














# FONDOVALLE

Technical characteristics according to international standards for CERAMIC TILES, UNI EN ISO 14411: 2016

Requirements of Group Bla UGL

Series RES ART ( Thickness 6 mm )

| Technical characteristics   | Test methods        | Requirements EN 14411  | Fondovalle Values   |                                    |                  |
|---|---------------------|--|---|------------------------------------|------------------|
|   |                     |  | L < 120 cm  | L ≥ 120 cm                         |                  |
|  Length and Width<br>Average deviation (%) of each tile by the size of production<br>Thickness<br>Straightness of the edges<br>Rectangularity<br>Planarity<br>Surface quality | UNI EN ISO 10545-2  | ± 0,6%   | ± 0,6%  | ± 0,6%                             |                  |
|   |                     | ± 2 mm   | ± 0,5 mm  | ± 0,9 mm                           |                  |
|   |                     | ± 5%   | ± 5%  | ± 3%                               |                  |
|   |                     | ± 0,5 mm   | ± 0,5 mm  | ± 0,5 mm                           |                  |
|   |                     | ± 0,5%   | ± 0,5%  | ± 0,5%                             |                  |
|   |                     | ± 1,5 mm   | ± 1,5 mm  | ± 1,5 mm                           |                  |
|   |                     | ± 0,5%   | ± 0,5%  | ± 0,5%                             |                  |
|  Water absorption   | UNI EN ISO 10545-3  | ≤ 0,5%   | ≤ 0.1%  | Compliant                          |                  |
|   |                     |  Modulus of rupture<br>Breaking strength | R Average ≥ 35 N/mm <sup>2</sup><br>R Minimum ≥ 32N/mm <sup>2</sup> | h = 6 mm; R ≥ 50 N/mm <sup>2</sup> |                  |
|  Resistance to deep abrasion  | UNI EN ISO 10545-6  |  | V ≤ 175 mm <sup>3</sup>   | h = 6 mm; V ≤ 130 mm <sup>3</sup>  |                  |
|   |                     |  Resistance to thermal chock           | UNI EN ISO 10545-9  | Resistant                          | Resistant        |
|  Frost resistance   | UNI EN ISO 10545-12 |  |   | Resistant                          | Frost proof      |
|   |                     |  Chemical Resistance                   | UNI EN ISO 10545-13   | Declared values;<br>B minimum      | <b>A; LA; HA</b> |
|  Stain resistance   | UNI EN ISO 10545-14 |  |   | Minimum Class 3                    | Declared         |
|   |                     |  Resistance of colors to light         | DIN 51094   | Resistant                          | Resistant        |
|  Slip resistance *  | DNI EN 16165_A      |  |   | From A to C                        | <b>A</b>         |
|   |                     |  Skid resistance Pendulum *            | DNI EN 16165_B  | From R9 to R13                     | <b>R 9</b>       |
|   |                     |  | ANSI A 137.1:2012   | > 0,42 wet                         | > 0,42 wet       |
|  Skid resistance Pendulum *   | UNI EN 16165_C      | PTV > 36 wet   | PTV > 36 wet  |                                    |                  |
|   |                     |  Fire Reaction                         | UNI EN 13501-1  | Resistant                          | Resistant A1 FL  |

\* Stated values are obtained from laboratory tests. They may vary depending on the production batch.