# Technical Specifications

## ABNT NBR ISO 13006

Dry-pressed ceramic tiles with low water absorption Ev ≤ 0,5% Group BIa

# Lombarda Massima Alpina st

Line Pietra Lombarda

Tipology
**Glazed Porcelain Tile**

Code
**210852E**

Size (cm)
**160X160**

Thickness (mm)
**7.00**

Work Size (cm)
**159,85X159,85**

Edge
**Rectified**

Surface
**Natural**

Tonality Variation
**V3**

| Physical Property | Test Standards | Results |
|---|---|---|
| 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 |

| Chemical Property | Test Standards | Results |
|---|---|---|
| **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 |

Para informações de recomendações de aplicação consulte o especificador virtual: http://especificadorvirtual.portobello.com.br
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| 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 |

| 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 | ± 0,35 |
| 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

HC - Heavy Commercial | 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.

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