming  
look of wood without destroying a single tree

vs

CONCRETE

Unpredictable results, color uniformity  
cannot be guaranteed

Needs special treatment to resist frost

Requires special installation considerations

Easy to crack, poor drainage,  
and increased potential for curling

Absorbs stains easily, sealing required;  
subject to scratches and wear patterns over time

More maintenance required to extend its  
life cycle, not cost effective

vs

STONE

Requires periodic maintenance,  
it needs to be sealed once a year

Cracking and pitting are common  
in natural stones

Stone requires additional labor for  
pre-sealing and thicker thin sets because of the irregularity  
of the material

Absorbs water, prone to stains and scratches

More difficult to clean, needs special products

vs

HARD WOOD

Despite its inviting beauty hardwood flooring can only go  
so far, hardwood presents installation restriction

Limited durability, hardwood is a high maintenance choice

Designing a unique pattern on  
a wood floor can be expensive and time-consuming

Although naturally resilient, hardwood is still susceptible  
to scratches, dents, cracking and warping



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**

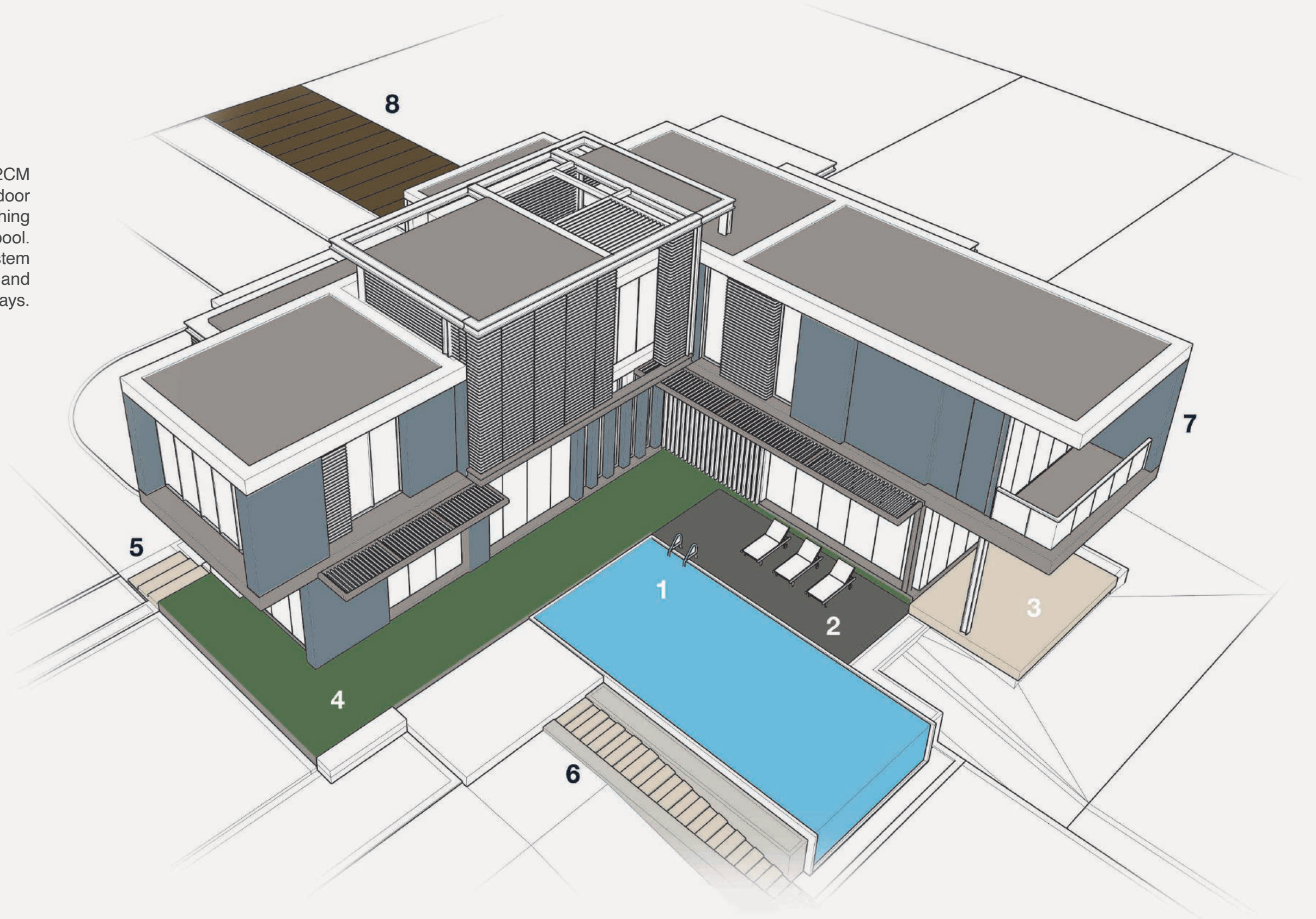
**4. PATH**

**5. STAIRS**

**6. HANDRAIL**

**7. WALL**

**8. DRIVEWAY**





# EARTH



EARTH / MANHATTAN GREY p.6



EARTH / MULTICOLOR p.10



EARTH / MOON WHITE p.6



EARTH / MIAMI WHITE p.18



EARTH / LIGHT GREY p.22



EARTH / DARK GREY p.26

## colors

EARTH / MANHATTAN GREY



EARTH / MULTICOLOR



EARTH / MOON WHITE



EARTH / MIAMI WHITE



EARTH / LIGHT GREY



EARTH / DARK GREY





# EARTH

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 / **MULTICOLOR**



# EARTH



24"x24" / MULTICOLOR



24"x24" / MULTICOLOR





EARTH / MOON WHITE





Moon White completes this pool area with a classic, sophisticated style that will always leave a lasting impression.





