

# TECHNICAL SPECIFICATION

60x60cm 24"x24" 10mm 20mm

45x90cm 18"x36" 10mm 20mm



Compliant with standards EN 14411 annex G group Bla Compliant with standards ISO 13006 annex G group Bla

	Technical features	Test Method	Requirements for nominal size N			FINE PORCELAIN	
			7cm ≤ N < 15cm	N ≥ 15cm		1CM	2CM
			(mm)	(%)	(mm)		
	Length and width	ISO 10545-2	± 0.9	± 0.6	± 2.0	± 0.01% ± 0.02mm	± 0.07% ± 0.36mm
	Thickness		± 0.5	± 5	± 0.5	± 1.00% ± 0.10mm	± 1.90% ± 0.25mm
	Straightness of sides		± 0.75	± 0.5	± 1.5	± 0.04% ± 0.23mm	± 0.15% ± 0.89mm
	Rectangularity		± 0.75...	± 0.5...	± 1.5...	± 0.06% ± 0.36mm	± 0.09% ± 0.56mm
	Surface flatness		c.c ± 0.75	c.c ± 0.5	c.c ± 2.0	± 0.09% ± 0.74mm	± 0.12% ± 1.01mm
			e.c ± 0.75	e.c ± 0.5	e.c ± 2.0		
			W. ± 0.75	W. ± 0.5	W. ± 2.0		
			En14411 annex G ( Group Bl, )		ISO 13006 annex G ( Group Bl, )		
	Water absorption	ISO 10545-3	E ≤ 0.5% individual maximum 0.6%			E ≤ 0.11%	E ≤ 0.38%
	Breaking strength	ISO 10545-4	S ≥ 1300N			S ≥ 2500N	S ≥ 11000N
	Modulus of rupture		R ≥ 35N/mm <sup>2</sup>			R ≥ 42.4N	R ≥ 42.5N
	Abrasion resistance	ISO 10545-6	≤ 175mm <sup>3</sup>			Class 4	Class 4
	Coefficient of thermal linear expansion	ISO 10545-8	Declared value	Test method available		3.9 X 10 <sup>-4</sup> K <sup>-1</sup>	3.9 X 10 <sup>-4</sup> K <sup>-1</sup>
	Thermal shock resistance	ISO 10545-9	Pass according to ISO 10545-1	Test method available		Resistant	Resistant
	Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum Class B	Class GA		Passed	Passed
	Resistance to low concentrations of acids and alkalis		Value	Class GLA		—	—
	Resistance to high concentrations of acids and alkalis		Value	Class GHA		—	—
	Moisture expansion (in mm/m)	ISO 10545-10	Declared value	Test method available		≤ 0.72 mm/m	≤ 0.72 mm/m
	Frost resistance	ISO 10545-12	Pass according to ISO 10545-1	Required		Resistant	Resistant
	Impact resistance, as coefficient of restitution	ISO 10545-5	Declared value	Test method available		≥ 0.67	≥ 0.7
	Mohs hardness	EN 101	≥ 6 (UGL)			7	7
	Bond strength/ adhesion	EN 1348	Declared value	—		N/A	N/A
	Reaction to fire		Class A1 or A1	—		A1 <sub>s</sub>	A1 <sub>s</sub>
	Resistance to staining	ISO 10545-14	Minimum Class 3	Test method available		Class 5	Class 5
	Coefficient of friction (COF)	B.C.R.A.Rep.CEC/81	D M 236/89 del 14/06/89			1.23Dry 1.16Wet	1.21Dry 1.19Wet
	Dynamic coefficient of friction	ANSI A137.1-2012	ANSI A.137.1 Requires a minimum value of 0.42 for commercial areas that are likely to be wet			0.71Dry 0.62Wet	0.64Dry 0.61Wet
	Static coefficient of friction (SCOF)	ASTM C1028-2007	The Ceramic Tiles Institute identifies Tile Slip Resistant when SCOF ≥ 0.60			≥ 0.60Dry ≥ 0.60Wet	≥ 0.80Dry ≥ 0.80Wet
	Slip resistance Classification of New Pedestrian Surface Materials	AS 4586: 2013 Appendix A	Accredited for compliance with iso/iec 17025			P2-P4	P4-P5
	Pendulum Friction Test	Appendix A (Four S rubber)	Declared classification of the pedestrian surface materials according to the Wet Pendulum Test			Class X	Class V
	Barefoot Ramp Test	DIN 51097 (CEN/TS 16165 Annex A)	Declared value	—		C	C
	Shod Ramp Test	DIN 51130 (CEN/TS 16165 Annex A)	Declared value	—		R9-R10	R11
	Pendulum Friction Test	BS 7976-2002 (CEN/TS 16165 Annex C)	Declared value	—		PTV > 64Dry PTV > 38Wet	PTV > 90Dry PTV > 60Wet