

# HOW HI-MACS® STANDS UP AGAINST ALL THE ELEMENTS:

## Technical Properties:

Specification		Result	Unit	Test methods
Flexural E-modulus	Ef	8900	MPa	DIN EN ISO 178
Flexural strength	σ fm	76,9	MPa	DIN EN ISO 178
Breaking elongation	ε fm	1,01	%	DIN EN ISO 178
Resistance		> 1 x 10 <sup>12</sup>	Ω	EN 61340-5-1
				DIN IEC 61340-4-1
Diffusion resistance coefficient	μ	1807		DIN EN ISO 12572
Density		1,71	g/cm <sup>3</sup>	ISO 1183
Heat conductance	λ10tr	0,636	W/mK	DIN EN 12664
Resistance to thermal expansion	R	0,048	m²K/W	DIN EN 12664
Thermal expansion coefficient	α	0,048	mm/mK	prEN 14581
Linear expansion coefficient		max. 30 x 10 <sup>-6</sup>	m/°C	
Tensile resistance	σ fm	32,7	MPa	DIN EN 527
Water absorption		< 0,1	%	DIN EN 438 - part 12
SBI fire performance*		B - d0 - s1		DIN 13501

\*applicable to HI-MACS® FR S728 Alpine White, tested with subconstruction and insulation