



# Technical Specifications

## ABNT NBR ISO 13006

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

### Ms. Barcelona Cristal

Line Ms. Barcelona

|                       |                |                |
|-----------------------|----------------|----------------|
| Tipology              | Code           |                |
| Glazed Porcelain Tile | 203121E        |                |
| Format (cm)           | Thickness (mm) | Work Size (cm) |
| 160X160               | 7,00           | 159,85X159,85  |
| Edge                  | Surface        |                |
| Rectified             | Natural        |                |

#### Physical Property

|                                      |              |        |
|--------------------------------------|--------------|--------|
| Water Absorption (%)                 | ISO 10545-3  | 0,5    |
| Modulus of Breaking Strength (N/mm²) | ISO 10545-4  | 35     |
| Breaking Load (N)                    | ISO 10545-4  | 1500   |
| Moisture Expansion (mm/m)            | ISO 10545-10 | 0,1    |
| Crazing Resistance                   | ISO 10545-11 | Resist |
| Frost Resistance                     | ISO 10545-12 | Resist |
| Resistance to Thermal Shock          | ISO 10545-9  | Resist |

#### Test Standards

#### Results

#### Chemical Property

##### Resistance to Staining

|              |              |   |
|--------------|--------------|---|
| Glazed 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  |

#### Test Standards

#### Results

| Coefficient of Friction | Test Standards | Results |
|-------------------------|----------------|---------|
| Dry Surface             | ABNT NBR 16919 | 0,5     |
| Wet Surface             | ABNT NBR 16919 | 0,4     |
| Wet Surface             | ANSI A326.3    | 0,43    |

Local of Use

|                                                        |
|--------------------------------------------------------|
| CI - Commercial Light   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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