

FULLY VITRIFIED HOMOGENEOUS PORCELAIN



DESIGN QUALIFYING REPORT

HOMOGENEOUS NICHE INSIGNIA SOLID-MATT COLLECTION

Size	Code	Finish	Name
600X600	RC.RSS.000111.MA.05	Matt	Solid - Sand
600X600	RC.RSS.000159.MA.05	Matt	Solid - Smoke
600X600	RC.RSS.000227.MA.05	Matt	Solid - Cream
600X600	RC.RSS.000153.MA.05	Matt	Solid - Dove White

FEATURES

DIMENSION & SURFACE QUALITY

		Description of the Test	Test Method	International Specification	Royal Ceramics Value
1		Length & Width (Average)	ISO 10545.2	Set by Manufacturer	R(600X600mm)
		Deviation in Length & Width	ISO 10545.2	± 0.3 %	±0.2mm
2		Thickness (Average)	ISO 10545.2	Set by Manufacturer	9.0mm
		Deviation in Thickness	ISO 10545.2	± 5 %	±0.3mm
3		Straightness of Sides	ISO 10545.2	± 0.5 % (Max 2 mm)	±0.8mm
4		Rectangularity	ISO 10545.2	± 0.6 % (Max 4 mm)	±1.5mm
5		Surface Flatness	ISO 10545.2	± 1.8 mm (Max)	±1.6mm
6		Surface Quality	ISO 10545.2	Min 95 %	Min 95 %

PHYSICAL PROPERTIES

7		Water Absorption by mass (Average)	ISO 10545.3	< 0.5 %	Maximum < 0.5 %
8		Modulus of Rupture	ISO 10545.4	> 35 N/mm ²	Minimum > 35 N/mm ²
9		Abrasion Resistance (Maximum)-Deep Abrasion	ISO 10545.6	Maximum 175mm ³	Maximum < 165mm ³
10		Moh's Scale Hardness	EN 101	Set by Manufacturer	7
11		Slipperiness	ISO 10545.17	Set by Manufacturer	R=10(PTV=35 Average in wet)
12		Colour Resistance to light	ISO 10545.16	Resistant	Resistant

THERMAL PROPERTIES

13		Thermal Expansion	ISO 10545.8	< 90.0 X 10 ⁻⁷ °C ⁻¹	< 65.0 X10 ⁻⁷ °C ⁻¹
14		Moisture Expansion	ISO 10545.10	Nil	N/D
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	Resistant	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 TILES

20		Display of Tiles	At least 4 tiles should be properly displayed.		
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APPLICATIONS

Product is Fully Vitrified Homogeneous porcelain with **high scratch hardness**. It is recommended to apply in **heavy traffic areas**. Cleaning and maintenance can be done with fresh water and household chemicals.

Certifications of Conformity



ISO 9001, ISO 13006, ISO 14001, ISO 45001



Prepared by:	Eng.Production	Date:	10/9/2023
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