VAKUISOTHERM©

Processing and Handling Instructions for vakuVIP Vacuum Insulation Panels:



vakuVIP vacuum insulation panels must always be transported, stored and processed with care. Before further processing, each panel must be checked for any loss of vacuum or damage.

A complete loss of vacuum can be identified by the fact that the shiny silver film no longer fits tightly around the core, but has visibly separated from it or lies loosely on it.

The following instructions must be observed in particular when storing, handling and processing vakuVIP panels:

1. **Incoming Goods and Visual Inspection**
   Immediately upon delivery, vakuVIP panels must be checked for integrity and functionality using the visual criteria described above.
2. **Protection of the Envelope Film**
   The shiny silver envelope film of the vakuVIP panels must not be damaged. In particular, sawing, drilling, cutting, scoring or scratching the panels must be strictly avoided.
3. **Substrate Condition**
   The substrate on which vakuVIP panels are laid or secured must be smooth, level, clean and free from sharp-edged irregularities, edges and burrs that could damage the envelope film.
4. **Temperature and Humidity**
   During storage, processing and use, vakuVIP panels must not be exposed to high temperatures, high humidity or aggressive gases on a prolonged basis. In particular, prolonged exposure to relative humidity above 60% or temperatures above 50 °C must be avoided.
5. **Mechanical Stress**
   Mechanical stress on vakuVIP panels must be avoided as far as possible during installation and use. In particular, the panels must not be subjected to point loads or prolonged vibration, tensile stress or friction.
6. **Compressive, Tensile and Shear Forces**
   Structures incorporating vakuVIP panels must be designed so that the panels are

subjected only to compressive loads distributed as evenly as possible across their surface. Tensile and shear forces acting on the vakuVIP panels must be avoided.

7. **Adhesive Bonding and Foam Encapsulation**
   vakuVIP panels can be bonded using suitable polyurethane adhesives or hot-melt adhesives, for example. Encapsulation in polyurethane foam is also possible in principle. It must be ensured that the temperature at the panel does not exceed 100 °C, even briefly. As a general rule, solvent-free adhesives should be used. The suitability of the adhesive or foam must be checked under the specific processing conditions. Preliminary trials are recommended if in doubt.
8. **Thermal Bridges**
   Particular attention must be paid to thermal bridges in structures incorporating vakuVIP panels. Due to the very high insulation performance of vacuum insulation panels, thermal bridges can have a more pronounced effect on the overall thermal insulation of the structure than with conventional insulation materials.
9. **Moisture Protection**
   The structural design must take into account that condensation may occur, particularly at cold spots. Depending on the structure, suitable moisture protection measures, such as vapour retarders or vapour barriers, must therefore be provided. The accumulation of moisture or water in the immediate vicinity of the vakuVIP panels must always be avoided.
10. **Instruction of Processing Personnel**
    It must be ensured that anyone storing, handling or processing vakuVIP panels receives appropriate instruction before starting work. This instruction must cover, in particular, the general processing instructions and any specific requirements relevant to the application in question.

All information is provided to the best of our knowledge and belief. Errors and technical changes reserved. Updated: 2026

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