

GRES PORCELLANATO TECHNICAL FEATURES - COMPLIANT WITH STANDARDS EN 14411 (ISO 13006) ANNEX G GROUP Bla



Sizes	60x60 cm 23%"x23%" ₩ 8mm	30x60 cm 11¾"x23%" ₩ 8mm

			Test method	Rec	Realm		
		Technical features		$7 \text{ cm} \le N < 15 \text{ cm}$ $N \ge 15 \text{ cm}$			Matte
				(mm)	(%)	(mm)	rectified
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
		Thickness		± 0,5 (**)	± 0,5 (**) ± 5 (**)		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
		Perpendicularity (Measurement only on short edges when $L/I \ge 3$ )	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
				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.	Suitable for
		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.	
				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.	
Structural features			ISO 10545-3	E≤ 0,5	≤0.1%		
		Water absorption level (in% by mass)	ASTM C373-18	Requirement ANS	≤0.5%		
Bulk mechanical features		Breaking strenght	ISO 10545-4	S ≥ 700N (for thickness < 7,5mm) S ≥ 1300N (for thickness ≥ 7,5mm)			S ≥1500 N
		Bending resistance	130 10343-4		R ≥40 N/mm²		
		Bending and breaking load resistance <sup>(4)(5)</sup>	EN 1339 Annex F	-			
		Impact resistance	ISO 10545-5		≥0.55		
Surface mechanical features		Deep abrasion resistance of unglazed tiles	ISO 10545-6	≤ 175 mm³		≤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







Sizes		60x60 cm 23%"x235 ₩ 8mm	30>	30x60 cm 11¾"x23%" ⊠ 8mm				
	7			Requisites for nominal	size N		Realm	
		Technical features	Test method	7 cm ≤ N < 15 cm	N	l≥15 cm	Matte rectified	
I				(mm)	(%)	(mm)	Matte rectified	
Thermo-iqrometric		Coefficient of linear thermal expansion	ISO 10545-8	Declared value	Declared value		≤7MK <sup>-1</sup>	
		Thermal shock resistance	ISO 10545-9	Test passed in accordance wit	Test passed in accordance with ISO 10545-1		Resistant	
features		Moisture expansion (in mm/m)	ISO 10545-10	Declared value	Declared value		≤0.01% (0.1mm/m)	
		Frost resistance	ISO 10545-12	Test passed in accordance wit	Test passed in accordance with ISO 10545-1			
		Bond strenght	EN 1348	Declared value	Declared value		≥1.0 N/mm² (Class C2 - EN 12004)	
Physical properties		Reaction to fire	_	Class A1 or A1 <sub>fi</sub>	Class A1 or A1 <sub>fl</sub>			
		Resistance to household chemicals and swimming pool salts	ļ	Minimum B class	Minimum B class			
		Resistance to low concentrations of acids and alkalis	ISO 10545-13	Declared class			LA	
Chemical features		Resistance to high concentrations of acids and alkalis	ļ	Declared class	Declared class			
		Stain resistance	ISO 10545-14	Declared class	Declared class		5	
		Booted ramp test	DIN EN 16165 ANNEX B (EX DIN 51130)	Declared class	Declared class		R10	
		Barefoot Ramp test	DIN EN 16165 ANNEX A (EX DIN 51097)	Declared value			А	
Safety (1)(2)	$(\mathcal{P})$	Pendulum friction Test	BS EN 16165 ANNEX C (EX BS 7976)	$PTV \ge 36$ classifies the surface as "low slip risk"		PTV ≥ 36 Wet on demand		
characteristics <sup>(1)(2)</sup>			AS 4586	Declared Classification of the new pedes according to the Pendulu	strian surf um Test	iace materials	P3 on demand	
			UNE 41901 EX:2017	Declared value	Declared value		C2 on demand	
		Coefficient of friction	B.C.R.A. Rep. CEC/81	$\mu$ >0.40 for a sliding leather eleme	Min. Dec. 236/89 of 14/06/89 $\mu$ >0.40 for a sliding leather element on a dry floor $\mu$ >0.40 for a sliding hard rubber element on a wet floor		>0.40Asciutto >0.40Bagnato	
	1	Dynamic coefficent of friction (DCOF)	ANSI A 326.3	-			Wet DCOF ≥ 0.42	

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