



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

Sizes	120x278 cm	120x120 cm	120x120 cm	60x120 cm	60x120 cm	60x60 cm	60x60 cm	30x60 cm
	47 /₄"x109 /₂"	47 /₄"x47 /₄"	47 /₄"x47 /₄"	23%"x47 /₄"	23%"x47 /₄"	23%"x23%"	23%"x23%"	11¾"x23%"
	₩ 6mm	▇ 9mm	₩ 20mm	營 9mm	▇ 20mm	▇ 9mm	▇ 20mm	₩ 9mm

				Requisites for nominal size N			GHIAIA					
				7 cm ≤ N < 15 cm	N ≥ 1	.5 cm	Matte					
		Technical features	Test method	(mm)	(%)	(mm)	rectified 6mm 120x278 cm	Matte rectified 9mm	Grip rectified	Textured rectified	Outdoor rectified	
		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	Suitable for	Suitable for	Suitable for	
		Thickness		± 0,5 (**)	± 5 (**)	± 0,5 (**)	Suitable for	Suitable for	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	Suitable for	Suitable for	
Regularity features		Perpendicularity (Measurement only on short edges when L/I ≥ 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	Suitable for	Suitable for	Suitable for	
	\frown			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	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.						
Structural	$\begin{pmatrix} & 0 \\ & & \end{pmatrix}$	Water absorption level	ISO 10545-3	E≤ 0,5% Individual Maximum 0,6%			≤0.1%	≤0.1%	≤0.1%	≤0.1%	≤0.1%	
features		(in% by mass)	ASTM C373-18	Requirement ANSI	A137.1-2017 Wate 0,5%	r Absorption Max <	≤0.5%	≤0.5%	≤0.5%	≤0.5%	≤0.5%	
		Breaking strenght	ISO 10545-4	S ≥ 700N (for thickness < 7,5mm) S ≥ 1300N (for thickness ≥ 7,5mm)			S≥1000 N	S≥1500 N	S≥1500 N	S≥10000 N	S≥10000 N	
	(\downarrow)	Bending resistance	150 10545-4		R ≥ 35 N/mm²			R ≥40 N/mm²	R ≥40 N/mm²	R ≥45 N/mm²	R ≥45 N/mm²	
Bulk mechanical features	$\left(\begin{array}{c} \downarrow \\ \uparrow \uparrow \end{array}\right)$	Bending and breaking load resistance ⁽⁴⁾⁽⁵⁾	EN 1339 Annex F						≥T11 120×120 90X90 ≥U4 60×120	≥T11 120×120 90X90 ≥U4 60×120		
		Impact resistance	ISO 10545-5		Declared value				≥0.55	≥0.55	≥0.55	
Surface mechanical features		Deep abrasion resistance of unglazed tiles	ISO 10545-6	≤ 175 mm³			≤150mm³	≤150mm³	≤150mm³	≤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.





GRES PORCELLANATO

TECHNICAL FEATURES - COMPLIANT WITH STANDARDS EN 14411 (ISO 13006) PLATFORM SURFACES

Sizes	120x278 cm	120x120 cm	120x120 cm	60x120 cm	60x120 cm	60x60 cm	60x60 cm	30x60 cm
	47 /4"x109 /2"	47 /4"x47 /4"	47 /4"x47 /4"	23%/"x47 /4"	23%/"x47 /4"	23%"x23%"	23%"x23%"	11¾"x23⁵%"
	😫 6mm	😫 9mm	🗄 20mm	😫 9mm	😫 20mm	😫 9mm	😫 20mm	😫 9mm

