



CERAMIC GLAZED TILES

DESIGN QUALIFYING REPORT

DIGITAL PRINTING SATIN MATT COLLECTION

SIZE 400X400	CODE & NAME	6CM.SM	RUANDA BLACK
		7CM.SM	RUANDA GRAY
		8CM.SM	RUANDA BROWN
		9CM.SM	RUANDA WHITE

FEATURES

DEMENTION & SURFACE QUALITY

	Description of the Test	Test Method	International Specification	Royal Porcelain Value
1	Length & Width	ISO 10545.2	Set by Manufacture	H (400.7 - 402.1), S (399.3 - 400.7) & G (397.9-399.3)
	Deviation in Length & Width	ISO 10545.2	± 0.6 %	Max ± 0.4 %
2	Thickness (Average)	ISO 10545.2	Set by Manufacture	7.9 mm
	Deviation in Thickness	ISO 10545.2	± 10 %	Max ± 2.0 %
3	Straightness of Sides	ISO 10545.2	± 0.5 % (Max 2 mm)	0.3 % (Max) (1.2 mm)
4	Rectangularity	ISO 10545.2	± 0.6 % (Max 2.5 mm)	0.3 % (Max) (1.2 mm)
5	Surface Flatness	ISO 10545.2	± 0.5 % (Max 2 mm)	0.3 % (Max) (1.2 mm)
6	Surface Quality	ISO 10545.2	Min 95 %	Min 95 %

PHYSICAL PROPERTIES

7	Water Absorption by mass (Average)	ISO 10545.3	< 6 %	5.5 % (Max 6.0 %)
8	Modulus of Rupture	ISO 10545.4	> 22 N/mm ²	25.0 N/mm ²
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 ⁻⁷ °C ⁻¹	70.0 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

As the resistance to surface abrasion is low, and low resistance to scratch hardness, product is suitable for internal domestic flooring like bed room living room etc. Not suitable for exterior and can be slippery in wet conditions.

Prepared by:-
Revision No.

Manager - QA, R & D

Date
Date of Revision

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