

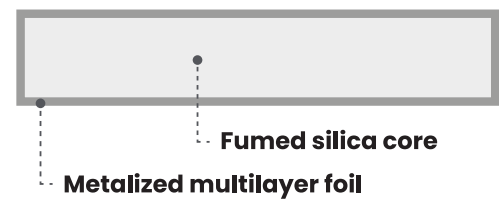
Technical Data Sheet

Turvac Si VIP

Description

Turvac Si is a vacuum insulation panel with extremely high insulating features at minimal thickness.

The panels fumed silica core is inserted into a metalized multilayer foil envelope, which provides a high-performance insulation solution.



Applications

- Household appliances – freezers and refrigerators
- Temperature controlled packaging
- Medical refrigerators and freezers
- Water storage device – hot and cold Cold rooms
- Industrial applications
- Other applications with long lifetime required

Features

Core	Fumed silica
Shape*	Rectangular
Edge finishing	Straight edges
Envelope	Metalized high barrier multilayer plastic foil
Surface color	Silver or white (depends on foil type)

**Variable shapes available upon request.*

Dimensions

	Value	Unit	Remark
Minimum size*	160 x 160	mm	
Maximum size*	1200 x 800	mm	Variable dimensions available upon request.
Thickness**	10 – 50	mm	at 5 mm steps

**Including flaps.*

***Without flaps.*

Tolerances

	Difference		Unit
	Value	Value	
Length and width	< 600	-3; +2	mm
	600 - 1200	-5; +4	mm
	> 1200	-8; +5	mm
Thickness	≤ 15	± 1	mm
	16 - 30	± 1,5	mm
	> 30	± 2	mm

Properties

	Value	Unit	Standard	Remark
Thermal conductivity (COP)*	< 0,0045	W/(mK)	EN 12667	thickness > 20 mm
Density (core)	170 - 210	kg/m³		
Temperature range	- 70°C - +80	°C		
Internal gas pressure	≤ 5	mbar		at dispatch
Specific heat capacity	≈ 0,8	kJ/(kgK)		

*COP - Thermal conductivity for center of panel.

Other/Miscellaneous

Storage	Store in dry conditions and protected from mechanical damage and direct sunlight.
Handling	Handle with care. Vacuum insulation panel must not be damaged by drilling, cutting, milling, nailing or similar.
Recyclability	Vacuum insulation panels are over 90% recyclable.
Service life	Over 25 years at standard conditions (23°C, 50% RH).
Taping	Taping with additional materials possible, e.g. double-sided adhesive tape, PIR, EPS, mineral wool.

Disclaimer

The information contained herein relates exclusively to above mentioned products. Care has been taken to ensure that the content of this document is as accurate as possible.

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