				Requisites for nomir	nal size N						
		Technical		7 cm ≤ N < 15 cm		15 cm	Matte	Matte			
		features	Test method	(mm)	(%)	(mm)	rectified 6mm 120x278 cm	Matte rectified 9mm	Grip rectified	Textured rectified	Outdoor rectified
		Coefficient of linear thermal expansion			≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹		
Thermo- igrometric		Thermal shock resistance	ISO 10545-9	Test passed in accordance with ISO 10545-1			Resistant	Resistant	Resistant	Resistant	Resistant
features		Moisture expansion (in mm/m)	ISO 10545-10	Declared value			≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	≤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	Resistant	Resistant	Resistant
Physical		Bond strenght	EN 1348				≥1.0 N/mm² (Class C2 - EN 12004)				
properties		Reaction to fire	-	Class A1 or A1 _{fl}			A1 - A1 _{fl}				
		Resistance to household chemicals and swimming pool salts		Minimum B class			А	А	А	A	А
Chemical features		Resistance to low concentrations of acids and alkalis	ISO 10545-13	Declared class			LA	LA	LA	LA	LA
reduies		Resistance to high concentrations of acids and alkalis		Declared class			HA	HA	HA	HA	НА
		Stain resistance	ISO 10545-14	Declared class			5	5	5	5	5
		Booted ramp test	DIN EN 16165 ANNEX B (EX DIN 51130)	Declared clas	SS		R9	R10	R11	R11	R11
		Barefoot Ramp test	DIN EN 16165 ANNEX A (EX DIN 51097)	Declared value		А	A+B	A+B+C	A+B+C	A+B+C	
			BS EN 16165 ANNEX C (EX BS 7976)	PTV ≥ 36 classifies the surfac	e as "lov	v slip risk"	PTV ≥ 36 Wet on demand	≥36Dry ≥36Wet	≥36Dry ≥36Wet	≥36Dry ≥36Wet	≥36Dry ≥36Wet
Safety characteristics (1)(2)	$\langle \rangle$	Pendulum friction Test	AS 4586	Declared Classification of th surface materials according Test			P3 on demand	Class P3	Class P4	Class P4	Class P4
(1)(1)	\bigcirc		UNE 41901 EX:2017	Declared val	ue		C2 on demand	Class C2	Class C3	Class C3	Class C3
		Coefficient of friction	B.C.R.A. Rep. CEC/81	Min. Dec. 236/89 of μ >0.40 for a sliding leather fl ^{00r} μ >0.40 for a sliding hard rub wet fl ^{00r}	element	on a dry	>0.40Asciutto	>0.40Asciutto >0.40Bagnato	>0.40Asciutto >0.40Bagnato		>0.40Asciutto >0.40Bagnato
		Dynamic coefficent of friction (DCOF)	ANSI A 326.3	-			Wet DCOF ≥ 0.42	Wet DCOF ≥ 0.50	Wet DCOF≥ 0.55	Wet DCOF ≥ 0.55	Wet DCOF ≥ 0.55

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

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**** 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).

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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.

GHIAIA MIX



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

Sizes	120x278 cm	120x120 cm	120x120 cm	60x120 cm	60x120 cm	60x60 cm	60x60 cm	30x60 cm
	47 /₄"x109 /₂"	47 /₄"x47 /₄"	47 /₄"x47 /₄"	23%"x47 /₄"	23%"x47 ⁄4"	23%"x23%"	23%"x23%"	11¾"x23%"
	➡ 6mm	▇ 9mm	➡ 20mm	➡ 9mm	▇ 20mm	₿ 9mm	▇ 20mm	▇ 9mm

