HEARTWOOD



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



Sizes	Sizes 20x120 cm 7¼"x47 ¼" 월 9mm				18,5x150 cm 7 ∕4"x59" ₩ 9mm				
				Rec	Heartwood				
		Technical features	Test method	7 cm ≤ N < 15 cm (mm)	(%)	L5 cm (mm)	Matte rectified 9mm 20x120 cm	Matte rectified 9mm 18,5x150 cm	
Regularity features		Length and width		± 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	
		Thickness		± 0,5 (**)	± 5 (**)	± 0,5 (**)	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	
		Perpendicularity (Measurement only on short edges when L/l ≥ 3)	ISO 10545-2	± 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	
	$\begin{pmatrix} \uparrow \\ \uparrow $			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.			
		Surface flatness		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	
				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.			
			ISO 10545-3	E≤ 0,5	E≤ 0,5% Individual Maximum 0,6% ≤0.1%				
Structural features		Water absorption level (in% by mass)	ASTM C373-18	Requirement ANS	≤0.5%	≤0.5%			
Bulk mechanical features		Breaking strenght	ISO 10545-4	S≥70 S≥13	S≥1500 N	S≥1500 N			
		Bending resistance	130 10545-4		R ≥40 N/mm²	R ≥40 N/mm²			
		Bending and breaking load resistance ⁽⁴⁾⁽⁵⁾	and breaking load resistance ⁽⁴⁾⁽⁵⁾ EN 1339 Annex F -						
		Impact resistance	ISO 10545-5 Declared value		≥0.55	≥0.55			
Surface mechanical features		Mohs hardness	EN 101	-			MOHS 6	MOHS 6	
		Deep abrasion resistance of unglazed tiles	ISO 10545-6		≤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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THROUGH-BODY PORCELAIN TILE TECHNICAL FEATURES - COMPLIANT WITH STANDARDS EN 14411 (ISO 13006) ANNEX G GROUP Bla



Sizes	20x120 cm 7%"x47 ⁄4" Ħ 9mm	18,5x150 cm 7 ⁄4"x59" ▇ 9mm

			Test method	Requisites for nominal size N			Heartwood		
		Technical features		$7 \text{ cm} \le N < 15 \text{ cm}$ $N \ge 15 \text{ cm}$		≥ 15 cm	Matte rectified	Matte rectified	
				(mm)	(%)	(mm)	9mm 20x120 cm	9mm 18,5x150 cm	
Thermo- igrometric features		Coefficient of linear thermal expansion	ISO 10545-8	Declared value Test passed in accordance with ISO 10545-1 Declared value		≤7MK ⁻¹	≤7MK ⁻¹		
		Thermal shock resistance	ISO 10545-9			Resistant	Resistant		
		Moisture expansion (in mm/m)	ISO 10545-10			≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)		
		Frost resistance	ISO 10545-12	Test passed in accordance with ISO 10545-1			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)			
		Reaction to fire	-	Class A1 or A1 _{fl}			A1 - A1 _{fl}	A1 - A1 _{fl}	
Chemical features		Resistance to household chemicals and swimming pool salts		Minimum B class			А	A	
		Resistance to low concentrations of acids and alkalis	ISO 10545-13	Declared class			LA	LA	
		Resistance to high concentrations of acids and alkalis		Declared class			HA	HA	
		Stain resistance	ISO 10545-14	Declared class		5	5		
		Booted ramp test	DIN 51130	Declared clas	s		R10	R9	
Safety characteristics (1)(2)		Barefoot Ramp test	DIN 51097	Declared value			A+B	A	
		Pendulum friction Test	BS 7976	$PTV \ge 36$ classifies the surface as "low slip risk"			≥36Dry ≥36Wet	PTV ≥ 36 Wet on demand	
			AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test		Class P3	P3 on demand		
			UNE-ENV 12633 UNE 41901:2017 EX	Declared value		Class C2	C2 on demand		
		Coefficient of friction	B.C.R.A. Rep. CEC/81	Min. Dec. 236/89 of 14/06/89 μ >0.40 for a sliding leather element on a dry floor μ >0.40 for a sliding hard rubber element on a wet floor		>0.40Asciutto >0.40Bagnato	>0.40Asciutto >0.40Bagnato		
		Dynamic coefficent of friction (DCOF) ANSI A.137.1		ANSI A.137.1-2017 Requires a minimum value of 0.42 for level interior space expected to be walked upon when wet. (3)			> 0.42 Wet	> 0.42 Wet	

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