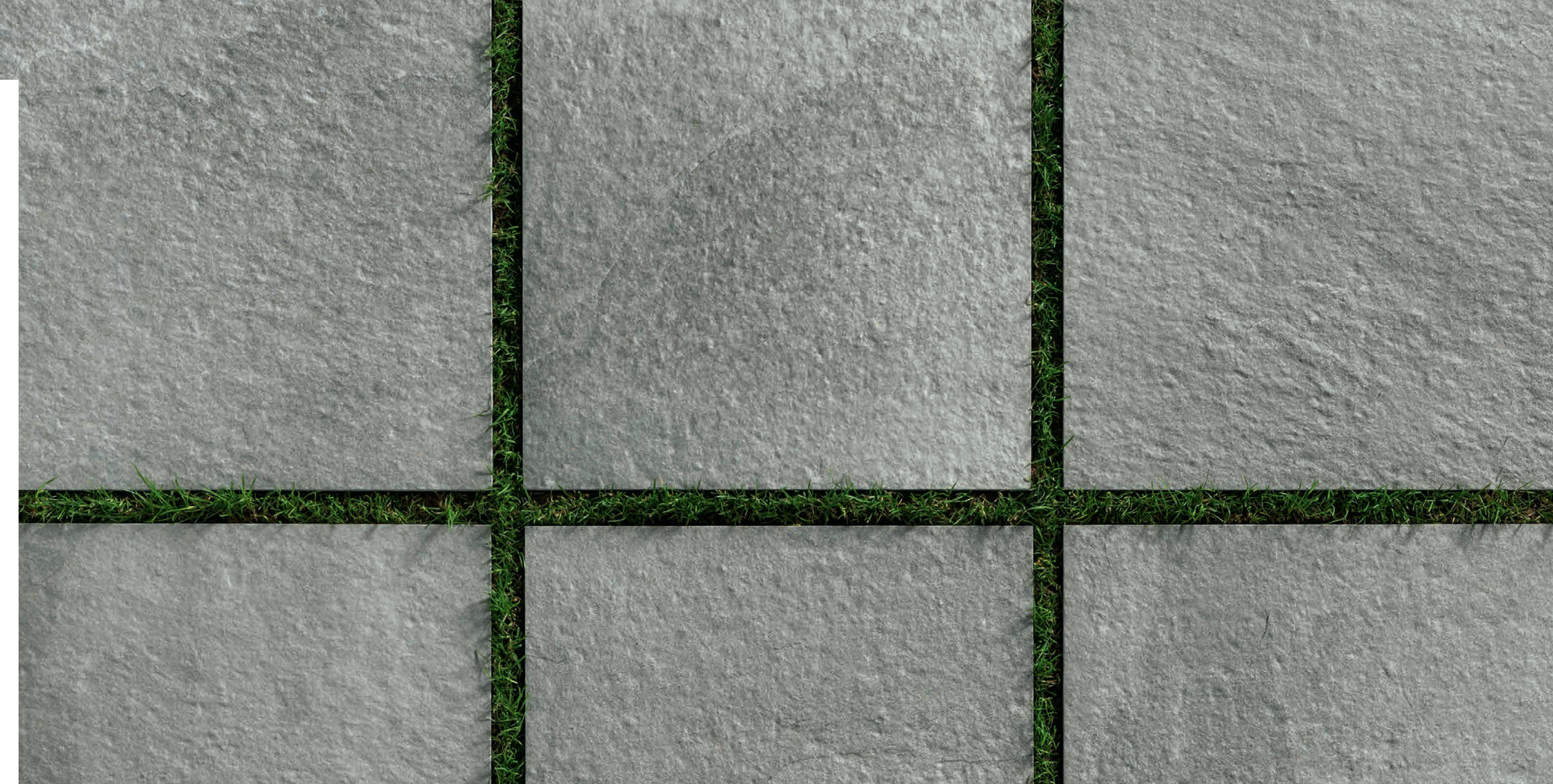
EARTH / **MIAMI WHITE**





24"x24" / MIAMI WHITE





EARTH / LIGHT GREY



# EARTH

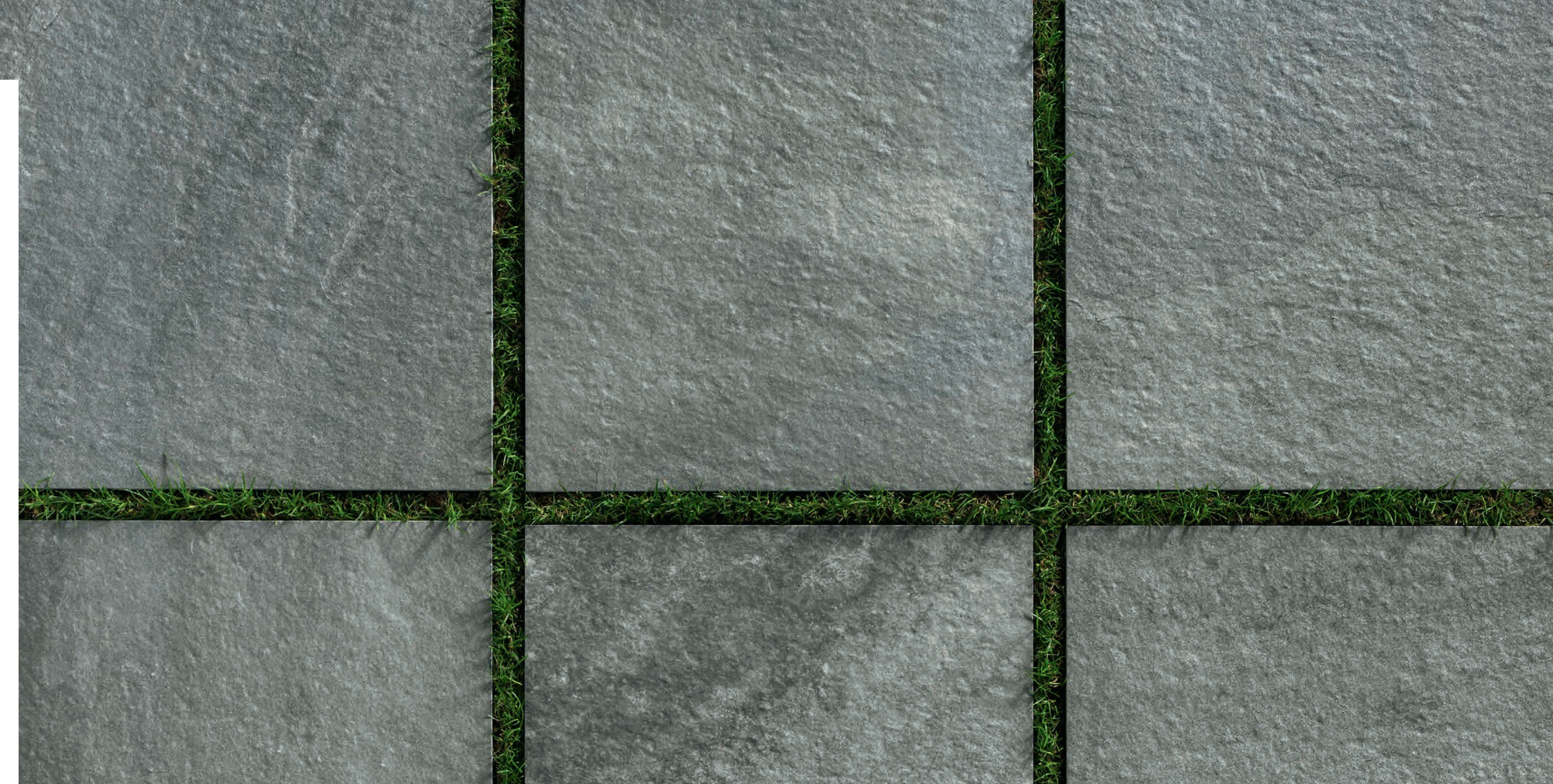


12"x24" coping . 24"x24" / **LIGHT GREY**



24"x24" / **LIGHT GREY**





EARTH / **DARK GREY**





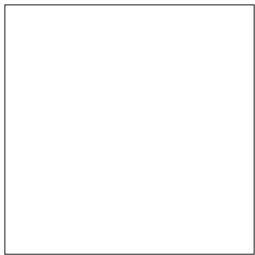
24"x24" / DARK GREY



# SIZES & SHADE VARIATION

## sizes:

24"x24"  
Rectified / Matte



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

## packaging

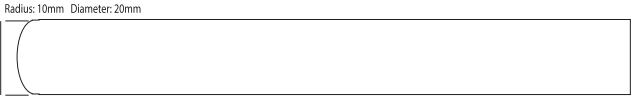
SIZES		THICKNESS (CM)	PIECES PER BOX	SQ. FT PER BOX	WEIGHT PER BOX	BOXES PER PALLET	UOM PER PALLET	WEIGHT PER PALLET*
FIELD TILES								
24"x24" RECTIFIED	NOMINAL	2 cm	2	8	76	36	288	2,736
COPING								
12"x24" COPING	NOMINAL	2 cm	4	8	73.6	40	160 pcs	2,944
12"x24" STAIR TREAD COPING	NOMINAL	2 cm	4	8	73.6	40	160 pcs	2,944
12"x24" DRAIN COPING	NOMINAL	2 cm	4	8	73.6	40	160 pcs	2,944
12"x24" DRAIN COPING WITH STAIR TREAD	NOMINAL	2 cm	4	8	73.6	40	160 pcs	2,944

