



GLAZED VITRIFIED TILES

DESIGN QUALIFYING REPORT

GLAZED VITRIFIED STONE COLLECTION

SIZE 800X1200	CODE & NAME	1FT.MA	ARENITE BEIGE
		2FT.MA	BIANCO DI SEGESTA
		6FT.MA	ARENITE GRAY
		6FY.MA	ARENITE BLACK

FEATURES

DIMENTION & SURFACE QUALITY

		Description of the Test	Test Method	International Specification	Royal Porcelain Value
1		Length & Width (Average)	ISO 10545.2	Set by Manufacture	800 mmX1200 mm (Squared)
		Deviation in Length & Width	ISO 10545.2	± 0.6 %	Max ± 0.30%
2		Thickness (Average)	ISO 10545.2	Set by Manufacture	10.0 mm
		Deviation in Thickness	ISO 10545.2	± 10 %	Max ± 3.0 %
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 % < E 3.0 %	2.5% (Max 3 %)
8		Modulus of Rupture	ISO 10545.4	> 27 N/mm ²	32.0 N/mm ²
9		Abrasive Resistance (Maximum)	ISO 10545.7	Set by Manufacture	Class IV(1500 revolutions)
10		Moh's Scale Hardness	EN 101	Set by Manufacture	6.0 – 7.0
11		Slipperiness	ISO 10545.17	Set by Manufacture	R ≈ 10 (μ ≈ 0.5)
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	Min Class B	Resistance
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 significant abrasion resistance with significant scratch hardness .Therefore it is suitable for flooring in semi traffic commercial areas like shops, verandas etc as well as for domestic use.

Prepared by:-	Manager - QA, R & D	Date	01 – September 2024
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