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**Porcelain tiles - Rectified monocaliber** | Gres porcellanato - Rettificato monocalibro

Compliant with standards EN 14411 annex G group B1a  
Compliant with standards ISO 13006 annex G group B1a  
Conforme alla norma EN 14411 Appendice G gruppo B1a  
Conforme alla norma ISO 13006 Appendice G gruppo B1a

120x278 cm - 47 1/4" x 109 1/2" ± 6 mm

120x120 cm - 47 1/8" x 47 1/8" ± 9 mm  
60x120 cm - 23 3/8" x 47 1/8" ± 9 mm  
60x60 cm - 23 3/8" x 23 3/8" ± 9 mm  
30x60 cm - 11 7/8" x 23 3/8" ± 9 mm

120x120 cm - 47 1/8" x 47 1/8" ± 20 mm  
60x120 cm - 23 3/8" x 47 1/8" ± 20 mm  
60x60 cm - 23 3/8" x 23 3/8" ± 20 mm

Technical features Caratteristiche tecniche	Test Method Metodo di prova	Requirements for nominal size N / Requisiti per dimensione nominale N			Porcelain tiles				
		7 cm ≤ N < 15 cm		N ≥ 15 cm		Matte   Matte (e) ± 9 mm	Matte ± 6 mm	Grip ± 9 mm	Outdoor ± 20 mm
		MM	(%)	(mm)					
Length and width Lunghezza e larghezza	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 Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
		± 0.5 (**)	± 5 (**)	± 0.5 (**)	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
		± 0.8 (***) Non-rect. ± 0.4 (***) Rect.	± 0.5 (***) Non-rect. ± 0.3 (***) Rect.	± 1.5 (***) Non-rect. ± 0.8 (***) Rect.	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
Thickness Spessore	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 Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
		± 0.8 (****) Non-rect. ± 0.4 (****) Rect.	± 0.5 (****) Non-rect. ± 0.3 (****) Rect.	± 2.0 (****) Non-rect. ± 1.5 (****) Rect.	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
		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 Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
Straightness of sides Rettilinearità degli spigoli	ISO 10545-2	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 Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
		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.	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
		± 0.8 (****) Non-rect. ± 0.4 (****) Rect.	± 0.5 (****) Non-rect. ± 0.3 (****) Rect.	± 2.0 (****) Non-rect. ± 1.5 (****) Rect.	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
Rectangularity (Measurement only on short edges when L/l ≥ 3) Ortogonalità (Misurazione da condurre solo sui lati corti quando L/l ≥ 3)	ISO 10545-2	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 Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
		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 Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
Surface flatness Planarità	ISO 10545-2	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.	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
		± 0.8 (****) Non-rect. ± 0.4 (****) Rect.	± 0.5 (****) Non-rect. ± 0.3 (****) Rect.	± 2.0 (****) Non-rect. ± 1.5 (****) Rect.	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme	
Water absorption (in% by mass) Massa d'acqua assorbita (come % della massa)	ISO 10545-3	E <sub>v</sub> ≤ 0.5% Individual Maximum 0.6% E <sub>v</sub> ≤ 0.5% Valore massimo singolo 0.6%			≤ 0.1 %	≤ 0.1 %	≤ 0.1 %	≤ 0.1 %	
	ASTM C373	Requirement ANSI A1371-2017 Water absorption max ≤ 0.5%			≤ 0.5 %	≤ 0.5 %	≤ 0.5 %	≤ 0.5 %	
Breaking strength Sforzo di rottura	ISO 10545-4	S ≥ 700N (for thickness < 7.5 mm - per spessore < 7.5 mm ) S ≥ 1300N (for thickness ≥ 7.5 mm - per spessore ≥ 7.5 mm )			S ≥ 1500 N	S ≥ 1000 N	S ≥ 1500 N	S ≥ 10000 N	
Modulus of rupture Resistenza alla flessione	ISO 10545-4	R ≥ 35 N/mm <sup>2</sup>			R ≥ 40 N/mm <sup>2</sup>	R ≥ 40 N/mm <sup>2</sup>	R ≥ 40 N/mm <sup>2</sup>	R ≥ 45 N/mm <sup>2</sup>	
