

TECHNICAL SPECIFICATIONS Glazed Vitrified Tiles



Packing Details					
Size (In mm.)	No. of Tiles Per Carton	Covered Area Per Carton		No. of Box Per Layer	No. of Layer Per Pallet
		(In Sq. Mtr.)	(In Sq. Ft.)		
600x1200 (DORA)	2	1.44	15.5	52	1
600x600 (DORA)	4	1.44	15.5	36	1

Group B Ia as per ISO 13006:2012 and Group B Ib as per IS 15622:2017

Characteristics	Test Methods	Requirement as per ISO 13006 ≤ 0.5 Group B Ia	Requirement as per IS 15622:2017 0.08<E ≤ 3% Group B Ib		OBL Norms				
			Unrectified	Rectified					
Dimension & Surface Quality	IS 13630 (Part 1):2006		Unrectified	Rectified					
Deviation in Length & Width						±0.6%	± 0.4%	± 0.1 %	± 0.1 %
Deviation in Thickness						±5%	± 5.0 %		± 4 %
Straightness of Sides						±0.5%	± 0.3 %	± 0.1 %	± 0.1 %
Rectangularity						±0.5%	± 0.3 %	± 0.1 %	± 0.1 %
Surface Flatness						±0.5%	± 0.5 %		± 0.2 %
Surface Quality						Min. 95 % tiles should be free from visible defects	Min. 95 % tiles should be free from visible defects		Conforms
Physical Properties									
Water Absorption	IS 13630 (Part 2):2006	Avg ≤ 0.5, Individual max, 0.6	Avg 0.08<E ≤ 3, Individual 3.3, Max		Avg ≤ 0.08%				
Modulus of Rupture in [N/mm ²]	IS 13630 (Part 6):2006	Minimum 35, Individual 32, Min	Avg 30, Individual 27, Min		Avg 38 Min, Individual 35, Min				
Breaking Strength in N	IS 13630 (Part 6):2006	< 7.5 mm thickness: 700, Min ≥ 7.5 mm thickness: 1300, Min	< 7.5 mm thickness: 700, Min ≥ 7.5 mm thickness: 1100, Min		1500, Min				
Moisture Expansion in mm/m	IS 13630 (Part 3):2006	Declare Value	0.02, Max		< 0.02				
Scratch Hardness of Surface (Moh's Scale)	IS 13630 (Part 13):2006	NA	5, Min		5 to 8 Depending on Design/Surface				
Resistance to Surface Abrasion of Glazed Tiles (Class I to V)	IS 13630 (Part 11):2006	Test Method Available	Class II, Min		Class-III to Class-V Depending as per Design / Surface				
Co-efficient of Linear Thermal Expansion from Ambient Temperature to 100°C	IS 13630 (Part 4):2006	Test Method Available	7x10 ⁻⁶ K ⁻¹ , Max		Conforms				
Thermal Shock Resistance	IS 13630 (Part 5):2006	Test Method Available	10 cycles, Min		Passed				
Crazing Resistance	IS 13630 (Part 9):2006	Test Method Available	4 Cycles@7.5 bar, Min		4 Cycle @ 7.5 Bar Min				
Frost Resistance	IS 13630 (Part 10):2006	Required	Required		Resistance				
Bulk Density, in (g/cc)	IS 13630 (Part 12):2006	NA	2.0, Min		> 2.1				
Impact Resistance- Coefficient of Restitution	IS 13630 (Part 14):2006	Manufacturer to State	0.55, Min		0.7-0.85				
Chemical Properties									
Resistance to Staining of Glazed Tiles	IS 13630 (Part 8):2006	Min, Class 3	Class I, Min		Conforms				
Resistance to Household Chemicals		Min, GA	Class AA, Min		Conforms				
Resistance to Acids and Alkalis (with exception of hydrofluoric acid and its compounds)		Test Method Available	Required, if agreed		Conforms				