

# TECHNICAL SPECIFICATIONS

## Full Body Vitrified Tiles (Plain & Rock Finish)

Packing Details			
Size (In mm.)	No. of Tiles Per Carton	Covered Area Per Carton	
		( In Sq. Mtr. )	( In Sq. Ft. )
600X600 mm (SKD)	4	1.44	1.5.50

As per Indian Standard (IS 15622:2017) Group B Ia			
Characteristics	Standard Test Method	IS 15622 Requirements	OBL Norms
<b>Dimension &amp; Surface Quality</b>			
Deviation in Size (length & Width)	IS 13630 Part 1	± 0.1 %	± 0.1 % (Max)
Deviation in thickness		± 5.0 %	± 3.0 % (Max)
Straightness of sides		± 0.1 %	± 0.1 % (Max)
Rectangularity		± 0.1 %	± 0.1 % (Max)
Surface Flatness		± 0.5 %	± 0.2 % (Max) ☺☺
Surface Quality		Min 95% of the tiles shall be free from visible defects that would impair the appearance of a major area of the tile	Min. 95%
<b>Physical Properties</b>			
Water absorption %	IS 13630 Part 2	Average ≤0.08%, individual 0.10% Max.	Average ≤0.08% ☺
Modulus of rupture N/mm <sup>2</sup>	IS 13630 Part 6	Average 35, individual 32 Min.	Min 43 N/mm <sup>2</sup> ☺☺
Breaking Strength N	IS 13630 Part 6	700 Min for thickness <7.5mm, 1300 Minimum for Thickness ≥7.5 mm	Min 1600 N ☺☺
Moisture Expansion	IS 13630 Part 3	0.02 Max	Conforms
Scratch hardness (Moh's Scale)	IS 13630 Part 13	5 Min	7 min ☺☺
Resistance to surface abrasion of glaze tiles Class I to V (Applicable for floor applications only)	IS 13630 Part 11	Min II	Class- V ☺
Linear thermal expansion Co-efficient	IS 13630 Part 4	6x10 <sup>-6</sup> max	6x10 <sup>-6</sup> max
Thermal Shock Resistance	IS 13630 Part 5	10 Cycle Min	Passed
Impact Resistance	IS 13630 Part 14	0.55, Min	0.75
Coefficient of Friction (Regular Plain Finish)	ISO 10545 Part 17	Manufacturer to declare value where required	PTV >40
Coefficient of Friction (Rock Finish)	ISO 10545 Part 17	Manufacturer to declare value where required	PTV >60
Frost Resistance	IS 13630 Part 10	Required if agreed to between manufacturer and purchaser	50 cycle passed
Resistance to deep abrasion of unglazed tiles	IS 13630 Part 12	140, Max	Not Applicable
Bulk density g/cc	IS 13630 Part 2	2.2, Min	2.2, Min
<b>Chemical Properties</b>			
Stain resistant Glazed tiles	IS:13630 Part 8	Class 1 Min	Class 1
Resistance to Household chemicals, Resistance to acids & alkalis (Except HF)	IS: 4457:2007	Resistant	No Visual Change