

## TECHNICAL DATA FOR MARBLE BASED ENGINEERED STONES

Product: **DUCALE**

Brand name: **SM MARBLE®**

Composition: **5 - 7 % Resin, 93 - 95 % Marble**

Surface finish: **Polished, Honed, Brushed, Antique**

Slabs size (cm): **305x124**

Slabs thickness\* (cm): **1,2 - 2,0 - 3,0 - 4,0**

Tiles size\* (cm): **30x30x0,9 - 30x30x1,2 - 40x40x1,2 - 60x60x1,2 - 60x30x1,2 - 50x30x1,2 - 60x40x1,2**



\* Other sizes and thicknesses available on request

| Characteristics                      | Standard    | Value   | Notes   |
|--------------------------------------|-------------|---|---|
| Apparent density                     | EN 14617-1  | 2500 - 2600 Kg/m <sup>3</sup>   |   |
| Water absorption                     | EN 14617-1  | ≤ 0,15 %  |   |
| Flexural strength                    | EN 14617-2  | 10 - 20 MPa   |   |
| Abrasion resistance                  | EN 14617-4  | 35 - 39 mm  |   |
| Frost resistance                     | EN 14617-5  | KM <sub>f25</sub> 0,6 - 1,0   |   |
| Thermal shock resistance             | EN 14617-6  | Δm% ≤ 0,15 %<br>ΔR <sub>f,20</sub> % ≤ 50 %                                 | Test temperature: 70°C                            |
| Impact resistance                    | EN 14617-9  | 1,0 - 2,0 J<br>≥ 1,5 J  | For thickness 12 mm<br>For thickness 20 mm, 30 mm |
| Chemical resistance                  | EN 14617-10 | C1  |   |
| Linear thermal expansion coefficient | EN 14617-11 | 14 - 19 x 10 <sup>-6</sup> °C <sup>-1</sup>                                 |   |
| Dimensional stability                | EN 14617-12 | Class A (< 0,3 mm)  | Referred to tiles<br>30x30x1,2 cm                 |
| Electrical resistivity               | EN 14617-13 | ρ <sub>s</sub> ≥ 10 <sup>10</sup> Ω<br>ρ <sub>v</sub> ≥ 10 <sup>8</sup> Ω m | Referred to surface<br>Referred to volume         |
| Compression resistance               | EN 14617-15 | 90 - 150 MPa  |   |
| Length and width                     | EN 14617-16 | ± 0,5 mm  | Referred to tiles                                 |
| Thickness                            | EN 14617-16 | ± 0,7 mm  | Referred to tiles                                 |
| Straightness of sides                | EN 14617-16 | ± 0,3 mm  | Referred to tiles                                 |
| Rectangularity                       | EN 14617-16 | ± 0,9 mm  | Referred to tiles                                 |
| Centre curvature                     | EN 14617-16 | ± 0,2% referred to length   | Referred to tiles                                 |
| Edge curvature                       | EN 14617-16 | ± 0,2% referred to length   | Referred to tiles                                 |
| Warping                              | EN 14617-16 | ± 0,2% referred to length   | Referred to tiles                                 |
| Mohs hardness                        | EN 101      | up to 3 Mohs  |   |
| Thermal conductivity                 | EN 12524    | 1,3 W/(m K)   | From tabulated values                             |
| Reaction to fire                     | EN 13501-1  | A2fl-s1   |   |
| Slip resistance                      | EN 14231    | ≥ 35 (Dry)<br>≥ 3 (Wet)   |   |
| Slip resistance                      | DIN 51130   | R9  | For Honed H9                                      |