

Technical Specifications

ABNT NBR ISO 13006

Dry-pressed ceramic tiles with low water absorption $E_v \leq 0,5\%$ Group Bla

Mineral Portland

Line Mineral

Tipology	Code	
Porcelain Tile	209711E	
Size (cm)	Thickness (mm)	Work Size (cm)
90X90	8.00	89,85X89,85
Edge	Surface	Tonality Variation
Rectified	External	V1

Physical Property

Physical Property	Test Standards	Results
Water Absorption (%)	ISO 10545-3	0,5
Modulus of Breaking Strength (N/mm ²)	ISO 10545-4	35
Breaking Load (N)	ISO 10545-4	1500
Moisture Expansion (mm/m)	ISO 10545-10	0,1
Resistance to Deep Abrasion (mm ³)	ISO 10545-6	170
Frost Resistance	ISO 10545-12	RESIST
Resistance to Thermal Shock	ISO 10545-9	RESIST

Chemical Property

Resistance to Staining

Chemical Property	Test Standards	Results
Unglazed Tiles	ISO 10545-14	5

Resistance to Chemicals

Resistance to low concentrations of acids and alkalis	ISO 10545-13	LA
Resistance to household chemicals and swimming pool salts	ISO 10545-13	A

Coefficient of Friction

Dry Surface	ABNT NBR 16919	0,7
Wet Surface	ABNT NBR 16919	0,6
Wet Surface	ANSI A326.3	0,6

Dimensions and surface quality

	Test Standards	Results
Length and width (mm)	ISO 10545-2	± 1,00
Width (mm)	ISO 10545-2	± 1,00
Thickness (mm)	ISO 10545-2	± 0,40
Straightness of sides (mm)	ISO 10545-2	± 0,80
Rectangularity (mm)	ISO 10545-2	± 1,50
Surface flatness (mm)	ISO 10545-2	± 1,8 mm
Surface quality (%)	ISO 10545-2	≥ 95

Local of Use

IU - Industrial and Urban | RE - Residential | FA - Facade

Settlement

	Recomendado
Dry Internal Walls Joint	1,5 mm
Wet Internal Walls Joint	1,5 mm
External Walls Joint - Facade	1,5 mm
Floor joint	1,5 mm

Reaction with fire: Ceramic coatings are sintered at high temperatures and therefore do not present in their final composition organic or volatile compounds of any nature, classifying them as Class I - non-combustible.

Portobello

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