\* 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.  
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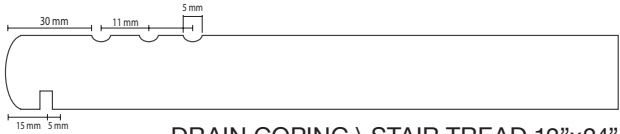
## coping:



- COPING 12"x24"
- 1100271 Manhattan Grey
  - 1100268 Multicolor
  - 1100273 Moon White
  - 1100272 Miami White
  - 1100270 Light Grey
  - 1100269 Dark Grey



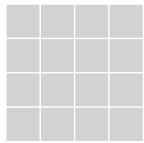
- DRAIN COPING 12"x24"
- 1100282 Manhattan Grey
  - 1100279 Multicolor
  - 1100284 Moon White
  - 1100283 Miami White
  - 1100281 Light Grey
  - 1100280 Dark Grey



- DRAIN COPING \ STAIR TREAD 12"x24"
- 1100304 Manhattan Grey
  - 1100301 Multicolor
  - 1100306 Moon White
  - 1100305 Miami White
  - 1100303 Light Grey
  - 1100302 Dark Grey



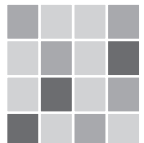
- COPING \ STAIR TREAD 12"x24"
- 1100293 Manhattan Grey
  - 1100290 Multicolor
  - 1100295 Moon White
  - 1100294 Miami White
  - 1100292 Light Grey
  - 1100291 Dark Grey



