

Waringa Porcelain Floor Tiles			
Homogeneous Vitreous Porcelain Floor Tiles			
Wet Pendulum test – 300x300 Waringa Black Micro Matt & Waringa Black Micro Rock			
Matt – P4		Rock – P5	
Description of the test	Test Method	Standard Values	Rocell Values
Length and Width	ISO 10545.2	0.60%	0.40%
Rectangularity	ISO 10545.2	0.60%	0.40%
Thickness	ISO 10545.2	5%	3%
Straightness of Sides	ISO 10545.2	0.50%	0.40%
<u>Surface Flatness:</u> i. Centre Curvature related to the diagonal calculated work size	ISO 10545.2	0.50%	0.40%
ii Edge Curvature related to the corresponding work size	ISO 10545.2	0.50%	0.40%
iii Warpage related to the diagonal calculated from work size	ISO 10545.2	0.50%	0.40%
Surface Quality	ISO 10545.2	Min.95% of tiles shall be free from visible defects that would impair the appearance of a major area of tiles.	
Water Absorption by Mass	ISO 10545.3	0.5% (Minimum)	0.1% (Maximum)
Modulus of Rupture	ISO 10545.4	27 N/mm ² (276 kg/cm ²)	42 N/mm ² (428 kg/cm ²)
Moh's Scale Hardness		6 (Minimum)	6 (Minimum)
Deep Abrasive Resistance (Minimum)	ISO 10545.6	205mm	163mm
Surface Abrasion Resistance			
Homogeneous Tiles (Unglazed)	ISO 10545.7	PEI IV	Min Class IV
Glazed Tiles	ISO 10545.7	PEI III	Min Class III
Thermal Expansion	ISO 10545.8	Max. 9x10 ⁻⁶ C ⁻¹	6.5 X 10 ⁻⁶ C ⁻¹
Resistance to Thermal Shock	ISO 10545.9	Resistant	Resistant
Resistance to Stains	ISO 10545.14	Min Class III	Class I
Colour Resistance to light	BS-6431 (Part 6)	Resistant	Resistant
Frost Resistance	ISO 10545.12	Resistant	Resistant
Determination of Chemical Resistance	ISO 10545.13	Resistant	Resistant