

# Technical specification

CHARACTERISTIC	TEST METHOD	MEAN VALUE OF ADICON	STD. AS PER ISO13006:2012/ EN14411 Gr.BIa	STD. AS PER IS15622:2017 Gr.BIa
<b>Regulatory Properties</b>				
Deviation in length and width	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.10 %
Deviation in thickness	ISO 10545-2 & IS 13630-1	± 4.00 %	± 5.00 %	± 5.0 %
Straightness in side	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.10 %
Rectangularity	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.60 %	± 0.10%
Surface flatness Central Curvature	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.50 %
Surface flatness Edge Curvature	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.50 %
Surface flatness Warpage	ISO 10545-2 & IS 13630-1	± 0.10 %	± 0.50 %	± 0.50 %
Surface Quality	ISO 10545-2 & IS 13630-1	> 95% defects free	> 95% defects free	> 95% defects free
Small Color Difference	ISO 10545-16	No Change	Unaltered	N.A.
Glossiness (With Nano Polished)	Gloss Meter 60°	> 90° **	As per Mfg.	As per Mfg.
Glossiness (Without Polished)	Gloss Meter 60°	7° < Gloss < 14°***	As per Mfg.	As per Mfg.
Glossiness (Satin Finished)	Gloss Meter 60°	15° < Gloss < 25°***	As per Mfg.	As per Mfg.
<b>Structural Properties</b>				
Water absorption	ISO 10545-2 & IS 13630-3	≤ 0.05 %	≤ 0.50 %	≤ 0.80 %
Bulk density	DIN51082 & IS 13630-3	> 2.28 gm/cc	> 2.00 g/cc	Min. 2.20 g/cc
<b>Massive Mechanical Properties</b>				
Modulus of rupture	ISO 10545-4 & IS 13630-6	Min. 37.0 N/mm <sup>2</sup>	Min. 35.0 N/mm <sup>2</sup>	Min. 35.0 N/mm <sup>2</sup>
Breaking strength thickness <7.5	ISO 10545-4 & IS 13630-6	Min. 1000.0 N	Min. 700.0 N	Min. 700.0 N
Breaking strength thickness ≥7.5	ISO 10545-4 & IS 13630-6	Min. 1600.0 N	Min. 1300.0 N	Min. 1100.0 N
<b>Surface Mechanical Properties</b>				
MOH'S hardness	EN 101 & IS 13630-13	Min. 4***	Min. 4	Min. 5
Surface abrasion resistance-Glossy #	ISO 10545-7 & IS 13630-11	Min. Class 2	As per Mfg.	Min. Class II
Surface abrasion resistance-Matt #	ISO 10545-7 & IS 13630-11	Min. Class 3	As per Mfg.	Min. Class II
<b>Thermal Hydrometric Properties</b>				
Moisture expansion	ISO 10545-10 & IS 13630-3	NIL	Max. 0.06	Max. 0.02
Thermal expansion(COE) at 100°C	ISO 10545-8 & IS 13630-4	Max. 6.0 x 10 <sup>-6</sup>	As per Mfg.	Max. 7.0 x 10 <sup>-6</sup>
Thermal shock resistance	ISO 10545-9 & IS 13630-5	Min. 10 Cycle	Min. 10 Cycle	Min. 10 Cycle
Crazing Resistance at 7.5 Bar	ISO10545-11 & IS 13630-9	Min. 6 Cycle	As per Mfg.	Min. 4 Cycle
Impact resistance(COR)	ISO 10545-5 & IS 13630-14	Min. 0.55	As per Mfg.	Min. 0.55
Frost resistance	ISO10545-12 & IS 13630-10	Frost Proof	As per Mfg.	As per Mfg.
<b>Chemical Properties</b>				
**Resistance to Staining Glazed	ISO 10545-14 & IS 13630-8	Min. Class 4 / Min. Class I	Min. Class 3	Min. Class I
**Resistance to Household Chemicals & Swimming Pool Salts Glazed	ISO 10545-13 & IS 13630-8	Min. Class GA / Min. Class AA	Min. Class GB	Min. Class AA
**Resistance to Low / High Concentrate Acid and Alkalis Glazed	ISO 10545-13 & IS 13630-8	Min. Class GLB**** / Min. Class A****	As per Mfg.	As per Mfg.
<b>Safety Properties</b>				
Skid resistance(DCOF-DRY)	ISO 10545-17	> 0.40	As per Mfg.	As per Mfg.
Slip resistance(DCOF)( R value )##	ISO 10545-17	As per surface	As per Mfg.	As per Mfg.
Determination of Lead & Cadmium	ISO 10545-15	Dose not yield Pb & Cd	As per Mfg.	N.A.
Release for Glazed Tiles				
Fire Resistance	N.A.	Fire Proof	As per Mfg.	As per Mfg.

# Glaze tiles Intended for use on floor

## As per customer requirement

\*\* Glossiness 90% with nano technology

\*\*\* Without nano technology (Unpolished Vitrified tiles)

\*\*\*\* Except Hydrofluoric Acid & it's compound

# Packing Detail

Size	Thickness	Pcs / Box	Coverage Area / Box	Weight / Box
800x2400mm	15mm	1 pc	1.92 m <sup>2</sup>	67.0 kg
800x3000mm	15mm	1 pc	2.40 m <sup>2</sup>	84.0 kg
800x3200mm	15mm	1 pc	2.56 m <sup>2</sup>	90.0 kg
1600x3200mm	6mm	1 pc	5.12 m <sup>2</sup>	72.0 kg
1600x3200mm	12mm	1 pc	5.12 m <sup>2</sup>	145.0 kg
1600x3200mm	15mm	1 pc	5.12 m <sup>2</sup>	178.0 kg
1600x3200mm	20mm	1 pc	5.12 m <sup>2</sup>	238.0 kg
1200x2400mm	6mm	1 pc	2.88 m <sup>2</sup>	40.0 kg
1200x2400mm	9mm	1 pc	2.88 m <sup>2</sup>	62.0 kg
1200x2400mm	15mm	1 pc	2.88 m <sup>2</sup>	102.0 kg
1200x2400mm	18mm	1 pc	2.88 m <sup>2</sup>	122.0 kg
1200x2600mm	6mm	1 pc	3.12 m <sup>2</sup>	40.0 kg
1200x2600mm	9mm	1 pc	3.12 m <sup>2</sup>	67.0 kg
1200x2800mm	6mm	1 pc	3.36 m <sup>2</sup>	47.0 kg
1200x2800mm	9mm	1 pc	3.36 m <sup>2</sup>	72.0 kg
1200x1800mm	9mm	2 pcs	4.32 m <sup>2</sup>	92.0 kg
1200x1800mm	15mm	1 pc	2.16 m <sup>2</sup>	77.0 kg
1200x1800mm	18mm	1 pc	2.16 m <sup>2</sup>	92.0 kg