

MANDARIN STONE

PRODUCT SPECIFICATION

DARWIN RANGE PORCELAIN

Technical features – compliant with standards EN14411 (ISO13006) annex G group Bia GL

Technical Features	Reference	Required Standards	Average Value
Length & Width	ISO 10545-2	$\pm 0.60\%$	Conforms
Thickness		$\pm 5.00\%$	Conforms
Straightness		$\pm 0.50\%$	Conforms
Squareness		$\pm 0.50\%$	Conforms
Flatness		$\pm 0.50\%$	Conforms
Water Absorption	ISO 10545-3	$\leq 0.50\%$	$< 0.1\%$
Modulus of Rupture	ISO 10545-4	$R > 35 \text{ N/mm}^2$	Conforms
Impact Resistance	ISO 10545-5	Not Required	COR > 0.73
Surface Abrasion Resistance	ISO 10545-7	Not Required	Varies
Linear Thermal Expansion Coefficient	ISO 10545-8	Declared Value	$\alpha l \leq 10^{-6}/^{\circ}\text{C}$
Thermal Shock Resistance	ISO 10545-9	Required	Resistant
Glaze Cracking Resistance	ISO 1045-11	Required	Resistant
Frost Resistance	ISO 10545-12	Required	Resistant
Chemical Resistance	ISO 10545-12	Group B Minimum	Conforms
Resistance to Stains	ISO 10545-14	Class 3 Minimum	Class 5
Determination of Small Colour Difference	ISO 10545-16	$\Delta E_{cmc} < 0.75$	Conforms
Slip Resistance	EN 7976	Low slip risk >36 Dry/Wet	NPD
Non-Slip Classification	DIN 51130	Declared Value	R10