Technical Specifications

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 %	+/- 3.5 %	+/- 5.0 %	+/- 3.5 %
	Straightness of sides	ISO 10545-2	+/- 0.5 %	+/- 0.08 %	+/- 0.5 %	+/- 0.08 %	+/- 0.5 %	+/- 0.08 %
	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 %	<=0.05 %	<=0.5 %	<=0.05 %
	Flexural Strength (MOR)	ISO 10545-4	>= 35 N mm²	44	>= 35 N mm²	44	>= 35 N mm²	44
	Flexural Breaking Strength	ISO 10545-4	> 1300 N	8000 N	> 1300 N	1900 N	> 1300 N	1900 N
	Mohs Hardness	EN 101	> = 6	7	> = 6	7	> = 6	7
	Non Slip Classification	DIN 51130	R Value	R11	R Value	R9	R Value	NA
	Non Resistance Coeffiecient of Friction	ISO 10545-17	>= 0.4	>= 0.75	>= 0.4	>= 0.6	>= 0.4	NA
	Surface Abrasion Resistance	ISO 10545-7	Class	Min Class 5	Class	Min Class 4	Class	NA
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	Passed	$9x10^{-6}$ Max	Passed
	Moisture Expansion	ISO 10545-10	Nil	Passed	Nil	Passed	Nil	Passed