


























FULLY VITRIFIED HOMOGENEOUS PORCELAIN				
DESIGN QUALIFYING REPORT				
HOMOGENEOUS SOLID-MATT COLLECTION				
Size	Code	Finish	Name	
600X300	RC.001.000107.EM.0M	Matt	Solid - Ivory	
600X300	RC.001.000634.EM.0M	Matt	Solid - Light Grey	
600X300	RC.001.000112.EM.0M	Matt	Solid - Off White	
600X300	RC.001.000611.EM.0M	Matt	Solid - Dark Black	
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/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.		
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:	24/10/2023	

Revision No.	Manager - QA and R & D	Date of Revision:	12/11/2024
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