**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.



# MOOD WOOD



MOOD WOOD / WHITE p.42



MOOD WOOD / HONEY p.46



MOOD WOOD / GREY p.50

colors

MOOD WOOD / WHITE



MOOD WOOD / HONEY



MOOD WOOD / GREY





# 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.



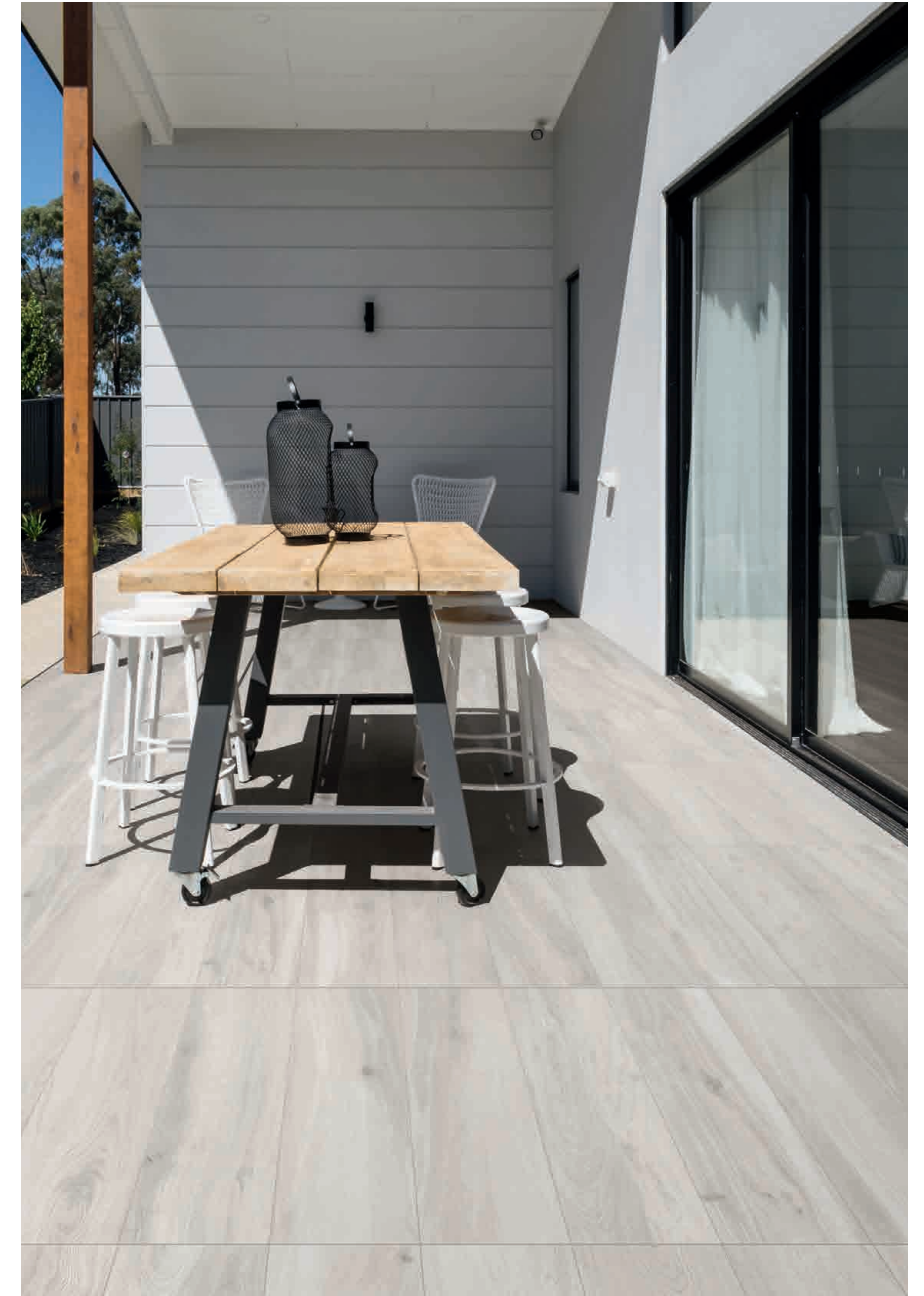




MOOD WOOD / **WHITE**



# MOOD WOOD



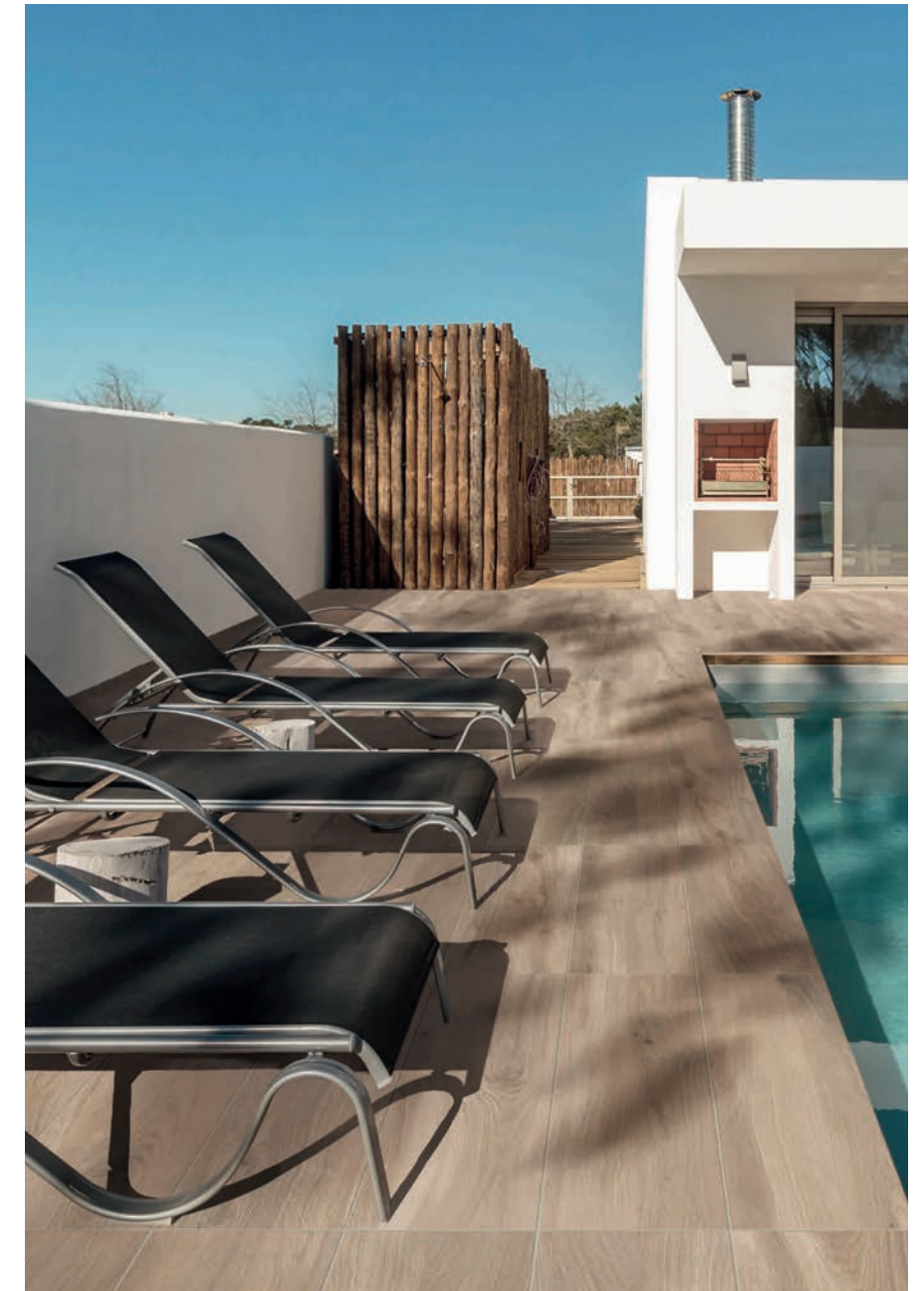




MOOD WOOD / **HONEY**



# MOOD WOOD







MOOD WOOD / **GREY**



# MOOD WOOD



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



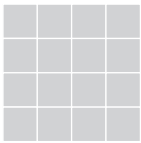
1100818 White  
1100819 Honey  
1100822 Grey

