

















CODE	ITEM	FORMAT	GROUP
LPC490	<b>Iron Acero</b>	<b>90 X 90</b>	Bla – Annex G – DOP 03DP





### CARACTERÍSTICAS DEL ARTÍCULO

<b>BODY</b>	COLOURED BODY PORCELAIN		
<b>CLASS</b>	Unglazed		
<b>FINISH</b>	RECTIFIED PRODUCT WITH VERY HIGH SHADE VARIATION (V4)		
<b>PATTERN</b>	12		
<b>RECOMMENDATIONS FOR USE</b>	<b>5</b>	High traffic. Commercial areas, halls and public buildings	

### TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

DIMENSION TEST-NORM ISO 10545-2		TEST-NORM	NORM ISO 13006		
 LENGTH		EN-ISO 10545-2	±0,3%	±1,00mm	±0,06% B: 901,0±0,50mm
 WIDTH		EN-ISO 10545-2	±0,3%	±1,00mm	±0,06% B: 901,0±0,50mm
 THICKNESS		EN-ISO 10545-2	±5,00%	±0,50mm	±5,00% 9,5 ±0,48mm
 STRAIGHTNESS OF SIDES		EN-ISO 10545-2	±0,3%	±0,80mm	±0,07% ≤0,60 mm
 SQUARENESS		EN-ISO 10545-2	±0,3%	±1,50mm	±0,12% ≤1,10 mm
 LATERAL SURFACE FLATNESS / WARPAGE		EN-ISO 10545-2	±0,4%	± 1,80mm	+0,10% / -0,07% +0,90mm / -0,60mm

PHYSICAL PROPERTIES		TEST-NORM	PRESCRIBED VALUE OF NORM	
	SLIP RESISTANCE	EN 16165 Annex C	Manufacturer's declaration	CLASS 1
		ANSI A137: DCOF	Manufacturer's declaration	NOT APPLICABLE
		EN 16165 Annex B	Manufacturer's declaration	R9
		EN 16165 Annex A	Manufacturer's declaration	A
	WATER ABSORPTION	ISO 10545-3	≤0,5%	< 0,15%
	BREAKING STRENGTH	ISO 10545-4	1300 N	1910 N
	MODULUS OF RUPTURE	ISO 10545-4	35 N/mm <sup>2</sup>	39 N/mm <sup>2</sup>
	RESISTANCE TO ABRASION	ISO 14545-6	RESISTS	< 130 mm <sup>3</sup>
	IMPACTO	ISO 10545-5	Manufacturer's declaration	RESISTS
	COEFFICIENT OF EXPANSION	ISO 10545-8	9 · 10 <sup>-6</sup> K <sup>-1</sup>	6,2 · 10 <sup>-6</sup> K <sup>-1</sup>
	THERMAL RESISTANCE	ISO 10545-9	Manufacturer's declaration	RESISTS
	CRAZING RESISTANCE	ISO 10545-11	Required	RESISTS
	FROST RESISTANCE	ISO 10545-12	Manufacturer's declaration	RESISTS

CHEMICAL PROPERTIES		TEST-NORM	NORM ISO 13006		
	RESISTANCE TO ACIDS (WEAK)	CITRIC ACID	ISO 10545-13	Manufacturer's declaration	LA
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	LA
		POTASSIUM HYDROXIDE ( ÁLKALI )	ISO 10545-13	Manufacturer's declaration	LA
	RESISTANCE TO ACIDS (STRONG)	LACTIC ACID	ISO 10545-13	Manufacturer's declaration	HA
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	HA
		POTASSIUM HYDROXIDE ( ÁLKALI )	ISO 10545-13	Manufacturer's declaration	HA
	RESISTANCE TO HOUSEHOLD CLEANING PRODUCTS	ISO 10545-13	Minimum B	A	
	RESISTANCE TO STAINING	ISO 10545-14	Minimum 3	5	

# TIPS FOR INSTALLATION, MAINTENANCE AND CLEANING.

To achieve an optimal result in the installation of the ceramic product, it is essential to comply with the recommendations/indications of Standard UNE 138002:2017. In this document, we summarise some of them.

## 1.1. Before installation.

Before installation, verify that the ceramic product complies with the requirements, checking the model, format, colour, shade and calibre before laying. The numerical and alphabetical calibre codes indicate possible differences in shades and nominal measurements between production runs. Do not mix and install material if it does not have the same shade and calibre.

**Handle the pieces carefully to avoid problems of cracking or scratching, especially with white body, partially polished (lappato) or polished porcelain materials. Adequately protect tiles installed for flooring from the work transit until completion of the work.**

## 1.2. During installation (Standard UNE 138002: 2017).

For the bonding of the tiles use a quality cement adhesive and comb both the wall or the floor and the tile itself with a notched trowel with a size suitable to the format of the tile. Installation with a spot bonding technique is not appropriate. nor is it advisable to apply a thick layer or surplus product. Installation with traditional mortar, used for white or red body tiles do not guarantee good adhesion for porcelain stoneware tiles. To ensure good adherence to porcelain stoneware tiles it is essential to use specific bonding and mortaring materials: **Porcelain stoneware: C2 (only), White body: C1 (only).**

In places where it is necessary to increase waterproofing: bathrooms, showers, toilets, spas, etc. use a special waterproof epoxy mortar for joints. To achieve the waterproof sealing between the tiled wall and the bathtub or shower tray, it is recommended to use a specific PVC profile for this use or an application of epoxy or specific elastic, waterproof silicone sealant. Suitable tools should be used, such as a notched trowel, rubber mallet and grout float.

