

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

Product: AZUL MAR ONDA BR 20X20*

Manufacturing Process:

Wet ceramic process

Code: 8040948

V1

2 mm

Manufacturing Size: 200,0 x 200,0 mm

Class: BIII

Nominal Size:

20x20 cm

Typology: Ceramic wall tile

Thickness: 7,0 mm

Shade

Coverage Area:

1,48m²/box

Variation: Grout Joint:

Pieces per box:

37,00

Rectified: No

Surface:

GL (Glazed)



		CH/	ARACTERISTICS	TESTING METHOD	SPECIFICATION		RESULTS
USAGE RECOMMENDATION	FIR	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	HC Indoor heavy commercial floors, including the areas FMC, FLC, FIR		Manufacturer's recommendation	According to the manufacturer's criteria		WRC WWS
	FFO	Plat outdoor floors					
	FRO	Outdoor inclines and ramps (maximum slope of 8.33%)					
	WID	Indoor dry residential and commercial walls					
AGE	FWI	Indoor wet residential and commercial floors					
'SN	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 v	valls, including the areas WRC and WID				
	WFA	A External facades, including 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
	Deviation of r/W:		r - Average tile size (mm) W - Work size (mm)	ISO 10545-2	ISO 13006:	± 1.20	± 1,20
AND	Deviation of e/eW:		e - Average tile thickness (mm) eW - Fabrication thickness (mm)	ISO 10545-2	ISO 13006:	6,50 - 7,50	6,50 - 7,50
NAL A	Rectangularity:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 1,00	± 1,00
DIMENSIONAL AND SURFACE PROPERTIES	Straightness of sides:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 1,00	± 1,00
DIMI	Edge curvature:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 1,00	± 1,00
0,	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
ROPE	Breaking Strength:		(N)	ISO 10545-4	ISO 13006:	≥ 200	≥ 300
PHYSICAL PROPERTIES	Resistance to Cracking:		(Cycles)	ISO 10545-11	ISO 13006:	1	5
	Moisture Expansion:		(mm/m)	ISO 10545-10	ISO 13006:	≤ 0,6	≤ 0,3

		CHARACTERISTICS	TESTING METHOD	SPECIFICATION		RESULTS
CHEMICAL PROPERTIES	Stain Resistance					
	Penetrating Agent	Green Chrome (40% oil)	ISO 10545-14	ISO 13006:	≥ 3	5
	Layer Forming Agent	Olive Oil				
	Oxidizing Agent	Alcoholic Iodine				
	Chemical Resistance					
	Domestic product	Ammonium Chloride 100g/L		ISO 13006:	≥ GB	GA
	Pool water treatment	Sodium hypochlorite 20mg	ISO 10545-13		≥ GB	GA
	Low concentration alkali	Potassium Hydroxide 30g / L			A declarar	GLA
	Low concentration acid	Chloridric acid 3% (v/v)			A declarar	GLA
	Low concentration acid	ration acid Citric Acid 100g/L			A declarar	GLA
PERFORMANCE	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
	Flammability		NBR 15575 - 3-	NBR 15575:	Class I	Class I
	Solar Reflectance - ρ*		NBR 15575 - 3-	NBR 15575:	To declare	0.4 - 0.3
	Moisture Resistance		NBR 15575 - 3-	NBR 15575:	To declare	Resistant
	Useful life:	(years)	NBR 15575 - 3-	NBR 15575:	20	20
	Solar Reflectance Index - SRI	$H = 5 (W / m^2 K)^*$	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



COCAL DO SUL (SC), November 02th, 2022

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