






TECHNICAL SPECIFICATIONS

GVT Step & Riser Tiles

Packing Details			
Size (In mm.)	No. of Tiles Per Carton	Covered Area Per Carton	
		(In Sq. Mtr.)	(In Sq. ft.)
300x1200 mm	4	1.44	15.5
200x1200 mm	4	0.96	10.33

Group B Ia as per ISO 13006:2012 and Group B Ib as per IS 15622:2017				
Characteristics	Test Methods	Requirement as per IS 15622:2017 0.08<E ≤ 3% Group B Ib		OBL Norms
		Unrectified	Rectified	
Dimension & Surface Quality	IS 13630 (Part 1)			
Deviation in size (Length & Width)		± 0.4 %	± 0.1 %	± 0.4 %
Deviation in Thickness		± 5.0 %		± 4.0 %
Straightness of Sides		± 0.3 %		± 0.1 %
Rectangularity		± 0.3 %		± 0.1 %
Surface Flatness (centre, edge, warpage)		± 0.5 %		± 0.2 % 
Surface Quality		Min. 95 % tiles shall be free from visible defects that would impair the appearance of a major area of the tile		Conforms
Physical Properties				
Water Absorption %	IS 13630 (Part 2)	Avg 0.08<E ≤ 3%, Individual 3.3 % Max		Avg < 0.5%
Modulus of Rupture in [N/mm ²]	IS 13630 (Part 6)	Min 30 N/mm ²		Min 40 N/mm ² 
Breaking Strength in N	IS 13630 (Part 6)	700 Min for thickness < 7.5 mm, 1100 Min for thickness ≥ 7.5 mm		Min 1500 N 
Moisture Expansion in mm/m	IS 13630 (Part 3)	0.02 Max		Max 0.02
Scratch Hardness of Surface (Moh's Scale)	IS 13630 (Part 13)	5 Min		Min 5
Resistance to Surface Abrasion of glazed tiles (Class I to V) (Applicable for floor applications only)	IS 13630 (Part 11)	Class II Min		Min Class III 
Linear Thermal expansion Co-efficient	IS 13630 (Part 4)	7x10 ⁻⁵ Max		Conforms
Thermal Shock Resistance	IS 13630 (Part 5)	10 cycles Min		Passed
Skid Resistance	DIN 51130	Manufacturer to declare value where required		>R9 
Crazing Resistance	IS 13630 (Part 9)	4 Cycles@7.5 bar, Min		4 Cycles@7.5 bar
Frost Resistance	IS 13630 (Part 10)	as per mfg.		Resistant
Impact resistance	IS 13630 (Part 14)	0.55, Min		Min 0.7
Bulk Density (g/cc)	IS 13630 (Part 2)	2.0, min		2.2, min
Chemical Properties	IS 13630 (Part 8)			
Resistance to staining of glazed tiles		Min. Class-1		Min. Class-1
Resistance to household chemicals		Class AA, Min		Min. Class-AA
Resistance to acid and alkalis (Except HF)		as per mfg.		Min. Class-AA