**A levelling system should be used to ensure the correct installation and levelling of the ceramic product, which allows the fixing and alignment of the tiles, which do not rectify a lack of flatness in the backing surface or the dimensional tolerances of the ceramic tiles themselves.**

These systems are developed to facilitate the final flatness of the cladding in adjoining pieces. Being as they apply a force to the tiles that are already installed, they should be applied within the rectification or touch-up time indicated by the adhesive's manufacturer. Check this on the product's specification sheet. The use of levelling systems do not eliminate the need to use crosstree pieces for joints.

**We recommend using protective discs in enamelled cladding bases to avoid damaging the surface when adjusting the bases or removing the system. For correct installation of levelling systems, consult the manufacturer.**

This document is for informational purposes only and does not oblige the ceramic manufacturer in any way as it is attached to the ceramic systems in order to assist the fitter with installation.

**The joint between tiles should be set with crosstree pieces. Do not use levelling wedges to set the joint width. Installation without joint (less than 1.5 mm of joint between tiles) is not recommended in any case.**

The sides of the tiles should be perfectly clean before the next tile is placed. The tiles should be perfectly aligned to maintain the vertical and horizontal surfaces of all joints. **50% offset or overlapped pieces is not recommended in any case.**

It is only possible to carry out an installation with joints bonded at a maximum of 20% in the rectangular format porcelain stoneware and red body tiles.

The joints recommended

- 1.5 mm, rectified interior coverings.
- 2 mm, rectified interior floor covering.
- 2.5 mm, non-rectified interior materials, both flooring and cladding.
- Exterior, the joint should be greater than 3 mm, recommended 5 mm.

The joint must be sealed with "thin joint" mortar free of aggregates. Grouting materials containing "black smoke" (black joints) should not be used. On walls with internal angles, it is necessary to leave 5 millimetres free due to the possible expansion of the tiles. It will be necessary to plan and execute perimeter joints correctly 5 mm in rooms greater than 7 m<sup>2</sup>, and 5 mm minimum expansion every 20 to 40 m<sup>2</sup> of exterior surface and double in interiors.

## 1.3. Maintenance.

Once the installation process is complete, the remaining material must be removed before it hardens. Adequately protect tiles and flooring installed from work transit until completion of the work. Carry out an initial cleaning with a non-abrasive product, suitable for the type of dirt to be removed in each case (hydrofluoric acid and derivatives). **For daily maintenance cleaning, it is sufficient to use hot water and neutral detergent with high cleaning power, such as FilaCleaner.** A clean sponge should be used to clean the parts, do not use scouring pads or other materials that could damage/scratch the surface of the product, especially on enamelled, polished or metallic materials. Do not use any abrasive or excessively acidic products. **For non-slip products, use the appropriate cleaning product and adequate maintenance frequency/intensity according to the non-slip characteristics of the installed ceramic and the dirt to be removed.**

- Recommendations for cases of intense and/or encrusted dirt: Product to use:
- Cement, limescale, metal scratches, rust. DETERDEK
- Residue from epoxy grout. FILA CR10
- Fats, drinks, food, rubber, dye, marker pen, plastic paint drops. FILA PS/87
- Painted graffiti. FILA NOPAINT STAR
- Candle wax, tree resins, adhesive tape residue. FILASOLV

## 1.4. Other considerations.

It is recommended to follow the guidelines established in the "UNE Standard 138002: 2017 General rules for the execution of ceramic tiles with adhesion" as this will be the reference in the event of any claims in Spain. The installation of the product constitutes its acceptance and therefore no claims will be accepted if the products are not installed in accordance with these premises. The end customer will be responsible for maintenance throughout the useful life of the products, to ensure that the technical characteristics are kept unchanged for the duration of their use.

**The manufacturer will not be held liable for the construction practices of the ceramic system, if the installation of the ceramic product is not carried out in accordance with the indications expressed in said standard.**

**IMPORTANT: Ceramic tiles at the end of their useful life are an inert waste, for proper management deliver them to an authorised waste manager, promoting recycling.**

# DECLARACIÓN DE PRESTACIONES / Nº. 03DP

DECLARATION OF PERFORMANCE

## 1.- Código de identificación única del producto tipo / Unique identification code of the product-type:

Baldosa cerámica prensada en seco, con absorción de agua  $E_b \leq 0.5\%$   
(Ceramic tiles, dust pressed with water absorption  $E_b \leq 0.5\%$ )

## 2.- Usos previstos / Entended use/es:

Para suelos y paredes interiores y exteriores  
(For internal and external floorings and walls)

## 3.- Fabricante / Manufacturer:

## 4.- Sistema de evaluación y verificación de la constancia de prestaciones (EVCP):

System/s of assessment and verification of constancy of performance (AVCP):

