Technical values / product key figures

VACOSI VARIANT

The core of the vacuum insulation panels, VIP for short, consists 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. In this process, evacuation is the key to the VIP's high insulating properties. In a special process, the VIP is laminated with a glass fibre reinforced plastic (GRP), this gives the panel its hard surface and protects the VIP from damage. The edge of VACOSI VARIANT consists of approx. 10 mm of conventional insulation material (XPS) and can thus still be processed in the edge area. The VACOSI VARIANT element can be laid or glued directly without any further preparation.

Technical data

Characteristics	Unit	Values	Comment
Panel thickness	mm	15/20/25/30	Other thicknesses can be clarified
Sizes	mm	2035 x 1035	max. element size
Custom formats	mm	-	according to order / room layout, designs possible as rectangle, triangle, trapezoid and special shapes, max. element size 2025 x 1025 mm
Colour	-	-	red, special colour upon request
Delivery times			Standard size from stock Special sizes 2-4 weeks

Product key figures

¢KŜǊYI·ť ﾄyǟdzťI·ǘﾄ2ƴ		**¦yﾄǘ**	**15mm**	**20mm**	**25mm**	**30mm**
¢KŜǊYI·ť Ŏ2yŘdzŎǘﾄØﾄǘè ŘŜŎťI·ǊŜŘ	λ^d	W/mK	0,007			
¢KŜǊYI·ť Ŏ2yŘdzŎǘﾄØﾄǘè YŜI·ădzǊŜŘ	λ	W/mK	≤ 0.005			
¦πØI·ťdzŜ ŘŜŎťI·ǊŜŘ	(λ^d/ǘKﾄŎʅyŜăăύ	W/m²K	0.46	0.35	0.28	0.22
Physical properties						
Application temperature range	T	°C	-200 to +100			
Volume weight (core)**	ρ	kg/m³	180 - 200			
Surface density		kg/m²	approx. 7.2	approx. 7.9	approx. 8.6	approx. 9.3
Compressive load capacity (at 10% compression)		kPa	ca. 200			
Tolerances						
Thickness tolerance		mm	± 1.0			
Width tolerance		mm	± 1.0			
Length tolerance		mm	± 1.0			
Other properties						
Surface			smooth or optionally coarse (surcharge)			
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.

VITEC GmbH
Am Ellerbach 1
38871 Ilsenburg
Tel.: 039452/489738
Fax: 039452/489738
Mail: info@vitec-gmbh.com

Geschäftsführer
Joachim Luther

Internet:
www.vitec-gmbh.com

Sparkasse Goslar
BLZ: 268 500 01
Kto.: 530 23 404

IBAN Code
DE22 2685 0001 0053 0234 04

SWIFT CODE
NOLAADE 21 GSL

Handelsregister HRB 7899
Ust-IdNr.: DE262476450

FA Quedlinburg
Steuer-Nr.: 117/116/44190