

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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Product: MUNARI CIMENTO AC 30X60** Manufacturing Process:

Wet ceramic process

Code: 8052774 Manufacturing Size: 300,0 x 600,0 mm

Bla Class:

Nominal Size:

30X60 cm

Typology: Porcelain tile 8,5 mm

Shade

Thickness:

V2 Variation:

Coverage Area:

1,26m²/box

Grout Joint:

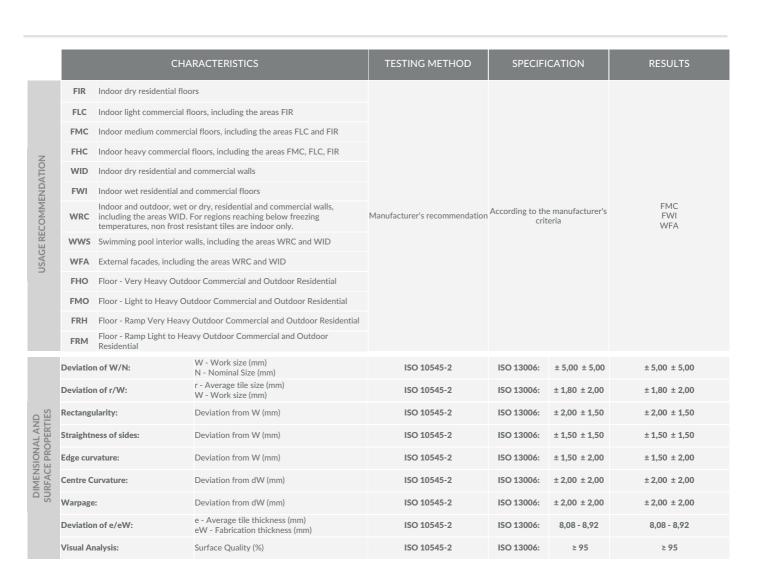
3 mm

Pieces per box:

7.00

Edge finish: Surface: Bold

GL (Glazed)



	CHARACTERISTICS		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	≥ 35
	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
CHEMICAL PROPERTIES	Stain Resistance					
	Penetrating Agent	Green Chrome (40% oil)		ISO 13006:	≥ Class 3	Class 5
	Layer Forming Agent	Olive Oil	ISO 10545-14			
	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	130 10343 10	130 13000.	≥ GB	GA
	Low concentration alkali	Potassium Hydroxide 30g / L	ISO 10545-13	ISO 13006:	To declare	GLB
	Low concentration acid	Chloridric acid 3% (v/v)			To declare	GLB
	Low concentration acid	Citric Acid 100g/L			To declare	GLB
DYNAMIC FRICTIONCOEFFICIENT	Wet Dynamic Friction Coefficient		NBR 16919-	NBR 16919:	≥ 0,40	≥ 0,40
	Dry Coeficiente of Dynamic Friction		NBR 16919-	NBR 16919:	To declare	≥ 0,50
PERFORMANCE	Solar Absortance - α*		NBR 15575 - 3-	NBR 15575:	To declare	0.6 - 0.7
	Solar Reflectance - ρ^*		NBR 15575 - 3-	NBR 15575:	To declare	0.4 - 0.3
	Solar Deflection - ɛ*		NBR 15575 - 3-	NBR 15575:	To declare	0.75 - 0.85
	Solar Reflectance Index - SRI H = 5 (W / m²K)*		NBR 15575 - 3-	NBR 15575:	To declare	65 - 40
	Impact of Hard Object		NBR 15575 - 3-	NBR 15575:	No Break (5J)	No Break (5J)
	Moisture Resistance		NBR 15575 - 3-	NBR 15575:	To declare	Resistant
	Useful life:	(years)	NBR 15575 - 3-	NBR 15575:	20 fachada e 13 outros	20 fachada e 13 outros
	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.

 $^*\mbox{According to information}$ in the ANFACER sectorial performance manual







Quality Assurance Manager