



INFINITE OPTIONS,
IN A WHOLE SPECTRUM OF
COLORS SET TO INJECT SPACES
WITH PERSONALITY.

OUTDOOR
COLLECTION

the surface EXPLORING

"R11 is a new collection of tiles that are inspired by nature and rustic elements. The tiles have an elegant and unique graphic design that gives a luxurious feel to any space. This collection is a good choice for people who want to bring a touch of the outdoors inside their homes while maintaining a modern and sophisticated look.





20MM THICKNESS

Extra-thick borcelain stoneware is the most suitable solution for both outdoor and indoor heavy-traffic floor coverings- such as vehicle spaces in a garage, where it is installed with adhesive- because it is resistant to loads and stresses, waterproof, stain resistant, resistant to chemicals and flame retardant, frostproof, resistant to thermal shock, atmospheric agents and light.

From an aesthetic point of view 20mm tiles offer great scope for customization thanks to collections dedicated to great tactile finishes of stone - and to the range of colours, which encompasses light and dark tones, warm and cold shades of grey, white, black, blue, beige, ivory, crema, brown and many more



Installation on
to gravel



Raised installation



Installation on
to grass



Installation on
to gravel

what is **R11 SURFACE**

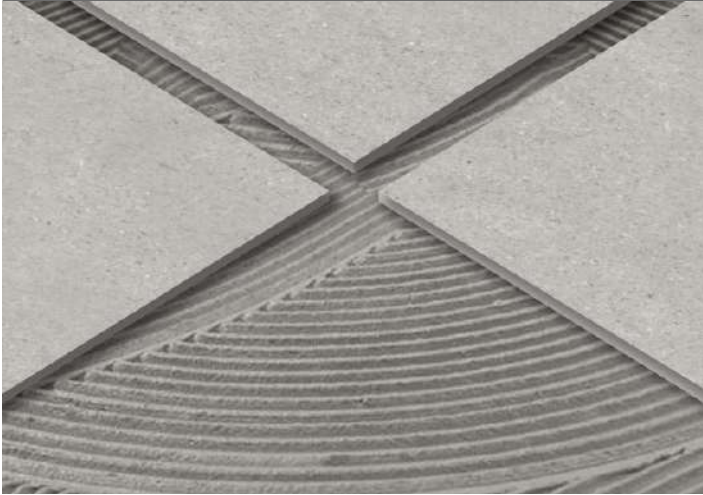
R-11, the Anti-skid surface is the result of increasing demand of porcelain tile for the high-performance environment due to its popularity in various uses and applications. Main candidates for R-11 surface are wet areas that are exposed to moisture and water, outdoor floorings, frequently used floors and high-traffic areas. the same design having multiple finishes throughout the spaces.

Installation Methods



Installation on grass

Dig out the grass and lay the tiles while maintaining a 4-5cm distance between each tile.



Traditional installation system

Traditionally install tile using adhesive and create stable flooring.



Installation on gravel

Install tiles on gravel using tile spaces and leave a gap of 5mm at joints for expansion.



Installation on sand

Create beautiful walkways by dry laying tiles on the sand with minimum effort.



Discover our **600x600mm Outdoor Anti-slip Tiles!** With a sturdy **20mm thickness**, they provide exceptional durability and safety. Perfect for patios, walkways, and pool areas, their textured surface ensures a slip-resistant grip. Enhance your outdoor space with style and safety today!



