

TEST REPORT

|                        |                                                                                  |                         |                                               |
|------------------------|----------------------------------------------------------------------------------|-------------------------|-----------------------------------------------|
| <b>Name of Sample</b>  | MVG1122                                                                          | <b>Size</b>             | 89,46 x 89,46 x 7,4                           |
| <b>Reference Rules</b> | ISO-13006:2012 and UNE EN 14411:2013                                             | <b>Group</b>            | Bla-GL                                        |
| <b>Type of Product</b> | Dry-pressed Ceramic tiles, with water absorption $E_b \leq 0,5\%$ type porcelain | <b>Use</b>              | For walls and flooring, internal and external |
| <b>Name</b>            | Fluid Multicolour Polished                                                       | <b>Production Batch</b> | 31/01/2020                                    |

| Characteristics                                                   | Test Method               | Requirements                              | Values Compliance                                |
|-------------------------------------------------------------------|---------------------------|-------------------------------------------|--------------------------------------------------|
| <b>Dimensional and Surface Quality</b>                            |                           |                                           |                                                  |
| Length & Width                                                    | EN ISO 10545-2            | $\pm 0,6\% \text{ ó } \pm 2,0 \text{ mm}$ | $\pm 0,2\%$                                      |
| Straightness of Sides                                             | EN ISO 10545-2            | $\pm 0,5\% \text{ ó } \pm 1,5 \text{ mm}$ | $\pm 0,2\%$                                      |
| Rectangularity                                                    | EN ISO 10545-2            | $\pm 0,5\% \text{ ó } \pm 2,0 \text{ mm}$ | $\pm 0,2\%$                                      |
| Surface Flatness                                                  | EN ISO 10545-2            | $\pm 0,5\% \text{ ó } \pm 2,0 \text{ mm}$ | $\pm 0,2\%$                                      |
| Thickness                                                         | EN ISO 10545-2            | $\pm 5,0\% \text{ ó } \pm 0,5 \text{ mm}$ | $\pm 5,0\%$                                      |
| <b>Physical Properties</b>                                        |                           |                                           |                                                  |
| Water Absorption                                                  | EN ISO 10545-3            | $E_b \leq 0,5\%$                          | $E_b \leq 0,1\%$                                 |
| Breaking Strength                                                 | EN ISO 10545-4            | Minimum 700N                              | $\geq 1200 \text{ N}$                            |
| Flexural Tensile Strength                                         | EN ISO 10545-4            | Minimum 35 N/mm <sup>2</sup>              | $\geq 45 \text{ N/mm}^2$                         |
| Surface Abrasion Resistance                                       | EN ISO 10545-7            | Declared Value                            | CLASS2                                           |
| Linear Thermal Expansion                                          | EN ISO 10545-8            | Declared Value                            | $6.1 - 6.9 \times 10^{-6} (^\circ\text{C}^{-1})$ |
| Thermal Shock Resistance                                          | EN ISO 10545-9            | Required                                  | PASS                                             |
| Crazing Resistance                                                | EN ISO 10545-11           | Required                                  | PASS                                             |
| Frost Resistance (internal and external use)                      | EN ISO 10545-12           | Required                                  | PASS                                             |
| Bond Strength/ Adhesion (Cementitious adhesives)                  | EN 12004:2007+A1:2012,4.1 | Declared Value                            | Type C2 $> 1 \text{ N/mm}^2$                     |
| Reaction to Fire                                                  |                           | Class A1 FL/A1                            | A1 FL/A1                                         |
| <b>Chemical Properties</b>                                        |                           |                                           |                                                  |
| Chemical Resistance (household chemicals and swimming pool salts) | EN ISO 10545-13           | Minimum GB                                | GA                                               |
| Resistance to Staining - Glazed Tiles                             | EN ISO 10545-14           | Minimum 3                                 | 5                                                |

Important Notes:

The results in this report apply to the samples only.