ANGERS - Technical specifications

ISO 13006 - EN 14411 - ISO 10545 Standards

Nominal sizes (cm): **20.3x20.3; 20.3x40.6; 30x60;30.5x60.5;60x60; 60x120;100x100**	Thickness (mm) : **8.5 ; 20**
Sides: **Rectified ; Natural**	Surface: **advance, grip, strong**
	Product Group: **BIa-GL**

Technical characteristics		**Test method**	**EN 14411 and ISO 13006 requirements**	**Italcer Average values**
Dimensions	Length and width	ISO 10545-2	±0.6% and ± 2.0mm Rect. : ±0.3% and ± 1.0mm	Compliant
	Straightness of sides	ISO 10545-2	±0.5% and ± 1.5mm Rect. : ±0.3% and ± 0.8mm	Compliant
	Rectangularity	ISO 10545-2	±0.5% and ± 2.0mm Rect. : ±0.3% and ± 1.5mm	Compliant
	Flatness	ISO 10545-2	±0.5% and ± 2.0mm Rect. : ±0.4% and ± 1.8mm	Compliant
	Thickness	ISO 10545-2	±5% and ± 0.5mm	Compliant
Water absorption		ISO 10545-3	≤ 0.5%	<0.1%
Modulus of rupture		ISO 10545-4	≥ 35 N/mm^2	>45 N/mm^2
Breaking strength (S)		ISO 10545-4	≥ 1300 N	Compliant
Abrasion resistance		ISO 10545-7	Declared class	PEI 5 (Ivory, White) PEI 4 (Grey, Taupe), PEI 3 (Dark, Olive)
Linear thermal expansion		ISO 10545-8	Declared value	$\alpha \leq 7.1x10^{-6}$ $°C^{-1}$
Thermal shock resistance		ISO 10545-9	No alterations	Resistant
Frost resistance		ISO 10545-12	No alterations	Resistant
Chemical resistance		ISO 10545-13	Declared value	LA – HA
Household chemicals resistance		ISO 10545-13	B min.	A
Stain resistance		ISO 10545-14	Class 3 min.	5
Mohs Hardness		UNI EN 101	5 Min.	7
Slip Resistance		DIN 51130	Declared value	R10 ; R11(grip, strong, h20)
		DIN 51097	Declared value	B ; C(grip, strong, h20)
		ANSI A137.1	Declared value	>0.55 (R11) ; >0.42 (R10)
		B.C.R.A. Rep. CEC/81	Declared value	>0.4
		BS 7976	Declared value	Dry/Wet : >36/25>x>35 ; >36 (R11)
Shade variation		ANSI A 137.1	Not required	V3
Fire reaction		UNI EN 13501-1	-	$A1_{FL}$ class
Thermal Conductivity		EN 12524	Not required	λ = 1.3 W/m·°K
Light and colour fastness		DIN 51094	Not required	No variations

Rubiera, April 28, 2026

Italcer Quality Department