



# GLAZED CERAMIC TILES

## DESIGN QUALIFYING REPORT

### DIGITAL PRINTING SATIN MATT COLLECTION (MARBLE)

<b>SIZE</b> <b>600X300</b>	<b>CODE &amp; NAME</b>	<b>11SM.SM</b>	<b>Carrara Curve</b>
		<b>12SM.SM</b>	<b>Pergasus White</b>
		<b>13SM.SM</b>	<b>Muzio Smoke</b>

### FEATURES

Natural stone with a soft range of colours in a plain surface, imitating the beauty of natural stone in different colours. The elegance of the stone 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	600 mmX300 mm (Squared)
	Deviation in Length & Width	ISO 10545.2	± 0.6 %	Max ± 0.20 %
2	Thickness (Average)	ISO 10545.2	Set by Manufacture	8.1 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	3.0 < E < 6.0 %	5.5 % (Max 6.0 %)
8	Modulus of Rupture	ISO 10545.4	> 22 N/mm <sup>2</sup>	> 27.0 N/mm <sup>2</sup>
9	Abrasive Resistance (Maximum)	ISO 10545.7	Set by Manufacture	Class III (1500 revolutions)
10	Moh's Scale Hardness	EN 101	Set by Manufacture	4.5 – 5.5
11	Density	ISO 10545.3	> 2.0 g/cc	2.2 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>	74.0 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

Product features are with good abrasion resistance and scratch hardness. As such, it is indicated for flooring in any domestic areas like living room, bed room, rooftop, balcony, corridor, passage etc.

Prepared by:- Revision No.	Manager - QA, R & D	Date Date of Revision	15-Dec-22
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