

TECHNICAL DATA FOR MARBLE BASED ENGINEERED STONES

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| Product: | BIANCO AVORIO |
| Brand name: | SM MARBLE® |
| Composition: | 5 - 8 % Resin, 92 - 95 % Marble |
| Pre-consumer recycled: | 62 % by weight |
| Surface finish: | Polished, Honed, Brushed, Antique |
| Slabs size (cm): | 305x124 |
| Slabs thickness* (cm): | 1,2 - 2,0 - 3,0 - 4,0 |
| Tiles size* (cm): | 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 | 2450 - 2550 Kg/m ³ | |
| Water absorption | EN 14617-1 | ≤ 0,15 % | |
| Flexural strength | EN 14617-2 | 15 - 25 MPa | |
| Abrasion resistance | EN 14617-4 | 37 - 40 mm | |
| Frost resistance | EN 14617-5 | KM _{f25} 0,8 - 1,2 | |
| Thermal shock resistance | EN 14617-6 | Δm% ≤ 0,12 % | Test temperature: 70°C |
| | | ΔR _{f,20} % ≤ 30 % | |
| Impact resistance | EN 14617-9 | 1,0 - 2,0 J | For thickness 9 mm, 12 mm |
| | | ≥ 1,5 J | For thickness 20 mm, 30 mm |
| Chemical resistance | EN 14617-10 | C1 | |
| Linear thermal expansion coefficient | EN 14617-11 | 16 - 26 x 10 ⁻⁶ °C ⁻¹ | |
| Dimensional stability | EN 14617-12 | Class A (<0,3 mm) | |
| Electrical resistivity | EN 14617-13 | ρ _s ≥ 10 ¹⁰ Ω | Referred to surface |
| | | ρ _v ≥ 10 ⁸ Ω m | 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) | |
| | | ≥ 3 (Wet) | |
| Slip resistance | DIN 51130 | R9 | For Honed H9 |