

Characteristics	Indian Standard IS 15622:2017 Group B Ia & International Standard ISO:13006, Group B Ia		"Pavit Value" Rectified, Glazed & Unglazed Thickness 9.5,12,&15/16mm
	Test Method	Standard	
Dimensions and Surface Quality :			
Deviation length / width	IS-13630:1/ISO-10545:2	± 0.10% / ± 0.50%	± 0.10%
Thickness	IS-13630:1/ISO-10545:2	± 5.0%	± 4.50%
Straightness of sides	IS-13630:1/ISO-10545:2	± 0.10% / ± 0.50%	± 0.10%
Rectangularity	IS-13630:1/ISO-10545:2	± 0.10% / ± 0.50%	± 0.10%
Surface Flatness- Curvature & Warpage	IS-13630:1/ISO-10545:2	± 0.50%	± 0.30%
Surface Quality	IS-13630:1/ISO-10545:2	Min 95%of the tiles shall be free from visible defects	Min 95%of the tiles shall be free from visible defects
Physical Properties :			
Water Absorption	IS-13630:2/ISO-10545:3	Avg. ≤ 0.08%, Max.Ind.<0.10% Avg. ≤ 0.50%, Max.Ind.<0.60%	Avg.<0.50%, Individual<0.60%
Module Of Rupture-N/mm ²	IS-13630:6/ISO-10545:4	Avg.35, Individual 32, Min	≥ 38 N/mm ²
Breaking Strength-In N	IS-13630:6/ ISO-10545:4	>1300N	Thickness 9.5mm ≥ 1800N Thickness 12mm ≥ 3500N Thickness 15/16mm ≥ 6500N TAC Tiles 15mm ≥ 4200N
Moisture Expansion-mm/m	IS-13630:3/ISO-10545:10	0.02 Max	Nil
Scratch Hardness of Surface - Mohs scale	IS-13630:13	5 Min	5 to 7
Resistance to surface abrasion	IS-13630:11/ISO-10545:7	Class II Min	PEI- Class-III Confirmed
Coefficient of liner thermal expansion	IS-13630:4/ISO-10545:8	6x10 ⁻⁶ , Max	6x10 ⁻⁶ , Max
Thermal shock resistance	IS-13630:5/ISO-10545:9	10 Cycles, Min	10 Cycles confirmed
Crazing Resistance - Glazed	IS-13630:9/ISO-10545:11	4 Cycles at 7.5 bar	4 Cycles confirmed
Impact Resistance- COR	IS-13630:14/ISO-10545:5	0.55 Min	0.55 Min
Coefficient of friction	Manufacturer to declare	PTV 0.40 Min	PTV>0.40 Min
Frost Resistance	IS-13630:10/ ISO-10545:12	50 Cycles, if agreed to between manufacturer and purchaser	50 Cycles Confirmed
Resistance to Deep Abrasion of Unglazed -milimeter ³	IS-13630:12/ISO-10545:6	175, Max/140, Max	131 mm ³
Bulk density - g/cc	IS-13630:2	2.20, Min	2.28 g/cc
Chemical Properties :			
Resistance to staining (Class)	IS-13630:8/ISO-10545:14	Glazed - 1 /1 Unglazed - 3 /2	Glazed : Class : 1 Unglazed : Class : 2
Resistance to house hold chemicals and swimming pool water cleansers excepts to cleaning agents to contacting hydrofluoric acid & its compounds	IS-13630:8 & IS-13630:7 ISO-10545:13	Glazed - AA /GB Unglazed - A/UB	Glazed - Class : AA Unglazed - Class : A
Resistance to acids & alkalies (with the exceptions of hydrofluoric acid & its compounds)	IS-13630:8 & IS-13630:7 ISO-10545:13	Glazed - Class : A /A Unglazed - Class : A/B	Glazed - Class : A Unglazed - Class : A

* The declared results in this table are as per the PCPL lab from the particular batch. The values are indicative in nature and purchaser may ask for MTR of their supply. In such case charges for testing will be levied on the purchasing party.

** All these tests apply for overseas customers but may not be relevant in Indian context.