

EST / 1989  
**MANDARIN STONE**

**PRODUCT SPECIFICATION**

**CLEVELAND PORCELAIN RANGE**

Technical Features	Reference	Required Standards	Average Value
Dimensions of sides	ISO 10545-2	$\pm 0.60\%$ *	Conforms
Thickness		$\pm 5.00\%$	Conforms
Straightness		$\pm 0.50\%$	Conforms
Squareness		$\pm 0.60\%$	Conforms
Flatness		$\pm 0.50\%$	Conforms
Water absorption	ISO 10545-3	$\leq 0.50\%$	Conforms
Breaking strength	ISO 10545-4	$S \geq 1300 \text{ N}$	Conforms
Modulus of rupture		$R \geq 35 \text{ N/mm}^2$	Conforms
Deep abrasion resistance (20mm)	ISO 10545-6	$< 175 \text{ mm}^3$	$< 150 \text{ mm}^3$
Resistance to abrasion (10mm)	ISO 10545-7	Declared Value	PEI 4
Linear heat expansion coefficient	ISO 10545-8	Declared Value	$60 \times 10^{-7} - 75 \times 10^{-7} \text{ K}^{-1}$
Thermal shock resistance	ISO 10545-9	According to ISO 10545-1	Resistant
Frost resistance	ISO 10545-12	Required	Resistant
Slip resistance (10mm & 20mm)	BS EN 7976-2	Slip Resistant ( $\geq 0.36$ )	$\geq 0.36$
Non-slip classification (10mm)	DIN 51130	Declared Value	R10
	DIN 51097		NPD
Non-slip classification (20mm)	DIN 51130	Declared Value	R11
	DIN 51097		NPD
Resistance to chemicals (10mm)	ISO 10545-13	Declared Value	GLB/GHB/GB
Resistance to chemicals (20mm)			ULA/UHA/UA
Resistance to stains	ISO 10545-14	Class $\geq 3$	Conforms
Reaction to fire		Declared Value	AI