				Req	uisites for nominal si	ze N		GHIA	AIA MIX	IAMIX	
				7 cm ≤ N < 15 cm	N ≥ 1	5 cm					
		Technical features	Test method	(mm)	(%)	Matte rectified 6mm	Matte rectified 9mm	Grip rectified	Outdoor rectified		
		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	Suitable for	Suitable for	
	(2.2)	Thickness		± 0,5 (**)	± 5 (**)	± 0,5 (**)	Suitable for	Suitable for	Suitable for	Suitable for	
	20	Straightness of sides	ISO 10545-2	± 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	Suitable for	
Regularity features		Perpendicularity (Measurement only on short edges when L/l ≥ 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	Suitable for	
	\frown			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	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.					
Structural		Water absorption level (in% by	ISO 10545-3	E≤ 0,59	% Individual Maximur	n 0,6%	≤0.1%	≤0.1%	≤0.1%	≤0.1%	
features		mass)	ASTM C373-18	Requirement ANSI	A137.1-2017 Water 0,5%	Absorption Max <	≤0.5%	≤0.5%	≤0.5%	≤0.5%	
		Breaking strenght	ISO 10545-4	S ≥ 700N (for thickness < 7,5mm) S ≥ 1300N (for thickness ≥ 7,5mm)			S ≥1000 N	S≥1500 N	S≥1500 N	S≥10000 N	
	\checkmark	Bending resistance	130 10545-4		R ≥ 35 N/mm²		R ≥40 N/mm²	R ≥40 N/mm²	R ≥40 N/mm²	R ≥45 N/mm²	
Bulk mechanical features		Bending and breaking load resistance ⁽⁴⁾⁽⁵⁾	EN 1339 Annex F	-						≥T11 120×120 90X90 ≥U4 60×120	
		Impact resistance	ISO 10545-5		Declared value			≥0.55	≥0.55	≥0.55	
Surface mechanical features		Deep abrasion resistance of unglazed tiles	ISO 10545-6	≤ 175 mm³			≤150mm³	≤150mm³	≤150mm³	≤150mm³	

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**** 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).

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(4) For further details, please refer to the outdoor design general catalogue.

GHIAIA MIX



GRES PORCELLANATO

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

PLATFORM SURFACES

Sizes	Sizes 120x278 cr 47 /4"x109 / € 6mm €			120x120 cm 47 /₄"x47 /₄" ₩ 20mm	60x120 cm 23%"x47 ⁄4" ₩ 9mm	60x120 23%"x4 ₿ 20m	17 /4"	60x60 cm 23%"x23%" ₿9mm	60x60 23%"x: ₩ 20	23%" 1	30x60 cm 11¾"x23%" ₩9mm	
1					Requisites for n 7 cm ≤ N < 15 cm		≥ 15 cm	Matte rectified		AIA MIX		
			Technical features	Test method	(mm)	6mm Matterectined		Matte rectified 9mm	Grip rectified	Outdoor rectified		
			Coefficient of linear thermal expansion	ISO 10545-8	Declared	:d value		≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹	≤7MK ⁻¹	
Ther	rmo- netric		Thermal shock resistance	ISO 10545-9	Test passed in accorda	ince with IS() 10545-1	Resistant	Resistant	Resistant	Resistant	
featu			Moisture expansion (in mm/m)	ISO 10545-10	Declared	d value		≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)	
			Frost resistance	ISO 10545-12	Test passed in accorda) 10545-1	Resistant	Resistant	Resistant	Resistant		
Phys	sical		Bond strenght	EN 1348	Declared	d value		≥1.0 N/mm² (Class C2 - EN 12004)				
prope	erties		Reaction to fire	-	Class A1	L or A1 _{fl}		A1 - A1 _{fl}				
			Resistance to household chemicals and swimming pool salts		Minimum	n B class		A	A	A	А	
Chen	mical		Resistance to low concentrations of acids and alkalis	d ISO 10545-13	Declared	d class		LA	LA	LA	LA	
featu			Resistance to high concentrations of acids and alkalis	t t	Declare	ared class		HA	HA	HA	НА	
			Stain resistance	ISO 10545-14	Declare	Declared class			5	5	5	
			Booted ramp test	DIN EN 16165 ANNEX B (EX DIN 51130)	Declared	d class:		R9	R10	R11	R11	
			Barefoot Ramp test	DIN EN 16165 ANNEX A (EX DIN 51097)	Declared value			А	A+B	A+B+C	A+B+C	
				BS EN 16165 ANNEX C (EX BS 7976)	PTV ≥ 36 classifies the s	surface as "le	ow slip risk"	PTV ≥ 36 Wet on demand	≥36Dry ≥36Wet	≥36Dry ≥36Wet	≥36Dry ≥36Wet	
Safe charact	teristics	\bigcirc	Pendulum friction Test	AS 4586	Declared Classification surface materials accor Tes	ording to the I		P3 on demand	Class P3	Class P4	Class P4	
				UNE 41901 EX:2017	Declared	d value		C2 on demand	Class C2	Class C3	Class C3	
			Coefficient of friction	B.C.R.A. Rep. CEC/81	Min. Dec. 236/8 μ >0.40 for a sliding lea fl ^{OC} μ >0.40 for a sliding har wet fl	ather elemen oor ard rubber ele	nt on a dry	>0.40Asciutto >0.40Bagnato		>0.40Asciutto >0.40Bagnato	>0.40Asciutto >0.40Bagnato	
			Dynamic coefficent of friction (DCOF)	ANSI A 326.3	-			Wet DCOF ≥ 0.42	Wet DCOF ≥ 0.50	Wet DCOF ≥ 0.55	Wet DCOF ≥ 0.55	

