



Technical Specifications

S. No.	Technical Characteristics	ISO Test Method	Requirements as per ISO 13006 (Group B1a)	Our Existing Specs.
1.	Deviation in Length and Width	ISO 10545 - 2	± 0.6%	± 0.1%
2.	Deviation in Thickness	ISO 10545 - 2	± 5%	± 2%
3.	Deviation Straightness of Side	ISO 10545 - 2	± 0.5%	± 0.1%
4.	Deviation Rectangularity	ISO 10545 - 2	± 0.5%	± 0.1%
5.	Deviation Surface Flatness	ISO 10545 - 2	± 0.5%	± 0.1%
6.	Surface Quality	ISO 10545 - 2	95% of the tiles shall be free from visible defects	No visible defects
7.	Modulus of Rupture	ISO 10545 - 4	≥ 35 N/mm ²	> 40 N/mm ²
8.	Breaking Strength	ISO 10545 - 4	≥ 1300 N	≥ 2200 N
9.	Water Absorption	ISO 10545 - 3	≤ 0.5% ind. max. 0.6%	≤ 0.05%
10.	Density	ISI 3630 - 2	2.2 gm/cc. min.	> 2.25 gm/cc
11.	Abrasion Resistance	ISO 10545 - 6	max. 175 mm ³	< 145 mm ³
12.	Stain Resistance	ISO 10545 - 14	Test method available	Resistant
13.	Chemical Resistance	ISO 10545 - 13	Manufactured to state classification	No damage
14.	Thermal Expansion	ISO 10545 - 8	9 x 10 ⁻⁶ K ⁻¹ max.	< 6 x 10 ⁻⁶ K ⁻¹ max
15.	Moisture Expansion	ISO 10545 - 10	Test method available	Nil
16.	Scratch Hardness of Surface	ISI 3630 - 13	≥ 6	≥ 6

Vitero Tiles are being continuously tested to conform to international standards in our well equipped laboratory.