## packaging

SIZES		THICKNESS (MM)	PIECES PER BOX	UOM PER BOX	WEIGHT PER BOX	BOXES PER PALLET	UOM PER PALLET	WEIGHT PER PALLET*
FIELD TILES								
12"x48" RECTIFIED MATTE	NOMINAL	20 mm	4	16 SF	147	16	256 SF	2,352

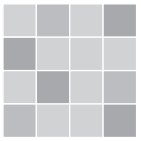
\* WEIGHT PER PALLET DOES NOT INCLUDE PALLET WEIGHT ITSELF.  
ALL OTHER SIZES WILL BE PACKAGED AS ORDERED.  
PLEASE CONTACT MILESTONE CUSTOMER SERVICE AT 1-877-356-7461 FOR PACKAGING INFORMATION.

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



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.



# +ONE

colors

+ONE / CHALK



+ONE / GREIGE



+ONE / ASH



+ONE / CHALK p.58



+ONE / GREIGE p.62



+ONE / GREY p.66





+ONE / CHALK





24"x24" / CHALK





+ONE / GREIGE









+ONE / ASH







# SIZES & SHADE VARIATION

## sizes:

12”x48”  
Rectified / Matte



1101411 Chalk  
1101412 Greige  
1101413 Ash

24”x48”  
Rectified / Matte



1101841 Chalk  
1101842 Greige  
1101843 Ash

24”x24”  
Rectified / Matte



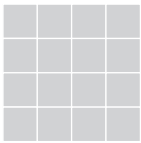
1101414 Chalk  
1101415 Greige  
1101416 Ash

## packaging

SIZES		THICKNESS (MM)	PIECES PER BOX	UOM PER BOX	WEIGHT PER BOX	BOXES PER PALLET	UOM PER PALLET	WEIGHT PER PALLET*
FIELD TILES								
12”X48” RECTIFIED MATTE	NOMINAL	20 mm	4	16 SF	147	16	256 SF	2,352
24”x24” RECTIFIED MATTE	NOMINAL	20 mm	2	8 SF	76	36	288 SF	2,736
24”x48” RECTIFIED MATTE	NOMINAL	20 mm	2	16 SF	152	16	256 SF	2,432

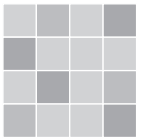
\* WEIGHT PER PALLET DOES NOT INCLUDE PALLET WEIGHT ITSELF.  
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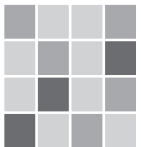
V1

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.



# QUARTZ



QUARTZ / EXTRA WHITE p.74



QUARTZ / WHITE p.78



QUARTZ / GREY p.82

colors

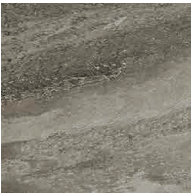
QUARTZ / EXTRA WHITE



QUARTZ / WHITE



QUARTZ / GREY







QUARTZ / **EXTRA WHITE**









QUARTZ / WHITE









QUARTZ / GREY







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

SIZES		THICKNESS (MM)	PIECES PER BOX	UOM PER BOX	WEIGHT PER BOX	BOXES PER PALLET	UOM PER PALLET	WEIGHT PER PALLET*
FIELD TILES								
12"x48" RECTIFIED MATTE	NOMINAL	20 mm	4	16 SF	147	16	256 SF	2,352
24"x24" RECTIFIED MATTE	NOMINAL	20 mm	2	8 SF	76	36	288 SF	2,736
24"x48" RECTIFIED MATTE	NOMINAL	20 mm	2	15.5 SF	152	16	248 SF	2,432

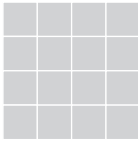
\* WEIGHT PER PALLET DOES NOT INCLUDE PALLET WEIGHT ITSELF.  
ALL OTHER SIZES WILL BE PACKAGED AS ORDERED.  
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QUARTZ GREY

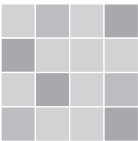


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V1

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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  
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V4

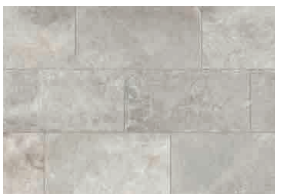
SUBSTANTIAL VARIATION  
Random color differences from tile to tile, so that one tile may have totally different colors from that on other tiles. Thus, the final installation will be unique.



