

Product data sheet:

vakuVIP B2

**General
Building
Approval**

Description:

- **vakuVIP B2 is fully approved and licensed by the building authority DIBt Berlin** licence number Z-23.11-1851 (issued 11.11.2013)
- “High-Performance-Quality” for the construction sector
- 8 times thinner than conventional insulations
- Ultra-high-performance insulation with low density and low coefficient of thermal conductivity
- Specially developed production processes ensure precise and constant thicknesses alongside the whole panel
- Incombustible core material – fire protection class A1
- Special cover-foil for applications in the construction industry

Advantages:

- Very low thermal conductivity
- High compressive Strength
- Very low space requirement
- Ecological product
- Long lifecycle

Range of Application:

- Floor, roof and wall-insulation
- Insulation of flat roofs and roof terraces
- Used as insulation in façade construction
- Insulation inserts in doors and fillings
- Insulation material in shipping and storage containers
- Floor insulation for chilling and refrigerating rooms

Alle Angaben nach bestem Wissen und Gewissen, Irrtümer, techn. Änderungen vorbehalten / Stand 03.07.2017

Dimensions:

Standard sizes	1000 x 600 mm 1000 x 300 mm 600 x 500 mm
Special sizes	Available on request
Thickness	10, 15, 20, 25, 30, 40, 50 mm more available on request
Max. Dimensions	
Max. Length*	1200 mm
Max. Width*	1000 mm
Max. Thickness	60 mm
*more sizes available on request	
Tolerances / mm	
Length/Width 150 - 500	+3 / -3
Length/Width 500 - 1000	+3 / -4
Length 1000 - 2000	+5 / -15
Thickness	+2 / -4

The core consists of more than one part for panels bigger than 1000 x 600 mm.

Characteristics:

• Density	150 to max. 220 kg/m ³ according DIN EN 1602
• Weight	Approx. 4 kg/m ² for 20 mm thickness
• Pressure resistance (10% pressure to the core)	Approx. 140 to 180 kpa / 20 to 26 psi
• Heat conductivity (λ-value)	≤0,0045 W/(m*k) during the process of aging, the internal pressure will rise from 1 mbar to 5 mbar and average temperature of 10°C / 50°F (value measured according to DIN 52612-1 or DIN EN 12667)
• Thermal stability	-50 to +90°C / -94 to +194°F momentary (30 min) up to +120°C / 248°F
• Shelf life	In dry conditions and with temperatures between 5°C - 30°C / 40°F - 86°F almost unlimited

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| • Form of delivery | Packed in boxes, on pallets |
| • Safety advice | According to supplier and guideline 91/155/EEC, the core is no hazardous material. It does not release any hazardous decomposition products and is no threat to them human health – current knowledge. |
| • Longevity | Up to 50 years depending on application |

Anwendungseinschränkung:

The product vakuVIP B2 has been approved and licensed by the German Institute for Construction Engineering (DIBt Berlin), licence Number Z-23.11-1851 (issued 11.11.2013). The calculation value for the thermal conductivity of this product has been set to **0,007 W/(m2K)**.

Restrictions:

The high-barrier-laminate used for vakuVIP-products shall not be damaged by drilling, cutting, grinding, nailing, milling or bumping on sharp edges. Damaging the laminate will lead to a rapid increase of internal pressure and rapid decrease of the vacuum inside of the panel. The thermal conductivity value will rise to nearly 0,020 W/m²K in a non-vacuum-state.