



GLAZED PORCELAIN TILES

DESIGN QUALIFYING REPORT

DIGITAL PRINTING RUSTIC MATT COLLECTION (WOOD)

SIZE 450X900	CODE & NAME	M/2DH	TOSCANO ARCE
		M/7DH	TOSCANO NATURAL
		M/8DH	TOSCANO MIEL
		M/9DH	TOSCANO WENGE

FEATURES

This is reproduction of natural wood with value adding features of glazed porcelain tiles. The wide range of natural colour combinations are used to imitate the beauty of natural wood. The elegance of the natural wood is given by medium random decorations

DEMENTION & SURFACE QUALITY

	Description of the Test	Test Method	International Specification	Royal Porcelain Value
1	Length & Width (Average)	ISO 10545.2	Set by Manufacture	450 mmX900 mm (Squared)
	Deviation in Length & Width	ISO 10545.2	± 0.6 %	Max ± 0.05 %
2	Thickness (Average)	ISO 10545.2	Set by Manufacture	9.8 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)	0.2 % (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	> 40.0 N/mm ²
9	Abrasive Resistance (Maximum)	ISO 10545.7	Set by Manufacture	Class IV (3000revolutions)
10	Moh's Scale Hardness	EN 101	Set by Manufacture	7.0 – 7.5
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 Crazeing	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 high abrasion resistance and high scratch hardness. As such, it is indicated for flooring commercial areas (shops, hotels etc) as well as for domestic use (living room, corridors, veranda, car porch etc). Also it is suitable for wet areas (open veranda etc) since the matt surface is not slippery.

Prepared by:-	Manager - QA, R & D	Date	20-Feb-14
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