

Collection
CASTELLO



TILE PLUG

ITALIAN TILE ELEVATED SPACES

ITEM DATA - TECHNICAL SHEET

Shade variation / N. faces	V3 - Substantial shade variation	12	HS Code	69072100
DOC/DOP	CP0001PORCELAIN01072013		UPEC / WallPEC	Dos not apply
Use	Tiles subject to medium to heavy traffic. They can be installed in kitchens, public areas, not to mention places with heavy traffic.			
Installation recommendations	Interior ceramic floor and wall tiles. Do not bond >20% of the length of the length of the piece. Consult anti-slip data. More information on page 2 of 3			

TECHNICAL FEATURES

TEST		ISO 13006 / UNE EN 14411	
ISO 10545-2	Length and Width	$\pm 0,3 \% / \pm 1 \text{ mm}^{(3)}$	597 $\pm 0,5 \text{ mm}$ x 1197 $\pm 0,5$
	Thickness	$\pm 5 \% / \pm 0,5 \text{ mm}^{(3)}$	9,0 $\pm 5\%$
	Straightness of sides	$\pm 0,3 \% / \pm 0,8 \text{ mm}^{(3)}$	$\pm 0,6 \text{ mm}$
	Rectangularity	$\pm 0,3 \% / \pm 1,5 \text{ mm}^{(3)}$	$\pm 1,3 \text{ mm}$
	Centre curvature		- 0,6 mm / + 1,8 mm
	Edge curvature	$\pm 0,4 \% / \pm 1,8 \text{ mm}^{(3)}$	- 0,6 mm / + 1,2 mm
	Warpage		-0,4 mm / + 0,6 mm
ISO 10545-3	Water absorption	Ev $\leq 0,5 \%$ (máx. 0,6%)	0,25% ⁽²⁾
ISO 10545-4	Breaking strength	$\geq 1300 \text{ N}$	1600 N ⁽²⁾
	Modules of rupture	$\geq 35 \text{ N/mm}^2$	40 N/mm ² ⁽²⁾
ISO 10545-5	Impact resistance	Test method available	Resists
ISO 10545-6	Deep abrasion (unglazed)	$\leq 175 \text{ mm}^3$	Not applicable
ISO 10545-7	Abrasion resistance (glazed)	Declare abrasion	PEI 4
ISO 10545-8	Coefficient of linear thermal expansion	Declared value	6,2 x 10 ⁻⁶ °C ⁻¹
ISO 10545-9	Thermal shock resistance	Requested	Resists
ISO 10545-11	Crazing resistance (glazed)	Requested	Resists
ISO 10545-12	Frost resistance	Requested	Resists
ISO 10545-13	Resistance to chemicals	Mín. HB / LB / B	A - LA - HA
ISO 10545-14	Resistance to staining	Mín. 3	5
ISO 16165	Annex A - DIN 51097	Declare value	No aplica
	Annex B - DIN 51130	Declare value	No aplica
	Annex C - UNE 41901	Declare value	Clase 0
ANSI A326.3:2021	DCOF	Declare value	No determinado
AS 4586 WET	WET Pendulum Test	Declare value	Undeclared

(1) See size table in catalogue # technical data

(2) Average value obtained from the productions tested

(3) Apply the most restrictive value



ADVICE ON INSTALLATION, FINAL CLEANING AND MAINTENANCE. See QR code printed on our boxes.

INSTALLATION.

Before installation, check the quality, tone and calibre delivered so that there are no differences or errors in delivery.

Check and ensure that the substrate is level. For a correct fixing of the ceramic product, it is recommended to consult the EN 12004 standard for ceramic tile adhesives. The "stick-on" or "trowel-tip" installation is completely and totally inadvisable, as it does not guarantee the correct adhesion of the ceramic tile to the substrate, and generates weak points in the flooring/cladding. After gluing and settling, hammer with a white rubber mallet.

IMPORTANT. When cutting the tiles, respiratory protection type FFP3 must be used in order to avoid inhaling the dust produced by this process. Wet cutting is recommended to reduce the emission of this dust or ruby cutting.

For rectangular products, it is not recommended that the installation of a locking system exceeds 20% of the length of the parts.

Levelling systems are not a substitute for cross braces, spacers, tees, etc. The width of the levelling system must always be less than the width of the tile-to-tile joint. If this system is used, it is always recommended to install using the double gluing method. It is recommended to use at least 4 levellers for lengths > 60 cm, 3 between ≤ 60 to 30 cm, and 2 levellers for lengths < 30 cm.

