


























GLAZED VITRIFIED PORCELAIN					
DESIGN QUALIFYING REPORT					
DIGITAL PRINTING MAUNA LOA - MATT COLLECTION					
Size	Code	Finish	Name		
600X600	RC.MLA.000411.MA.05	Matt	Mauna Loa - Graphite		
600X600	RC.MLA.000406.MA.05	Matt	Mauna Loa - Sand		
600X600	RC.MLA.000691.MA.05	Matt	Mauna Loa - Beige		
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 %	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=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 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:	22/11/2023		