

TECHNICAL SPECIFICATION

Nominal Size	: 600 x 1200 mm (Rectified)	Type of Product	: Glazed Porcelain Tiles
Thickness	: 8.0 – 8.5 mm	Nature of Surface	: Glazed (GL) Matt
Specification	: ISO 13006 Third Edition 2018-19 (Ceramic Tiles), EN14411:2016, IS 15622:2017		
Ref. Standard	: ISO 10545 with Latest Edition, IS 13630, CEN/TS 16165		

TEST DESCRIPTION	STANDARD TEST METHOD	STANDARD REQUIREMENTS	MEAN RESULTS
Length	ISO 10545-2	± 1.0 mm	± 0.29 mm
Width	ISO 10545-2	± 1.0 mm	± 0.25 mm
Thickness	ISO 10545-2	± 0.5 mm	± 0.21 mm
Straightness of Sides	ISO 10545-2	± 0.8 mm	± 0.15 mm
Rectangularity	ISO 10545-2	± 1.5 mm	± 0.18 mm
Surface Flatness: Center Curvature	ISO 10545-2	± 1.8 mm	± 0.32 mm
Surface Flatness: Edge Curvature	ISO 10545-2	± 1.8 mm	± 0.24 mm
Surface Flatness: Warpage	ISO 10545-2	± 1.8 mm	± 0.17 mm
Surface Quality (% Free from visual defect)	ISO 10545-2	95%	100%
Water Absorption	ISO 10545-3	< 0.5%	0.04%
Breaking Strength	ISO 10545-4	1300 N	1850 N
Modulus of Rupture	ISO 10545-4	35 N/ MM ²	41 N/ MM ²
Resistance to Surface Abrasion	ISO 10545-7	Manufacturer to state abrasion class	PEI Class 3
Coefficient of Liner Thermal Expansion	ISO 10545-8	Max: 8x10 ⁻⁶ °C ⁻¹	4x10 ⁻⁶ °C ⁻¹
Thermal Shock Resistance	ISO 10545-9	Min: 10 Cycles	Conforms
Crazing Resistance	ISO 10545-11	No crazing in 2 cycles	Conforms
Frost Resistance	ISO 10545-12	No visual defect	Conforms
Moisture Expansion	ISO 10545-10	Max: 0.6 mm/m	0.01mm/m
Impact Resistance – Coefficient of restitution (COR)	ISO 10545-5	Min: 0.55	0.79
Scratch Hardness of Surface (moh’s scale)	IS 13630 – 13	5 moh’s scale	Conforms
Slipperiness	CEN/TS 16165	Manufacturer to state abrasion class	34 PTV
Bulk Density (g/cc)	ISO 10545-3	Min: 2.2	Conforms
Resistance to stains	ISO 10545-14	Min: Class 3	Class 5
Resistance to household Chemicals & Swimming pool slats	ISO 10545-13	Minimum Class B(V)	Conforms
Resistance to low Concentrations Acids & Alkalis	ISO 10545-13	Minimum Class LB(V)	Conforms
Resistance to high Concentrations Acids & Alkalis	ISO 10545-13	Minimum Class HB(V)	Conforms
Lead and Cadmium Release	ISO 10545-15	0.8 mg/dm ² (Lead) 0.007 mg/dm ² (Cadmium)	Conforms