

Technical Specification

EXPERIENCE
HIGH ABRASION
RESISTANT TILES



CHARACTERISTICS	Requirement as per ISO 13006:2018 Gr BIIa 3.0 ≤ E ≤ 6.0%	Requirement as per IS 15622:2017 Gr BIIa 3.0 ≤ E ≤ 6.0%	AGL Value	Test Method
(A) DIMENSION & SURFACE QUALITY				
Deviation In Length & Width	± 0.3%, ± 1.0 mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
Deviation In Thickness	± 5.0%, ± 0.5 mm	± 5.0%	± 3.0%	ISO 10545 Part-2 IS 13630 Part-1
Straightness of Edge	± 0.3%, ± 0.8 mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
Rectangularity	± 0.3%, ± 1.5 mm	± 0.1%	± 0.1%	ISO 10545 Part-2 IS 13630 Part-1
Surface Flatness	± 0.4%, ± 1.8 mm	± 0.5%	± 0.2%	ISO 10545 Part-2 IS 13630 Part-1
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	ISO 10545 Part-2 IS 13630 Part-1
(B) PHYSICAL & THERMAL PROPERTIES				
Water Absorption % By Wt.	3.0 ≤ Eb ≤ 6.0. Ind. 6.5 Max.	3.0 ≤ Eb ≤ 6.0 Ind. 6.2 Max.	4.0-5.5%	ISO 10545 Part-3 IS 13630 Part-2
Flexural Strength (MOR) In N/mm ²	Avr. 22, Ind. Min. 20	Avr.22, Ind. Min. 20	≥ 27 N/mm ²	ISO 10545 Part-4 IS 13630 Part-6
Breaking Strength in N	1000 N Min.	1000 N Min.	> 1200 N	ISO 10545 Part-4 IS 13630 Part-6
Resistance to Surface Abrasion	Manufacturer to State Class	PEI II Min.	PEI III (Glossy) PEI IV & IV* (Matt)	ISO 10545 Part-7 IS 13630 Part-11
Co-efficient of Liner Thermal Expansion from ambient temp to 100°C (K-1)	9x10 ⁻⁶ Max.	9x10 ⁻⁶ Max.	≤ 9X10 ⁻⁶	ISO 10545 Part-8 IS 13630 Part-4
Thermal Shock Resistance	10 Cycles Min.	10 Cycles Min.	No Damage after 10 Cycles	ISO 10545 Part-9 IS 13630 Part-5
Moisture Expansion in mm/M	Test Method Available	0.03 Max.	Nil	ISO 10545 Part-10 IS 13630 Part-3
Cracking Resistance	Required	4 Cycles at 7.5 bar Min.	Resistance	ISO 10545 Part-11 IS 13630 Part-9
Frost Resistance	Resistance	Resistance	Resistance	ISO 10545 Part-12 IS 13630 Part-10
Moh'S Scratch Hardness	Min. 5	Min. 4	Min. 5	EN 101 IS 13630 Part-13
(C) CHEMICAL PROPERTIES				
Resistance To Household Chemicals	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8
Resistance To Acids & Alkalis (Except HF Acid)	No Damage	Min. Class AA	Class AA	ISO 10545 Part-13 IS 13630 Part-8
Stain Resistance	Min. Class 3	Min. Class 1	Class 1	ISO 10545 Part-14 IS 13630 Part-8

Packing Specification

Size (mm)	Thickness (mm)	Weight (Kg.)	No. of Tiles / Box	Area Sq. mtr./ Box
397x397mm	8.3 mm	13.4 kg.	05 pcs.	0.79m ²
600x600mm	10 mm	29 kg.	04 pcs.	1.44m ²

natural
Wooden Planks

Size (mm)	Thickness (mm)	Weight (Kg.)	No. of Tiles / Box	Area Sq. mtr./ Box
195x1000mm	10.0 mm	20.6 kgs.	05 pcs.	0.975m ²