

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: CLEAN YUNA CIMENTO AC 60x60 IP

Manufacturing Process:

Wet ceramic process

Code: 8031016

Manufacturing Size: 600

600,0 x 600,0 mm

Class: Bla

Nominal Size:

60x60 cm

Typology: P

Shade

Porcelain tile Thickness:

9,5 mm

Variation:

V2

Coverage Area:

1,44m²/box

Grout Joint:

3 mm

Pieces per box:

4,00

Edge finish: Bold

Surface:

GL (Glazed)



		CHARACTERISTICS		TESTING METHOD	SPECIFICATION		RESULTS
USAGE RECOMMENDATION	FIR	FIR Indoor dry residential floors					
	FLC	Indoor light commercial floors, including the areas FIR					
	FMC	IC Indoor medium commercial floors, including the areas FLC and FIR					
	FHC	FHC Indoor heavy commercial floors, including the areas FMC, FLC,					
	WID	Indoor dry residential and	l commercial walls				
	FWI	Indoor wet residential and	d commercial floors				
	WRC	Indoor and outdoor, wet or dry, residential and commercial walls, including the areas WID. For regions reaching below freezing temperatures, non frost resistant tiles are indoor only.		Manufacturer's recommendation	According to the manufacturer's criteria		FIR
	wws	Swimming pool interior walls, including the areas WRC and WID					
	WFA	External facades, including the areas WRC and WID					
	FHO	Floor - Very Heavy Outdoor 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 Heavy Outdoor Commercial and Outdoor Residential					
AND	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
	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
DIMENSIONAL AND SURFACE PROPERTIES	Rectangularity:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 2,00	± 2,00
ENSIG ACE P	Straightness of sides:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 1,50	± 1,50
DIM SURF/	Edge curvature:		Deviation from W (mm)	ISO 10545-2	ISO 13006:	± 2,00	± 2,00
, or	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
PHYSICAL PROPERTIES	Water Absorption:		(%)	ISO 10545-3	ISO 13006:	≤ 0,5	≤ 0,5
	Modulus of Rupture:		(MPa)	ISO 10545-4	ISO 13006:	≥ 35	≥ 37
	Breaking Strength:		(N)	ISO 10545-4	ISO 13006:	≥ 1300	≥ 1500
	Resistance to Cracking:		(Cycles)	ISO 10545-11	ISO 13006:	1	5
	Moisture Expansion:		(mm/m)	ISO 10545-10	ISO 13006:	≤ 0,6	≤ 0,2
	Coefficient of Restitution			ISO 10545-5	ISO 13006:	≥ 0,55	≥ 0,60

	(CHARACTERISTICS	TESTING METHOD	SPECIFICATION		RESULTS
	Stain Resistance					
CHEMICAL PROPERTIES	Penetrating Agent	Green Chrome (40% oil)	ISO 10545-14	ISO 13006:		
	Layer Forming Agent	Olive Oil			≥ 3	5
	Oxidizing Agent	xidizing Agent Alcoholic Iodine				
	Chemical Resistance					
	Domestic product	Ammonium Chloride 100g/L		ISO 13006:	≥ GB	GA
	Pool water treatment	Sodium hypochlorite 20mg			≥ GB	GA
	Low concentration alkali	Potassium Hydroxide 30g / L	ISO 10545-13		A declarar	GLB
	Low concentration acid	Chloridric acid 3% (v/v)			A declarar	GLB
	Low concentration acid	Citric Acid 100g/L			A declarar	GLB
DYNAMIC FRICTIONCOEFFICIENT	Wet Dynamic Friction Coefficient		NBR 16919-	NBR 16919:	To declare	≥ 0,30
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
	Impact of Hard Object		NBR 15575 - 3-	NBR 15575:	Ruptura (5J)	Ruptura (5J)
	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:	13	13
	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), February 13th, 2023

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