Sistema 4  
System 4

## 5.- Norma armonizada / Harmonised standard

EN 14411:2016

## 6.- Organismo notificado / Notified body/ies:

No aplica  
Not apply

## 7.- Prestaciones declaradas / Declared performances:

Características esenciales Essential Characteristics	Prestaciones Performance
<b>Reacción al fuego</b> Reaction to fire	A1 FL/A1
<b>Emisión de sustancias peligrosas:</b> Release of dangerous substance, for: <b>Cadmio (Cadmium)</b> Plomo (Lead)	PND PND
<b>Fuerza de rotura</b> Breaking strength	$e < 7.5 \geq 700$ N $e \geq 7.5 \geq 1300$ N
<b>Deslizamiento</b> Slipperiness	PND
<b>Propiedades táctiles</b> Tactility	PND
<b>Adhesión, para:</b> Bond strength/adhesión, for: <b>Adhesivo cementoso tipo C2 (Cementitious adhesive, type C2)</b>	$> 1$ N/mm <sup>2</sup>
<b>Durabilidad para: usos interiores</b> Durability for: internal use	Cumple (Pass)
<b>Durabilidad para usos exteriores: resistencia a la helada</b> Durability for external use: freeze-thaw resistance	Cumple (Pass)
<b>Resistencia al choque térmico</b> Thermal shock resistance	Cumple (Pass)

Las prestaciones del producto identificado anteriormente son conformes con el conjunto de prestaciones declaradas. La presente declaración de prestaciones se emite, de conformidad con el Reglamento (UE) nº 305/2011, bajo la sola responsabilidad del fabricante arriba indicado.

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

Firmado por y en nombre del fabricante por / Signed for and on behalf of the manufacturer by:

Ricardo Martínez Rodríguez

En/At San Juan de Moró el/on 22/02/2021

Firma/Signature



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1700 Stutz Drive, Ste 122  
Troy, MI 48084  
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Please note, all specifications have been supplied by the manufacturer and are subject to change.

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CODE	ITEM	FORMAT	GROUP
LPG490	Iron Acero Décor	30 X 90	BIII – Annex L – DOP 05DP





### CARACTERÍSTICAS DEL ARTÍCULO

<b>BODY</b>	WHITE BODY WALL TILE
<b>CLASS</b>	Glazed
<b>FINISH</b>	RECTIFIED PRODUCT WITH VERY HIGH SHADE VARIATION
<b>PATTERN</b>	14
<b>RECOMMENDATIONS FOR USE</b>	<b>2</b> Interior wall tiles

### TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

DIMENSION TEST-NORM ISO 10545-2		TEST-NORM	NORM ISO 13006		
 LENGTH		EN-ISO 10545-2	±0,3%	±1,00mm	±0,06% G: 898,0±0,50mm
 WIDTH		EN-ISO 10545-2	±0,3%	±0,89mm	±0,17% G: 298,0±0,50mm
 THICKNESS		EN-ISO 10545-2	±5,00%	±0,50mm	±5,00% 9,7 ±0,48mm
 STRAIGHTNESS OF SIDES		EN-ISO 10545-2	±0,3%	±0,80mm	±0,07% ≤0,60 mm
 SQUARENESS		EN-ISO 10545-2	±0,3%	±1,50mm	±0,12% ≤1,10 mm
 LATERAL SURFACE FLATNESS / WARPAGE		EN-ISO 10545-2	±0,4%	± 1,80mm	+0,12% / -0,06% +1,10mm / -0,50mm

PHYSICAL PROPERTIES		TEST-NORM	PRESCRIBED VALUE OF NORM	
	SLIP RESISTANCE	EN 16165 Annex C	Manufacturer's declaration	NOT APPLICABLE
		ANSI A137: DCOF	Manufacturer's declaration	NOT APPLICABLE
		EN 16165 Annex B	Manufacturer's declaration	NOT APPLICABLE
		EN 16165 Annex A	Manufacturer's declaration	NOT APPLICABLE
	WATER ABSORPTION	ISO 10545-3	>10%	12% < E < 18%
	BREAKING STRENGTH	ISO 10545-4	600 N	800 N
	MODULUS OF RUPTURE	ISO 10545-4	12 N/mm <sup>2</sup>	19 N/mm <sup>2</sup>
	RESISTANCE TO ABRASION	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
	IMPACTO	ISO 10545-5	Manufacturer's declaration	NOT APPLICABLE
	COEFFICIENT OF EXPANSION	ISO 10545-8	9 · 10 <sup>-6</sup> K <sup>-1</sup>	6,5 · 10 <sup>-6</sup> K <sup>-1</sup>
	THERMAL RESISTANCE	ISO 10545-9	Manufacturer's declaration	RESISTS
	CRAZING RESISTANCE	ISO 10545-11	Required	RESISTS
	FROST RESISTANCE	ISO 10545-12	Manufacturer's declaration	NOT APPLICABLE

CHEMICAL PROPERTIES		TEST-NORM	NORM ISO 13006		
	RESISTANCE TO ACIDS (WEAK)	CITRIC ACID	ISO 10545-13	Manufacturer's declaration	LA
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	LA
		POTASSIUM HYDROXIDE ( ÁLKALI )	ISO 10545-13	Manufacturer's declaration	LA
	RESISTANCE TO ACIDS (STRONG)	LACTIC ACID	ISO 10545-13	Manufacturer's declaration	HA
		HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	HA
		POTASSIUM HYDROXIDE ( ÁLKALI )	ISO 10545-13	Manufacturer's declaration	HA
	RESISTANCE TO HOUSEHOLD CLEANING PRODUCTS	ISO 10545-13	Minimum B	A	
	RESISTANCE TO STAINING	ISO 10545-14	Minimum 3	5	

# TIPS FOR INSTALLATION, MAINTENANCE AND CLEANING.

To achieve an optimal result in the installation of the ceramic product, it is essential to comply with the recommendations/indications of Standard UNE 138002:2017. In this document, we summarise some of them.