BODO GREY





exclusive
TILES

BODO GREY



Random
11



20mm
Thickness



600x
600mm



Anti **Sleep**&
R11 Surface

OUTDOOR
COLLECTION

BODO WHITE





exclusive
TILES

BODO WHITE



Random
11



20mm
Thickness



600x
600mm



Anti **Sleep** &
R11 Surface

OUTDOOR
COLLECTION

BRAZILIAN GREY





exclusive
TILES

BRAZILIAN GREY



Random
09



20mm
Thickness



600x
600mm

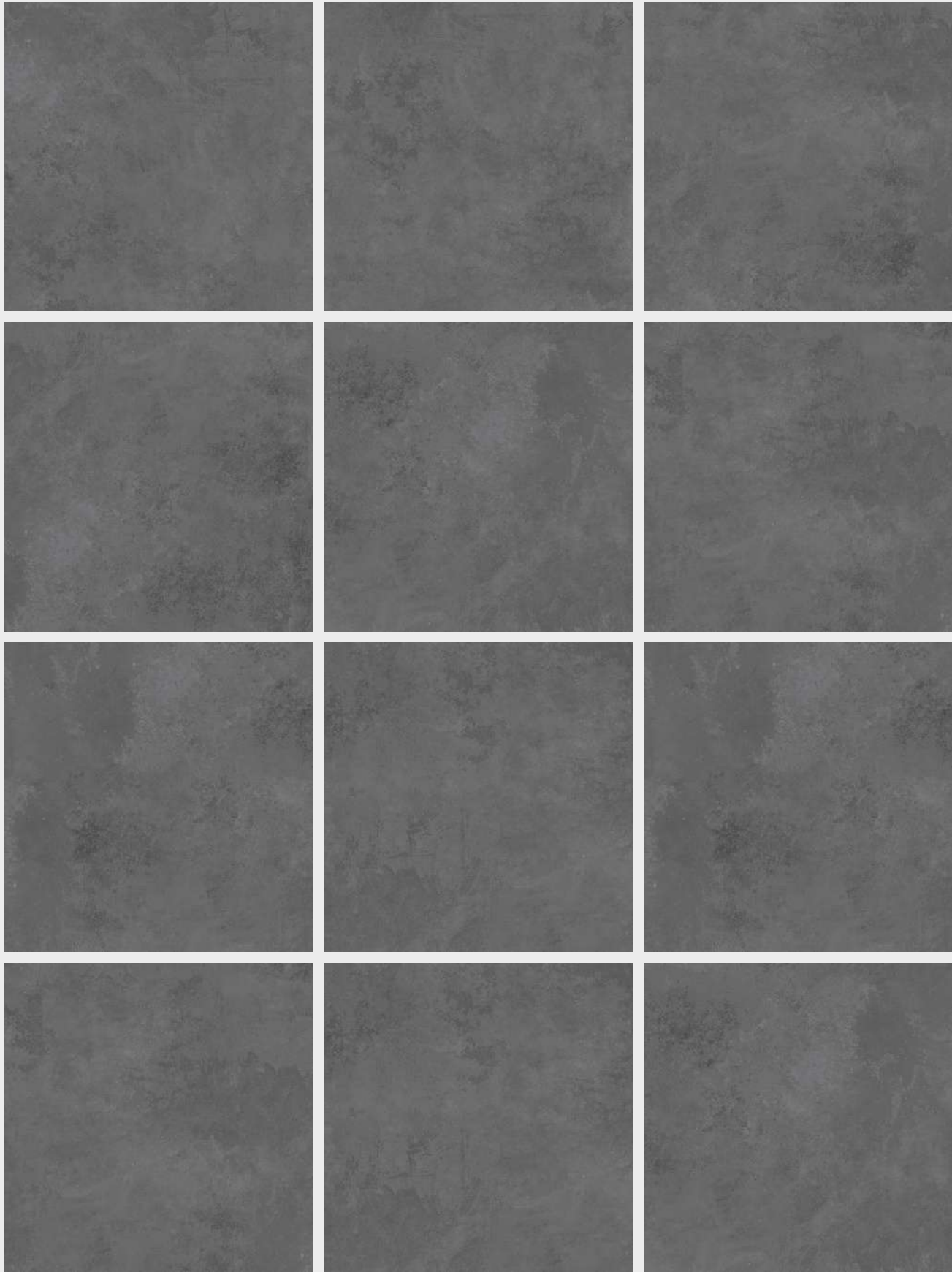


Anti **Sleep** &
R11 Surface

OUTDOOR
COLLECTION

CEMENTINO GREY





CEMENTINO GREY



Random
08



20mm
Thickness



600x
600mm



Anti **Sleep** &
R11 Surface

MOUNTAIN DARK GREY





exclusive
TILES

MOUNTAIN DARK GREY



Random
07



20mm
Thickness



600x
600mm



Anti **Sleep** &
R11 Surface

OUTDOOR
COLLECTION

MOUNTAIN GREY





exclusive
TILES

MOUNTAIN GREY



Random
07



20mm
Thickness



600x
600mm



Anti **Sleep** &
R11 Surface

OUTDOOR
COLLECTION

QUARTZ GREY





exclusive
TILES

QUARTZ GREY



Random
06



20mm
Thickness



600x
600mm

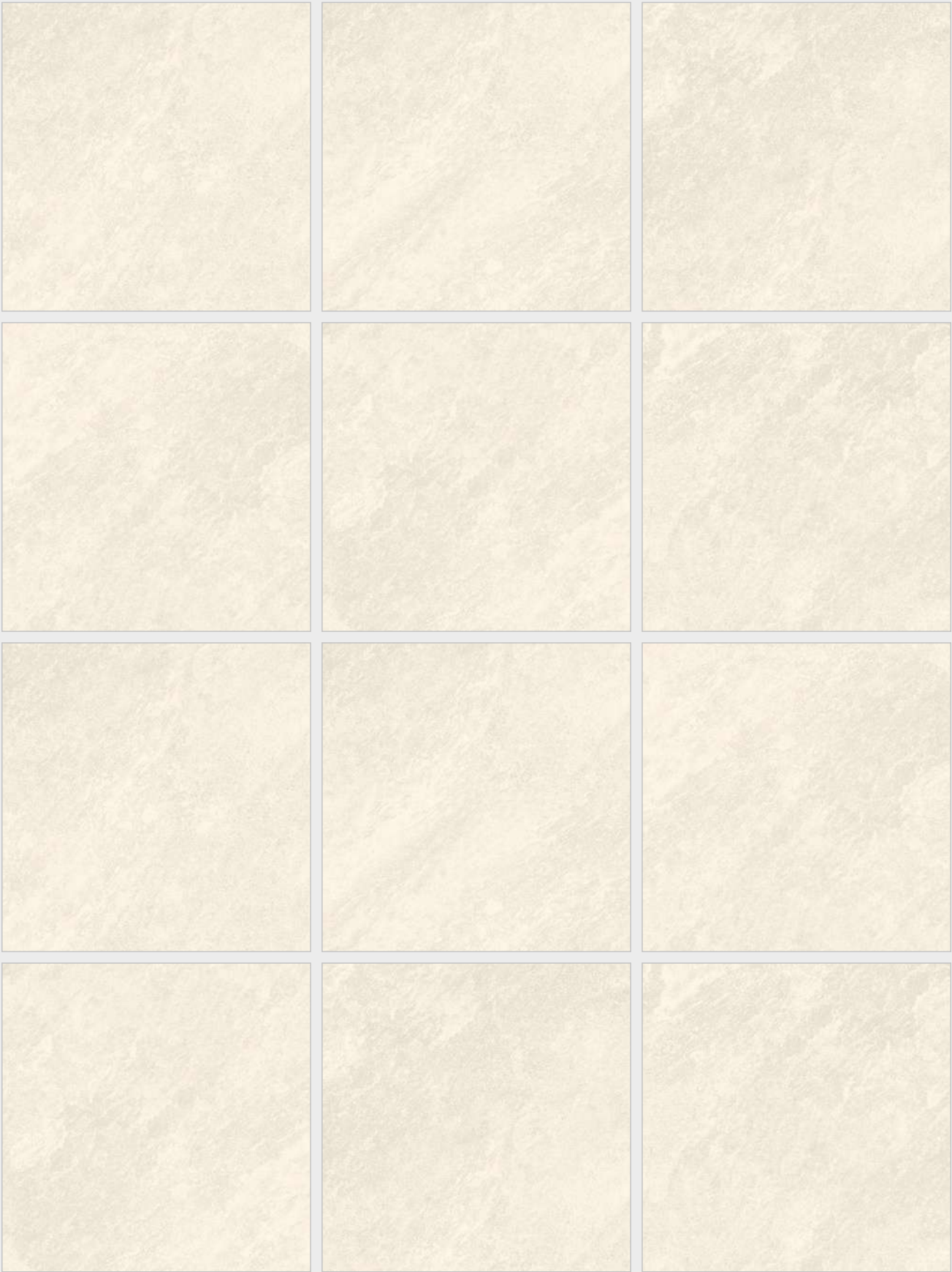


Anti **Sleep** &
R11 Surface

OUTDOOR
COLLECTION

QUARTZ WHITE





exclusive
TILES

QUARTZ WHITE



Random
06



20mm
Thickness



600x
600mm



Anti **Sleep** &
R11 Surface

OUTDOOR
COLLECTION

SONIC PORFIDO





exclusive
TILES

SONIC PORFIDO



Random
09



20mm
Thickness



600x
600mm



Anti **Sleep** &
R11 Surface

OUTDOOR
COLLECTION

SONIC SILK





exclusive
TILES

SONIC SILK



Random
09



20mm
Thickness



600x
600mm



Anti **Sleep** &
R11 Surface

OUTDOOR
COLLECTION

TECHNICAL CHARACTERISTICS

| Sr. No: | TEST CONDUCTED | TEST RESULT | TEST REQUIREMENTS AS PER IS 15622 : 2006 | REMARK |
|---------|---|--|---|--|
| 1 | Water absorption (% by mass) | Average : 0.17 | - | Based on the results of water absorption the tested tiles conformed to Gr. B Ib (0.08% ≤ 3%) of IS 15622 : 2006, Further test results were delivered as per requirements of Gr. B Ib |