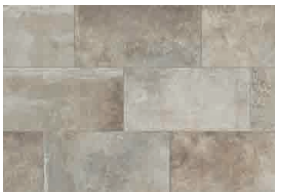
# VERVE

colors

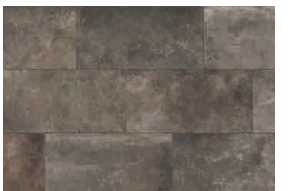
VERVE / WHITE



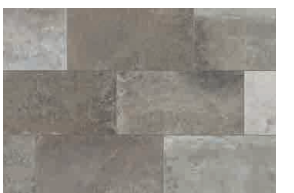
VERVE / SAND



VERVE / EARTH



VERVE / MULTICOLOR



VERVE / WHITE p. 90



VERVE / SAND p. 94



VERVE / EARTH p. 98



VERVE / MULTICOLOR p. 102





VERVE / **WHITE**



92 | **VERVE**



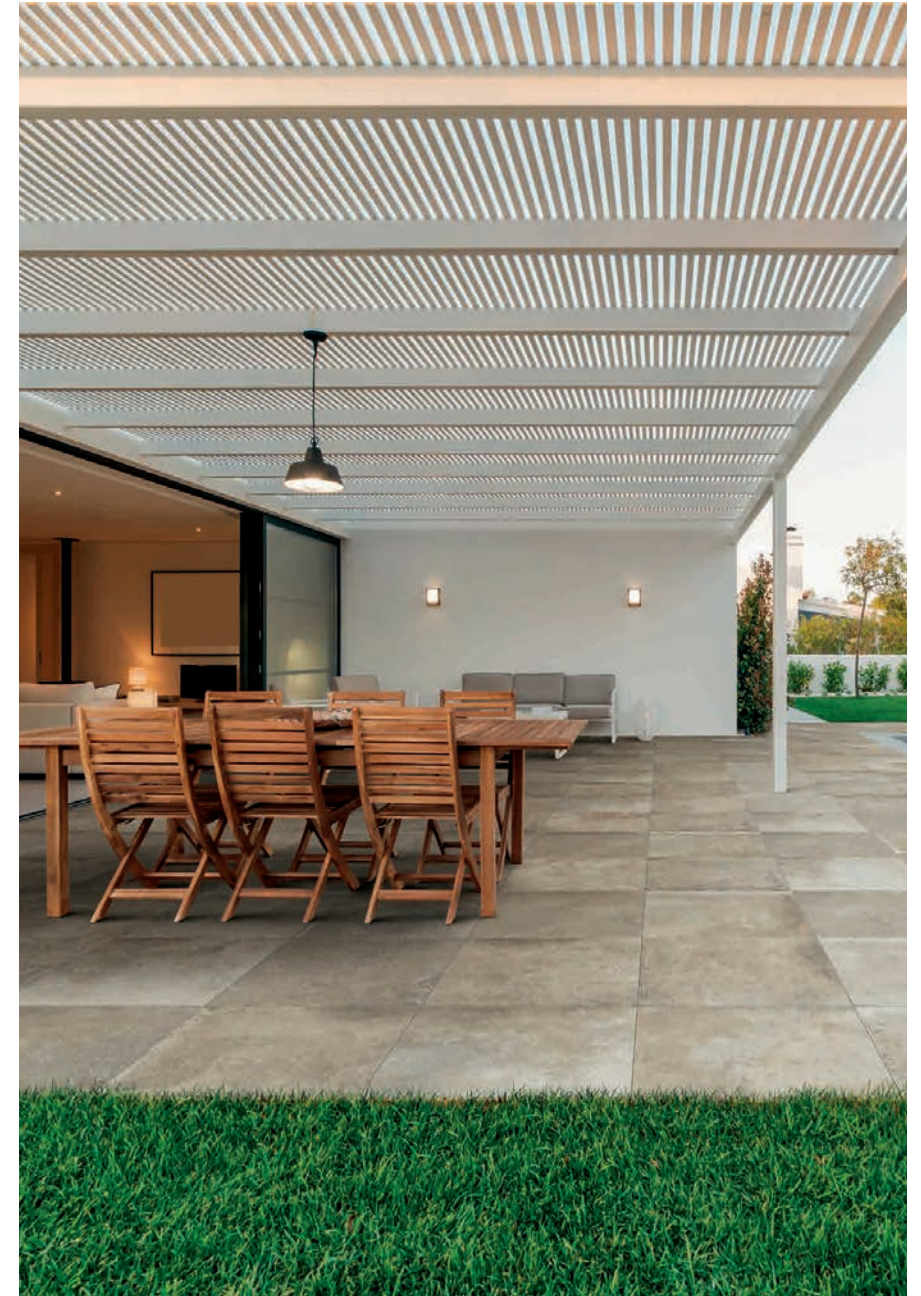




VERVE / **SAND**



96 | **VERVE**







VERVE / EARTH





24"x24" / EARTH





VERVE / **MULTICOLOR**





24"x24" / MULTICOLOR



# SIZES & SHADE VARIATION

## sizes:

24"x24"  
Rectified / Matte



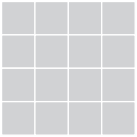
- 1102232 White
- 1102233 Sand
- 1102234 Earth
- 1102235 Multicolor

## packaging

SIZES		THICKNESS (MM)	PIECES PER BOX	UOM PER BOX	WEIGHT PER BOX	BOXES PER PALLET	UOM PER PALLET	WEIGHT PER PALLET*
FIELD TILES								
24"x24" RECTIFIED MATTE	NOMINAL	20 mm	2	8 SF	72	36	288 SF	2,592

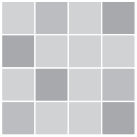
\* WEIGHT PER PALLET DOES NOT INCLUDE PALLET WEIGHT ITSELF.  
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V1

UNIFORM APPEARANCE  
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run are minimal.



V2

SLIGHT VARIATION  
Clearly distinguishable  
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V3

MODERATE  
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While the colors present on  
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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.

VERVE / MULTICOLOR



# LAYING SYSTEMS

## DIRECT INSTALLATION

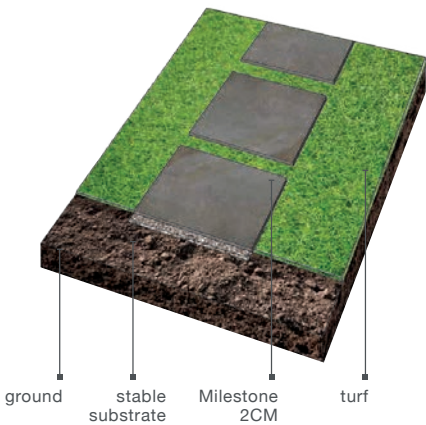
The Milestone 2CM porcelain tile can be easily positioned on grass, removed and repositioned, allowing maximum flexibility in creating different configurations. Milestone 2CM porcelain tiles can be installed either with a minimum joint, or with a 1/2" joint or larger (called Japanese joint).