## 1.1. Before installation.

Before installation, verify that the ceramic product complies with the requirements, checking the model, format, colour, shade and calibre before laying. The numerical and alphabetical calibre codes indicate possible differences in shades and nominal measurements between production runs. Do not mix and install material if it does not have the same shade and calibre.

**Handle the pieces carefully to avoid problems of cracking or scratching, especially with white body, partially polished (lappato) or polished porcelain materials. Adequately protect tiles installed for flooring from the work transit until completion of the work.**

## 1.2. During installation (Standard UNE 138002: 2017).

For the bonding of the tiles use a quality cement adhesive and comb both the wall or the floor and the tile itself with a notched trowel with a size suitable to the format of the tile. Installation with a spot bonding technique is not appropriate. nor is it advisable to apply a thick layer or surplus product. Installation with traditional mortar, used for white or red body tiles do not guarantee good adhesion for porcelain stoneware tiles. To ensure good adherence to porcelain stoneware tiles it is essential to use specific bonding and mortaring materials: **Porcelain stoneware: C2 (only), White body: C1 (only).**

In places where it is necessary to increase waterproofing: bathrooms, showers, toilets, spas, etc. use a special waterproof epoxy mortar for joints. To achieve the waterproof sealing between the tiled wall and the bathtub or shower tray, it is recommended to use a specific PVC profile for this use or an application of epoxy or specific elastic, waterproof silicone sealant. Suitable tools should be used, such as a notched trowel, rubber mallet and grout float.

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These systems are developed to facilitate the final flatness of the cladding in adjoining pieces. Being as they apply a force to the tiles that are already installed, they should be applied within the rectification or touch-up time indicated by the adhesive's manufacturer. Check this on the product's specification sheet. The use of levelling systems do not eliminate the need to use crosstree pieces for joints.

**We recommend using protective discs in enamelled cladding bases to avoid damaging the surface when adjusting the bases or removing the system. For correct installation of levelling systems, consult the manufacturer.**

This document is for informational purposes only and does not oblige the ceramic manufacturer in any way as it is attached to the ceramic systems in order to assist the fitter with installation.

**The joint between tiles should be set with crosstree pieces. Do not use levelling wedges to set the joint width. Installation without joint (less than 1.5 mm of joint between tiles) is not recommended in any case.**

The sides of the tiles should be perfectly clean before the next tile is placed. The tiles should be perfectly aligned to maintain the vertical and horizontal surfaces of all joints. **50% offset or overlapped pieces is not recommended in any case.**

It is only possible to carry out an installation with joints bonded at a maximum of 20% in the rectangular format porcelain stoneware and red body tiles.

The joints recommended

- 1.5 mm, rectified interior coverings.
- 2 mm, rectified interior floor covering.
- 2.5 mm, non-rectified interior materials, both flooring and cladding.
- Exterior, the joint should be greater than 3 mm, recommended 5 mm.

The joint must be sealed with "thin joint" mortar free of aggregates. Grouting materials containing "black smoke" (black joints) should not be used. On walls with internal angles, it is necessary to leave 5 millimetres free due to the possible expansion of the tiles. It will be necessary to plan and execute perimeter joints correctly 5 mm in rooms greater than 7 m<sup>2</sup>, and 5 mm minimum expansion every 20 to 40 m<sup>2</sup> of exterior surface and double in interiors.

## 1.3. Maintenance.

Once the installation process is complete, the remaining material must be removed before it hardens. Adequately protect tiles and flooring installed from work transit until completion of the work. Carry out an initial cleaning with a non-abrasive product, suitable for the type of dirt to be removed in each case (hydrofluoric acid and derivatives). **For daily maintenance cleaning, it is sufficient to use hot water and neutral detergent with high cleaning power, such as FilaCleaner.** A clean sponge should be used to clean the parts, do not use scouring pads or other materials that could damage/scratch the surface of the product, especially on enamelled, polished or metallic materials. Do not use any abrasive or excessively acidic products. **For non-slip products, use the appropriate cleaning product and adequate maintenance frequency/intensity according to the non-slip characteristics of the installed ceramic and the dirt to be removed.**

- Recommendations for cases of intense and/or encrusted dirt: Product to use:
- Cement, limescale, metal scratches, rust. DETERDEK
- Residue from epoxy grout. FILA CR10
- Fats, drinks, food, rubber, dye, marker pen, plastic paint drops. FILA PS/87
- Painted graffiti. FILA NOPAINT STAR
- Candle wax, tree resins, adhesive tape residue. FILASOLV

## 1.4. Other considerations.

It is recommended to follow the guidelines established in the "UNE Standard 138002: 2017 General rules for the execution of ceramic tiles with adhesion" as this will be the reference in the event of any claims in Spain. The installation of the product constitutes its acceptance and therefore no claims will be accepted if the products are not installed in accordance with these premises. The end customer will be responsible for maintenance throughout the useful life of the products, to ensure that the technical characteristics are kept unchanged for the duration of their use.

