

THROUGH-BODY PORCELAIN TILE TECHNICAL FEATURES - COMPLIANT WITH STANDARDS EN 14411 (ISO 13006) ANNEX G GROUP Bla



Sizes 45x90 cm 17¾"x35%"				22,5x90 cm 8%"x35%" ₩ 9.5mm						
			Requisites for nominal size N Axi							
			Test method	$7 \text{ cm} \le N < 15 \text{ cm}$ $N \ge 15 \text{ cm}$				Textured	Textured	
		Technical features		(mm)	(%)	(mm)	Matte rectified	rectified 9.5mm 22,5x90 cm	rectified 20mm 45x90 cm	
Regularity features		Length and width	ISO 10545-2	± 0,9 (*) Non-rect. ± 0,4 (*) Rect.	± 0,6 (*) Non-rect. ± 0,3 (*) Rect.	± 2,0 (*) Non-rect. ± 1,0 (*) Rect.	Suitable for	Suitable for	Suitable for	
		Thickness		± 0,5 (**)	± 5 (**)	± 0,5 (**)	Suitable for	Suitable for	Suitable for	
		Straightness of sides		± 0,8 (***) Non-rect. ± 0,4 (***) Rect.	± 0,5 (***) Non-rect. ± 0,3 (***) Rect.	± 1,5 (***) Non-rect. ± 0,8 (***) Rect.	Suitable for	Suitable for	Suitable for	
		Perpendicularity (Measurement only on short edges when L/I ≥ 3)		± 0,8 (***) Non-rect. ± 0,4 (***) Rect.	± 0,5 (***) Non-rect. ± 0,3 (***) Rect.	± 2,0 (***) Non-rect. ± 1,5 (***) Rect.	Suitable for	Suitable for	Suitable for	
	$\begin{pmatrix} \uparrow \\ \uparrow \\ \uparrow \\ \downarrow \\$	Surface flatness		c.c. ± 0,8 Non-rect. c.c. ± 0,6 Rect.	c.c. ± 0,5 Non-rect. c.c. ± 0,4 Rect.	c.c. ± 2,0 Non-rect. c.c. ± 1,8 Rect.				
				e.c. ± 0,8 Non-rect. e.c. ± 0,6 Rect.	e.c. ± 0,5 Non-rect. e.c. ± 0,4 Rect.	e.c. ± 2,0 Non-rect. e.c. ± 1,8 Rect.	Suitable for	Suitable for	Suitable for	
				w. ± 0,8 Non-rect. w. ± 0,6 Rect.	w. ± 0,5 Non-rect. w. ± 0,4 Rect.	w. ± 2,0 Non-rect. w. ± 1,8 Rect.				
		Water absorption level (in% by mass)	ISO 10545-3	E≤ 0,5% Individual Maximum 0,6%			≤0.1%	≤0.1%	≤0.1%	
Structural features			ASTM C373-18	Requirement ANSI A137.1-2017 Water Absorption Max < 0,5%			≤0.5%	≤0.5%	≤0.5%	
Bulk mechanical features		Breaking strenght		S ≥ 700N (for thickness < 7,5mm) S ≥ 1300N (for thickness ≥ 7,5mm)			S ≥2000 N	S ≥2000 N	S≥10000 N	
		Bending resistance	ISO 10545-4		R ≥40 N/mm²	R ≥40 N/mm²	R ≥45 N/mm²			
		Bending and breaking load resistance ⁽⁴⁾ (5)	EN 1339 Annex F	-					≥T11 60x60 ≥U4 45X90 - 40x120	
		Impact resistance	ISO 10545-5		Declared value		≥0.55	≥0.55	≥0.55	
Surface mechanical features		Mohs hardness	EN 101		-			MOHS 8	MOHS 8	
		Deep abrasion resistance of unglazed tiles	ISO 10545-6		≤ 175 mm³			≤150mm³	≤150mm³	

* Permitted deviation, in % or mm, from the average size of each tile (2 or 4 sides) with respect to the manufacturing size (W).

** Permitted deviation, in % or mm, from the average thickness of each tile with respect to the cited manufacturing thickness (W).

