

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

Eliane Revestimentos Ceramicos Itda . Rua Maximiliano Gaidzinski-sala 2, N. 245 88845-000 . Cocal do Sul- SC . Brasil . +55 (048) 3447-7777 . www.eliane.com

Code:8040948Manufacturing 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:	AZUL MAR ONDA BR 20X20*	Manufacturing Process:	Wet ceramic process
Typology:Ceramic wall tileThickness:7,0 mmShade Variation:V1Coverage Area:1,48m²/boxGrout Joint:2 mmPieces per box:37,00	Code:	8040948	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:1,48m ⁻ /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)

		СН	ARACTERISTICS	TESTING METHOD	SPECIFI	CATION	RESULTS
	FIR Indoor dry residential floo		oors		According to the manufacturer's		WRC WWS
	FLC	Indoor light commercial floors, including the areas FIR		Manufacturer's recommendation			
Z	FMC	Indoor medium commercial floors, including the areas \ensuremath{FLC} and \ensuremath{FIR}					
ATIOI	FHC	Indoor heavy commercial floors, including the areas FMC, FLC, FIR					
USAGE RECOMMENDATION	FFO	Flat outdoor floors					
MMO	FRO	Outdoor inclines and ramps (maximum slope of 8.33%)					
RECC	WID	Indoor dry residential ar	nd commercial walls		, criteria		WWS
AGE I	FWI	Indoor wet residential a	nd commercial floors				
US/	WRC	including the areas WID	t 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, includ	ing the areas WRC and WID				
	Deviation of W/N:		W - Work size (mm) N - Nominal Size (mm)	ISO 10545-2	ISO 13006:	± 4,00	± 4,00
	Daviatio	6 - // //	r - Average tile size (mm) W - Work size (mm)	ISO 10545-2	ISO 13006:	± 1,20	± 1,20
ND	Deviation of r/W: Deviation of e/eW:		e - Average tile thickness (mm)	ISO 10545-2	ISO 13006:	£ 1,20 6,50 - 7,50	6,50 - 7,50
NAL A	Rectang	Ilarity:	eW - Fabrication thickness (mm) Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 1,00	± 1,00
DIMENSIONAL AND SURFACE PROPERTIES	Straightr	ess of sides:	Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 1,00	± 1,00
DIM URF/	Edge curvature:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 1,00	± 1,00
S	Centre C	urvature:	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
ROPE	Breaking Strength:		(N)	ISO 10545-4	ISO 13006:	≥ 200	≥ 300
PHYSICAL PROPERTIES	Resistan	ce to Cracking:	(Cycles)	ISO 10545-11	ISO 13006:	1	5
PHYSI	Moisture	Expansion:	(mm/m)	ISO 10545-10	ISO 13006:	≤ 0,6	≤ 0,3

	Cl	HARACTERISTICS	TESTING METHOD	SPECIFI	CATION	RESULTS
	Stain Resistance					
	Penetrating Agent	Green Chrome (40% oil)	ISO 10545-14	ISO 13006:	≥ 3	5
S	Layer Forming Agent	Olive Oil				
ERTIE	Oxidizing Agent	xidizing Agent Alcoholic Iodine				
CHEMICAL PROPERTIES	Chemical Resistance					
ICAL F	Domestic product Ammonium Chloride 100g/L				≥ GB	GA
HEM	Pool water treatment	Sodium hypochlorite 20mg	ISO 10545-13	ISO 13006:	≥ GB	GA
0	Low concentration alkali	Potassium Hydroxide 30g / L			A declarar	GLA
	Low concentration acid	Chloridric acid 3% (v/v)			A declarar	GLA
	Low concentration acid	Citric Acid 100g/L			A declarar	GLA
	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 - p*		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	l = 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 02th, 2022

Sergio Pereira Ruzza CRQ: 13200008 Ceramic Technology Manager Angela Waterkemper Vieira P&D Coordinator