

TECHNICAL SPECIFICATION

S. No	Characteristics	IS 15622:2017 Group Bla	ISO 13006:2018 Group Bla	EN 14411:2016 Group Bla	TEST METHOD	SUNHEARTVALUE
A DIMENSION & SURFACE QUALITY						
I	Length & Width	±0.1%	± 0.3%	± 0.6%	ISO 10545-2	± 0.1%
II	Thickness	± 5.0%	± 5.0%	± 5.0%		± 4%
III	Straightness of Side	±0.1%	± 0.3%	± 0.3%		± 0.1%
IV	Rectengularity	±0.1%	± 0.3%	± 0.3%		± 0.1%
V	Surface Flatness					
a	Center curvatuve (%)	± 0.5 %	± 0.4%	± 0.4%		± 0.2 %
b	Edge curvature (%)	± 0.5 %	± 0.4%	± 0.4%		± 0.2 %
c	Corner warpage (%)	± 0.5 %	± 0.4%	± 0.4%	± 0.2 %	
VI	Surface Quality	Min. 95 % of tiles will befree from visible defects	Min. 95 % of tiles will befree from visible defects	Min. 95 % of tiles will befree from visible defects		Min. 98 % of tiles will befree from visible defects
B PHYSICAL PROPERTIES						
I	Water Absorption	<0.08% Ind Max 0.1%	<0.5% Ind Max 0.6%	<0.5% Ind Max 0.6%	ISO 10545-3	<0.05%
II	Modulus of Rupture [N/mm ²]	Av 35, Individual 32 min	Av 35, Individual 32 min	Av 35, Individual 32 min	ISO 10545-4	>45
III	Breaking Strength in N	700 for < 7.5mm thickness 1300 for ≥ 7.5mm thickness	700 for £ 7.5mm thickness 1300 for > 7.5mm thickness	700 for< 7.5mm thickness 1300 for ≥ 7.5mm thickness	ISO 10545-4	>2000
IV	Moisture Expansion in mm/m	0.02	0.06% /0.6mm/m	0.06% /0.6mm/m	ISO 10545-10	Nil
V	Resistance to Abrasion of glazed tiles(Class I to V)	Min Class 2	Depending on surface (As reported)	Depending on surface (As reported)	ISO 10545-7	Min Class 3for PGVT
VI	Coefficient of linear thermal expansion from embiant temperature to 100 ° C	6 X 10 ⁻⁶ K ⁻¹			ISO 10545-8	6 X 10 ⁻⁶ K ⁻¹ max
VII	Thermal Shock Resistance	10 Cycle Passed	10 cycle min	10 cycle min	ISO 10545-9	10 cycle min
VIII	Crazing Resistance	4 cycle	2 Cycle (@ 5 bar))	2 Cycle (@ 5 bar))	ISO 10545-11	4 cycle passed
IX	Frost resistance	100 Cycle	Required	Required	ISO 10545-12	Passed
X	Impact Resistance	0.55	0.55	0.55	ISO 10545-5	0.75 (For Light Duty Installation)
XI	Bulk Density	2.2	Not A requirement	Not A requirement		2.2 gm/cc.min
C CHEMICAL PROPERTIES						
I	Stain Resistance	Min Class I	Min Class 3	Min Class 3	ISO 10545-14	Class 3
II	Resistance to household chemicals	Class AA	Min Class B	Min Class B	ISO 10545-13	Class A
III	Resistance to Acid and alkalies				ISO 10545-13	Class A

Note: Color shown in catalog may vary with the original tile. Slight shade & size variation is an inherent property of ceramic / Vitrified tiles