| 2 | Modulus Of Rupture (MOR) N/mm² Span Length = 580 mm Average thickness of the tiles measured = 19.81 mm | Average : 39.0 N/MM² | (Gr. B Ia) Average 38 N/mm² Individual 35 N/mm² Minimum | Passed the test |
| 3 | Breaking Strength (N) Span Length = 580 mm Average thickness of the tiles measured = 19.81 mm | Average : 8090.0 N | (Gr. B Ia) For thickness > 7.5 mm ≥200 N minimum | Passed the test |
| 4 | Scratch Hardness Surface (Mohs' scale) | No. 7 | (Gr. B Ia) For commercial application 6 minimum, Home application 5 minimum | Passed the test |
| 5 | Thermal Shock Resistance | None of the tiles as tested showed any defects on surface at the end of the 10th cycle. | (Gr. B Ia) Tiles specimens should not show any visible defect when subjected to thermal shock resistance test as per test method IS 19630 : 2006 (Part 5) with Immersion | Passed the test |
| 6 | Bulk Density (gm/cc) | Average : 2.302 | IS 19630 (Part 2) : 2006 | |
| 7 | Co-efficient of Thermal Expansion from ambient Temperature to 100oC | L = 4.4956 (10⁻⁶ K⁻¹) B = 4.6683 (10⁻⁶ K⁻¹) | - | Passed the test |
| 8 | Straightness of Sides (facial sides) The maximum deviation from straightness in percent related to the corresponding work size | ± 0.05 % (Max) ± 0.08 % (Max) | (Gr. B Ia) S > 410 cm² ± 0.1 % | Passed the test |
| 9 | Rectangularity The maximum deviation from straightness in percent related to the corresponding work sizes | ± 0.10 % (Max) ± 0.10 % (Max) | ± 0.1 % | Passed the test |
| 10 | Surface Flatness The maximum deviation from flatness in percent | ± 0.17 % (Max) | ± 0.2 % | Passed the test |
| | (a) Centre of curvature related to diagonal calculated from work size. | + 0.10 % (Max) ± 0.14 % (Max) | ± 0.2 % | Passed the test |
