GLAZED VITRIFIED PORCELAIN

DESIGN QUALIFYING REPORT

ROLLER PRINTING PIACENTINA-MATT COLLECTION

Size	Code	Finish	Name
600X300	RC.0SC.0007G2.AM.0M	Matt	Piacentina - Natural Grey

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(600X300mm)
		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 (With respect to the 600mm side) ±0.9mm (With respect to the 300mm side)
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/mm2	Minimum > 35 N/mm2
9		Abrasion Resistance (Maximum)-Deep Abrasion	ISO 10545.6	Maximum 175mm3	Maximum < 165mm3
10		Moh's Scale Hardness	EN 101	Set by Manufacturer	6
11		Slipperiness	ISO 10545.17	Set by Manufacturer	R=10(PTV=30 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.

APPLICATIONS

Product is Glazed Vitrified 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

Green Building Council of Sri Lanka

Prepared by:	**Eng.Production**	**Date:**	**24/10/2023**
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