

## 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: METRO BLACK 10X20

Bold

Manufacturing Process:

Wet ceramic process

Code: 190420

Manufacturing Size: 100,0 x 200,0 mm

Class: BIII

Nominal Size:

10x20 cm

Typology:

Ceramic wall tile Thickness:

7.7 mm

Shade

Coverage Area:

1,00m²/box

Variation: Grout Joint:

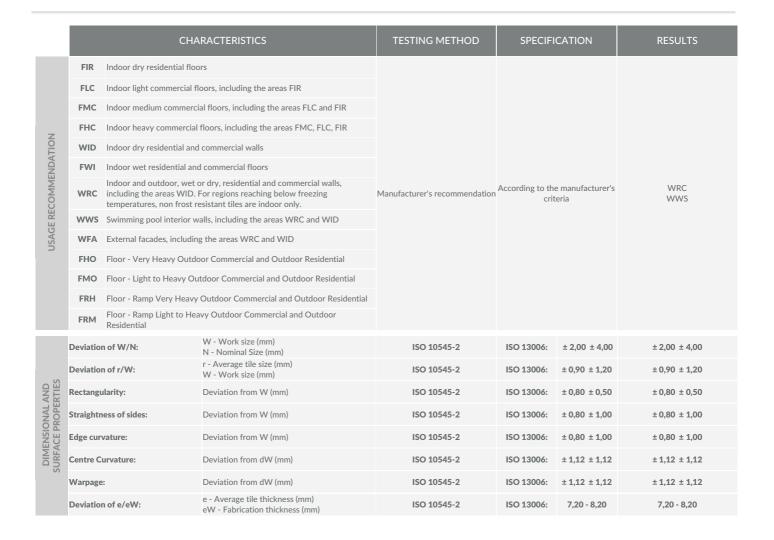
Edge finish:

2 mm Pieces per box:

50,00

Surface:

GL (Glazed)



	CHARACTERISTICS		TESTING METHOD	SPECIFICATION		RESULTS
PHYSICAL PROPERTIES	Water Absorption:	(%)	ISO 10545-3	ISO 13006:	> 10,0	≤ 20,00
	Breaking Strength:	(N)	ISO 10545-4	ISO 13006:	≥ 600	≥ 600
	Modulus of Rupture:	(MPa)	ISO 10545-4	ISO 13006:	≥ 12	≥ 15
	Moisture Expansion:	(mm/m)	ISO 10545-10	ISO 13006:	≤ 0,6	≤ 0,3
	Resistance to Cracking:	(Cycles)	ISO 10545-11	ISO 13006:	1	5
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 10545-13	ISO 13006:	≥ GB	GA
	Pool water treatment	Sodium hypochlorite 20mg			≥ GB	GA
	Low concentration alkali	Potassium Hydroxide 30g / L			A declarar	GLB
	Low concentration acid	Chloridric acid 3% (v/v)			A declarar	GLB
	Low concentration acid	Citric Acid 100g/L			A declarar	GLB
PERFORMANCE	Solar Absortance - α*		NBR 15575 - 3-	NBR 15575:	To declare	0.8 - 0.9
	Solar Reflectance - ρ*		NBR 15575 - 3-	NBR 15575:	To declare	0.2 - 0.1
	Solar Deflection - ε*		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	20 - 1
	Moisture Resistance		NBR 15575 - 3-	NBR 15575:	To declare	Resistant
	Useful life:	(years)	NBR 15575 - 3-	NBR 15575:	20	20
	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 13th, 2023

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