| | (b) Edge of curvature related to the corresponding work size | ± 0.09 % (Max) ± 0.06 % (Max) | ± 0.2 % | Passed the test |
| | (c) Warpage related to the diagonal calculated from the Work Size | | | |
| 11 | Chemical resistance | | | |
| | Five test specimens were treated with following soins. (a) Centre of curvature related to diagonal calculated from work size. | ± 0.17 % (Max) | ± 0.2 % | Passed the test |
| | (b) Edge of curvature related to the corresponding work size | ± 0.10 % (Max) ± 0.14 % (Max) | ± 0.2 % | Passed the test |
| | (c) Warpage related to the diagonal calculated from the Work Size | ± 0.09 % (Max) ± 0.06 % (Max) | ± 0.2 % | Passed the test |
| | Five test specimens were treated with following soins. 1. Household Chemicals | | | |
| | a) Ammonium Chloride soln. (100 gm/l) | No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. | " Class - AA " min. | Conformed to "Class-AA" |
| | b) Standard cleaning Agent soln., (as per procedure) | No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. | " Class - AA " min. | Conformed to "Class-AA" |
| | 2. Swimming pool salts | | | |
| | a) Sodium Hypochlorite Soln. (20 mg /l) | No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. | " Class - AA " min. | Conformed to "Class-AA" |
| | b) Copper Sulphate Soln. (20 mg / l) | No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. | " Class - AA " min. | Conformed to "Class-AA" |
| | 3. Acids | | | |
| | a) Hydrochloric acid Soln. 3 % (v/v) | No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. | | Conformed to "Class-AA" |
| | b) Citric acid Soln. (200 mg / l) | No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. | | Conformed to "Class-AA" |
| | 4. Alkali | | | |
| | Potassium hydroxide soln., (200 mg / l) | No visual changes observed after immersion for 6 hrs., pencil lines removed with soft dry cloth. | | Conformed to "Class-AA" |

