

Laying tips

Sizes 18.5x150 – 7¹/₄"x59" | 20x120 – 7⁷/₈"x47¹/₄" cm
Stagger the planks at a maximum of 40 cm. It's best to stagger the tiles randomly (see the illustration).

Consigli per la posa. Sfalsare i listoni di 40 cm al massimo. Si consiglia di sfalsare le piastrelle in maniera irregolare. (vedi figura).

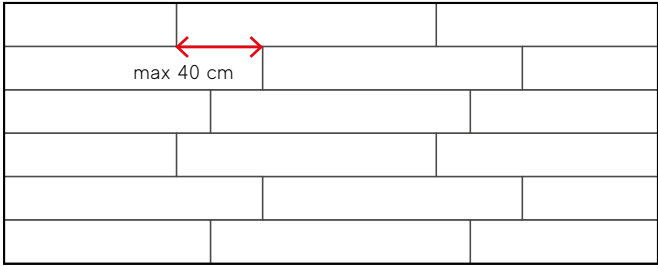
Conseils pour la pose. Décaler les listels de 40 cm maximum. Nous conseillons de décaler les carreaux de manière irrégulière. (voir la figure).

Tipps für die Verlegung. Die Dielen maximal um 40 cm versetzt verlegen. Es empfiehlt sich, die Fliesen in unregelmäßig versetztem Verband zu verlegen (siehe Abbildung).

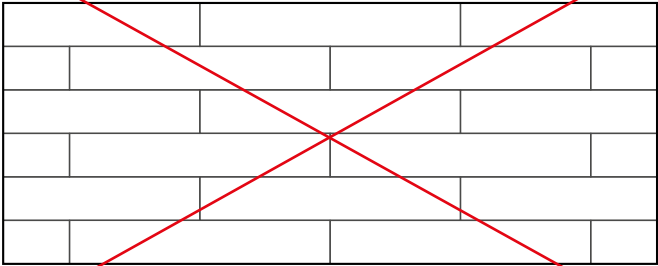
Recomendaciones para la instalación. Escalonar los listones un máximo de 40 cm. Se recomienda escalonar los azulejos de forma irregular (véase figura).

Рекомендации по укладке. Рекомендуется укладывать плитку со смещением не более 40 см. Кроме того, желательно смещать плитки неравномерно (см. рисунок).

Recommended laying patten - *Schema di posa consigliato*



Not recommended laying patten - *Schema di posa sconsigliato*



Porcelain Tiles - Rectified monocaliber

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

Gres porcellanato - Rettificato monocalibro

18.5x150 cm – 7¹/₄"x59"
20x120 cm – 7⁷/₈"x47¹/₄"

± 9 mm
± 9 mm

30x120 cm – 11³/₄"x47¹/₄"

± 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 Sensitech ± 9 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
	Thickness Spessore		± 0,5 (**)	± 5 (**)	± 0,5 (**)	Suitable for Conforme	Suitable for Conforme	Suitable for Conforme
	Straightness of sides Rettilineità degli spigoli		± 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
	Rectangularity (Measurement only on short edges when L/l ≥ 3) Ortogonalità (Misurazione da condurre solo sui lati corti quando 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 Conforme	Suitable for Conforme	Suitable for Conforme
	Surface flatness Planarità	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	Not applicable to 'strong' structures Non applicabile a strutturati forti
			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.			
	Water absorption (in % by mass) Massa d'acqua assorbita (come % della massa)	ISO 10545-3	E _p ≤ 0,5% Individual Maximum 0,6% E _v ≤ 0,5% Valore massimo singolo 0,6%			≤ 0,1%	≤ 0,1%	≤ 0,1%
		ASTM C373	Requirement ANSI A137.1 Water absorption max ≤ 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 ≥ 1500 N	S ≥ 10000 N
	Modulus of rupture Resistenza alla flessione		R ≥ 35 N/mm ²			R ≥ 40 N/mm ²	R ≥ 40 N/mm ²	R ≥ 45 N/mm ²
	Bending strength and breaking load Resistenza a flessione e al carico di rottura (4)(5)	EN 1339 Annex F	-			-	-	≥ U3 30x120
	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
	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 ³			≤ 150 mm ³	≤ 150 mm ³	≤ 150 mm ³
	Coefficient of thermal linear expansion Coefficiente di dilatazione termica lineare	ISO 10545-8	Declared value Valore dichiarato			≤ 7 MK ⁻¹	≤ 7 MK ⁻¹	≤ 7 MK ⁻¹
	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
	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)
	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
	Bond strength/adhesion for improved cementitious adhesives Adesione a trazione con adesivi cementizi migliorati	EN 1348	Declared value Valore dichiarato			≥ 1,0 N/mm ² (Class C2 - EN 12004)	≥ 1,0 N/mm ² (Class C2 - EN 12004)	≥ 1,0 N/mm ² (Class C2 - EN 12004)
	Reaction to fire Reazione al fuoco	-	Class A1 or A1 _f Classe A1 oppure A1 _f			A1 - A1 _f	A1 - A1 _f	A1 - A1 _f
	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
	Resistance to low concentrations of acids and alkalis Resistenza a basse concentrazioni di acidi e alcali		Declared Class Classe dichiarata			LA	LA	LA
	Resistance to high concentrations of acids and alkalis Resistenza ad alte concentrazioni di acidi e alcali		Declared Class Classe dichiarata			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
	Shod Ramp Test Metodo della rampa "calzato"	DIN EN 16165 ANNEX B (EX DIN 51130)	Declared value Valore dichiarato			R10	R11	R11
	Barefoot Ramp Test Metodo della rampa a piedi nudi	DIN EN 16165 ANNEX A (EX DIN 51097)	Declared value Valore dichiarato			A+B	A+B+C	A+B+C
	Pendulum Friction Test Metodo del Pendolo	EN 16165 ANNEX C (EX 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
		UNE 41901 EX:2017	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 scivolante cuoio su pavimentazione asciutta μ > 0,40 per elemento scivolante gomma dura su pavimentazione bagnata			> 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 ≥ 0,55	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).
(**) The permissible deviation, in % or mm, of the average thickness for each tile from the work size thickness (WS).
(***) The maximum permissible deviation from straightness, in % or mm, related to the corresponding work sizes (WS).
(****) The maximum permissible deviation from rectangularity, in % or mm, related to the corresponding work sizes (WS).
c.c. The maximum permissible deviation from centre curvature, in % or mm, related to diagonal calculated from the work sizes (WS).
e.c. The maximum permissible deviation from edge curvature, in % or mm, related to the corresponding work sizes (WS).
w. The maximum permissible deviation from warpage, in % or mm, related to diagonal calculated from the work sizes (WS).
(1) Determination of slip resistance of pedestrian surfaces; it does not cover sports surfaces and road surfaces for vehicles (skid resistance).
(2) Anti-slip performance is guaranteed at the time of delivery of the product.
(4) For further details, please refer to outdoor design general catalogue.
(5) Only for products with 10 mm thickness.