

TECHNICAL SPECIFICATIONS

S. No.	Technical Characteristics	ISO Test Method	Requirements as per ISO 13006 (Group B1a)	IS 15622:2006 Requirement	Our exiting Specs.	Recommended value
1.	Deviation in Length and Width	ISO 10545-2	± 0.6%	± 0.1%	± 0.05%	± 0.1%
2.	Deviation in Thickness	ISO 10545-2	± 5%	± 4%	± 3%	± 4%
3.	Deviation Straightness of sides	ISO 10545-2	± 0.5%	± 0.1%	± 0.05%	± 0.1%
4.	Deviation Rectangularity	ISO 10545-2	± 0.5%	± 0.1%	± 0.1%	± 0.1%
5.	Deviation Surface Flatness	ISO 10545-2	± 0.5%	± 0.2%	± 0.1%	± 0.15%
6.	Surface Quality	ISO 10545-2	95% of the tiles shall be free from visible defects	Min 95% free from visible defects	No visible defects	Min 98% free from visible defects
7.	Modulus of Rupture	ISO 10545-4	≥ 35 N/mm ²	Avg. 47 individual min.44	≥ 45 N/mm ²	Avg. 47 individual min.44
8.	Breaking Strength	ISO 10545-4	≥ 1300N	1500 N, Min.	≥ 2200 N	≥ 2200 N
9.	Water Absorption	ISO 10545-3	≤ 0.5% ind. max. 0.6%	≤ 0.08% ind. max. 1%	≤ 0.05%	≤ 0.05% ind. max. 0.08%
10.	Density	IS 13630-2	2.2gm/cc, min	2.2gm/cc, min	> 2.4 gm/cc	> 2.25 gm/cc
11.	Abrasion Resistance	ISO 10545-6	max.175mm ³	100, max	< 144mm ³	< 144mm ³
12.	Stain Resistance	ISO 10545-14	Test method available	Resistant	Resistant	Resistant
13.	Chemical Resistance	ISO 10545-13	Manufactured to state classification	Required	No damage	No damage
14.	Thermal Expansion	ISO 10545-8	9×10 ⁻⁶ K ⁻¹ max	6×10 ⁻⁶ K ⁻¹ max	6×10 ⁻⁶ K ⁻¹ max	6×10 ⁻⁶ K ⁻¹ max
15.	Moisture Expansion	ISO 10545-10	Test method available	NM	Nil	Nil
16.	Thermal Shock Resistance	ISO 10545-9	Test method available	10 cycles, min.	10 cycles, min.	10 cycles, min.
17.	Frost Resistance	ISO 10545-12	Required	Required	Frost Proof	Frost Proof
18.	Scratch Hardness of Surface (moh's scale)	IS 13630-13	≥ 6	6, min.	≥ 7	≥ 6

* Vitrified tiles have resistance to most of the stains / chemicals but it is recommended to take due care while laying and for day to day maintenance.

PACKING DETAILS

Size (mm)	No. of tiles per box	Coverage area per box
600x600 mm	4 Pcs.	1.44 Sq. Mtr.
800x800 mm	3 Pcs.	1.92 Sq. Mtr.
800x1200	2 Pcs.	1.92 Sq. Mtr.

The reproduction of tiles in this catalogue is restricted to four colour printing only and tiles are not relative sizes. Conforming to ISO requirements, technical specifications for Kajaria tiles are applicable only for 1st quality tiles. Please inspect all tiles prior to installation; company will not entertain complaints, once tiles are laid / fixed. Price category & PEI grade may change without any notice. Customers are advised to confirm it before placing order.