



GLAZED PORCELAIN TILES

DESIGN QUALIFYING REPORT

DIGITAL PRINTING SATIN MATT COLLECTION (MARBLE)

SIZE 600X600	CODE & NAME	18D.SM	Crema Marfil-Snow
		29D.SM	Crema Marfil-Mint Cream
		78D.SM	Crema Marfil-Khaki

FEATURES

DEMENTION & SURFACE QUALITY

	Description of the Test	Test Method	International Specification	Royal Porcelain Value
1	Length & Width (Average)	ISO 10545.2	Set by Manufacture	600 mmX600 mm (Squared)
	Deviation in Length & Width	ISO 10545.2	± 0.6 %	Max ± 0.10 %
2	Thickness (Average)	ISO 10545.2	Set by Manufacture	8.6 mm
	Deviation in Thickness	ISO 10545.2	± 10 %	Max ± 2.0 %
3	Straightness of Sides	ISO 10545.2	± 0.5 % (Max 2 mm)	0.2 % (Max) (1.0 mm)
4	Rectangularity	ISO 10545.2	± 0.6 % (Max 4 mm)	Rectified (Diagonal ±0.3mm)
5	Surface Flatness	ISO 10545.2	± 0.5 % (Max 2 mm)	0.3% (Max) (1.8 mm)
6	Surface Quality	ISO 10545.2	Min 95 %	Min 95 %

PHYSICAL PROPERTIES

7	Water Absorption by mass (Average)	ISO 10545.3	< 0.5 %	0.2 % (Max 0.3 %)
8	Modulus of Rupture	ISO 10545.4	> 35 N/mm ²	> 37.0 N/mm ²
9	Abrasive Resistance (Maximum)	ISO 10545.6	Set by Manufacture	Class IV (3000 revolutions)
10	Moh's Scale Hardness	EN 101	Set by Manufacture	6.0 – 7.0
11	Density	ISO 10545.3	> 2.0 g/cc	> 2.4 g/c
12	Colour Resistance to light	ISO 10545.16	Resistance	Resistance

THERMAL PROPERTIES

13	Thermal Expansion	ISO 10545.8	< 90.0 X 10 ⁻⁷ °C ⁻¹	74.0 X 10 ⁻⁷ °C ⁻¹
14	Moisture Expansion	ISO 10545.10	Nil	Nil
15	Resistance to Thermal Shock	ISO 10545.9	Min 10 Cycle	Resistant
16	Resistance to Crazing	ISO 10545.11	Min 4 Cycle	Resistant
17	Frost Resistance	ISO 10545.12	Resistance	Resistant

CHEMICAL PROPERTIES

18	Chemical Resistance	ISO 10545.13	Resistant	Resistant
19	Resistance to Stains	ISO 10545.14	Min Class III	Class V

RANDOMNESS & DISPLAY OF THE TILES

20	Display of Tiles	At least 4 tiles should be properly displayed to express random effect
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APPLICATIONS

Product features are with moderate abrasion resistance and moderate scratch hardness. As such, it is indicated for flooring commercial areas like hotels etc as well as for domestic use (living room, corridors etc). This is not suitable for wet areas (like open veranda etc) since the smooth surface may be slippery.

Prepared by:-	Manager - QA, R & D	Date	20-Jul-15
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