For the generation of the tile-to-tile joint between adjacent ceramic tiles, the use of crosspieces is necessary to ensure the uniformity of the thickness of these joints. If the tiles are installed without a joint, in contact with each other, the accumulated stresses can cause the tiles to lift, bulge and chip.

The table below shows the width of each movement joint to be installed on site.:

LOCATION	TYPE OF JOINT		JOINT WIDTH
Inside	Installation	Between rectified - monocaliber / non-rectified tiles	≥ 2 mm / ≥ 3 mm
		Between rectified - monocaliber / non-rectified tiles over underfloor heating	≥ 3 mm / ≥ 5 mm
	Perimeter	Floor/wall meeting and wall/ceiling handover	≥ 8 mm
		Encounter wall/wall and delivery of other constructive elements	≥ 5 mm
	Dilatation	Every 6 to 8 linear metres	≥ 5 mm
Exterior	Installation	Between tiles	≥ 3 mm
	Perimetral Perimeter	Inside and outside corners of the building	≥ 8 mm
		Encounters other constructive elements	≥ 5 mm
	Dilatación	Below each slab	≥ 8 mm
		Every 3 - 4 m linear or in an area of 16 m ²	≥ 8 mm

Grouting. Before grouting, consult the manufacturer for the drying time of the adhesive. It is not recommended to use mortars or grouts coloured in contrast with the tiles (e.g. white floor with anthracite, black or brown grout). In areas where the presence of water is high (bathrooms, showers, kitchens, ...) it is recommended to use a waterproof or epoxy grout, in order to waterproof the cloth and protect the substrates and tiles from humidity.

IMPORTANT. After the installation of the ceramic flooring and its grouting, you must protect it from the rest of the work trades, in order to avoid aggressions or damages that may occur due to the transit of the professionals that work in the area.

FINAL CLEANING AND MAINTENANCE

It is important to remove all residue from the installation process, so after installation, proceed to wash the floor and/or wall covering before these adhesives harden. We recommend the following products:

STAIN	FABER - FILA
Epoxy residue	EPOXY CLEANER - CR10
Cementitious residue, efflorescence, rust, wall painting	CEMENT REMOVER – DETERDEK PRO
Stubborn dirt, plaster, metal marks and residues, footprints and shadows	TILE CLEANER – DETERDEK PRO
Coloured (coffee, wine, nicotine, marker, dye, urine, vomit, acidic beverages)	COLORLED STAIN REMOVER – PS 87 PRO POLISHING CREAM: Brightness restoration
Oil, food, grease, tyre or rubber marks, wax	DEEP DEGREASER – PS 87 PRO / CLEANER PRO OIL & GREASE REOMER: extraction of polished spots

Do not clean the newly installed material with acid products so as not to affect the adhesive and grout. Once the installation has set, if acid products are applied, it is advisable to carry out a preliminary test to verify their effectiveness and that they do not affect the ceramic product. Once the surface has been cleaned, rinse with plenty of water and change the water so as not to leave residues on the surface of the tiles.

In the case of flooring with anti-slip characteristics, it is important to point out that any maintenance, treatment and/or improper use could affect the performance of the product and its slipperiness, especially when cleaning with mechanical equipment.

No claims will be accepted for installed material.

The Tile Plug will not be held responsible for inadequate installation and/or maintenance and/or in accordance with the recommendations contained in this document and the UNE EN 138002 Standard.

DECLARATION OF PERFORMANCE

No. CP0001PORCELAIN01072013

UNIQUE IDENTIFICATION CODE OF THE PRODUCT TYPE

DRY-PRESSED CERAMIC TILES, WITH WATER ABSORPTION $E_b \leq 0.5\%$, TYPE 1

INTENDED USE(S)

FOR INTERNAL AND EXTERNAL FLOORINGS AND WALLS

SYSTEM OF ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE (AVCP):
SYSTEM 4

NAME AND IDENTIFICATION NUMBER OF NOTIFIED LABORATORY, **NOT APPLICABLE**
 DECLARED PERFORMANCES

Essential characteristics		Performance		Spécifications techniques
Reaction to fire		Class A1/A1 _{FL}		EN 14411:2012
Released of dangerous substance, for:		Cadmium	NPD	
		Lead	NPD	
Breaking strength	Thickness ≥ 7,5 mm	≥1300 N		
	Thickness < 7,5 mm	≥700 N		
Slipperiness		NPD		
Tactility		NPD		
Bond strength / adhesion, for:				
Cementitious Adhesive Type C2		>1 N/mm ²		
Thermal shock resistance		Pass		
Durability for:		Internal used	Pass	
		External used: freeze-thaw resistance	Pass	

The performance of the product identified above is in conformity with the declared performance, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer indicated above.



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