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



Sizes

## 60x90 cm 23%"x35%" ₩ 20mm

		Technical features	Test method	Requisites for nominal size N			Aix
				7 cm ≤ N < 15 cm	7 cm ≤ N < 15 cm N ≥ 15 cm		Outdoor rectified
				(mm)	(%)	(mm)	
		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
	(Jac)	Thickness		± 0,5 (**)	± 5 (**)	± 0,5 (**)	Suitable for
Regularity features		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 ≥ 3)		± 0,8 (***) Non-rect. ± 0,4 (***) Rect.	± 0,5 (***) Non-rect. ± 0,3 (***) Rect.	± 2,0 (***) Non-rect. ± 1,5 (***) Rect.	Suitable for
		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.	Suitable for
				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.	
	(a)		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 ANSI	Requirement ANSI A137.1-2017 Water Absorption Max < 0,5%		≤0.5%
		Breaking strenght	ISO 10545-4	S ≥ 700N (for thickness < 7,5mm) S ≥ 1300N (for thickness ≥ 7,5mm) R ≥ 35 N/mm <sup>2</sup>		S ≥10000 N	
		Bending resistance					R ≥45 N/mm²
Bulk mechanical features		Bending and breaking load resistance <sup>(4)(5)</sup>	EN 1339 Annex F	-			≥T11 120x120 60x60 22,5x22,5  ≥U4 60x90 22,5x45,4
		Impact resistance	ISO 10545-5	Declared value		≥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



60x90 cm 23%"x35%" ₩ 20mm



Sizes

## Requisites for nominal size N Aix Technical features Test method 7 cm ≤ N < 15 cm N≥15 cm Outdoor rectified (mm) (%) (mm) ≤7MK<sup>-1</sup> Coefficient of linear thermal expansion ISO 10545-8 Declared value Thermal shock resistance 150 10545-9 Test passed in accordance with ISO 10545-1 Resistant \* Thermo-igrometric features Moisture expansion (in mm/m) ISO 10545-10 Declared value ≤0.01% (0.1mm/m) ISO 10545-12 Test passed in accordance with ISO 10545-1 Frost resistance Resistant ≥1.0 N/mm² (Class C2 -EN 12004) Bond strenght EN 1348 Declared value Physical properties Reaction to fire Class A1 or A1<sub>fl</sub> A1 - A1<sub>fl</sub> Resistance to household chemicals and А Minimum B class swimming pool salts Resistance to low concentrations of acids ISO 10545-13 ΙA Declared class and alkalis Resistance to high concentrations of acids Chemical features Declared class HA and alkalis ISO 10545-14 Stain resistance Declared class 5 DIN EN 16165 ANNEX B Booted ramp test Declared class R11 (EX DIN 51130) DIN EN 16165 Declared value A+B+C Barefoot Ramp test ANNEX A (EX DIN 51097) BS EN 16165 ANNEX $PTV \ge 36$ classifies the surface as "low slip risk" ≥36Dry ≥36Wet Safety (EX BS 7976) characteristics (1)(2) Pendulum friction Test Declared Classification of the new pedestrian surface materials AS 4586 Class P4 according to the Pendulum Test UNE 41901 Class C3 Declared value EX:2017 Min. Dec. 236/89 of 14/06/89 >0.40Asciutto $\mu$ >0.40 for a sliding leather element on a dry $_{fl}$ oor Coefficient of friction B.C.R.A. Rep. CEC/81 >0.40Bagnato $\mu$ >0.40 for a sliding hard rubber element on a wet floor Dynamic coefficent of friction (DCOF) Wet DCOF ≥ 0.55 ANSI A 326.3

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