





Sizes	120x278 cm	120x240 cm	120x120 cm	75x150 cm	75x75 cm	60x120 cm	60×120 cm	60×120 cm	60x60 cm	30x60 cm
	47 ¼"x109 ½"	47 ¼"x94 ½"	47 ¼"x47 ¼"	29 ½"x59"	29 ½"x29 ½"	23%"x47 /₄"	23%"×47 /₄"	23%"×47 ¼"	23%"x23%"	11¾"x23%"
	₩ 6mm	█ 9mm	₩ 9mm	<b>⊠</b> 9mm	█ 9mm	█ 9mm	█ 6mm	₩ 20mm	₩ 9mm	█ 9mm

				Requisites for nominal size N			Marvel Meraviglia						
				7 cm ≤ N < 15 cm N≥ 15 cm		.5 cm			Polished			Velvet	Velvet
		Technical features	Test method	(mm)	(%)	(mm)	Polished rectified 6mm	Polished rectified 9mm	rectified 9mm 120x120 cm	Matte rectified	Outdoor rectified	rectified 9mm 120x120 cm	rectified 9mm 60x120 cm
		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	Suitable for	Suitable for	Suitable for	Suitable for
		Thickness		± 0,5 (**)	± 5 (**)	± 0,5 (**)	Suitable for	Suitable for	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	Suitable for	Suitable for
Regularity features		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	Suitable for	Suitable for	Suitable for	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 S for	Suitable for	Suitable for	Suitable for	Suitable for	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.							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.							
6	(0)	\A/	ISO 10545-3	E≤ 0,5°	≤0.1%	≤0.1%	≤0.1%	≤0.1%	≤0.1%	≤0.1%	≤0.1%		
Structural features		Water absorption level (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%	≤0.5%	≤0.5%
		Breaking strenght	ISO 10545-4	S≥70 S≥13	S≥1000 N	S≥1500 N	S≥1000 N	S≥1500 N	S≥10000 N	S≥1000 N	S≥1500 N		
	$\downarrow$	Bending resistance	130 10343-4		R ≥40 N/mm²	R ≥40 N/mm²	R ≥40 N/mm²	R ≥40 N/mm²	R ≥45 N/mm²	R ≥40 N/mm²	R ≥40 N/mm²		
Bulk mechanical features		Bending and breaking load resistance <sup>(4)(5)</sup>	EN 1339 Annex F								≥T11 120x120 90X90   ≥U4 60x120		
		Impact resistance	ISO 10545-5		≥0.55	≥0.55	≥0.55	≥0.55	≥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	≤150mm³	≤150mm³

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

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

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

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

<sup>\*\*\*\*</sup> 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).

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

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

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

<sup>(3)</sup> 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."

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

<sup>(5)</sup> Only for products with 20 mm thickness

## MARVEL MERAVIGLIA





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



				Requisites for nomin					Marvel Meravigl	ia		
		Technical features	Test method	7 cm ≤ N < 15 cm (mm)	N ≥ 15 cm (%) (mn	rectified	Polished rectified 9mm	Polished rectified 9mm 120x120 cm	Matte rectified	Outdoor rectified	Velvet rectified 9mm 120x120 cm	Velvet rectified 9mm 60x120 cm
	«\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Coefficient of linear thermal expansion	ISO 10545-8	Declared valu	ue	≤7MK <sup>-1</sup>	≤7MK <sup>-1</sup>	≤7MK <sup>-1</sup>	≤7MK <sup>-1</sup>	≤7MK <sup>-1</sup>	≤7MK <sup>-1</sup>	≤7MK <sup>-1</sup>
Thermo-	(×)	Thermal shock resistance	ISO 10545-9	Test passed in accordance v	with ISO 1054	5-1 Resistant	Resistant	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)	≤0.01% (0.1mm/m)	≤0.01% (0.1mm/m)
	*	Frost resistance	ISO 10545-12	Test passed in accordance with ISO 10545-1		5-1 Resistant	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Physical		Bond strenght	EN 1348	Declared valu	≥1.0 N/mm² (Class C2 - EN 12004)	≥1.0 N/mm² (Class C2 - EN 12004)	≥1.0 N/mm² (Class C2 - EN 12004)	≥1.0 N/mm² (Class C2 - EN 12004)				
properties		Reaction to fire	-	Class A1 or A	A1 - A1 <sub>fl</sub>	A1 - A1 <sub>fl</sub>	A1 - A1 <sub>fl</sub>	A1 - A1 <sub>fl</sub>				
		Resistance to household chemicals and swimming pool salts	ISO 10545-13	Minimum B class		А	А	А	А	А	А	А
Chemical features		Resistance to low concentrations of acids and alkalis		Declared class		LA	LA	LA	LA	LA	LA	LA
leutures		Resistance to high concentrations of acids and alkalis		Declared clas	ss				НА	НА		
		Stain resistance	ISO 10545-14	Declared class		5	5	5	5	5	5	5
		Booted ramp test	DIN EN 16165 ANNEX B (EX DIN 51130)	Declared clas	ss	N.C.	N.C.	N.C.	R10	R11	N.C.	N.C.
		Barefoot Ramp test	DIN EN 16165 ANNEX A (EX DIN 51097)	Declared valu	ue				A+B	A+B+C		
			BS EN 16165 ANNEX C (EX BS 7976)	PTV ≥ 36 classifies the surfac	e as "low slip:	risk" ≥ 36 Dry ≤ 24 Wet	≥ 36 Dry ≤ 24 Wet	≥ 36 Dry ≤ 24 Wet	≥36Dry ≥36Wet	≥36Dry ≥36Wet	≥ 36 Dry ≤ 24 Wet	≥ 36 Dry ≤ 24 Wet
Safety characteristics (1)(2)		Pendulum friction Test	AS 4586	Declared Classification of the surface materials according Test	e new pedestr to the Penduli	ian um			Class P3	Class P4		
(1)(2)			UNE 41901 EX:2017	Declared valu	.ue				Class C2	Class C3		
		Coefficient of friction	B.C.R.A. Rep. CEC/81	Min. Dec. 236/89 of $\mu$ >0.40 for a sliding leather floor $\mu$ >0.40 for a sliding hard rub wet floor	r element on a o	>0.40Asciutto		>0.40Asciutto <0.40Bagnato				>0.40Asciutto <0.40Bagnato
		Dynamic coefficent of friction (DCOF)	ANSI A 326.3	-		Dry DCOF ≥ 0.42	Dry DCOF≥ 0.42	Dry DCOF ≥ 0.42	Wet DCOF≥ 0.50	Wet DCOF≥ 0.55	Dry DCOF ≥ 0.42	Dry DCOF ≥ 0.42

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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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- (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