

Technical values / product key figures



VACO SOLO

The core of the vacuum insulation panels, VIP for short, consist of pressure-resistant fumed silica. This is mixed with opacifiers and fibres to reduce the transmission of thermal radiation. The powder is compressed into a supporting core that is non-combustible, environmentally friendly and not hazardous to health. The core is then evacuated in a film and welded. Evacuation is the key to the VIP's high insulating properties.

Technical data

Characteristics	Unit	Values	Comment
Panel thickness	mm	15/20/25/30	Other thicknesses can be calrified
Standard sizes	mm	1000 x 500 500 x 500 250 x 500	
Custom formats	mm	-	according to order / room layout, designs possible as rectangle, triangle, trapezoid and special shapes
Colour	-	-	silver, due to foil
Delivery times			Standard sizes from stock Special sizes 2-4 weeks

Product key figures

Thermal insulation	Unit	15mm	20mm	25mm	30mm
Thermal conductivity declared	λ^d			0.007	
Thermal conductivity measured	λ			≤ 0.005	
U-value declared	(λ^d /thickness)	0.46	0.35	0.28	0.22
Physical properties					
Application temperature range	T			-200 to +100	
Volume weight**	ρ			180 - 200	
Surface density		approx. 3.0	approx. 4.0	approx. 5.0	approx. 6.0
Compressive load capacity (at 10% compression)				150	
Tolerances					
Thickness tolerance	mm			+2.0 / -1.0	
Width tolerance	mm			± 2.0	
Length tolerance	mm	+2.0 / -1.0	± 2.0	+2.0 / -3.0	+2.0 / -4.0
Other properties					
Internal pressure*** (upon delivery)	mbar			≤ 5	
Calculated pressure increase				approx. 1 mbar / a	

** depending on panel thickness

*** Depending on the panel size, the internal pressure can be between 0.5 and 5.0 mbar. The standard internal pressure in the evacuation chamber is <0.5 mbar

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