| | | | | |
|----|---|--|----------------------------|-----------------|
| 12 | Skid Resistance / Surface Slip Resistance (a) Condt Tile Surface was cleaned thoroughly by wet cloth followed by dry cloth and ensured that the surface is completely clean and dry the b) Direction of Test 1) Parallel to sides (4 Measurements) | Coefficient of friction μ 1) 0.83 2) 0.78 3) 0.77 4) 0.79 2) Diagonal to sides (4 Measurements) | As per ISO 10545 Part - 17 | - |
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| 13 | Moisture expansion in(mm / mtr.) | 0.00 | - | Passed the test |
| 14 | Skid Resistance/ Surface Slip Resistance BS EN Standard specification EN:14411 :2019 (Group B Ia) | | R-11 | R-11 |

PACKING DETAILS (OUTDOOR)

| SIZE | WEIGHT / BOX (KG) | PCS / BOX | BOXES / PALLATE | PALLATE / CTN | BOXES / CTN | MT2 / BOX | MT2 / PALLATE | MT2 / CTN | WEIGHT / CTN (KG) |
|------------------|-------------------|-----------|-----------------|---------------|-------------|-----------|---------------|-----------|-------------------|
| 600x600mm (20mm) | 32 | 2 | 32 | 26 | 832 | 0.72 | 23.04 | 599.04 | 27404 |

PACKING DETAILS (PATIOPACK)

| SIZE | PCS/ CRAT | MT2/ PCS | MT2/ CRAT (EACH SIZE) | IN KGS / CRAT | CRAT / CTN | MT2/ CTN | WEIGHT / CTN (Kg) |
|------------------|-----------|----------|-----------------------|---------------|------------|----------|-------------------|
| 600x600mm (20mm) | 18 | 0.36 | 6.48 | 270.00 | 29 | 610.74 | 27282 |