

TECHNICAL SPECIFICATION

GLAZED PORCELAIN TILE



	CHARACTERISTICS	ISO TEST METHODS	OUTDOOR TILE		INDOOR TILE - MATTE		INDOOR TILE - POLISHED	
			VITRIFIED TILES REQUIREMENT AS PER ISO 13006 Bla / EN176 Bla	TIEIC VALUE	VITRIFIED TILES REQUIREMENT AS PER ISO 13006 Bla / EN176 Bla	TIEIC VALUE	VITRIFIED TILES REQUIREMENT AS PER ISO 13006 Bla / EN176 Bla	TIEIC VALUE
A Regulatory Properties								
	Deviation in Length & Width	ISO 10545-2	+/- 0.6 %	+/- 0.1 %	+/- 0.6 %	+/- 0.1 %	+/- 0.6 %	+/- 0.1 %
	Deviation in Thickness	ISO 10545-2	+/- 5.0 %	+/- 3.5 %	+/- 5.0 %	+/- 5.0 %	+/- 5.0 %	+/- 5.0 %
	Straightness of sides	ISO 10545-2	+/- 0.5 %	+/- 0.08 %	+/- 0.5 %	+/- 0.1 %	+/- 0.5 %	+/- 0.1 %
	Rectangularity	ISO 10545-2	+/- 0.6 %	+/- 0.1 %	+/- 0.6 %	+/- 0.1 %	+/- 0.6 %	+/- 0.1 %
	Surface Flatness	ISO 10545-2	+/- 0.5 %	+/- 0.2 %	+/- 0.5 %	+/- 0.2 %	+/- 0.5 %	+/- 0.2 %
	Color Difference	ISO 10545-2	Unaltered	No Change	Unaltered	No Change	Unaltered	No Change
B Physical Properties								
	Water Absorption	ISO 10545-3	<=0.5 %	<=0.05 %	<=0.5 %	<=0.20 %	<=0.5 %	<=0.20 %
	Flexural Strength (MOR)	ISO 10545-4	>= 35 N mm ²	44	>= 35 N mm ²	>= 40 N mm ²	>= 35 N mm ²	>= 40 N mm ²
	Flexural Breaking Strength	ISO 10545-4	> 1300 N	8000 N	> 1300 N	> 1500 N	> 1300 N	> 1500 N
	Mohs Hardness	EN 101	>= 6	7	As per mfg	>= 5	As per mfg	>= 4
	Non Slip Classification	DIN 51130	R Value	R11	As per mfg	NA	As per mfg	NA
	Non Resistance Coefficient of Friction	ISO 10545-17	>= 0.4	>= 0.75	As per mfg	>= 0.4	As per mfg	>= 0.4
	Surface Abrasion Resistance	ISO 10545-7	Class	Min Class 5	As per mfg	Min Class 4	As per mfg	Min Class 3
C Chemical Properties								
	Stain Resistance	ISO 10545-14	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
	Chemical Resistance	ISO 10545-13	No Change	No Change	No Change	No Change	No Change	No Change
D Thermal Properties								
	Frost Resistance	ISO 10545-12	No Damage	No Damage	No Damage	No Damage	No Damage	No Damage
	Thermal Shock Resistance	ISO 10545-9	No Change	Passed	No Change	Passed	No Change	Passed
	Thermal Expansion	ISO 10545-8	9x10 ⁻⁶ Max	Passed	9x10 ⁻⁶ Max	6.5x10 ⁻⁶ Max	9x10 ⁻⁶ Max	6.5x10 ⁻⁶ Max
	Moisture Expansion	ISO 10545-10	Nil	Passed	Nil	Passed	Nil	Passed

