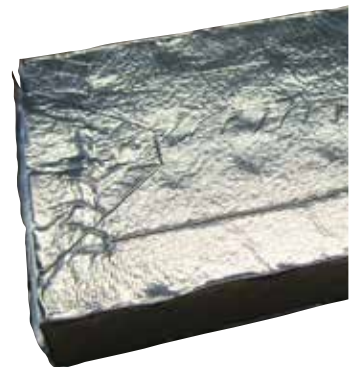


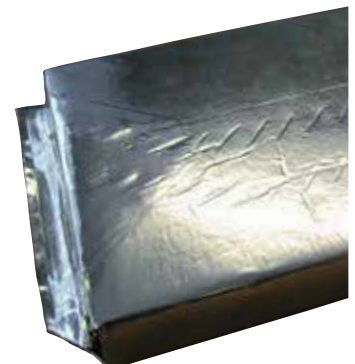
General Instructions for Use - va-Q-vip F and variants

va-Q-vip F is approved according to ETA-17/0926. The variants with integrated cover layers (va-Q-vip F XPS, va-Q-vip F GGM) hold a general building permit no. Z-23.11-1658. The envelopes are considered to be normally flammable in accordance with fire rating DIN 4102-B2 or respectively in accordance with EN 13501-1. Vacuum insulation panels (VIPs) must always be handled with care. When processing the products va-Q-vip F (also GGM, XPS), please observe the following points:

- The VIPs must not be subject to mechanical damage. Sawing, drilling and scratching **MUST** be avoided. The panels must be checked for proper functionality by means of a visual inspection before installation. Defective panels must be replaced.
- The substrate onto which the VIPs are to be mounted must be smooth, even and free from edges and ridges.
- Care must be taken that constructions with VIPs are only subject to an even, flat compressive load. Point loads, as well as tension and shear loads, must be avoided.
- The VIPs can be bonded with, for example, 2-component polyurethane adhesive, hot melt or dispersion adhesive. Please ensure that the adhesive is free from alkaline, cement and solvent-based substances. Sikaflex® - 111 Stick & Seal (va-Q-vip, va-Q-vip F, va-Q-vip XPS) and SikaBond® -TF plus N (va-Q-vip, va-Q-vip F, va-Q-vip GGM) are tried and tested products.
- During storage and use the VIPs must not be exposed to high temperatures, high levels of humidity and/or aggressive gases. Avoid permanent relative atmospheric humidity over 60% and temperatures over 80°C.
- When installing the panels care must be taken that no moisture, e.g. from rain, can get near the panels.
- Only trained personnel may work with va-Q-vip F. The instructions for use, in particular, must be adapted for each individual case.
- The insulation system must be designed in such a manner that individual ventilated VIPs does not lead to technical problems with the entire system.
- When installed on the ground, walking on the panels must be prevented.
- If there are adjacent components, a circumferential construction joint of 10-20 mm is recommended in order to compensate for dimensional tolerances. This can be compensated with standard insulating materials.
- In case of doubt, or if you have any further questions, we are happy to help you.



Intact VIP



Damaged VIP



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