

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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Code:8040953Manufacturing Size:200,0 x 200,0 mmClass:BIIINominal Size:20x20 cmTypology:Ceramic wall tileThickness:7,0 mmShade Variation:V1Coverage Area:1,48m²/boxGrout Joint:2 mmPieces per box:37,00Rectified:NoSurface:GL (Glazed)	Product:	VERDE AGUA ONDA BR 20X20*	Manufacturing Process:	Wet ceramic process	13 2 . K
Typology:Ceramic wall tileThickness:7,0 mmShade Variation:V1Coverage Area:1,48m²/boxGrout Joint:2 mmPieces per box:37,00	Code:	8040953	Manufacturing Size:	200,0 x 200,0 mm	
Shade Variation:V1Coverage Area:1,48m²/boxGrout Joint:2 mmPieces per box:37,00	Class:	BIII	Nominal Size:	20x20 cm	
Variation:V1Coverage Area:1,48m²/boxGrout Joint:2 mmPieces per box:37,00	Typology:	Ceramic wall tile	Thickness:	7,0 mm	
		V1	Coverage Area:	1,48m²/box	
Rectified: No Surface: GL (Glazed)	Grout Joint:	2 mm	Pieces per box:	37,00	
	Rectified:	No	Surface:	GL (Glazed)	and the second

		CH/	ARACTERISTICS	TESTING METHOD	SPECIFI	CATION	RESULTS
	FIR	Indoor dry residential floors			According to the manufacturer's		s WRC WWS
	FLC	Indoor light commercial floors, including the areas FIR					
Z	FMC	Indoor medium commercial floors, including the areas FLC and FIR					
USAGE RECOMMENDATION	FHC	Indoor heavy commercial floors, including the areas FMC, FLC, FIR					
END/	FFO	Flat outdoor floors	at outdoor floors				
MMI	FRO	Outdoor inclines and ramps (maximum slope of 8.33%)		Manufacturer's recommendation			
RECO	WID	Indoor dry residential and	d commercial walls		criteria		VVV/5
AGE I	FWI	Indoor wet residential an	d commercial floors				
US	WRC	Indoor and outdoor, wet or dry, residential and commercial walls, including the areas WID. For regions reaching below freezing temperatures, non frost resistant tiles are indoor only.					
	WWS	Swimming pool interior v	valls, including the areas WRC and WID				
	WFA	External facades, including the areas WRC and WID					
	Deviatio	n of W/N:	W - Work size (mm) N - Nominal Size (mm)	ISO 10545-2	ISO 13006:	± 4,00	± 4,00
	Deviation of r/W:		r - Average tile size (mm)	100 405 45 0	ISO 13006:	14.00	14.00
ND	Deviation of e/eW:		W - Work size (mm) e - Average tile thickness (mm)	ISO 10545-2 ISO 10545-2	ISO 13006:	± 1,20 6,50 - 7,50	± 1,20 6,50 - 7,50
DIMENSIONAL AND SURFACE PROPERTIES	Rectang		eW - Fabrication thickness (mm) Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 1,00	± 1,00
SION E PRC	-				ISO 13006:		
MEN		ess of sides:	Deviation from W (mm)	ISO 10545-2		± 1,00	± 1,00
DII	Edge curvature:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 1,00	± 1,00
	Centre Curvature:		Deviation from dW (mm)	ISO 10545-2	ISO 13006:	± 1,41	± 1,41
	Warpage:		Deviation from dW (mm)	ISO 10545-2	ISO 13006:	± 1,41	± 1,41
	Water Absorption:		(%)	ISO 10545-3	ISO 13006:	> 10,0	≤ 20,0
RTIES	Modulus of Rupture:		(MPa)	ISO 10545-4	ISO 13006:	≥ 15	≥ 15
COPEI	Breaking Strength:		(N)	ISO 10545-4	ISO 13006:	≥ 200	≥ 300
PHYSICAL PROPERTIES	Resistance to Cracking:		(Cycles)	ISO 10545-11	ISO 13006:	No Ocorreu	5
PHYSI	Moisture	Expansion:	(mm/m)	ISO 10545-10	ISO 13006:	≤ 0,6	≤ 0,3

	Cl	HARACTERISTICS	TESTING METHOD	SPECIFICATION		RESULTS
	Stain Resistance					
	Penetrating Agent	Green Chrome (40% oil)		ISO 13006:	≥ 3	5
S	Layer Forming Agent	Olive Oil	ISO 10545-14			
CHEMICAL PROPERTIES	Oxidizing Agent	Alcoholic Iodine				
PROP	Chemical Resistance					
ICAL F	Domestic product	Ammonium Chloride 100g/L	ISO 10545-13	ISO 13006:	≥ GB	GA
HEM	Pool water treatment	Sodium hypochlorite 20mg			≥ 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	0.6 - 0.7
	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 - $ ho^*$		NBR 15575 - 3-	NBR 15575:	To declare	0.4 - 0.3
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	I = 5 (W / m²K)*	NBR 15575 - 3-	NBR 15575:	To declare	65 - 40

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 03th, 2022

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