Technical data sheet

vakuVIP Gum1 and Gum2 (EU)



Description:

- vakuVIP Gum1 and Gum2 (EU) are fully approved by the building authority DIBt Berlin under licence number ETA-23/0203
- ultra high-performance insulation due to low density and very low thermal conductivity
- vacuumed core material made from pressed microporous silica, opacifiers and fibres
- special flame-retardant high-barrier film for use in the construction sector
- granulated rubber laminate on one (Gum1) or both sides (Gum2) for mechanical protection

Advantages:

- **Covered vacuum insulation panel** for higher mechanical protection
- **Very good thermal insulation** due to low thermal conductivity
- **Space-saving** due to thin design
- **High compressive strength**
- **Environmentally friendly and safe for health**:
  - Ecological and sustainable product due to 100% recyclability of the core material
  - Contains no toxic or dangerous substances
  - Contains no glass fibers
- **Customizable**: available in various sizes and shapes to meet individual requirements
- **Durability**: resistant to aging and moisture
- **Life cycle of up to 50 years**

Applications:

- Floor insulation
- Insulation of flat roofs and roof terraces
- Floor insulation for chilling and refrigerating rooms

All information is provided to the best of our knowledge. Errors and technical changes are reserved. / REV. 4 as of 25.02.2026

Dimensions and Tolerances:

Length / Width* [mm]*	*Tolerances*		*Thickness* [mm]* *(plus 3 mm rubber granulate on one or both sides)*	*Tolerance Thickness* [mm]*
	Length [mm]*	*Width* [mm]*		
150 - 500	+1 / -4	+1 / -4	10 - 20 21 - 50	+1 / -1 +2 / -2
500-1000	+1 / -5	+1 / -5	10 - 20 21 - 50	+1 / -1 +2 / -2
>1000	+1 / -5	+1 / -5	10 - 20 21 - 50	+1 / -1 +2 / -2

**deviating dimensions available on request*

For dimensions over 1000 x 600 mm, the cores are composed of several parts.

Performance Characteristics:

Density	Thickness > 20 mm: 180 to max. 210 kg/m³ according to DIN EN 1602 Thickness ≤ 20 mm: 180 to max. 250 k/m³ according to DIN EN 1602
Weight	approx. 4 kg/m² at 20 mm thickness plus rubber granulate laminate
Compressive strength **(Compressive stress at 10 % strain)**	≥ 140 kPa according to DIN EN 826 VIP material ≥ 125 kPa according to DIN EN 826 (variant Gum1 /Gum2)
Thermal conductivity λ_{10}-value	≤ 0,0040 W/(m*K) initial value before aging at an internal pressure under 5 mbar (measurement value according to DIN EN 12667)
Temperature resistance	-50 to +90°C / -58 to +194°F short term up to +120°C / 248°F for about 30 min
Service life	under dry conditions (relative humidity < 60%) and temperatures between 5°C – 30°C, up to 50 years depending on the application
Delivery form	packed in cartons on pallets
Safety Instructions	According to the manufacturer, the core is not a hazardous material according to Directive 91/155/EEC. It does not release any dangerous decomposition products and, to the best of current knowledge, poses no health risk to humans.

	VIP thickness [mm]	U-Wert [W/(m²K)]
U-Wert (VIP)	10	0,70
	20	0,35
	30	0,23
	40	0,17
	50	0,14
	60	0,12

Application restrictions:

The metallized barrier film of the vakuVIP elements must not be damaged by drilling, cutting, milling, nailing, screwing, or impacting sharp edges, etc. Damage to the film leads to an increase in the internal pressure of the panels, resulting in a loss of vacuum and their excellent thermal insulation properties. The thermal conductivity in the ventilated condition is around 0.020 W/(m*K).

Please refer to our processing instructions included with the product upon delivery.

Contact Information

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