

TECHNICAL DATA FOR QUARTZ BASED ENGINEERED STONES

Product: **STORMIO**

Brand name: **SM QUARTZ®**

Composition: **12 - 15 % Resin, 85 - 88 % Quartz**

Surface finish: **Polished, Silk**

Slabs size (cm): **320x155, 330x165**

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



* Other sizes and thicknesses available on request

Characteristics	Standard	Value	Notes
Apparent density	EN 14617-1	2000 - 2200 Kg/m ³	
Water absorption	EN 14617-1	≤ 0,10 %	
Flexural strength	EN 14617-2	≥ 65 Mpa	
Abrasion resistance	EN 14617-4	28 - 30 mm	
Frost resistance	EN 14617-5	KM _{f25} 0,9 - 1,2	
Thermal shock resistance	EN 14617-6	$\Delta m\% \leq 0,07 \%$	Test temperature: 70°C
		$\Delta R_{f,20} \leq 20 \%$	
Impact resistance	EN 14617-9	3,5 - 7,5 J	For thickness 12 mm
		≥ 8,0 J	For thickness 20 mm, 30 mm
Chemical resistance	EN 14617-10	C4	
Linear thermal expansion coefficient	EN 14617-11	$30 - 50 \times 10^{-6} \text{ }^{\circ}\text{C}^{-1}$	
Dimensional stability	EN 14617-12	Class A (<0,3 mm)	Referred to tiles 30x30x1,2 cm
Electrical resistivity	EN 14617-13	$\rho_s \geq 10^{10} \Omega$	Referred to surface
		$\rho_v \geq 10^8 \Omega \text{ m}$	Referred to volume
Compression resistance	EN 14617-15	150 - 250 MPa	
Mohs hardness	EN 101	up to 7 Mohs	
Thermal conductivity	EN 12524	1,3 W/(m K)	From tabulated values
Reaction to fire	ASTM E84	Class A	US standard
Reaction to fire	EN 13501-1	B _{fl} -s1	Flooring
Slip resistance	EN 14231	≥ 35 (Dry)	
		≥ 3 (Wet)	
Slip resistance	DIN 51130	R9	For Honed H9