


























GLAZED VITRIFIED PORCELAIN				
DESIGN QUALIFYING REPORT				
DIGITAL PRINTING GRANITE - MATT COLLECTION				
Size	Code	Finish	Name	
600X600	RC.GRN.000148.MA.05	Matt	Granite - Light 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(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 (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 - Surface Abrasion	ISO 10545.7	Report abrasion class and cycles passed	Class III (750 Rev)
10	 Moh's Scale Hardness	EN 101	Set by Manufacturer	6
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 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 to express random effect		
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				
				
Prepared by:	Eng.Production	Date:	24/10/2023	
Revision No.	Manager - QA and R & D	Date of Revision:	11/11/2024	