

Specifications

PACKING DETAILS

Size (cm)	Thickness (mm)	Tiles / Box	Sqm/Box	Boxes/Pallet	Sqm/Pallet	Approx. Weight / Box (Kg)	Approx. Weight / Pallet (Kg)
160x320	12	01	5.12	20	102.40	145	3000

TECHNICAL SPECIFICATIONS

CHARACTERISTIC	TEST METHOD	Our Value	STD. AS PER ISO13006:2012/ EN14411 Gr.BIa	STD. AS PER IS15622:2017 Gr.BIa
Regulatory Properties				
Deviation in length and width	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.10 %
Deviation in thickness	ISO 10545-2 & IS 13630-1	± 4.00 %	± 5.00 %	± 5.0 %
Straightness in side	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.10 %
Rectangularity	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.60 %	± 0.10%
Surface flatness Central Curvature	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.50 %
Surface flatness Edge Curvature	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.50 %
Surface flatness Warpage	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.50 %
Surface Quality	ISO 10545-2 & IS 13630-1	> 95% defects free	> 95% defects free	> 95% defects free
Small Color Difference	ISO 10545-16	No Change	Unaltered	N.A.
Glossiness (With Nano Polished)	Gloss Meter 60°	> 90° **	As per Mfg.	As per Mfg.
Glossiness (Without Polished)	Gloss Meter 60°	7° < Gloss < 14***	As per Mfg.	As per Mfg.
Glossiness (Satin Finished)	Gloss Meter 60°	15° < Gloss < 25***	As per Mfg.	As per Mfg.
Structural Properties				
Water absorption	ISO 10545-2 & IS 13630-3	≤ 0.50 %	≤ 0.50 %	≤ 0.80 %
Bulk density	DIN51082 & IS 13630-3	> 2.28 gm/cc	> 2.00 g/cc	Min. 2.20 g/cc
Massive Mechanical Properties				
Modulus of rupture	ISO 10545-4 & IS 13630-6	Min. 37.0 N/mm ²	Min. 35.0 N/mm ²	Min. 35.0 N/mm ²
Breaking strength thickness <7.5	ISO 10545-4 & IS 13630-6	Min. 1000.0 N	Min. 700.0 N	Min. 700.0 N
Breaking strength thickness ≥7.5	ISO 10545-4 & IS 13630-6	Min. 1600.0 N	Min. 1300.0 N	Min. 1100.0 N
Surface Mechanical Properties				
MOH'S hardness	EN 101 & IS 13630-13	Min. 4***	Min. 4	Min. 5
Surface abrasion resistance-Glossy #	ISO 10545-7 & IS 13630-11	Min. Class 2	As per Mfg.	Min. Class II
Surface abrasion resistance-Matt #	ISO 10545-7 & IS 13630-11	Min. Class 3	As per Mfg.	Min. Class II
Thermal Hydrometric Properties				
Moisture expansion	ISO 10545-10 & IS 13630-3	NIL	Max. 0.06	Max. 0.02
Thermal expansion(COE) at 100°C	ISO 10545-8 & IS 13630-4	Max. 6.0 x 10 ⁻⁶	As per Mfg.	Max. 7.0 x 10 ⁻⁶
Thermal shock resistance	ISO 10545-9 & IS 13630-5	Min. 10 Cycle	Min. 10 Cycle	Min. 10 Cycle
Crazing Resistance at 7.5 Bar	ISO10545-11 & IS 13630-9	Min. 6 Cycle	As per Mfg.	Min. 4 Cycle
Impact resistance(COR)	ISO 10545-5 & IS 13630-14	Min. 0.55	As per Mfg.	Min. 0.55
Frost resistance	ISO10545-12 & IS 13630-10	Frost Proof	As per Mfg.	As per Mfg.
Chemical Properties				
**Resistance to Staining Glazed	ISO 10545-14 & IS 13630-8	Min. Class 4 / Min. Class I	Min. Class 3	Min. Class I
**Resistance to Household Chemicals & Swimming Pool Salts Glazed	ISO 10545-13 & IS 13630-8	Min. Class GA / Min. Class AA	Min. Class GB	Min. Class AA
Resistance to Low / High Concentrate Acid and Alkalis Glazed	ISO 10545-13 & IS 13630-8	Min. Class GLB** / Min. Class A****	As per Mfg.	As per Mfg.
Safety Properties				
Skid resistance(DCOF-DRY)	ISO 10545-17	> 0.40	As per Mfg.	As per Mfg.
Slip resistance(DCOF)(R value)##	ISO 10545-17	N.A.	As per Mfg.	As per Mfg.
Determination of Lead & Cadmium Release for Glazed Tiles	ISO 10545-15	Dose not yield Pb & Cd	As per Mfg.	N.A.
Fire Resistance	N.A.	Fire Proof	As per Mfg.	As per Mfg.

Glaze tiles Intended for use on floor

As per customer requirement

** Glossiness 90% with nano technology

*** Without nano technology (Unpolished Vitrified tiles)

**** Except Hydrofluoric Acid & it's compound

- Colours in the catalogue are as accurate as printing process allows. Please check actual tile sample before making the final selection.
- Sizes mentioned in the catalogue are nominal sizes only.
- No claim will be entertained once the tiles are fixed.
- For better laying, please follow the instructions on the packaging box.
- In case it is required to lay the tiles on wall or floor in STAGGERED PATTERN, then always lay them in Overlap 20:80 ratio, as shown in VISUAL 1 instead of Brick pattern (overlap 50:50 ratio), as shown in VISUAL 2.

- Please make sure to check the shade/finish with the sales agent/dealer before making the final purchase because there might be variation in actual finish and that shown in the catalogue. The company will not bear any loss in such case.



VISUAL 1



VISUAL 2

