



Sizes	50x120 cm 19% <sup>1</sup> x47 4" ± 8.5mm	50x120 cm 19% <sup>1</sup> x47 4" ± 11mm	40x80 cm 15 4/4"x31 1/2" ± 10mm	40x80 cm 15 4/4"x31 1/2" ± 8.5mm	30,5x56 cm 12"x22" ± 9,5mm
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	Technical features	Test method	Requisites for nominal size N			3D Wall Design						
			7 cm ≤ N < 15 cm	N ≥ 15 cm		Matte rectified 9.5mm 30,5x56 cm	Matte rectified 10mm 40x80 cm	Matte rectified 8.5mm	Matte rectified 9.5mm 30,5x56 cm	Matte rectified 11mm 50x120 cm	Shiny rectified 8.5mm	Shiny rectified 10mm 40x80 cm
			(mm)	(%)	(mm)							
Regularity features		Length and width	± 0,4 (*) Rect.	± 0,3 (*) Rect.	± 1,0 (*) Rect.	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for
		Thickness	± 0,5 (**)	± 10 (**)	± 0,5 (**)	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for
		Straightness of sides	± 0,4 (***) Rect.	± 0,3 (***) Rect.	± 0,8 (***) Rect.	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for
		Perpendicularity	± 0,4 (***) Rect.	± 0,3 (***) Rect.	± 1,5 (***) Rect.	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for	Suitable for
	Surface flatness	c.c. ± 0,6 Rect.	c.c. ± 0,4 Rect.	c.c. ± 1,8 Rect.	Not applicable	Not applicable	Suitable for	Suitable for	Not applicable	Suitable for	Not applicable	
		e.c. ± 0,6 Rect.	e.c. ± 0,4 Rect.	e.c. ± 1,8 Rect.								
		w. ± 0,6 Rect.	w. ± 0,4 Rect.	w. ± 1,8 Rect.								
Structural features		Water absorption level (in% by mass)	ISO 10545-3			Average >10%. If this value > 20%, it must be indicated. Single value > 9%	10%<EV≤20%	10%<EV≤20%	10%<EV≤20%	10%<EV≤20%	10%<EV≤20%	10%<EV≤20%
Bulk mechanical features		Breaking strenght	ISO 10545-4			S ≥ 600N	S ≥ 600 N	S ≥ 600 N	S ≥ 600 N	S ≥ 600 N	S ≥ 600 N	S ≥ 600 N
		Bending resistance				R ≥ 12 N/mm <sup>2</sup>	R ≥ 15 N/mm <sup>2</sup>	R ≥ 15 N/mm <sup>2</sup>	R ≥ 15 N/mm <sup>2</sup>	R ≥ 15 N/mm <sup>2</sup>	R ≥ 15 N/mm <sup>2</sup>	R ≥ 15 N/mm <sup>2</sup>
Thermo-igrometric features		Coefficient of linear thermal expansion	ISO 10545-8			Declared value	≤7MK <sup>-1</sup>	≤7MK <sup>-1</sup>	≤7MK <sup>-1</sup>	≤7MK <sup>-1</sup>	≤7MK <sup>-1</sup>	≤7MK <sup>-1</sup>
		Thermal shock resistance	ISO 10545-9			Test passed in accordance with ISO 10545-1	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
		Moisture expansion (in mm/m)	ISO 10545-10			Declared value	≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)	≤0.06% (0.6mm/m)
		Crazing resistance: glazed tiles	ISO 10545-11			Test passed in accordance with ISO 10545-1	Resistant	Resistant	Resistant	Resistant	Resistant	Resistant
Physical properties		Bond strenght	EN 1348			Declared value	≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)	≥1.0 N/mm <sup>2</sup> (Class C2 - EN 12004)
		Reaction to fire	-			Class A1	A1	A1	A1	A1	A1	A1
Chemical features		Resistance to household chemicals and swimming pool salts				Minimum B class	A	A	A	A	A	A
		Resistance to low concentrations of acids and alkalis	ISO 10545-13			Declared class	LA	LA	LA	LA	LA	LA
		Resistance to high concentrations of acids and alkalis				Declared class	HA	HA	HA	HA	HA	HA
		Stain resistance of glazed tiles	ISO 10545-14			Minimum Class 3	5	5	5	5	5	5
		Release of dangerous substances: Cadmium (in mg/dm <sup>2</sup> ) and Lead (in mg/dm <sup>2</sup> )	ISO 10545-15			Declared value	≤0.01mg/dm <sup>2</sup> Cd ≤0.1mg/dm <sup>2</sup> Pb	≤0.01mg/dm <sup>2</sup> Cd ≤0.1mg/dm <sup>2</sup> Pb	≤0.01mg/dm <sup>2</sup> Cd ≤0.1mg/dm <sup>2</sup> Pb	≤0.01mg/dm <sup>2</sup> Cd ≤0.1mg/dm <sup>2</sup> Pb	≤0.01mg/dm <sup>2</sup> Cd ≤0.1mg/dm <sup>2</sup> Pb	≤0.01mg/dm <sup>2</sup> Cd ≤0.1mg/dm <sup>2</sup> Pb

\* 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