



Porcelain Pavers Installation Guide

Dear Customer,

This brief installation guide will provide you or the installer with a manual on how to properly install the B&F Ceramics 2 cm Porcelain Pavers. The tips and guide lines listed in this document are recommendations based on typical masonry or installation practices. Consulting your local codes department for their requirements is highly recommended as installation methods may vary from region to region. If you have questions, please feel free to contact us at 540-286-3000 or visit the factories' website www.florim.com for more information and tips.

Thank You,
The B&F Family

Installing on Gravel or Sand

Best used for Gardens, Courtyards, Patios, Gazebos, Walkways, & More.



- Be sure to even out & level the resting area
- Lay the tile piece on the gravel or sand, allowing a 1 cm or larger gap between each piece
- Use a rubber hammer to eliminate any unevenness
- Use your gravel or sand to fill in the joints and provide better stability to the surface

WARNING: Verify that the level of tile is in line with the level of the gravel layer in order to prevent the tile from shifting. This system cannot be installed for vehicle traffic.

Installing on Grass

Best used for Gardens, Gazebos, Walkways, Perimeter of Pools & More.



- Remove the soil below the area where the tile piece will be laid, roughly 5-7 cm thick
- In the removed soil area, apply a bed of gravel of 3-4 cm thick, compact the foundation
- Rest the tile piece(s) with at least a 1 cm gap & use a rubber hammer to remove any unevenness

WARNING: Ensure that the level of the tile is equal to the level of the grassy surface in order to prevent damage during mowing. This system cannot be installed for vehicle traffic.

Installing with Thin-Set over Concrete

Best used for Driveways, Garages, Sidewalks, Industrial Areas & More.



Before installing please consult the TCNA Handbook.

- Spread an approved exterior grade thin-set mortar over the concrete using the correct sized notched trowel
- Lay the pavers on the thin-set with minimum 1/8" to 3/16" joint spacing where the area is not large enough to require expansion joints, or with 3/8" spacing where expansion joints are present
- After the thin-set has dried, grout the pavers with an approved exterior grade grout













Additional Information

- Porcelain Stoneware will not change color or deteriorate over time
- Chemical Resistant. (i.e pool additives, household detergents, etc.)
- Weather Resistant; Rain, Wind, Salt, Mildew, Etc.
- Non-Slip
- Easy to clean
- Will not scratch
- The material can be easily re-positioned or moved if not glued.
- Made in Italy



www.bfceramics.com

20,00 mm / FINE PORCELAIN STONEWARE

	Reference standard E.N. 14411-ISO 13006 . Appendix G. Group BIa. UGL	Test method	Reference value	Declared value
	Admitted deviation, in %, of the average thickness of each tile from the production dimensions	ISO-10545-2	±5% (±0,5 mm)	±5% *
	Surface quality	ISO-10545-2	Il 95% min delle piastrelle deve essere esente da difetti visibili / At least 95% of the tiles must be free from visible flaws / 95% min des carreaux ne doivent présenter aucun défaut visible / Mindestens 95% der Fliesen müssen frei von sichtbaren / min. el 95% de las baldosas tiene que estar exento de defectos visibles	CONFORME / CONFORMING / CONFORME / KONFORM / CONFORME / COOTBETCTBYET
	Amount of water absorbed, in percentage	ISO-10545-3	E≤0,5%	average value 0,08%
	Breaking strength in N (thickness >= 7,5 mm)	ISO-10545-4	≥1300 Newton	average value 14000 N
	Bending strength in N/mm ²	ISO-10545-4	>35 N/mm ²	average value 52 N/mm ²
	Resistance to deep abrasion of unglazed tiles	ISO-10545-6	<175 mm ³	average value 140 mm ³
	Thermal shock resistance	ISO-10545-9	-	RESISTE / RESISTANT / RÉSISTE / ERFÜLLT / RESISTE / УСТОЙЧИВ
	Resistance to staining	ISO-10545-14	-	Cl. 3-4
	Resistance to domestic chemicals and additives for swimming pools	ISO-10545-13	UB minimo / UB minimum / UB minimum / UB mindestens / UB minimo	UA
	Resistance to high concentrations of acids and alkali	ISO-10545-13	Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante	UHA
	Resistance to low concentrations of acids and alkali	ISO-10545-13	Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante	ULA
	Slip resistance with shoes	DIN-51130:2010	-	R11 SLATE-HAMMERED

	Dynamic coefficient of friction (section 9.6 ANSI A 137.1 2012)	DCOF	>0,42 wet	>0,42 wet SLATE-HAMMERED
	Frost resistance	ISO-10545-12	Richiesta / Required / Requise / Gefordert / Requerida	RESISTE / RESISTANT / RÉSISTE / ERFÜLLT / RESISTE / УСТОЙЧИВ
	Barefoot slip resistance	DIN-51097	-	Cl. A+B+C SLATE-HAMMERED
	Length and width: admitted deviation, in %, of the average size of each tile from the production dimensions	ISO10545-2	±0,5% (±2 mm)	± 0,15% *
	Maximum right-angle deviation, in %, in relation to the corresponding production dimensions	ISO10545-2	±0,3% (±1,5 mm)	±0,2% *
	Maximum straightness deviation, in %, in relation to the corresponding production dimensions	ISO10545-2	±0,3% (±1,5 mm)	±0,1% *
	Flatness (centre curvature / edge curvature / warpage)	ISO10545-2	+0,5% -0,3% (+2mm, -1,5 mm) / +0,5% -0,3% (+2mm, -1,5 mm) / ±0,5% (± 2mm)	± 0,35%

Notes:

*Standards not applicable to 20,2x20,2 and 20,2x30,4 sizes for characteristic irregular shaped borders

Ceramic tiles undergo a compacting thermal treatment that ensures resistance and durability. The low level of water absorption makes the slabs frost resistant. This could result in superficial water stagnations even if materials are installed in a workmanlike manner.





