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TECHNICAL DATA OF PRODUCT

CODE	ITEM	FORMAT	GROUP
P0003800	IBA BORGHINI GOLD STARLIGHT	120 X 60	Bla - Annex G - DOP PPBIA-001

BODY	PORCELAIN	CLASS	Glazed
FINISH	POLISHED PRODUCT WITH VERY HIGH SHADE VARIATION (V4)		
RECOMMENDATIONS FOR USE	Medium traffic. Apartments, common areas, offices and family houses		

TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

DIMENSION		TEST-NORM	NORM ISO 13006		IBERO	
	LENGTH	ISO 10545-2	±0,3%	±1,00mm	±0,04%	Y: 1197,0±0,50mm
	WIDTH	ISO 10545-2	±0,3%	±1,00mm	±0,08%	Y: 597,0±0,50mm
	THICKNESS	ISO 10545-2	±5,00%	±0,50mm	±5,00%	10,4 ±0,50mm
	STRAIGHTNESS OF SIDES	ISO 10545-2	±0,3%	±0,80mm	±0,05%	≤0,60 mm
	SQUARENESS	ISO 10545-2	±0,3%	±1,50mm	±0,09%	≤1,10 mm
	LATERAL SURFACE FLATNESS / WARPAGE	ISO 10545-2	±0,4%	± 1,80mm	+0,08% / -0,04%	+0,90mm / -0,50mm

PHYSICAL PROPERTIES		TEST-NORM	PREScribed VALUE OF NORM	IBERO
	SLIP RESISTANCE	EN 16165 Annex A	Manufacturer's declaration	NOT APPLICABLE
		EN 16165 Annex B	Manufacturer's declaration	NOT APPLICABLE
		EN 16165 Annex C	Manufacturer's declaration	NOT APPLICABLE
		ANSI A137: DCOF	Manufacturer's declaration	NOT APPLICABLE
	WATER ABSORPTION	ISO 10545-3	≤0,5%	< 0,15%
	BREAKING STRENGTH	ISO 10545-4	1300 N	2376 N
	MODULUS OF RUPTURE	ISO 10545-4	35 N/mm²	42 N/mm²
	IMPACTO	ISO 10545-5	Manufacturer's declaration	RESISTS
	RESISTANCE TO ABRASION	ISO 14545-7	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	IBERO
	RESISTANCE TO ACIDS (WEAK)	CITRIC ACID	Manufacturer's declaration	LB
		HYDROCHLORIC ACID	Manufacturer's declaration	LA
		POTASSIUM HYDROXIDE (ÁLKALI)	Manufacturer's declaration	LA
	RESISTANCE TO ACIDS (STRONG)	LACTIC ACID	Manufacturer's declaration	HA
		HYDROCHLORIC ACID	Manufacturer's declaration	HA
		POTASSIUM HYDROXIDE (ÁLKALI)	Manufacturer's declaration	HB
	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

CODE	ITEM	FORMAT	GROUP
P0003800	IBA BORGHINI GOLD STARLIGHT	120 X 60	Bla - Annex G - DOP PPBIA-001

BODY	PORCELAIN	CLASS	Glazed
FINISH	POLISHED PRODUCT WITH VERY HIGH SHADE VARIATION (V4)		
RECOMMENDATIONS FOR USE	Medium traffic. Apartments, common areas, offices and family houses		
FIXING	Minimal grout joint: interiors 2 mm / exteriors 3 mm. Do not bond more than 20%.		
AREA OF USAGE	Dry Interiors. Private housing / Exterior Facades.		
PATTERN	12		



IBA BORGHINI GOLD STARLIGHT 120 X 60



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 epoxi 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 epoxi 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 untill 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

- In case the product ordered is for installation of Ventilated facades or bonded facades, please contact Keraben Systems for consultation and assistance.
- 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 Keraben Group S.A.U. directly.

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TECHNICAL DATA OF PRODUCT

CODE	ITEM	FORMAT	GROUP
P0003935	IBA BORGHINI ART GOLD STARLIGHT	120 X 60	Bla - Annex G - DOP PPBIA-001

BODY	PORCELAIN	CLASS	Glazed
FINISH	POLISHED PRODUCT WITH VERY HIGH SHADE VARIATION (V4)		
RECOMMENDATIONS FOR USE	Medium traffic. Apartments, common areas, offices and family houses		

TECHNICAL SPECIFICATIONS OF THE PRODUCT AS PER THE NORMS ISO 13006

DIMENSION	TEST-NORM	NORM ISO 13006		IBERO	
 LENGTH	ISO 10545-2	±0,3%	±1,00mm	±0,04%	Y: 1197,0±0,50mm
 WIDTH	ISO 10545-2	±0,3%	±1,00mm	±0,08%	Y: 597,0±0,50mm
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PHYSICAL PROPERTIES	TEST-NORM	PRESCRIBED VALUE OF NORM	IBERO
 SLIP RESISTANCE	EN 16165 Annex A	Manufacturer's declaration	NOT APPLICABLE
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 THERMAL RESISTANCE	ISO 10545-9	Manufacturer's declaration	RESISTS
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 RESISTANCE TO ACIDS (WEAK)	CITRIC ACID	Manufacturer's declaration	LA
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AREA OF USAGE	Dry Interiors. Private housing / Exterior Facades.		
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