		-			-	-	-	≥ T11 120x120 60x60	
Bending strength and breaking load Resistenza a flessione e al carico di rottura (4)/(5)	EN 1339 Annex F	-			-	-	-	≥ U4 60x120	
		-			-	-	-	≥ U4 60x120	
Impact resistance, as coefficient of restitution Resistenza all'impatto, espresso come coefficiente di restituzione	ISO 10545-5	Declared value Valore dichiarato			≥ 0.55	≥ 0.55	≥ 0.55	≥ 0.55	
		-			-	-	-	-	
Mohs hardness Durezza Mohs	EN 101	-			6	6	8	8	
Resistance to deep abrasion of unglazed tiles (removed volume) Resistenza all'abrasione profonda delle piastrelle non smaltate (volume materiale asportato)	ISO 10545-6	≤ 175 mm <sup>3</sup>			≤ 150 mm <sup>3</sup>	≤ 150 mm <sup>3</sup>	≤ 150 mm <sup>3</sup>	≤ 150 mm <sup>3</sup>	
Coefficient of thermal linear expansion Coefficiente di dilatazione termica lineare	ISO 10545-8	Declared value Valore dichiarato			≤ 7MK <sup>-1</sup>	≤ 7MK <sup>-1</sup>	≤ 7MK <sup>-1</sup>	≤ 7MK <sup>-1</sup>	
Thermal shock resistance Resistenza agli sbalzi termici	ISO 10545-9	Pass according to EN ISO 10545-1 Test superato in accordo con ISO 10545-1			Resistant Resiste	Resistant Resiste	Resistant Resiste	Resistant Resiste	
Moisture expansion (in mm/m) Dilatazione all'umidità (in mm/m)	ISO 10545-10	Declared value Valore dichiarato			≤ 0.01% (0.1mm/m)	≤ 0.01% (0.1mm/m)	≤ 0.01% (0.1mm/m)	≤ 0.01% (0.1mm/m)	
Frost resistance Resistenza al gelo	ISO 10545-12	Pass according to EN ISO 10545-1 Test superato in accordo con ISO 10545-1			Resistant Resiste	Resistant Resiste	Resistant Resiste	Resistant Resiste	
Bond strength/adhesion for improved cementitious adhesives Adesione a trazione con adesivi cementizi migliorati	EN 1348	Declared value Valore dichiarato			≥ 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 Reazione al fuoco	-	Class A1 or A1 <sub>s</sub> Classe A1 oppure A1 <sub>s</sub>			A1 - A1 <sub>s</sub>	A1 - A1 <sub>s</sub>	A1 - A1 <sub>s</sub>	A1 - A1 <sub>s</sub>	
Resistance to household chemicals and swimming pool salts Resistenza ai prodotti chimici di uso domestico e agli additivi per piscina	ISO 10545-13	Minimum Class B Classe minima B			A	A	A	A	
		Declared Class Classe dichiarata			LA	LA	LA	LA	
		Declared Class Classe dichiarata			HA	HA	HA	HA	
Resistance to staining, for unglazed tiles Resistenza alle macchie per piastrelle non smaltate	ISO 10545-14	Declared Class Classe dichiarata			5	5	5	5	
		-			-	-	-	-	
Shod Ramp Test Metodo della rampa "calzato"	EN 16165 ANNEX B (EX DIN 51130)	Declared value Valore dichiarato			R10	R9	R11	R11	
		-			-	-	-	-	
Barfoot Ramp Test Metodo della rampa a piedi nudi	EN 16165 ANNEX A (EX DIN 51097)	Declared value Valore dichiarato			A+B	A	A+B+C	A+B+C	
		-			-	-	-	-	
Pendulum Friction Test Metodo del Pendolo	BS 7976	PTV ≥ 36 classifies the surface as "low slip risk"			≥ 36 Dry ≥ 36 Wet	(●)	≥ 36 Dry ≥ 36 Wet	≥ 36 Dry ≥ 36 Wet	
		AS 4586	Declared Classification of the new pedestrian surface materials according to the Pendulum Test			Class P3	(●●)	Class P4	Class P4
(1)(2)	UNE-ENV 12633		Declared value Valore dichiarato			Class C2	(●●●)	Class C3	Class C3
		-			-	-	-	-	
Coefficient of friction (COF) Coefficiente di attrito	B.C.R.A. Rep. CEC/81	D. M. 236/89 del 14/06/89 μ > 0.40 per elemento scivolare cuoio su pavimentazione asciutta μ > 0.40 per elemento scivolare gomma dura su pavimentazione bagnata			> 0.40 Asciutto > 0.40 Bagnato	> 0.40 Asciutto > 0.40 Bagnato	> 0.40 Asciutto > 0.40 Bagnato	> 0.40 Asciutto > 0.40 Bagnato	
		-			-	-	-	-	
Dynamic coefficient of friction (DCOF) Coefficiente di attrito dinamico	ANSI A 326.3	-			wet DCOF ≥ 0.50	wet DCOF ≥ 0.42	wet DCOF ≥ 0.55	wet DCOF ≥ 0.55	
		-			-	-	-	-	

