



RECER – Indústria de Revestimentos Cerâmicos, S.A.
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SPECIFICATIONS REPORT

Standard(s): BS EN14411:2012; EN 14411:2016 – Annex G

Product Group: Bla – UGL
UNGLAZED PORCELAIN TILE

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Reference	Size (cm)	WORK SIZE (mm)	Thickness (mm)
Bluenza Ebony Black	60x60R	598x598	9.5

Technical Characteristics	Standard Test	Requirement	Value
WORK SIZE (mm) – Deviation from the Work Size (%)	ISO 10545-2	$\leq 2\%$ (Max.: $\pm 5\text{mm}$)	Complies
– Deviation from Sample Average (%)		$\pm 0.6\%$ ($\leq \pm 2\text{mm}$) [N ≥ 15]	Complies
THICKNESS – Deviation from the Work Size (%)		$\pm 5\%$ (Max.: $\pm 0.5\text{mm}$) [N ≥ 15]	Complies
STRAIGHTNESS – Deviation from the Work Size (%)		$\pm 0.5\%$ ($\leq \pm 1.5\text{mm}$) [N ≥ 15]	Complies
SQUARENESS – Deviation from the Work Size (%)		$\pm 0.5\%$ ($\leq \pm 2\text{mm}$) [N ≥ 15]	Complies
FLATNESS – Deviation from the diagonal or from the Work Size (%)		$\pm 0.5\%$ ($\leq \pm 2\text{mm}$) [N ≥ 15]	Complies
SURFACE QUALITY		95% Without defects	Complies
WATER ABSORPTION	ISO 10545-3	Eb $\leq 0,5\%$	Complies
BENDING STRENGTH – Breaking Strength (N)	ISO 10545-4	≥ 1300 (Thickness $\geq 7.5\text{ mm}$)	Complies
– Rupture Module (N/mm ²)		≥ 35	Complies
IMPACT RESISTANCE Coefficient of Restitution	ISO 10545-5	≥ 0.55	Complies
RESISTANCE TO DEEP ABRASION (mm³)	ISO 10545-6	≤ 175	Complies
RESISTANCE SURFACE ABRASION (PEI)	ISO 10545-7	Not Applicable	~
LINEAR THERMAL EXPANSION – Coefficient of Linear Thermal Expansion (K ⁻¹)	ISO 10545-8	As per Manufacturer	< 9.0×10^{-6}
THERMAL SHOCK RESISTANCE			
MOISTURE EXPANSION	ISO 10545-10	As per Manufacturer	< 0.6mm/m
CRAZING RESISTANCE	ISO 10545-11	Not Applicable	~
FROST RESISTANCE	ISO 10545-12	Required	Complies
CHEMICAL RESISTANCE – Resistance to Cleaners and Pool Salt	ISO 10545-13	Min. B	A
– Acid Resistance		As per Manufacturer	LA
– Alkali Resistance		As per Manufacturer	LA
STAINING RESISTANCE	ISO 10545-14	Min. Class 3	5
ANTI-SLIP PROPERTIES	EN 16165		
– Workrooms and Fields of Activities with Raise Slip Danger	B	As per Manufacturer, when applicable	$10^\circ < \alpha \leq 19^\circ$ [R10]
– Wet-Loaded Barefoot Areas	A	As per Manufacturer, when applicable	$18^\circ \leq \alpha < 24^\circ$ [B]
	C	As per Manufacturer, when applicable	$35 < \text{PTV} \leq 45$ [Class 2]