**The manufacturer will not be held liable for the construction practices of the ceramic system, if the installation of the ceramic product is not carried out in accordance with the indications expressed in said standard.**

**IMPORTANT: Ceramic tiles at the end of their useful life are an inert waste, for proper management deliver them to an authorised waste manager, promoting recycling.**

# DECLARACIÓN DE PRESTACIONES / Nº. 05DP

DECLARATION OF PERFORMANCE

1.- **Código de identificación única del producto tipo / Unique identification code of the product-type:**

**Baldosa cerámica prensada en seco, con absorción de agua Eb > 10 %**  
(Ceramic tiles, dust pressed with water absorption Eb > 10 %)

2.- **Usos previstos / Entended use/es:**

**Para paredes interiores**  
(For internal wall)

3.- **Fabricante / Manufacturer:**

4.- **Sistema de evaluación y verificación de la constancia de prestaciones (EVCP):**

System/s of assessment and verification of constancy of performance (AVCP):

**Sistema 4**  
System 4

5.- **Norma armonizada / Harmonised standard**

**EN 14411:2016**

6.- **Organismo notificado / Notified body/ies:**

**No aplica**  
Not apply

7.- **Prestaciones declaradas / Declared performances:**

<b>Características esenciales</b> (Essential Characteristics)	<b>Prestaciones</b> (Performance)
<b>Reacción al fuego</b> (Reaction to fire)	A1
<b>Emisión de sustancias peligrosas:</b> (Release of dangerous substance) Cadmio (Cadmium) Plomo (Lead)	PND PND
<b>Adhesión</b> (Bond strength/adhesion)	PND
<b>Durabilidad para: usos interiores</b> (Durability for internal use)	Cumple (Pass)

**Las prestaciones del producto identificado anteriormente son conformes con el conjunto de prestaciones declaradas. La presente declaración de prestaciones se emite, de conformidad con el Reglamento (UE) nº 305/2011, bajo la sola responsabilidad del fabricante arriba indicado.**

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

Firmado por y en nombre del fabricante por / Signed for and on behalf of the manufacturer by:

Ricardo Martínez Rodríguez

En/At San Juan de Moró el/on 22/02/2021

Firma/ Signature









Please note, all specifications have been supplied by the manufacturer and are subject to change.











CODE	ITEM	FORMAT	GROUP
LPC490	<b>Iron Oxido</b>	<b>90 X 90</b>	Bla – Annex G – DOP 03DP





### CARACTERÍSTICAS DEL ARTÍCULO

<b>BODY</b>	COLOURED BODY PORCELAIN		
<b>CLASS</b>	Unglazed		
<b>FINISH</b>	RECTIFIED PRODUCT WITH VERY HIGH SHADE VARIATION (V4)		
<b>PATTERN</b>	12		
<b>RECOMMENDATIONS FOR USE</b>	<b>5</b>	High traffic. Commercial areas, halls and public buildings	

### TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

DIMENSION TEST-NORM ISO 10545-2		TEST-NORM	NORM ISO 13006		
 LENGTH		EN-ISO 10545-2	±0,3%	±1,00mm	±0,06% B: 901,0±0,50mm
 WIDTH		EN-ISO 10545-2	±0,3%	±1,00mm	±0,06% B: 901,0±0,50mm
 THICKNESS		EN-ISO 10545-2	±5,00%	±0,50mm	±5,00% 9,5 ±0,48mm
 STRAIGHTNESS OF SIDES		EN-ISO 10545-2	±0,3%	±0,80mm	±0,07% ≤0,60 mm
 SQUARENESS		EN-ISO 10545-2	±0,3%	±1,50mm	±0,12% ≤1,10 mm
 LATERAL SURFACE FLATNESS / WARPAGE		EN-ISO 10545-2	±0,4%	± 1,80mm	+0,10% / -0,07% +0,90mm / -0,60mm

PHYSICAL PROPERTIES		TEST-NORM	PRESCRIBED VALUE OF NORM	
 SLIP RESISTANCE		EN 16165 Annex C	Manufacturer's declaration	CLASS 1
		ANSI A137: DCOF	Manufacturer's declaration	NOT APPLICABLE
		EN 16165 Annex B	Manufacturer's declaration	R9
		EN 16165 Annex A	Manufacturer's declaration	A
 WATER ABSORPTION		ISO 10545-3	≤0,5%	< 0,15%
 BREAKING STRENGTH		ISO 10545-4	1300 N	1910 N
 MODULUS OF RUPTURE		ISO 10545-4	35 N/mm <sup>2</sup>	39 N/mm <sup>2</sup>
 RESISTANCE TO ABRASION		ISO 14545-6	RESISTS	< 130 mm <sup>3</sup>
 IMPACTO		ISO 10545-5	Manufacturer's declaration	RESISTS
 COEFFICIENT OF EXPANSION		ISO 10545-8	$9 \cdot 10^{-6} K^{-1}$	$6,2 \cdot 10^{-6} K^{-1}$
 THERMAL RESISTANCE		ISO 10545-9	Manufacturer's declaration	RESISTS
 CRAZING RESISTANCE		ISO 10545-11	Required	RESISTS
 FROST RESISTANCE		ISO 10545-12	Manufacturer's declaration	RESISTS

