

## ROYAL STONE - Technical specifications

ISO 13006 - EN 14411 - ISO 10545 Standards

|                                                                        |                                 |
|------------------------------------------------------------------------|---------------------------------|
| Nominal sizes (cm): <b>30.5x60.5; 30x60; 30 60x60; 60x120; 100x100</b> | Thickness (mm) : <b>8.8, 20</b> |
| Sides: <b>Rectified</b>                                                | Surface: <b>natural</b>         |
|                                                                        | Product Group: <b>Bla-UGL</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%                                         | Compliant                                 |
| Modulus of rupture             |                       | ISO 10545-4             | ≥ 35 N/mm <sup>2</sup>                         | Compliant                                 |
| Breaking strength (S)          |                       | ISO 10545-4             | ≥ 1300 N                                       | Compliant                                 |
| Abrasion resistance            |                       | ISO 10545-6             | ≤175 mm <sup>3</sup>                           | Compliant                                 |
| Linear thermal expansion       |                       | ISO 10545-8             | Declared value                                 | α ≤ 7.1x10 <sup>-6</sup> °C <sup>-1</sup> |
| 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.                                         | 7                                         |
| Slip Resistance                |                       | DIN 51130               | Declared value                                 | R10 ; R11(OUT)                            |
|                                |                       | DIN 51097               | Declared value                                 | A ; C (OUT)                               |
|                                |                       | ANSI A137.1             | Declared value                                 | > 0.42                                    |
|                                |                       | B.C.R.A.<br>Rep. CEC/81 | Declared value                                 | /                                         |
|                                |                       | BS 7976                 | Declared value                                 | /                                         |
| Shade variation                |                       | ANSI A 137.1            | Not required                                   | V3                                        |
| Fire reaction                  |                       | UNI EN 13501-1          | -                                              | A1 <sub>FL</sub> class                    |
| Thermal Conductivity           |                       | EN 12524                | Not required                                   | λ = 1.3 W/m·°K                            |
| Light and colour fastness      |                       | DIN 51094               | Not required                                   | No variations                             |