

# TECHNICAL SPECIFICATION

CERAMIC TILE



	CHARACTERISTICS	ISO TEST METHODS	30x90cm		30x60cm		30x45cm	
			ISO 13006/ EN 176 Group BIIa	TIEIC VALUE	ISO 13006 2018 Group BIII	TIEIC VALUE	IS 15622 Group BIII	TIEIC VALUE
<b>A Regulatory Properties</b>								
	Deviation in Length & Width	ISO 13006/ En176, IS15622	+/- 0.3 %	+/- 0.1 %	+/- 0.3 %	+/- 0.1 %	+/- 0.15 %	+/- 0.1 %
	Deviation in Thickness		+/- 5.0 %	+/- 1.0 %	+/- 5.0 %	+/- 1.0 %	+/- 5.0 %	+/- 2.0 %
	Straightness of sides		+/- 0.3 %	+/- 0.08 %	+/- 0.3 %	+/- 0.08 %	+/- 0.15 %	+/- 0.1 %
	Rectangularity		+/- 0.3 %	+/- 0.1 %	+/- 0.3 %	+/- 0.1 %	+/- 0.2 %	+/- 0.1 %
	Surface Flatness		+/- 0.4 %	+/- 0.2 %	+/- 0.4 %	+/- 0.2 %	+/- 95 %	+/- 98 %
	Color Difference		Unaltered	No Change	Unaltered	No Change	Unaltered	No Change
<b>B Physical Properties</b>								
	Water Absorption	ISO 13006/ En176, IS15622	>=10 %	18 %	>=10 %	14 %	>=10 %	16 %
	Flexural Strength (MOR)		>= 12 N/mm <sup>2</sup>	15.55 N/mm <sup>2</sup>	>= 12 N/mm <sup>2</sup>	15.8 N/mm <sup>2</sup>	>= 12/N mm <sup>2</sup>	18.8 N/mm <sup>2</sup>
	Breaking Strength		> 600 N	900 N	> 600 N	> 800 N	> 600 N	> 700 N
	Crazing Resistance		Min. 2 Cycle	4 Cycle Pass	Min. 2 Cycle	4 Cycle Pass	Min. 4 Cycle	4 Cycle Pass
<b>C Chemical Properties</b>								
	Stain Resistance	ISO 13006/ En176, IS15622	Min. Class 3	Class 5	Min. Class 3	Class 5	Min. Class 1	Class 1
	Chemical Resistance		Resistance to all alkalis (except HF & its compounds)	Pass	Resistance to all alkalis (except HF & its compounds)	Pass	Resistance to all alkalis (except HF & its compounds)	Pass
<b>D Thermal Properties</b>								
	Moisture Expansion	ISO 13006/ En176, IS15622	Max. 0.6 mm/m	0.1 mm/m	Max. 0.6 mm/m	0.1 mm/m	-	-
	Thermal Shock Resistance		10 Cycles Min.	10 Cycles Pass	10 Cycle Min.	10 Cycles Pass	10 Cycle Min.	10 Cycles Pass

