



Ref. _____

Date: _____

Technical Specification

Acid Proof Tile: 8" x 4" x 1" /1.5"

Category	Test Description	IS 4457:2007	1"	1.5"
Dimension Quality	Length & Width	±0.75%	±0.6%	±0.6%
	Thickness	±5%	±5%	±5%
	Straightness of sides	±0.5%	±0.4%	±0.4%
	Rectangularity	±0.6%	±0.5%	±0.5%
	Surface Flatness	±0.5%	±0.3%	±0.3%
Physical Properties	Water Absorption	< 0.5%	< 0.5%	< 0.5%
	Flexural Strength	> 35 N/mm ²	> 38 N/mm ²	> 38 N/mm ²
	Breaking Strength	> 1300 N	> 7500 N	> 9500 N
	Abrasion Resistance	< 175 mm ³	< 140 mm ³	< 140 mm ³
	Skid Resistance	> 0.4	> 0.6	> 0.6
	Moisture Expansion	Nil	Nil	Nil
Chemical Properties	Resistance to conc. Acid	< 1.5%	< 1%	< 1%
	Resistance to Household Chemicals & Pool Salts	Resistance	Resistance	Resistance
Thermal Properties	Thermal Expansion	< 9×10 ⁻⁶ K ⁻¹	< 9×10 ⁻⁶ K ⁻¹	< 9×10 ⁻⁶ K ⁻¹
	Thermal Shock Resistance	No Damage	No Damage	No Damage