


**VITRIFIED GLAZED TILES**

FO/CA/04/01

**DESIGN QUALIFYING REPORT**
**DIGITAL PRINTING POLISH COLLECTION (MARBLE)**

<b>SIZE 600X600</b>	<b>CODE &amp; NAME</b>	<b>1/96D</b>	<b>Agra White</b>
		<b>1/82D</b>	<b>Kanis Beige</b>
		<b>1/84K</b>	<b>Grains Ivory</b>
		<b>1/19K</b>	<b>Grains White</b>
		<b>1/93B</b>	<b>Onix Golden</b>
		<b>1/95D</b>	<b>Juliette White</b>
		<b>1/12J</b>	<b>Calacatta White</b>
		<b>1/84C</b>	<b>Creama Marfil Bianco</b>

**FEATURES**

Polished marble with soft range of colours in plain surface, imitating the beauty of natural marble in range of colours. The elegance of the marble is given by medium random decoration

**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 ± 0.05 %
2	Thickness (Average)	ISO 10545.2	Set by Manufacture	10.8 mm
	Deviation in Thickness	ISO 10545.2	± 10 %	Max ± 1.0 %
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) (1.0 mm)
6	Surface Quality	ISO 10545.2	Min 95 %	Min 95 %

**PHYSICAL PROPERTIES**

7	Water Absorption by mass (Average)	ISO 10545.3	< 3 %	2.0% (Max 3.0 %)
8	Modulus of Rupture	ISO 10545.4	> 27 N/mm <sup>2</sup>	35.0 N/mm <sup>2</sup>
9	Abrasive Resistance (Maximum)	ISO 10545.6	Set by Manufacture	Class II (600revolutions)
10	Moh's Scale Hardness	EN 101	Set by Manufacture	4.0 – 5.0
11	Density	ISO 10545.3	> 2.0 g/cc	2.3 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 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 low abrasion resistance with medium scratch hardness. Therefore it is suitable for flooring in low traffic areas like living room, bed room etc. This is not suitable for the floor that has direct entrance from sand floor. Also it is not suitable for wet area since the smooth surface is highly slippery.

Prepared by:-	Manager - QA, R & D	Date	25-Oct-13
Revision No.	0	Date of Revision	