

## PRODUCT CERTIFICATE LABORATORY OF FINISHED PRODUCT

ISO 13006-10545 Equivalent Brazilian Norm ABNT NBR ISO 13006 - NBR ISO 10545 Brazilian Performance Norm ABNT - NBR 15575

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BRANCO PISCINA 15x15\*\* Product:

Manufacturing Process:

Wet ceramic process

185850 Code:

V1

154,6 x 154,6 mm Manufacturing Size:

BIII Class:

Nominal Size:

15,5x15,5 cm

Typology:

Ceramic wall tile Thickness:

Shade

Coverage Area:

1,50m<sup>2</sup>/box

Variation: Grout Joint:

2 mm Pieces per box:

63,00

6,0 mm

Rectified: No Surface:

GL (Glazed)

		CH.	ARACTERISTICS	TESTING METHOD	SPECIFICATION		RESULTS
USAGE RECOMMENDATION	FIR	R Indoor dry residential floors					
	FLC	FLC Indoor light commercial floors, including the areas FIR					
	FMC Indoor medium commercial floors, including the areas FLC and FIR						
	FHC	FHC Indoor heavy commercial floors, including the areas FMC, FLC					
	FFO	Flat outdoor floors					
	FRO	O Outdoor inclines and ramps ( maximum slope of 8.33% )		Manufacturer's recommendation	According to the manufacturer's criteria		WRC WWS
RECC	WID	Indoor dry residential and commercial walls					
USAGE	FWI	/I Indoor wet residential and commercial floors					
	WRC	including the areas WID	or dry, residential and commercial walls, For regions reaching below freezing resistant tiles are indoor only.				
	wws	Swimming pool interior	walls, including the areas WRC and WID				
	WFA	External facades, includi	ng the areas WRC and WID				
	Deviation of W/N:		W - Work size (mm) N - Nominal Size (mm)	ISO 10545-2	ISO 13006:	± 3,10	± 3,10
	Deviation of r/W:		r - Average tile size (mm)  W - Work size (mm)	ISO 10545-2	ISO 13006:	± 0,93	± 0,93
TIES	Deviation of e/eW:		e - Average tile thickness (mm) eW - Fabrication thickness (mm)	ISO 10545-2	ISO 13006:	5,50 - 6,50	5,50 - 6,50
OPER	Rectangularity:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 0,77	± 0,77
SURFACE PROPERTIES	Straightness of sides:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 0,77	± 0,77
URFA	Edge curvature:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 0,77	± 0,77
S	Centre Curvature:		Deviation from dW (mm)	ISO 10545-2	ISO 13006:	± 1,09	± 1,09
	Warpage:		Deviation from dW (mm)	ISO 10545-2	ISO 13006:	± 1,09	± 1,09
	Water Absorption:		(%)	ISO 10545-3	ISO 13006:	> 10,0	≤ 20,0
RTIES	Modulus of Rupture:		(MPa)	ISO 10545-4	ISO 13006:	≥ 15	≥ 15
ROPE	Breaking Strength:		(N)	ISO 10545-4	ISO 13006:	≥ 200	≥ 300
CALP	Resistan	ce to Cracking:	(Cycles)	ISO 10545-11	ISO 13006:	1	5
PHYSICAL PROPERTIES	Moisture Expansion:		(mm/m)	ISO 10545-10	ISO 13006:	≤ 0,6	≤ 0,3

		CHARACTERISTICS	TESTING METHOD	SPECIFICATION		RESULTS
	Stain Resistance					
	Penetrating Agent	Green Chrome (40% oil)				
S	Layer Forming Agent	Olive Oil	ISO 10545-14	ISO 13006:	≥ 3	5
CHEMICAL PROPERTIES	Oxidizing Agent	Alcoholic Iodine				
PROP	Chemical Resistance					
ICAL	Domestic product	Ammonium Chloride 100g/L		ISO 13006:	≥ GB	GA
HEM	Pool water treatment	Sodium hypochlorite 20mg	ISO 10545-13		≥ GB	GA
0	Low concentration alkali	Potassium Hydroxide 30g / L			A declarar	GLB
	Low concentration acid	Chloridric acid 3% (v/v)			A declarar	GLB
	Low concentration acid	Citric Acid 100g/L			A declarar	GLB
	Solar Absortance - α*		NBR 15575 - 3-	NBR 15575:	To declare	0.2 - 0.3
	Solar Deflection - ε*		NBR 15575 - 3-	NBR 15575:	To declare	0.75 - 0.85
ANCE	Flammability		NBR 15575 - 3-	NBR 15575:	Class I	Class I
PERFORMANCE	Solar Reflectance - ρ*		NBR 15575 - 3-	NBR 15575:	To declare	0.8 - 0.7
PERF	Moisture Resistance		NBR 15575 - 3-	NBR 15575:	To declare	Resistant
	Useful life:	(years)	NBR 15575 - 3-	NBR 15575:	20	20
	Solar Reflectance Index - SRI	H = 5 (W / m <sup>2</sup> K)*	NBR 15575 - 3-	NBR 15575:	To declare	99 - 80

## Note:

Check if the product is suitable for the intended use.

Sand may cause scratches in any type of covering (stone, wood, vinyl or ceramic). For this reason, ceramic tile are not warranted against scratches, specially products with glossy finish. It is recommended special care during its installation and its use. In residential areas, we recommend to protect the base of furniture and appliances. Several performance characteristics required in the ABNT NBR 15575 norm refer to the prescriptive ABNT NBR 13818 norm, which is contained in this report. Negligence towards the recommended use specified in this report, abnormal environmental and climate factors, changes in the work surroundings, will reduce the useful lifetime of the product, which may be shorter than the period declared by the manufacturer.

\* According to information in the ANFACER sectorial performance manual

**QR WARRANTY CODE:** Validate this certificate in:



COCAL DO SUL (SC), November 15th, 2022

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