

## TECHNICAL DATA FOR QUARTZ BASED ENGINEERED STONES

|                        |  |
|------------------------|--|
| Product:               | <b>AMIATA</b>  |
| Brand name:            | <b>SM QUARTZ®</b>  |
| Composition:           | <b>6 - 8 % Resin, 92 - 94 % Quartz</b>                                       |
| Pre-consumer recycled: | <b>0 % by weight</b>   |
| Surface finish:        | <b>Polished, Honed, Brushed, Antique</b>                                     |
| Slabs size (cm):       | <b>305x140</b>   |
| Slabs thickness* (cm): | <b>2,0 - 3,0</b>   |
| Tiles size* (cm):      | <b>30x30x1,2 - 40x40x1,2 - 60x60x1,2 - 60x30x1,2 - 50x30x1,2 - 60x40x1,2</b> |



\* Other sizes and thicknesses available on request

| Characteristics                      | Standard    | Value                                       | Notes                      |
|--------------------------------------|-------------|---|----------------------------|
| Apparent density                     | EN 14617-1  | 2375 - 2500 Kg/m <sup>3</sup>               |                            |
| Water absorption                     | EN 14617-1  | ≤ 0,10 %                                    |                            |
| Flexural strength                    | EN 14617-2  | 40 - 60 MPa                                 |                            |
| Abrasion resistance                  | EN 14617-4  | 25 - 29 mm                                  |                            |
| Frost resistance                     | EN 14617-5  | KM <sub>f25</sub> 0,9 - 1,2                 |                            |
| Thermal shock resistance             | EN 14617-6  | Δm% ≤ 0,07 %                                | Test temperature: 70°C     |
|                                      |             | ΔR <sub>f,20</sub> % ≤ 25 %                 |                            |
| Impact resistance                    | EN 14617-9  | 1,5 - 2,5 J                                 | For thickness 12 mm        |
|                                      |             | ≥ 3,5 J                                     | For thickness 20 mm, 30 mm |
| Chemical resistance                  | EN 14617-10 | C4  |                            |
| Linear thermal expansion coefficient | EN 14617-11 | 21 - 32 x 10 <sup>-6</sup> °C <sup>-1</sup> |                            |
| Dimensional stability                | EN 14617-12 | Class A (<0,3 mm)                           |                            |
| Electrical resistivity               | EN 14617-13 | ρ <sub>s</sub> ≥ 10 <sup>10</sup> Ω         | Referred to surface        |
|                                      |             | ρ <sub>v</sub> ≥ 10 <sup>8</sup> Ω m        | Referred to volume         |
| Compression resistance               | EN 14617-15 | 150 - 250 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 7 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)                                  |                            |
|                                      |             | ≥ 3 (Wet)                                   |                            |
| Slip resistance                      | DIN 51130   | R9  | For Honed H9               |