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** 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).

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(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."

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GHIAIA 3D WALL



WHITE BODY WALL TILES TECHNICAL FEATURES - COMPLIANT WITH STANDARDS EN 14411 (ISO 13006) PLATFORM SURFACES

Sizes

40x80 cm 15 ⁄4"x31 ⁄2" ₩ 8.5mm

				Requis	ize N	3D Wall		
		Technical features	Test method	7 cm ≤ N < 15 cm N ≥ 15 cm				
				(mm)	(%) (mm)		Matte rectified	
		Length and width		± 0,4 (*) Rect.	± 0,3 (*) Rect.	± 1,0 (*) Rect.	Suitable for	
	(mas)	Thickness		± 0,5 (**)	± 10 (**)	± 0,5 (**)	Suitable for	
Regularity features	$\langle \overline{\mathbf{x}}, \overline{\mathbf{x}} \rangle$	Straightness of sides		± 0,4 (***) Rect.		± 0,8 (***) Rect.	Suitable for	
	\smile	Perpendicularity	ISO 10545-2	± 0,4 (***) Rect.		± 1,5 (***) Rect.	Suitable for	
5 ,	\bigcirc			c.c. ± 0,6 Rect.	c.c. ± 0,4 Rect.	c.c. ± 1,8 Rect		
	$\left(\uparrow\uparrow\uparrow\uparrow\uparrow\right)$	Surface flatness		e.c. ± 0,6 Rect	e.c. ± 0,4 Rect	e.c. ± 1,8 Rect	Not applicable	
	₩¥¥			w. ± 0,6 Rect.	w. ± 0,4 Rect.	w. ± 1,8 Rect.		
Structural features		Water absorption level (in% by mass)	ISO 10545-3		. If this value > 20 ted. Single value		10% <ev≤20%< td=""></ev≤20%<>	
	\bigcirc	Breaking strenght			S ≥ 600N		S ≥600 N	
Bulk mechanical features	$\left(\begin{array}{c} \downarrow \\ \uparrow \uparrow \end{array} \right)$	Bending resistance	ISO 10545-4	R ≥ 12 N/mm²			R ≥15 N/mm²	
		Coefficient of linear thermal expansion	ISO 10545-8		Declared value	≤7MK ⁻¹		
Thermo-igrometric		Thermal shock resistance	ISO 10545-9	Test passed in	accordance with	ISO 10545-1	Resistant	
featūres		Moisture expansion (in mm/m)	ISO 10545-10		Declared value	≤0.06% (0.6mm/m)		
	(FT)	Crazing resistance: glazed tiles	ISO 10545-11	Test passed in	Test passed in accordance with ISO 10545-1			
Dhusianlauraatia		Bond strenght	EN 1348	Declared value			≥1.0 N/mm² (Class C2 - EN 12004)	
Physical properties		Reaction to fire	-		Class A1			
		Resistance to household chemicals and swimming pool salts			Minimum B class		A	
		Resistance to low concentrations of acids and alkalis	ISO 10545-13		Declared class		LA	
	\smile	Resistance to high concentrations of acids and alkalis			Declared class		HA	
Chemical features		Stain resistance of glazed tiles	ISO 10545-14	Minimum Class 3		5		
		Release of dangerous substances: Cadmium (in mg/dm2) and Lead (in mg/dm2)	ISO 10545-15		Declared value		≤0.01mg/dm2 Cd ≤0.1mg/dm2 Pb	

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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).

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