

EST / 1989
MANDARIN STONE

PRODUCT SPECIFICATION
MOD ENCAUSTIC RANGE PORCELAIN

Technical features | ISO 13006 | EN 14411 | Group BIa GL

Technical Features	Reference	Required Standards	Average Value
Length & Width	ISO 10545-2	$\pm 0.60\%$	± 0.20
Thickness		$\pm 5.00\%$	± 0.20
Straightness of sides		$\pm 0.50\%$	± 0.20
Squareness		$\pm 0.50\%$	± 0.20
Flatness		$\pm 0.50\%$	± 0.20
Water Absorption	ISO 10545-3	$\leq 0.50\%$	$\leq 0.10\%$
Breaking Strength	ISO 10545-4	$S \geq 1300 \text{ N}$	$\geq 2400 \text{ N}$
Modulus of Rupture		$R \geq 35 \text{ N/mm}^2$	$\geq 48 \text{ N/mm}^2$
Surface abrasion resistance	ISO 10545-7	Declared value	Class 4
Linear thermal expansion	ISO 10545-8	Declared value	$6.1-6.9 \times 10^{-6} (^\circ \text{C}^{-1})$
Thermal shock resistance	ISO 10545-9	According to ISO 10545-1	Resistant
Frost Resistance	ISO 10545-12	Required	Resistant
Slip resistance	DIN 51130	Declared value	R10
Bond strength/adhesion	EN 12004	Declared value	Type C2 $> 1 \text{ N/mm}^2$
Reaction to fire		Class A1FL/AI	A1FL/AI
Resistance To Household Chemicals & swimming pool salts	ISO 10545-13	Minimum GB	$\geq \text{GA}$
Resistance to staining	ISO 10545-14	Minimum 3	≥ 3