CHEMICAL PROPERTIES		TEST-NORM	NORM ISO 13006	
 RESISTANCE TO ACIDS (WEAK)	CITRIC ACID	ISO 10545-13	Manufacturer's declaration	LA
	HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	LA
	POTASSIUM HYDROXIDE ( ÁLKALI )	ISO 10545-13	Manufacturer's declaration	LA
 RESISTANCE TO ACIDS (STRONG)	LACTIC ACID	ISO 10545-13	Manufacturer's declaration	HA
	HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration	HA
	POTASSIUM HYDROXIDE ( ÁLKALI )	ISO 10545-13	Manufacturer's declaration	HA
 RESISTANCE TO HOUSEHOLD CLEANING PRODUCTS		ISO 10545-13	Minimum B	A
 RESISTANCE TO STAINING		ISO 10545-14	Minimum 3	5

# TIPS FOR INSTALLATION, MAINTENANCE AND CLEANING.

To achieve an optimal result in the installation of the ceramic product, it is essential to comply with the recommendations/indications of Standard UNE 138002:2017. In this document, we summarise some of them.

## 1.1. Before installation.

Before installation, verify that the ceramic product complies with the requirements, checking the model, format, colour, shade and calibre before laying. The numerical and alphabetical calibre codes indicate possible differences in shades and nominal measurements between production runs. Do not mix and install material if it does not have the same shade and calibre.

**Handle the pieces carefully to avoid problems of cracking or scratching, especially with white body, partially polished (lappato) or polished porcelain materials. Adequately protect tiles installed for flooring from the work transit until completion of the work.**

## 1.2. During installation (Standard UNE 138002: 2017).

For the bonding of the tiles use a quality cement adhesive and comb both the wall or the floor and the tile itself with a notched trowel with a size suitable to the format of the tile. Installation with a spot bonding technique is not appropriate. nor is it advisable to apply a thick layer or surplus product. Installation with traditional mortar, used for white or red body tiles do not guarantee good adhesion for porcelain stoneware tiles. To ensure good adherence to porcelain stoneware tiles it is essential to use specific bonding and mortaring materials: **Porcelain stoneware: C2 (only), White body: C1 (only).**

In places where it is necessary to increase waterproofing: bathrooms, showers, toilets, spas, etc. use a special waterproof epoxy mortar for joints. To achieve the waterproof sealing between the tiled wall and the bathtub or shower tray, it is recommended to use a specific PVC profile for this use or an application of epoxy or specific elastic, waterproof silicone sealant. Suitable tools should be used, such as a notched trowel, rubber mallet and grout float.

**A levelling system should be used to ensure the correct installation and levelling of the ceramic product, which allows the fixing and alignment of the tiles, which do not rectify a lack of flatness in the backing surface or the dimensional tolerances of the ceramic tiles themselves.**

These systems are developed to facilitate the final flatness of the cladding in adjoining pieces. Being as they apply a force to the tiles that are already installed, they should be applied within the rectification or touch-up time indicated by the adhesive's manufacturer. Check this on the product's specification sheet. The use of levelling systems do not eliminate the need to use crosstree pieces for joints.

**We recommend using protective discs in enamelled cladding bases to avoid damaging the surface when adjusting the bases or removing the system. For correct installation of levelling systems, consult the manufacturer.**

This document is for informational purposes only and does not oblige the ceramic manufacturer in any way as it is attached to the ceramic systems in order to assist the fitter with installation.

**The joint between tiles should be set with crosstree pieces. Do not use levelling wedges to set the joint width. Installation without joint (less than 1.5 mm of joint between tiles) is not recommended in any case.**

The sides of the tiles should be perfectly clean before the next tile is placed. The tiles should be perfectly aligned to maintain the vertical and horizontal surfaces of all joints. **50% offset or overlapped pieces is not recommended in any case.**

It is only possible to carry out an installation with joints bonded at a maximum of 20% in the rectangular format porcelain stoneware and red body tiles.

The joints recommended

- 1.5 mm, rectified interior coverings.
- 2 mm, rectified interior floor covering.
- 2.5 mm, non-rectified interior materials, both flooring and cladding.
- Exterior, the joint should be greater than 3 mm, recommended 5 mm.

The joint must be sealed with "thin joint" mortar free of aggregates. Grouting materials containing "black smoke" (black joints) should not be used. On walls with internal angles, it is necessary to leave 5 millimetres free due to the possible expansion of the tiles. It will be necessary to plan and execute perimeter joints correctly 5 mm in rooms greater than 7 m<sup>2</sup>, and 5 mm minimum expansion every 20 to 40 m<sup>2</sup> of exterior surface and double in interiors.