Calibration of this product is not exact; please consider a 3 to 7 mm joint.
















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Floor Gres / Airtech

10,00 mm / FINE PORCELAIN STONEWARE

	Reference standard E.N. 14411-ISO 13006 . Appendix G. Group Bia. UGL	Test method	Reference value	Declared value
	Flatness (centre curvature / edge curvature / warpage)	ISO-10545-2	Squadrato ISO 13006 - ±0,4% (±1,8 mm)	± 0,35%
	Surface quality	ISO-10545-2	Il 95% min delle piastrelle deve essere esente da difetti visibili / At least 95% of the tiles must be free from visible flaws / 95% min des carreaux ne doivent présenter aucun défaut visible / Mindestens 95% der Fliesen müssen frei von sichtbaren / min. el 95% de las baldosas tiene que estar exento de defectos visibles	CONFORME / CONFORMING / CONFORME / KONFORM / CONFORME / COOTBETCTBYET
	Length and width: admitted deviation, in %, of the average size of each tile from the production dimensions	ISO-10545-2	Squadrato ISO 13006 - ±0,3% (±1 mm)	± 0,15%
	Admitted deviation, in %, of the average thickness of each tile from the production dimensions	ISO-10545-2	±5% (±0,5 mm)	±5%

	Maximum straightness deviation, in %, in relation to the corresponding production dimensions	ISO-10545-2	Squadrato ISO 13006 - $\pm 0,3\%$ ($\pm 0,8$ mm)	$\pm 0,1\%$
	Maximum right-angle deviation, in %, in relation to the corresponding production dimensions	ISO-10545-2	Squadrato ISO 13006 - $\pm 0,3\%$ ($\pm 1,5$ mm)	$\pm 0,2\%$
	Amount of water absorbed, in percentage	ISO-10545-3	$E \leq 0,5\%$	average value 0,08%
	Breaking strength in N (thickness $\geq 7,5$ mm)	ISO-10545-4	≥ 1300 Newton	average value 3200 N
	Bending strength in N/mm ²	ISO-10545-4	> 35 N/mm ²	average value 50 N/mm ²
	Resistance to deep abrasion of unglazed tiles	ISO-10545-6	< 175 mm ³	average value 140 mm ³
	Thermal shock resistance	ISO-10545-9	-	RÉSISTE / RESISTANT / RÉSISTE / ERFÜLLT / RESISTE / УСТОЙЧИВ
	Resistance to staining	ISO-10545-14	-	Cl. 4 HIGH-GLOSSY
	Resistance to staining	ISO-10545-14	-	Cl. 4-5 MATTE
	Resistance to staining	ISO-10545-14	-	Cl. 4 SLATE-HAMMERED
	Resistance to low concentrations of acids and alkali	ISO-10545-13	Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante	ULA MATTE
	Resistance to domestic chemicals and additives for swimming pools	ISO-10545-13	UB minimo / UB minimum / UB minimum / UB mindestens / UB minimo	UA
	Resistance to low concentrations of acids and alkali	ISO-10545-13	Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante	ULA SLATE-HAMMERED
	Resistance to low concentrations of acids and alkali	ISO-10545-13	Come dichiarato dal produttore / See manufacturer's declaration / Selon déclaration du producteur / Entsprechend der Herstellerangaben / Tal como declara el fabricante	ULB HIGH-GLOSSY
	Slip resistance with shoes	DIN-51130:2010	-	R11 SLATE-HAMMERED

	Slip resistance with shoes	DIN-51130:2010	-	R9 MATTE
	Dynamic coefficient of friction (section 9.6 ANSI A 137.1 2012)	DCOF	>0,42 wet	>0,42 wet SLATE-HAMMERED
	Dynamic coefficient of friction (section 9.6 ANSI A 137.1 2012)	DCOF	>0,42 wet	>0,42 wet MATTE
	Frost resistance	ISO-10545-12	Richiesta / Required / Requisite / Gefordert / Requerida	RESISTE / RESISTANT / RÉSISTE / ERFÜLLT / RESISTE / УСТОЙЧИВ
	Barefoot slip resistance	DIN-51097	-	Cl. A+B+C SLATE-HAMMERED
	Barefoot slip resistance	DIN-51097	-	Cl. A+B MATTE

Notes:

For optimal installation results, Florim recommends maintaining a joint of 2 mm 1/12" for single format installations and 3 mm 1/8" to combine mixed formats.