### 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

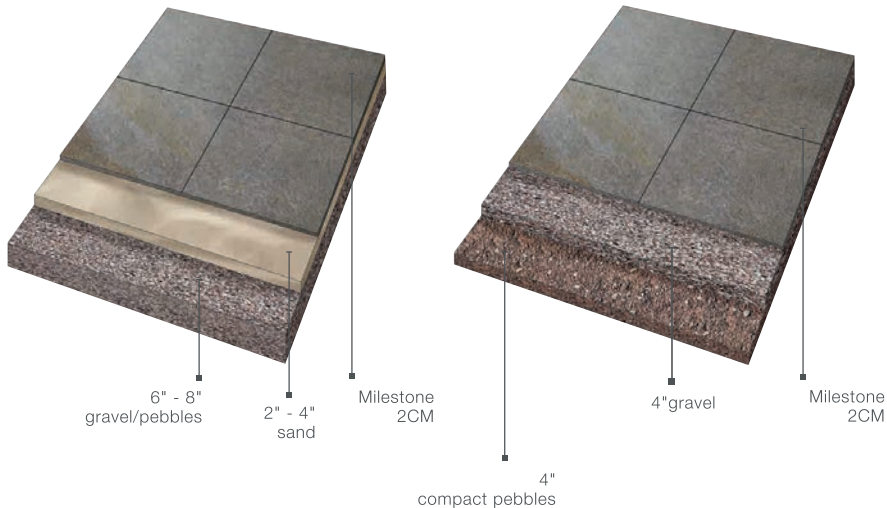
## LAYING ON GRAVEL AND SAND

### 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

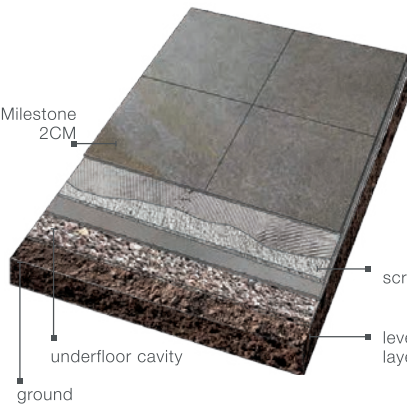
### DRAINING SCREED

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

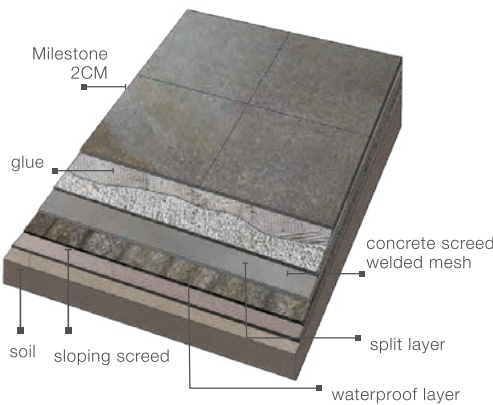
### VEHICLE TRANSIT PAVEMENT

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

### DRAINING



### DRIVE FLOOR



### 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.

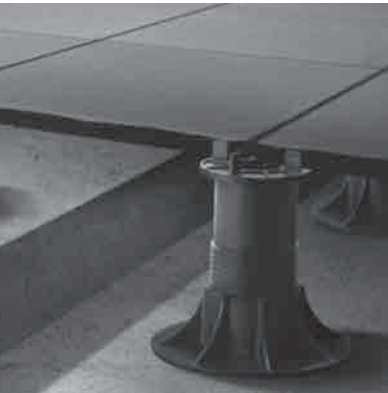
### Installation steps

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

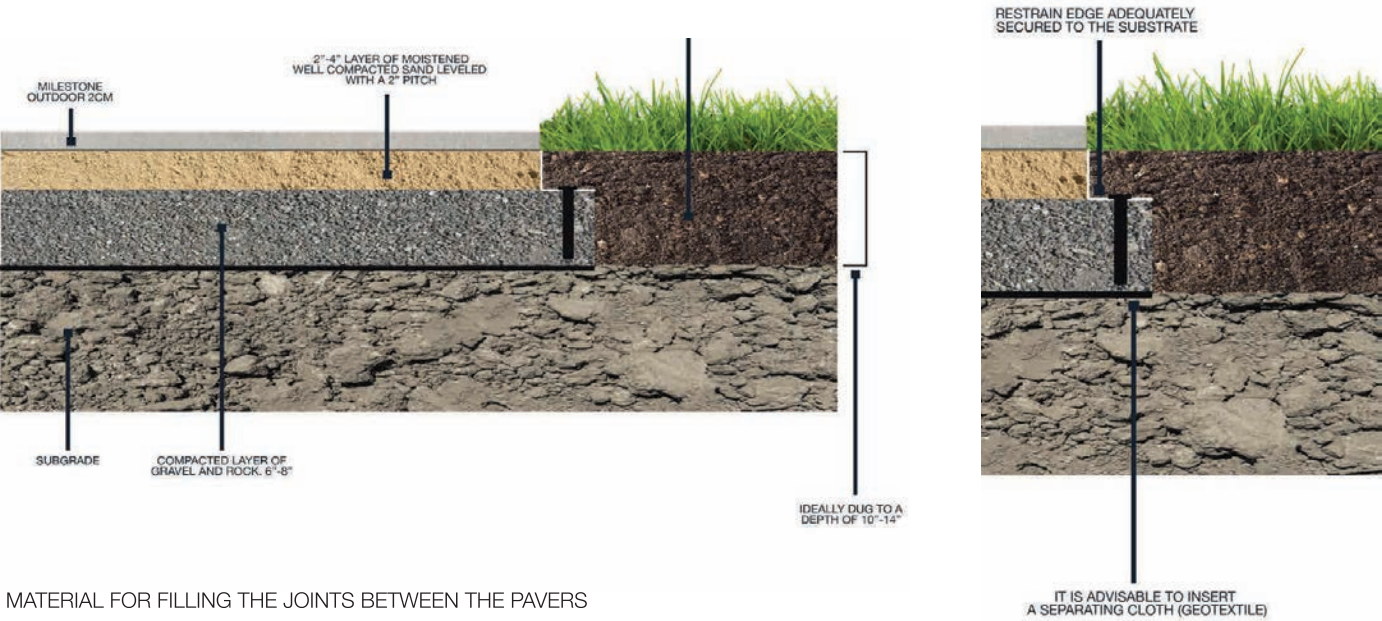
- It is possible to cut the material in both damp or dry conditions.
- It is essential to use ONLY approved cutting wheels (continuous edge) for porcelain stoneware.
- To make holes in the slabs, use diamond drill bits for porcelain stoneware.

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.



MATERIAL FOR FILLING THE JOINTS BETWEEN THE PAVERS

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.