*** Maximum permitted straightness deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).

**** Maximum permitted perpendicularity deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).

**** Maximum permitted centre curvature deviation, in % or mm, with respect to the diagonal calculated according to manufacturing sizes (W).

e.c. Maximum permitted corner curvature deviation, in % or mm, with respect to the corresponding manufacturing sizes (W).

w. Maximum permitted bending deviation, in % or mm, with respect to the diagonal calculated according to manufacturing sizes (W).

(1) Determining the slip resistance of pedestrian surfaces; not applicable to sports flooring or road traffic flooring.

(2) The anti-slip performance is guaranteed at the time of delivering the product.

(3) However, tiles with a DCOF of 0.42 or greater are not necessarily suitable for all projects. The specifier shall determine tiles appropriate for specific project conditions, considering by way of example, but not in limitation, type of use, traffic, expected contaminants, expected maintenance, expected wear, and manufacturers' guidelines and recommendations." (4) For further details, please refer to the outdoor design general catalogue.

(5) Only for products with 20 mm thickness



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Sizes 40x90 Clif 1/74 x30% 22,559 Clif 8 x 50%
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				Poquicitos for pominal sizo N		Axi				
			Test method	Requisites for nominal size N			Axi Textured rectified Textured rectified			
		Technical features		7 cm ≤ N < 15 cm	N ≥ 15 cm		Matte rectified	9.5mm	20mm	
				(mm)	(%)	(mm)		22,5x90 cm	45x90 cm	
Thermo- igrometric features		Coefficient of linear thermal expansion	ISO 10545-8	ISO 10545-8 Declared value ISO 10545-9 Test passed in accordance with ISO 10545-1		≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹		
		Thermal shock resistance	ISO 10545-9			10545-1	Resistant	Resistant	Resistant	
		Moisture expansion (in mm/m)	ISO 10545-10	Declared valu	e		≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	
		Frost resistance	ISO 10545-12	Test passed in accordance w	vith ISO (10545-1	Resistant	Resistant	Resistant	
Physical properties		Bond strenght	EN 1348	Declared value			≥1.0 N/mm² (Class C2 - EN 12004)	≥1.0 N/mm² (Class C2 - EN 12004)	≥1.0 N/mm² (Class C2 - EN 12004)	
		Reaction to fire	-	Class A1 or A1 _{fl}		A1 - A1 _{fl}	A1 - A1 _{fl}	A1 - A1 _{fl}		
Chemical features		Resistance to household chemicals and swimming pool salts		Minimum B class			А	А	А	
		Resistance to low concentrations of acids and alkalis	ISO 10545-13	Declared class			LA	LA	LA	
		Resistance to high concentrations of acids and alkalis		Declared class			НА	НА	HA	
		Stain resistance ISO 10545-14		Declared class			5	5	5	
Safety characteristics (1)(2)	1	Booted ramp test	DIN 51130	Declared clas	S		R10	R11	R11	
		Barefoot Ramp test	DIN 51097	Declared valu	е		A+B	A+B+C	A+B+C	
		Pendulum friction Test	BS 7976	PTV ≥ 36 classifies the surface as "low slip risk"		≥36Dry ≥36Wet	≥36Dry ≥36Wet	≥36Dry ≥36Wet		
			AS 4586	Declared Classification of the surface materials according to			Class P3	Class P4	Class P4	
			UNE-ENV 12633 UNE 41901:2017 EX	Declared value			Class C2	Class C3	Class C3	
		Coefficient of friction	B.C.R.A. Rep. CEC/81	$\begin{array}{l} \mbox{Min. Dec. 236/89 of 14/0} \\ \mu > 0.40 \mbox{ for a sliding leather elemen} \\ \mu > 0.40 \mbox{ for a sliding hard rubber elemen} \\ \mbox{fi}^{OOr} \end{array}$		a dry _{fl} oor	>0.40Asciutto >0.40Bagnato	>0.40Asciutto >0.40Bagnato	>0.40Asciutto >0.40Bagnato	
		Dynamic coefficent of friction (DCOF)	ANSI A.137.1	ANSI A.137.1-2 Requires a minimum value of 0 space expected to be walked u	.42 for le		> 0.42 Wet	> 0.42 Wet	> 0.42 Wet	

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