



# GLAZED CERAMIC TILES

## DESIGN QUALIFYING REPORT

### GLOSSY MARBLE COLLECTION

<b>SIZE</b> <b>600X300</b>	<b>CODE &amp; NAME</b>	<b>WALL TILE GLOSSY MARBLE COLLECTION</b>
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### 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 mmX300 mm (Squared)
		Deviation in Length & Width	ISO 10545.2	± 0.6 %	Max ± 0.2 %
2		Thickness (Average)	ISO 10545.2	Set by Manufacture	7.6 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	6 < E < 10 %	6 < E < 8 %
8		Modulus of Rupture	ISO 10545.4	> 16 N/mm <sup>2</sup>	> 22.0 N/mm <sup>2</sup>
9		Abrasive Resistance (Maximum)	ISO 10545.6	Set by Manufacture	Class II (600 revolutions)
10		Moh's Scale Hardness	EN 101	Set by Manufacture	4.0 – 4.5
11		Density	ISO 10545.3	> 2.0 g/cc	2.1 g/cc
12		Colour Resistance to light	ISO 10545.16	Resistance	Resistance

#### THERMAL PROPERTIES

13		Thermal Expansion	ISO 10545.8	< 90.0 X 10 <sup>-7</sup> °C <sup>-1</sup>	70.0 X 10 <sup>-7</sup> °C <sup>-1</sup>
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

Only for wall

Prepared by:-	Manager - QA, R & D	Date	1-Dec-19
Revision No.	0	Date of Revision	