

FULLY VITRIFIED HOMOGENEOUS PORCELAIN

DESIGN QUALIFYING REPORT

HOMOGENEOUS SOLID-SEMI GLOSSY COLLECTION



Size	Code	Finish	Name
600X600	RC.001.000107.SG.05	Semi-Glossy	Solid - Ivory
600X600	RC.001.000103.SG.05	Semi-Glossy	Solid - Brilliant White
600X600	RC.001.000634.SG.05	Semi-Glossy	Solid - Light Grey
600X600	RC.001.000429.SG.05	Semi-Glossy	Solid - Rosy White
600X600	RC.001.000508.SG.05	Semi-Glossy	Solid - Olive Green
600X600	RC.001.000202.SG.05	Semi-Glossy	Solid - Yellow
600X600	RC.001.000112.SG.05	Semi-Glossy	Solid - Off 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 %	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 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 Manufacture	6
11	Slipperiness	ISO 10545.17	Set by Manufacture	R=9(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 Crazeing	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 **medium scratch hardness**. It is recommended to apply in **medium 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:	24/10/2023
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