(\*) The permissible deviation, in % or mm, of the average size for each tile (2 or 4 sides) from work size (WS). Deviazione ammissibile, in % oppure mm, della dimensione media di ogni piastrella (2 oppure 4 lati) dalla dimensione di fabbricazione (WS).  
 (\*\*) The permissible deviation, in % or mm, of the average thickness for each tile from the work size thickness (WS). Deviazione ammissibile, in % oppure mm, dello spessore medio di ogni piastrella dallo spessore riportato nella dimensione di fabbricazione (WS).  
 (\*\*\*) The maximum permissible deviation from straightness, in % or mm, related to the corresponding work sizes (WS). Deviazione massima ammissibile di rettilinearità, in % oppure mm, in rapporto alle dimensioni di fabbricazione (WS) corrispondenti.  
 (\*\*\*\*) The maximum permissible deviation from rectangularity, in % or mm, related to the corresponding work sizes (WS). Deviazione massima ammissibile di ortogonalità, in % oppure mm, in rapporto alle dimensioni di fabbricazione (WS) corrispondenti.  
 c.c. The maximum permissible deviation from centre curvature, in % or mm, related to diagonal calculated from the work size (WS). Deviazione massima ammissibile della curvatura del centro, in % oppure mm, in rapporto alla diagonale calcolata secondo le dimensioni di fabbricazione (WS).  
 e.c. The maximum permissible deviation from edge curvature, in % or mm, related to the corresponding work sizes (WS). Deviazione massima ammissibile della curvatura dello spigolo, in % oppure mm, in rapporto alle dimensioni di fabbricazione (WS) corrispondenti.  
 w. The maximum permissible deviation from warpage, in % or mm, related to diagonal calculated from the work sizes (WS). Deviazione massima ammissibile dello sverglamento, in % oppure mm, in rapporto alla diagonale calcolata secondo le dimensioni di fabbricazione (WS).  
 (1) Determination of slip resistance of pedestrian surfaces; it does not cover sports surfaces and road surfaces for vehicles (skid resistance). Determinazione della resistenza allo scivolamento delle superfici pedonabili; non si applica alle pavimentazioni sportive ed alle pavimentazioni stradali veicolari.  
 (2) Anti-slip performance is guaranteed at the time of delivery of the product. Le prestazioni anti-slip vengono garantite al momento della consegna del prodotto.  
 (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 outdoor design general catalogue. Per maggiori informazioni riferirsi al catalogo generale Outdoor Design.  
 (5) Only for products with 20 mm thickness. Solo per prodotti a 20mm di spessore.  
 (e) PTV ≥ 36 Wet on demand / su richiesta  
 (●●) P3 on demand / su richiesta  
 (●●●) C2 on demand / su richiesta

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