

FULLY VITRIFIED HOMOGENEOUS PORCELAIN



DESIGN QUALIFYING REPORT

HOMOGENEOUS NICHE INSIGNIA SPECKLED-MATT COLLECTION

Size	Code	Finish	Name
600X600	RC.RSS.000764.MA.05	Matt	Speckled - Dove White
600X600	RC.RSS.000767.MA.05	Matt	Speckled - Smoke Grey
600X600	RC.RSS.000720.MA.05	Matt	Speckled - Light Grey
600X600	RC.RSS.000713.MA.05	Matt	Speckled - Charcoal

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 %	More than 95% of tiles are free from visible defects

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 <sup>2</sup>	Minimum > 35 N/mm <sup>2</sup>
9		Abrasion Resistance (Maximum)-Deep Abrasion	ISO 10545.6	Maximum 175mm <sup>3</sup>	Maximum < 165mm <sup>3</sup>
10		Moh's Scale Hardness	EN 101	Set by Manufacture	7
11		Slipperiness	ISO 10545.17	Set by Manufacture	R=10(PTV=35 Average)
12		Colour Resistance to light	ISO 10545.16	Resistant	Resistant

THERMAL PROPERTIES

13		Thermal Expansion	ISO 10545.8	< 90.0 X 10 <sup>-7</sup> °C <sup>-1</sup>	< 65.0 X10 <sup>-7</sup> °C <sup>-1</sup>
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



Green Building Council of Sri Lanka

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