

## 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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QUARTZ AREIA EXT 60X60 Product:

Manufacturing Process:

Wet ceramic process

8042077 Code:

600,0 x 600,0 mm Manufacturing Size:

Class: Bla

60x60 cm Nominal Size:

Porcelain tile Typology:

9,5 mm

Shade V2 Thickness:

Variation:

Coverage Area:

1,44m<sup>2</sup>/box

Grout Joint: 3 mm

Pieces per box:

4,00

Edge finish: Bold

Surface:

GL (Glazed)



		CH/	ARACTERISTICS	TESTING METHOD	SPECIFIC	CATION	RESULTS
USAGE RECOMMENDATION	FIR	R Indoor dry residential floors					
	FLC	Indoor light commercial t	floors, including the areas FIR				
	FMC	Indoor medium commercial floors, including the areas FLC and FIR					
	FHC	Indoor heavy commercia	I floors, including the areas FMC, FLC, FIR				
	WID	Indoor dry residential and	d commercial walls				
	FWI	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.	Manufacturer's recommendation	According to the manufacturer's criteria		FMO
	wws	Swimming pool interior v	valls, including the areas WRC and WID				
	WFA	External facades, includir	ng the areas WRC and WID				
	FHO	Floor - Very Heavy Outd	oor Commercial and Outdoor Residential				
	FMO	Floor - Light to Heavy Outdoor Commercial and Outdoor Residential					
	FRH	Floor - Ramp Very Heavy Outdoor Commercial and Outdoor Residential					
	FRM	Floor - Ramp Light to He Residential	avy Outdoor Commercial and Outdoor				
DIMENSIONAL AND SURFACE PROPERTIES	Deviatio	n of W/N:	W - Work size (mm) N - Nominal Size (mm)	ISO 10545-2	ISO 13006:	± 5,00	± 5,00
	Deviation of r/W:		r - Average tile size (mm) W - Work size (mm)	ISO 10545-2	ISO 13006:	± 2,00	± 2,00
	Rectangularity:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 2,00	± 2,00
	Straightness of sides:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 1,50	± 1,50
	Edge curvature:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 2,00	± 2,00
	Centre Curvature:		Deviation from dW (mm)	ISO 10545-2	ISO 13006:	± 2,00	± 2,00
	Warpage:		Deviation from dW (mm)	ISO 10545-2	ISO 13006:	± 2,00	± 2,00
	Deviation of e/eW:		e - Average tile thickness (mm) eW - Fabrication thickness (mm)	ISO 10545-2	ISO 13006:	9,02 - 9,98	9,02 - 9,98

	С	HARACTERISTICS	TESTING METHOD	SPECIFICATION		RESULTS
PHYSICAL PROPERTIES	Water Absorption:	(%)	ISO 10545-3	ISO 13006:	≤ 0,5	≤ 0,50
	Breaking Strength:	(N)	ISO 10545-4	ISO 13006:	≥ 1300	≥ 1500
	Modulus of Rupture:	(MPa)	ISO 10545-4	ISO 13006:	≥ 35	≥ 37
	Moisture Expansion:	(mm/m)	ISO 10545-10	ISO 13006:	≤ 0,6	≤ 0,2
	Resistance to Cracking:	(Cycles)	ISO 10545-11	ISO 13006:	1	5
	Coefficient of Restitution		ISO 10545-5	ISO 13006:	≥ 0,55	≥ 0,60
	Stain Resistance					
CHEMICAL PROPERTIES	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 10545-13	ISO 13006:	≥ GB	GA
	Pool water treatment	Sodium hypochlorite 20mg			≥ 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	Citric Acid 100g/L			A declarar	GLA
DYNAMIC FRICTIONCOEFFICIENT	Wet Dynamic Friction Coefficie	ent	NBR 16919-	NBR 16919:	≥ 0,40	≥ 0,60
	Solar Absortance - α*		NBR 15575 - 3-	NBR 15575:	To declare	0.4 - 0.5
	Solar Reflectance - ρ*		NBR 15575 - 3-	NBR 15575:	To declare	0.6 - 0.5
CE	Solar Deflection - ε*		NBR 15575 - 3-	NBR 15575:	To declare	0.75 - 0.85
PERFORMANCE	Solar Reflectance Index - SRI H	= 5 (W / m <sup>2</sup> K)*	NBR 15575 - 3-	NBR 15575:	To declare	80 - 65
ERFOR	Impact of Hard Object		NBR 15575 - 3-	NBR 15575:	Ruptura (5J)	Ruptura (5J)
P	Moisture Resistance		NBR 15575 - 3-	NBR 15575:	To declare	Resistant
	Useful life:	(years)	NBR 15575 - 3-	NBR 15575:	13	13
	Flammability		NBR 15575 - 3-	NBR 15575:	Class I	Class I

## Note:

Check if the product is suitable for the intended use. When it has the WFA use specification, it can be used in facade, provided that its indication is included in the constructive and executive project, which is the responsibility of the designer, according to the ABNT NBR 13755 standard.

The characteristics defined by the performance standard ABNT NBR 15575 are only applicable to residential areas and are directly related to the performance of the installed product. Therefore, the statements are valid when the installation guidelines described by the manufacturer are followed.

\*According to information in the ANFACER sectorial performance manual





COCAL DO SUL (SC), June 16th, 2023

Ceramic Technology Manager