

GLAZED VITRIFIED TILES TECHNICAL SPECIFICATION

600x600mm | 600x1200mm | 800x800mm | 800X1600mm | 1200X1800mm



SR. CHARACTERISTIC	REQUIREMENT ISO-13006:2018 Gr Bla E < 0.5%	REQUIREMENT IS 15622:2017 Gr Bla E < 0.8%	MEGA TILE VALUE	TESTING METHOD
(A) DIMENSION & SURFACE QUALITY				
1 Deviation in length & width	± 0.3%.	± 0.1%.	± 0.1%.	ISO 10545 Part-2 IS 13630 Part-1
2 Deviation in thickness	± 5.0%.	± 5.0%.	± 0.3%.	ISO 10545 Part-2 IS 13630 Part-1
3 Straightness in side	± 0.3%,	± 0.1%,	± 0.1%,	ISO 10545 Part-2 IS 13630 Part-1
4 Rectangularity	± 0.3%,	± 0.1%,	± 0.1%,	ISO 10545 Part-2 IS 13630 Part-1
5 Surface flatness	± 0.4%,	± 0.5%,	± 0.2%,	ISO 10545 Part-2 IS 13630 Part-1
6 Surface Quality	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Min. 95% of Tiles shall be free from visible defects that would impair the appearance of a major area of the tiles	Glossmeter
7 Glossiness	-	-	> 85	

(B) PHYSICAL & TERMAL PROPERTIES

1 Water Absorption % By Wt.	≤ 0.5, Ind. 0.6 Max.	≤ 0.08, Ind. 0.1 Max.	< 0.08%	ISO 10545 Part-3 IS 13630 Part-2
2 Flexural Strength (MOR) In N/mm ²	Avr. 35, Ind. Min. 32	Avr. 35, Ind. Min. 32	Min. 40 N/mm ²	ISO 10545 Part-4 IS 13630 Part-6
3 Breaking Strength in N	1300 N Min.	1300 N Min.	Min. 1300N	ISO 10545 Part-4 IS 13630 Part-6
4 Bulk Density (gm/cc)	2.0 Min.	2.2 Min.	Min. 2.25	ISO 10545 Part-3 IS 13630 Part-2
5 Impact Resistance	0.40	0.55	0.55	ISO 10545 Part-5 IS 13630 Part-14
6 Resistance to Surface Abrasion	Manufacturer to State Class	PEI II Min.	PEI II Min.	ISO 10545 Part-7 IS 13630 Part-11
7 Co-efficient of Linear Thermal Expansion from ambient temp to 100°C (K ⁻¹)	9×10 ⁻⁶ Max.	6×10 ⁻⁶ Max.	≤ 6×10 ⁻⁶	ISO 10545 Part-8 IS 13630 Part-4

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8	Thermal Shock Resistance	10 Cycles Min.	10 Cycles Min.	No Damage after 10 Cycles	ISO 10545 Part-9 IS 13630 Part-5
9	Moisture Expansion in mm/M	Test Method Available	0.02 Max.	Nil	ISO 10545 Part-10 IS 13630 Part-3
10	Crazing Resistance	Required	4 Cycles at 7.5 bar Min.	Resistance	ISO 10545 Part-11 IS 13630 Part-9
11	Frost Resistance	Resistance	Resistance	Resistance	ISO 10545 Part-12 IS 13630 Part-10
12	Moh'S Scratch Hardness	Min. 5	Min. 5	Min. 5	EN 101 IS 13630 Part-13

(C) CHEMICAL PROPERTIES

1	Resistance To House hold Chemicals	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8
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