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TECHNICAL DATA OF PRODUCT

CODE P0005392	ITEM RC LAUNA BLANCO	FORMAT 45 X 45	GROUP Bla - Annex G - DOP PPBIA-001
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BODY	PORCELAIN	CLASS	Glazed
FINISH	NON RECTIFIED PRODUCT WITH SUBSTANTIAL SHADE VARIATION (V3)		
RECOMMENDATIONS FOR USE	Medium traffic. Apartments, common areas, kitchens, offices and family houses		4

TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

DIMENSION	TEST-NORM	NORM ISO 13006		RESIDENCE	
LENGTH	ISO 10545-2	±0,6%	±2,00mm	±0,13%	B: 450,8±0,60mm
WIDTH	ISO 10545-2	±0,6%	±2,00mm	±0,13%	B: 450,8±0,60mm
THICKNESS	ISO 10545-2	±5,00%	±0,50mm	±5,00%	7,2 ±0,36mm
STRAIGHTNESS OF SIDES	ISO 10545-2	±0,5%	±1,50mm	±0,24%	≤1,10 mm
SQUARENESS	ISO 10545-2	±0,5%	±2,00mm	±0,24%	≤1,10 mm
LATERAL SURFACE FLATNESS / WARPAGE	ISO 10545-2	±0,5%	± 2,00mm	+0,20% / -0,11%	+0,90mm / -0,50mm

PHYSICAL PROPERTIES	TEST-NORM	PRESCRIBED VALUE OF NORM	RESIDENCE
SLIP RESISTANCE	EN 16165 Annex A	Manufacturer's declaration	A+B
	EN 16165 Annex B	Manufacturer's declaration	R10
	EN 16165 Annex C	Manufacturer's declaration	NOT APPLICABLE
	ANSI A137: DCOF	Manufacturer's declaration	NOT APPLICABLE
WATER ABSORPTION	ISO 10545-3	≤0,5%	< 0,25%
BREAKING STRENGTH	ISO 10545-4	1300 N	1300 N
MODULUS OF RUPTURE	ISO 10545-4	35 N/mm²	35 N/mm²
IMPACTO	ISO 10545-5	Manufacturer's declaration	RESISTS
RESISTANCE TO ABRASION	ISO 10545-7	Manufacturer's declaration	PEI 4
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	RESIDENCE	
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	

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TECHNICAL DATA OF PRODUCT

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FINISH	NON RECTIFIED PRODUCT WITH SUBSTANTIAL SHADE VARIATION (V3)		
RECOMMENDATIONS FOR USE	Medium traffic. Apartments, common areas, kitchens, offices and family houses		4
FIXING	Minimal grout joint: interiors 2,5 mm/exteriors 3 mm. Do not bond.		
AREA OF USAGE	Humid interiors with less than 6% inclination: entrances areas, locker room,... Covered exteriors, covered terraces,... Dry interior stairs. / Exterior Facades. *(see applicable safety regulations)		
PATTERN	13		



INSTRUCTIONS FOR FIXING THE PRODUCT, MAINTENANCE & CLEANING

To achieve optimum results in the laying of this product it is essential that you carry out the following recommendations :

Before fixing

- Prior to the setting of the tile, verify that the ceramic product adjusts to the job specification. The number code and alphabetic code appearing on the box label refers to the shade and caliber respectively . Do not mix and match tiles from cartons showing different shade and caliber information on the same installation site.
- Handle the tiles with care to avoid problems of chipping and scratching.
- Plaster the walls and screed the floors before laying.

