



## 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 Ltda . Rua Maximiliano Gaidzinski-sala 2, N. 245  
88845-000 . Cocal do Sul- SC . Brasil . +55 (048) 3447-7777 . [www.eliane.com](http://www.eliane.com)

Product:	NORONHA JADE MESH BR 7,5X7,5	Manufacturing Process:	Wet ceramic process
Code:	8040052	Manufacturing Size:	75,8 x 75,8 mm
Class:	BIIa	Nominal Size:	7,5X7,5 cm
Typology:	Ceramic floor tile	Thickness:	6,0 mm
Shade Variation:	V3	Coverage Area:	1,59m <sup>2</sup> /box
Grout Joint:	3 mm	Pieces per box:	260,00
Rectified:	No	Surface:	GL ( Glazed )



	CHARACTERISTICS		TESTING METHOD	SPECIFICATION		RESULTS
USAGE RECOMMENDATION	FIR	All indoor residential areas	Manufacturer's recommendation	According to the manufacturer's criteria		WRC WWS WFA
	FLC	Commercial areas with light foot traffic				
	FMC	Commercial areas with medium/moderate foot traffic and light equipment				
	FHC	Commercial areas with heavy foot traffic, and heavy equipment and vehicles				
	FFO	Outdoor flat areas				
	FRO	Outdoor sloped areas and ramps (maximum slope of 8.33%)				
	FWI	Indoor residential and commercial wet areas				
	WRC	Indoor and outdoor residential and commercial walls (up to 3 meters high)				
	WWS	Swimming pool interior walls				
	WFA	Facades				
DIMENSIONAL AND SURFACE PROPERTIES	Deviation of W/N:	W - Work size (mm) N - Nominal Size (mm)	ISO 10545-2	ISO 13006:	± 1,50	± 1,50
	Deviation of r/W:	r - Average tile size (mm) W - Work size (mm)	ISO 10545-2	ISO 13006:	± 0,90	± 0,90
	Deviation of e/eW:	e - Average tile thickness (mm) eW - Fabrication thickness (mm)	ISO 10545-2	ISO 13006:	5,70 - 6,30	5,70 - 6,30
	Rectangularity:	Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 0,80	± 0,30
	Straightness of sides:	Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 0,80	± 0,30
	Edge curvature:	Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 0,80	-0,20 0,40 -0,20 0,40
	Centre Curvature:	Deviation from dW (mm)	ISO 10545-2	ISO 13006:	± 0,80	-0,30 0,50 -0,30 0,50
	Warpage:	Deviation from dW (mm)	ISO 10545-2	ISO 13006:	± 0,80	± 0,50
PHYSICAL PROPERTIES	Water Absorption:	(%)	ISO 10545-3	ISO 13006:	> 3,0 E ≤ 6,0	6,0
	Modulus of Rupture:	(MPa)	ISO 10545-4	ISO 13006:	≥ 22	≥ 32
	Breaking Strength:	(N)	ISO 10545-4	ISO 13006:	≥ 600	≥ 600
	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:	5	5
	Layer Forming Agent	Olive Oil				
	Oxidizing Agent	Alcoholic Iodine				
	Chemical Resistance					
	Domestic product	Ammonium Chloride 100g/L	ISO 10545-13	ISO 13006:	GA	GA
	Pool water treatment	Sodium hypochlorite 20mg			GA	GA
	Low concentration acid	Citric Acid 100g/L			GLA	GLA
	Low concentration acid	Chloridric acid 3% (v/v)			GLA	GLA
	Low concentration alkali	Potassium Hydroxide 30g / L			GLA	GLA
PERFORMANCE	Solar Absortance - $\alpha^*$		NBR 15575 - 3-	NBR 15575:	To declar	0.6 - 0.7
	Solar Deflection - $\epsilon^*$		NBR 15575 - 3-	NBR 15575:	To declar	0.75 - 0.85
	Flammability		NBR 15575 - 3-	NBR 15575:	Class I	Class I
	Solar Reflectance - $\rho^*$		NBR 15575 - 3-	NBR 15575:	To declar	0.4 - 0.3
	Moisture Resistance		NBR 15575 - 3-	NBR 15575:	To declar	Resistant
	Useful life:	(years)	NBR 15575 - 3-	NBR 15575:	20	20
	Solar Reflectance Index - SRI $H = 5 (W / m^2K)^*$		NBR 15575 - 3-	NBR 15575:	To declar	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 ), August 16th, 2021**

**Sergio Pereira Ruzza**  
CRQ: 13200008  
Ceramic Technology Manager

**Angela Waterkemper Vieira**  
P&D Coordinator