



Technical Specifications

ABNT NBR ISO 13006

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

Mineral Portland

Line Mineral

Tipology	Code	
Porcelain Tile	22931E	
Format (cm)	Thickness (mm)	Work Size (cm)
90X90	9,00	89,85X89,85
Edge	Surface	
Rectified	Polished	

Physical Property

Water Absorption (%)	ISO 10545-3	0,1
Modulus of Breaking Strength (N/mm²)	ISO 10545-4	45
Breaking Load (N)	ISO 10545-4	2400
Moisture Expansion (mm/m)	ISO 10545-10	0,1
Resistance to Deep Abrasion (mm³)	ISO 10545-6	170
Frost Resistance	ISO 10545-12	Resist
Resistance to Thermal Shock	ISO 10545-9	Resist

Test Standards

Results

Chemical Property

Resistance to Staining

Unglazed Tiles	ISO 10545-14	3
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Resistance to Chemicals

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

Test Standards

Results

Coefficient of Friction	Test Standards	Results
Dry Surface	ABNT NBR 16919	0,4
Wet Surface	ABNT NBR 16919	0,3
Wet Surface	ANSI A326.3	0,4

Local of Use

CI - Commercial Light RE - Residential FA - Facade
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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

Portobello SA - Fábrica | contato@portobello.com.br
SAC: 800 648 2002 1 BR 101 - Km 163 - Cx. Postal 15
Tijucas/SC - Brasil - 88200-000