## 1.3. Maintenance.

Once the installation process is complete, the remaining material must be removed before it hardens. Adequately protect tiles and flooring installed from work transit until completion of the work. Carry out an initial cleaning with a non-abrasive product, suitable for the type of dirt to be removed in each case (hydrofluoric acid and derivatives). **For daily maintenance cleaning, it is sufficient to use hot water and neutral detergent with high cleaning power, such as FilaCleaner.** A clean sponge should be used to clean the parts, do not use scouring pads or other materials that could damage/scratch the surface of the product, especially on enamelled, polished or metallic materials. Do not use any abrasive or excessively acidic products. **For non-slip products, use the appropriate cleaning product and adequate maintenance frequency/intensity according to the non-slip characteristics of the installed ceramic and the dirt to be removed.**

- Recommendations for cases of intense and/or encrusted dirt: Product to use:
- Cement, limescale, metal scratches, rust. DETERDEK
- Residue from epoxy grout. FILA CR10
- Fats, drinks, food, rubber, dye, marker pen, plastic paint drops. FILA PS/87
- Painted graffiti. FILA NOPAINT STAR
- Candle wax, tree resins, adhesive tape residue. FILASOLV

## 1.4. Other considerations.

It is recommended to follow the guidelines established in the "UNE Standard 138002: 2017 General rules for the execution of ceramic tiles with adhesion" as this will be the reference in the event of any claims in Spain. The installation of the product constitutes its acceptance and therefore no claims will be accepted if the products are not installed in accordance with these premises. The end customer will be responsible for maintenance throughout the useful life of the products, to ensure that the technical characteristics are kept unchanged for the duration of their use.

**The manufacturer will not be held liable for the construction practices of the ceramic system, if the installation of the ceramic product is not carried out in accordance with the indications expressed in said standard.**

**IMPORTANT: Ceramic tiles at the end of their useful life are an inert waste, for proper management deliver them to an authorised waste manager, promoting recycling.**



# DECLARACIÓN DE PRESTACIONES / Nº. 03DP

DECLARATION OF PERFORMANCE

## 1.- Código de identificación única del producto tipo / Unique identification code of the product-type:

Baldosa cerámica prensada en seco, con absorción de agua  $E_b \leq 0.5\%$   
(Ceramic tiles, dust pressed with water absorption  $E_b \leq 0.5\%$ )

## 2.- Usos previstos / Entended use/es:

Para suelos y paredes interiores y exteriores  
(For internal and external floorings and walls)

## 3.- Fabricante / Manufacturer:

## 4.- Sistema de evaluación y verificación de la constancia de prestaciones (EVCP):

System/s of assessment and verification of constancy of performance (AVCP):

Sistema 4  
System 4

## 5.- Norma armonizada / Harmonised standard

EN 14411:2016

## 6.- Organismo notificado / Notified body/ies:

No aplica  
Not apply

## 7.- Prestaciones declaradas / Declared performances:

Características esenciales Essential Characteristics	Prestaciones Performance
<b>Reacción al fuego</b> Reaction to fire	A1 FL/A1
<b>Emisión de sustancias peligrosas:</b> Release of dangerous substance, for: <b>Cadmio (Cadmium)</b> Plomo (Lead)	PND PND
<b>Fuerza de rotura</b> Breaking strength	$e < 7.5 \geq 700$ N $e \geq 7.5 \geq 1300$ N
<b>Deslizamiento</b> Slipperiness	PND
<b>Propiedades táctiles</b> Tactility	PND
<b>Adhesión, para:</b> Bond strength/adhesión, for: <b>Adhesivo cementoso tipo C2 (Cementitious adhesive, type C2)</b>	$> 1$ N/mm <sup>2</sup>
<b>Durabilidad para: usos interiores</b> Durability for: internal use	Cumple (Pass)
<b>Durabilidad para usos exteriores: resistencia a la helada</b> Durability for external use: freeze-thaw resistance	Cumple (Pass)
<b>Resistencia al choque térmico</b> Thermal shock resistance	Cumple (Pass)

Las prestaciones del producto identificado anteriormente son conformes con el conjunto de prestaciones declaradas. La presente declaración de prestaciones se emite, de conformidad con el Reglamento (UE) nº 305/2011, bajo la sola responsabilidad del fabricante arriba indicado.

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

Firmado por y en nombre del fabricante por / Signed for and on behalf of the manufacturer by:

Ricardo Martínez Rodríguez

En/At San Juan de Moró el/on 22/02/2021

Firma/Signature



TROY  
1700 Stutz Drive, Ste 122  
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Please note, all specifications have been supplied by the manufacturer and are subject to change.

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Website: www.cercantile.com











CODE	ITEM	FORMAT	GROUP
LPG665	<b>Iron Oxido Décor</b>	<b>30 X 90</b>	BIII – Annex L – 05UKCA





### CARACTERÍSTICAS DEL ARTÍCULO

<b>BODY</b>	WHITE BODY WALL TILE
<b>CLASS</b>	Glazed
<b>FINISH</b>	RECTIFIED PRODUCT WITH VERY HIGH SHADE VARIATION
<b>PATTERN</b>	14
<b>RECOMMENDATIONS FOR USE</b>	<b>2</b> Interior wall tiles

### TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

DIMENSION	TEST-NORM ISO 10545-2	TEST-NORM	NORM ISO 13006		
 LENGTH	EN-ISO 10545-2	EN-ISO 10545-2	±0,3%	±1,00mm	±0,06% G: 898,0±0,50mm
 WIDTH	EN-ISO 10545-2	EN-ISO 10545-2	±0,3%	±0,89mm	±0,17% G: 298,0±0,50mm
 THICKNESS	EN-ISO 10545-2	EN-ISO 10545-2	±5,00%	±0,50mm	±5,00% 9,7 ±0,48mm
 STRAIGHTNESS OF SIDES	EN-ISO 10545-2	EN-ISO 10545-2	±0,3%	±0,80mm	±0,07% ≤0,60 mm
 SQUARENESS	EN-ISO 10545-2	EN-ISO 10545-2	±0,3%	±1,50mm	±0,12% ≤1,10 mm
 LATERAL SURFACE FLATNESS / WARPAGE	EN-ISO 10545-2	EN-ISO 10545-2	±0,4%	± 1,80mm	+0,12% / -0,06% +1,10mm / -0,50mm

PHYSICAL PROPERTIES	TEST-NORM	PRESCRIBED VALUE OF NORM	
 SLIP RESISTANCE	Wet & barefoot – TRL	Manufacturer's declaration	NOT APPLICABLE
	Dry & barefoot - TRL	Manufacturer's declaration	NOT APPLICABLE
	Wet & footwear – 4S	Manufacturer's declaration	NOT APPLICABLE
	Dry & footwear – 4S	Manufacturer's declaration	NOT APPLICABLE
 WATER ABSORPTION	ISO 10545-3	>10%	12% < E < 18%
 BREAKING STRENGTH	ISO 10545-4	600 N	800 N
 MODULUS OF RUPTURE	ISO 10545-4	12 N/mm <sup>2</sup>	19 N/mm <sup>2</sup>
 RESISTANCE TO ABRASION	NOT APPLICABLE	NOT APPLICABLE	NOT APPLICABLE
 IMPACTO	ISO 10545-5	Manufacturer's declaration	NOT APPLICABLE
 COEFFICIENT OF EXPANSION	ISO 10545-8	9 · 10 <sup>-6</sup> K <sup>-1</sup>	6,5 · 10 <sup>-6</sup> K <sup>-1</sup>
 THERMAL RESISTANCE	ISO 10545-9	Manufacturer's declaration	RESISTS
 CRAZING RESISTANCE	ISO 10545-11	Required	RESISTS
 FROST RESISTANCE	ISO 10545-12	Manufacturer's declaration	NOT APPLICABLE

CHEMICAL PROPERTIES	TEST-NORM	NORM ISO 13006	
 RESISTANCE TO ACIDS (WEAK)	CITRIC ACID	ISO 10545-13	Manufacturer's declaration LA
	HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration LA
	POTASSIUM HYDROXIDE ( ÁLKALI )	ISO 10545-13	Manufacturer's declaration LA
 RESISTANCE TO ACIDS (STRONG)	LACTIC ACID	ISO 10545-13	Manufacturer's declaration HA
	HYDROCHLORIC ACID	ISO 10545-13	Manufacturer's declaration HA
	POTASSIUM HYDROXIDE ( ÁLKALI )	ISO 10545-13	Manufacturer's declaration HA
 RESISTANCE TO HOUSEHOLD CLEANING PRODUCTS	ISO 10545-13	Minimum B	A
 RESISTANCE TO STAINING	ISO 10545-14	Minimum 3	5

# TIPS FOR INSTALLATION, MAINTENANCE AND CLEANING.

To achieve an optimal result in the installation of the ceramic product, it is essential to comply with the recommendations/indications of Standard UNE 138002:2017. In this document, we summarise some of them.

## 1.1. Before installation.

Before installation, verify that the ceramic product complies with the requirements, checking the model, format, colour, shade and calibre before laying. The numerical and alphabetical calibre codes indicate possible differences in shades and nominal measurements between production runs. Do not mix and install material if it does not have the same shade and calibre.

**Handle the pieces carefully to avoid problems of cracking or scratching, especially with white body, partially polished (lappato) or polished porcelain materials. Adequately protect tiles installed for flooring from the work transit until completion of the work.**

## 1.2. During installation (Standard UNE 138002: 2017).

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**IMPORTANT: Ceramic tiles at the end of their useful life are an inert waste, for proper management deliver them to an authorised waste manager, promoting recycling.**

## DECLARATION OF CONFORMITY / N°. 05UKCA

1.- Unique identification code of the product-type:

**Ceramic tiles, dust pressed with water absorption Eb > 10 %**

2.- Intended use/es:

**For internal walls**

3.- Name or registered trade mark and contact address of the manufacturer:

4.- System/s of assessment and verification of constancy of performance (AVCP):

**System 4**

5.- Harmonised standard

**BS EN 14411**

6.- Name and identification number of notified laboratory:

**Not aplicable**

7.- Declared performances

Essential Characteristics	Performance
Reaction to fire	A1
Release of dangerous substance, for: (Cadmium) (Lead)	PND PND
Bond strength	PND
Durability for: internal use	Complies

*The performance of the product identified above is in conformity with the set of declared performance/s. This declaration of conformity is issued, in accordance with Regulation (EU) No 305/2011, under the sole responsibility of the manufacturer identified above.*

*Signed for and on behalf of the manufacturer by:*

At San Juan de Moró on 08/March/2021

**Ricardo Martínez Rodríguez**

*Director of Quality Department*

Firma/ Signature



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