

Technical Specifications – Vitrified Tile (Porcelain Tiles)

No.	Technical Specifications	International Std. ISO 13006 / EN176 Group Bla	Vitrified Tile	Method of Testing
1	Deviation in Length & Width	±0.6%	±0.1%	ISO 10545-2
2	Deviation in thickness	±5%	±4%	ISO 10545-2
3	Straightness of sides	±0.5%	±0.1%	ISO 10545-2
4	Rectangularity	±0.6%	±0.2%	ISO 10545-2
5	Surface flatness	±0.5%	±0.2%	ISO 10545-2
6	Surface Quality	Min 95%	Min 95%	ISO 10545-2
7	Water Absorption	< 0.5%	< 0.05%	ISO 10545-3
8	Scratch hardness of surface (Moh's scale)	≥6	≥6	EN 101
9	Flexural Strength (Average MOR)	>35N/mm ²	>38N/mm ²	ISO 10545-4
10	Breaking Strength	>1300N	>1500N	ISO 10545-4
11	Resistance to deep Abrasion	<175mm ³	<144mm ³	ISO 10545-6
12	Skid Resistance (Friction coefficient)	>0.4	>0.4	ISO 10545-17
13	Bulk Density, in (g/cc)	>2	>2	DIN 51082
14	Linear Thermal Expansion	<9 x 10 ⁻⁶ K ⁻¹	<9 x 10 ⁻⁶ K ⁻¹	ISO 10545-8
15	Thermal shock Resistance	No damage	No damage	ISO 10545-9
16	Frost resistance	Frost proof	Frost proof	ISO 10545-12
17	Resistance to Chemicals	Resistant	Resistant	ISO 10545-13
18	Colour resistance to UV light	Resistant	Resistant	DIN 51094
19	Moisture expansion	Nil	Nil	ISO 10545-10