During fixing

- To fix the tiles, use a quality cement / adhesive and comb both walls, floors and the pieces themselves, combing with a jagged trowel of a size suitable to the format of the tile in question.
- The use of traditional gouts, used for white or red bodied glazed tiles, will not guarantee good adhesion of porcelain tiles. To guarantee good adhesion to the base, for porcelain tiles, the use of specific adhesive and grout is essential.
- In areas requiring waterproof reinforcement, use special epoxy waterproof mortars to seal the grouts. For an adequate waterproof sealing between bath walls and bathtub , the usage of an specific PVC glued profile, a special epoxy waterproof mortar or an special elastic waterproof silicone grout is recommended.
- When sealing , use the appropriate tools such as serrated trowels, drop hammer and rubber trowels. Do not use wedges to set the width of joint. For optimal placement is recommended mechanisms such as leveling pins.
- The sides of the tiles must be perfectly clean before the next tile can be laid. The tiles must be laid perfectly straight in order to maintain the vertical and horizontal alignment of all of the joints. In those cases in which you wish to bond the tiles, it should not be more than 20% of the tile.
- With polished and/or rectified material, the tiles are slightly bevelled, to avoid chipping and simplify laying. For this type of material, when joining the tiles, a gap of at least 1,5 mm must be left for rectified wall tiles and 2 mm for rectified floor tiles, which will then be grouted with "fine seal" type grout, free of any aggregates. In case of non-rectified material, the gap left for the joint must always be at least 2,5 mm wide. Sealing materials that contain "carbon black" (black grout) must not be used.
- On walls with internal angles, 5 millimetres of space must be left free for posible expansion of the tiles. It will be necessary to correctly and accurately plan and do 5 mm perimeter boundary joints on surfaces greater than 7 sq. meters, and 5 mm of expansion joints every 20 to 40 sq. meters of surface for exteriors and double that for interiors. Laying without joints is not recommended from a technical point of view.

After fixing / Maintenance

- Once the grouting process has been finished, we must remove any excess grout, before it can harden, going ahead with a first cleaning, using non-abrasive products (hydrofluoric acid and derivatives). The use of hot water with a neutral detergent is enough.
- Placed tiles must be properly protected until the construction activity finishes.
- For cleaning the tiles, you must use a clean sponge. Do not use a scourer or any other materials that might scratch the surface of the tiles. Do not use any product that is abrasive or excessively acidic.

For a good maintenance of the ceramic floor tili, we recomend the use of a neutral detergent of high cleaning power as FilaCleaner.

Recommendations for cases of intense and/or embedded dirt:	Product to use:
· Cement, lime water, stripes metals, oxides.	DETERDEK
· Waste epoxy joints resin.	FILA CR10
· Fats, beverages, food, rubber, dyes, marker, plastic paint droplets.	FILA PS/87
· Graffitis.	FILA NOPAINT STAR
· Candel wax, tree resins, waste adhesive tape	FILASOLV

OTHER CONSIDERATIONS

- Laying the tiles means that they have been accepted, and , as a result, no claims will be accepted for material installed, arising from a failure to comply with these premises.
- The data shown in the next technical page are valid only for the samples of the particular production previously reviewed.
- For proof of actual productions, you must contact the manufacturer directly.

DECLARATION OF PERFORMANCE
N. PPBIA-001

1. Unique identification code of the product type:
DRY-PRESSED CERAMIC TILES, WITH WATER ABSORPTION $E \leq 0,5\%$
2. Intended use or uses:
FOR INTERNAL FLOORS AND WALLS AND EXTERNAL WALLS
3. Name or registered trade mark, and contact address of the manufacturer:
KERABEN GRUPO S.A.U. Ctra. Valencia-Barcelona Km 44,3 12520 Nules (Castellón) España
4. System o systems of assessment and verification of constancy of performance:
System 4
5. Name and identification number of notified laboratory: **Not applicable**
6. Declared performances:

Essential characteristics	Performance	Harmonised technical specification
Reaction to fire (Decision 96/603/EEC amended)	Class A1-A1fl	EN 14411:2012
Breaking strength (ISO 10545-4)	≥ 1300 N	
Slip resistance	NPD	
Adhesion with cement adhesive type	Class C2: ≥ 1 N/mm ²	
Emissions of dangerous substances (Cadmium/lead emissions)	NPD	
Thermal shock resistance (ISO 10545-9)	Complies	
Durability for	Internal use	
	External use: freeze-thaw resistance (ISO 10545-12)	Complies

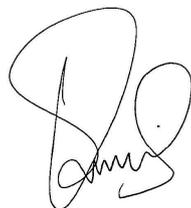
NPD: No Performance Determined

The performance of the product identified above is in conformity with the set of declared performances.

This declaration of performance 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:

KERABEN GRUPO, S.A.U.



Ricardo Martínez Rodríguez
Director of Quality Department