











**Granular Series : Phoenix Tiles Products Technical Data Sheet Document**

<b>PHOENIX TILES LIMITED</b>				
Technical specification for GRANULAR Series - Full Body Porcelain				
Type of Test	International Norm	International Standard ( S > 410 cm <sup>2</sup> )	Phoenix Tiles Typical Standard (GRANULAR SERIES)	
 <b>Water Absorption</b>	ISO 10545-3	Group Bla, E ≤ 0.5%	≤ 0.35%	
 <b>Dimension</b>	<b>Length &amp; Width</b>	ISO 10545-2	±0.50%	
	<b>Thickness</b>	ISO 10545-2	±5.00%	
	<b>Straightness of Sides</b>	ISO 10545-2	±0.50%	
	<b>Rectangularity</b>	ISO 10545-2	±0.50%	
	<b>Flatness of Surface</b>			
	<b>Centre Curvature</b>	ISO 10545-2	±0.50%	±0.40%
	<b>Warpage</b>	ISO 10545-2	±0.50%	±0.40%
	<b>Edge Curvature</b>	ISO 10545-2	±0.50%	±0.40%
 <b>Modulus of Rupture</b>	ISO 10545-4	Min.32N/mm <sup>2</sup>	≥ 37N/mm <sup>2</sup>	
 <b>Breaking Strength</b>	ISO 10545-4	Min. 1300N	≥ 1800N	
 <b>Co-efficient of Thermal</b>	ISO 10545-8	≤ 9X10 <sup>-6</sup> K <sup>-1</sup>	≤ 9X10 <sup>-6</sup> K <sup>-1</sup>	
 <b>Thermal Shock</b>	ISO 10545-9	No Damage	No Damage	
 <b>Frost Resistance</b>	ISO 10545-12	No visible alteration to the surface	No visible alteration to the surface	
 <b>Chemical Resistance</b>	ISO 10545-13	Min. GB	GB	
 <b>Stain Resistance</b>	ISO 10545-14	Min. Class 3	Class 3	
 <b>Slip Resistance (Wet Pendulum)</b>	AS/NZS 4586 (App. A)	P0 - P5	Matt: P2, Rough: P3	

Up-dated : 06/01/2020

**\*\* The above standards serves as a "General Guide" only and is based on testing conducted on factory fresh samples or unused surfaces using specific conditions. Factors such as usage, cleaning systems, applied coatings, type of footwear and patterns of wear may affect the characteristics of the surface after testing. It is therefore recommended to conduct specific tests on individual tile batches which are going to be laid.**