



GLAZED PORCELAIN TILES

DESIGN QUALIFYING REPORT

DIGITAL PRINTING SATIN MATT COLLECTION (MARBLE)

15J.MA

Synapsis Ice

61J.MA

Synapsis Gray Cement

23D.MA

Synapsis Rever Sand

86J.MA

Synapsis Almond

14K.MA









Synapsis Sea Shell

SIZE
600X600







CODE &
NAME

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:-
Revision No.

Manager - QA, R & D
2

Date
Date of Revision

20-Jul-15
1-Feb-17