

## ARDESIE - Technical specifications

ISO 13006 - EN 14411 - ISO 10545 Standards

|  |   |
|--|---|
| Nominal sizes (cm): <b>30x60;30.5x60.5;60x60;40x120;60x120</b> | Thickness (mm) : <b>8.5 ; 20</b>              |
| Sides: <b>Rectified ; Natural</b>                              | Surface: <b>natural, strong, semipolished</b> |
|  | Product Group: <b>Bla-GL</b>                  |

| Technical characteristics      |                         | Test method    | EN 14411 and ISO 13006 requirements            | Italcer Average values  |
|--------------------------------|-------------------------|----------------|--|---|
| Dimensions                     | Length and width        | ISO 10545-2    | ±0.6% and ± 2.0mm<br>Rect. : ±0.3% and ± 1.0mm | Compliant   |
|                                | Straightness of sides   | ISO 10545-2    | ±0.5% and ± 1.5mm<br>Rect. : ±0.3% and ± 0.8mm | Compliant   |
|                                | Rectangularity          | ISO 10545-2    | ±0.5% and ± 2.0mm<br>Rect. : ±0.3% and ± 1.5mm | Compliant   |
|                                | Flatness                | ISO 10545-2    | ±0.5% and ± 2.0mm<br>Rect. : ±0.4% and ± 1.8mm | Compliant   |
|                                | Thickness               | ISO 10545-2    | ±5% and ± 0.5mm                                | Compliant   |
| Water absorption               |                         | ISO 10545-3    | ≤ 0.5%   | <0.2%   |
| Modulus of rupture             |                         | ISO 10545-4    | ≥ 35 N/mm <sup>2</sup>                         | >40 N/mm <sup>2</sup>   |
| Breaking strength (S)          |                         | ISO 10545-4    | ≥ 1300 N                                       | Compliant   |
| Abrasion resistance            |                         | ISO 10545-7    | Declared class                                 | PEI 5 (Beige, Grey, White)<br>PEI 4 (Dark, Multicolor, Taupe) |
| Linear thermal expansion       |                         | ISO 10545-8    | Declared value                                 | $\alpha \leq 7.1 \times 10^{-6} \text{ } ^\circ\text{C}^{-1}$ |
| Thermal shock resistance       |                         | ISO 10545-9    | No alterations                                 | Resistant   |
| Frost resistance               |                         | ISO 10545-12   | No alterations                                 | Resistant   |
| Chemical resistance            |                         | ISO 10545-13   | Declared value                                 | LA – HA   |
| Household chemicals resistance |                         | ISO 10545-13   | B min.   | A   |
| Stain resistance               |                         | ISO 10545-14   | Class 3 min.                                   | 5   |
| Mohs Hardness                  |                         | UNI EN 101     | 5 Min.   | 6   |
| Slip Resistance                | DIN 51130               | Declared value | R9 (semipolished); R10 ;<br>R11(strong, h20)   |   |
|                                | DIN 51097               | Declared value | A (semipolished); B ; C(strong,<br>h20)        |   |
|                                | ANSI A137.1             | Declared value | >0.42  |   |
|                                | B.C.R.A.<br>Rep. CEC/81 | Declared value | /  |   |
|                                | BS 7976                 | Declared value | Dry/Wet : >36/25>x>35 ;<br>>36(strong e H20)   |   |
| Shade variation                |                         | ANSI A 137.1   | Not required                                   | V4  |
| Fire reaction                  |                         | UNI EN 13501-1 | -  | A1 <sub>FL</sub> class  |
| Thermal Conductivity           |                         | EN 12524       | Not required                                   | $\lambda = 1.3 \text{ W/m}\cdot\text{K}$                      |
| Light and colour fastness      |                         | DIN 51094      | Not required                                   | No variations   |