	SPECS	TEST METHOD	REFERENCE VALUE	DECLARED VALUE
	Static coefficient of friction	ASTM - C 1028	> 0.60 dry and wet	> 0.60 dry and wet
	Dynamic coefficient of friction (section 9.6 ANSI A 137.1 2012)	DCOF Acutest	> 0.42 wet	> 0.42 wet
	Resistance to freeze	ASTM - C 1026	required	Resistant
	Frost resistance	ISO - 10545-12	As reported	Resistant
	Chemical resistance	ASTM - C 650	As reported	Not affected
	Resistance to domestic chemicals and additives for swimming pools	ISO - 10545-13	UB minimum	UA
	Resistance to low concentrations of acids and alkali	ISO - 10545-14	See manufacturer's declaration	ULA
	Resistance to high concentrations of acids and alkali	ISO - 10545-15	See manufacturer's declaration	UHA
	Resistance to staining	ASTM - C 1378	As reported	Not affected
		ISO - 10545-14	-	4
	Maximum straightness deviation, in %, in relation to the corresponding production dimensions	ASTM - C 485	±0.75% (±1.8 mm)	±10%
		ISO - 10545-2	±0,5% (±1,5 mm)	±10%
	Admitted deviation, in %, of the average thickness of each tile from the production dimensions	ASTM - C 499	± 1.2 mm	±0.5%
		ISO - 10545-2	±0,5% (±0,5 mm)	±0.5%
	Length 7 width: admitted deviation, in % of the average	ASTM - C 499	±0.5 % (±2.0 mm)	± 0.15 %
	Amount of water absorbed, in percentage	ASTM - C 373	≤ 0.5%	≤ 0.5%
		ISO - 10545-3	≤ 0.5%	≤ 0.5%
	Breaking strength in N (thickness > = 7,5 mm)	ASTM - C 648	≥ 2500 LBF Average	≥ 3000 LBF Individual
		ISO - 10545-4	≥ 1300 Newton	> 13000
	Resistance to deep abrasion of unglazed tiles	ASTM - C 1243	< 175 mm 3	< 150
		ISO - 10545-6	< 175 mm 3	< 150
	Thermal shock resistance	ASTM - C 484	-	Meets the requirement
		ISO - 10545-9	-	Resistant



## DON'T WORRY SHOCK CONTROL® 2.0



porcelain  
tile

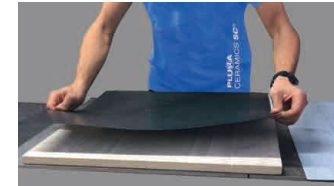
SHOCK  
CONTROL®  
protective  
layer

## SHOCK CONTROL® 2.0

THE ONLY PATENTED SYSTEM ABLE TO  
PASS THE DYNAMIC LOADING TEST FOR  
“HARD OBJECT IMPACT” WITH REFERENCE  
TO UNI EN 12825:2003 NORM.

### INSTALLATION

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.



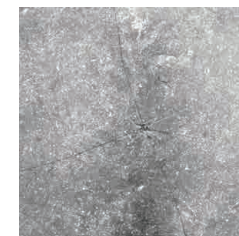
**4** The tile is immediately ready to be applied on pedestals for the realization of the exterior elevated floor.

### TEST

**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:

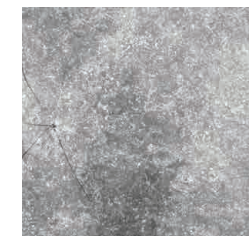
TEST PASSED	NO PORCELAIN FRAGMENT DETACHED FROM THE PANEL
Pic. 1,2	• DROP TEST IN THE MIDDLE OF THE PANEL
Pic. 3	• DROP TEST ON ONE SIDE OF THE PANEL
Pic. 4	• DROP TEST AT 7 cm ON DIAGONAL



**1**



**2**



**3**



**4**

### PRICE LIST

SHOCK CONTROL® (\$ / FT2)	2.92
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# 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 selvage 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

Technical Characteristics	Measure Units	Reference Norm	P			PA			Tolerance
Type of reinforcement			Single strand polyester						
Upper face finish			PE film			Mineral			
Lower face finish			Silicon release film						
Length	m	EN1848-1	15 ± 1%			10 ± 1%			
Width	m	EN1848-1	1 ± 1%						
Thickness	mm	EN1849-1	2	3	4				± 5%
Mass for unit area	kg/m2	EN1849-1				3,5	40	4,5	± 10%
Cold flexibility	°C	EN 1109	- 15			- 20			
Flow resistance	°C	EN 1110	100						
Tensile strength L / T	N / 5 cm	EN 12311-11	120/120	140/140		120/120	140/140		- 20%
Elongation at break L / T	%	EN 12311-11	35/35						-15
Tearing resistance	N								- 30%
Dimensional stability	%	EN 1107-1	-0,3						
Fire resistance		EN 13501-5	F ROOF						
Fire resistance		EN 13501-5	F						
Watertightness	kPa	EN 1928	60						
Pelage resistance on (steel) support	UEAtc 4.3.3 ASTM D 1000	N/50 mm	50						-20N
Pelage resistance on (steel) support after aged	UEAtc 4.3.3 ASTM D 1000	N/50 mm	30						-20N

PROGRESS THAT TOUCHES AND INVESTS IN THE ENTIRE SOCIETY

As a active member of the U.S Green Building Council, Milestone spreads awareness to the entire American communities and encourages towards the use of building solutions inspired by environmentally friendly practices. Using Milestone products for project implementation, will positively contribute in obtaining scores and points required for earning the LEED certification (Leadership in Energy and Environmental Design).

A COMMITMENT TO THE DEVELOPMENT OF PRODUCTS FOR A CONSCIOUS BUILDING TRADE

Milestone offers products containing recycled material. The adoption of eco-compatible production systems is merit of Italian designs produced in the U.S.

TECHNICAL DEVELOPMENT THAT CONSIDERS THE NATURAL ENVIRONMENT

Milestone commits to the eco-compatible project and translates the same into an avant-guard production process, minimizing the negative impact on the environment.

## 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

## SUGGESTED INSTALLATIONS

PEI Class

IV

**Moderate to heavy foot traffic**  
Recommended for all residential applications as well as medium commercial and light institutional applications.



certifications and accreditations



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.

CLEANING & MAINTENANCE