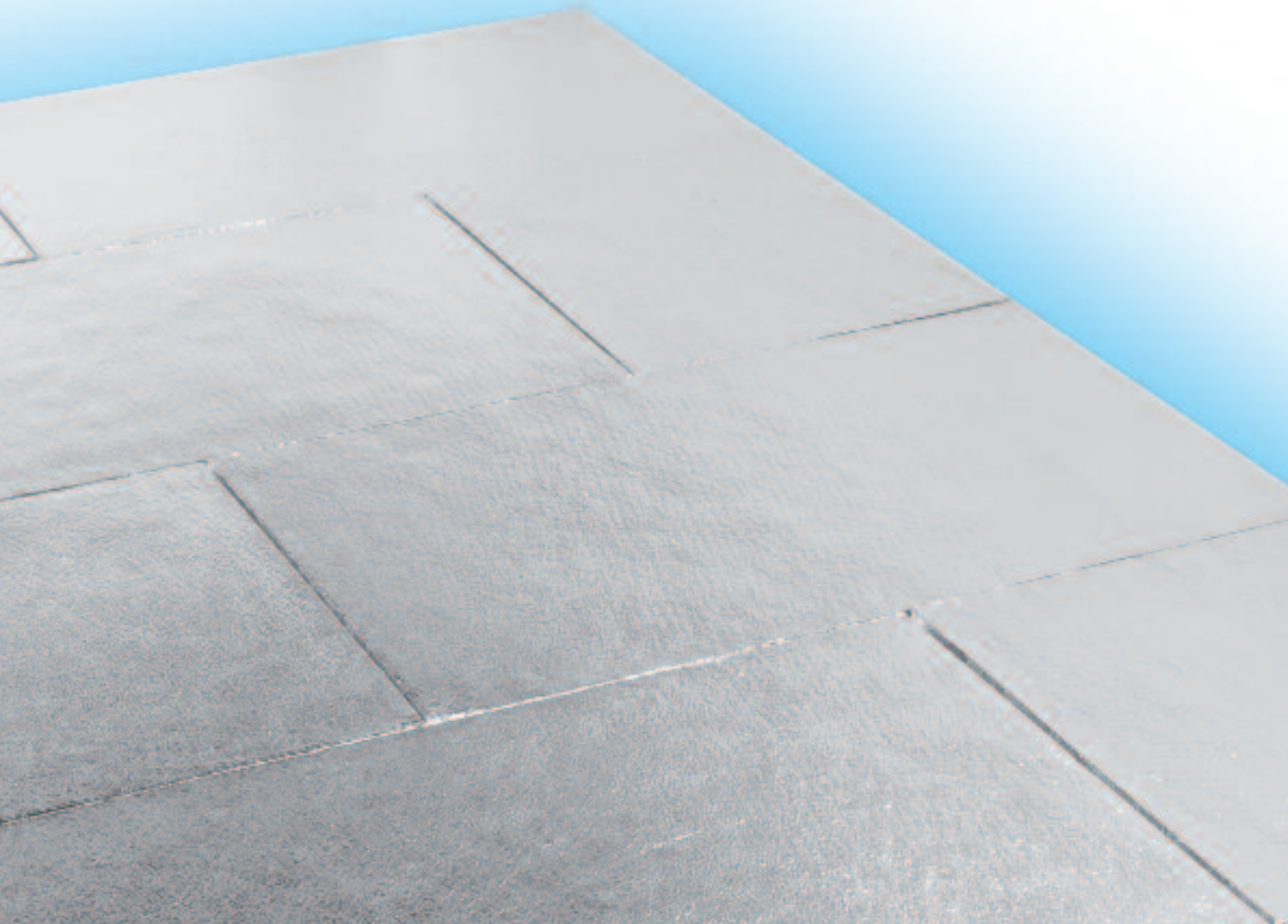




# VACUSPEED<sup>®</sup>

**Modular system for high performance insulation**

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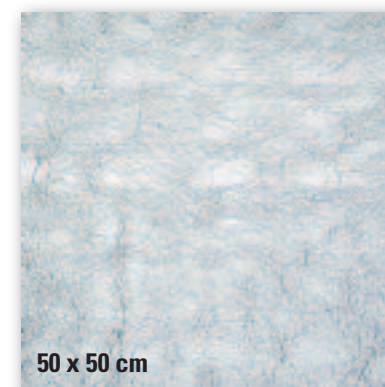




### Vacupor® Inside

For many years now, Vacupor® has been successfully applied in a variety of industrial applications, and has established itself as a well-known Porextherm brand name for vacuum insulation panels. The excellent insulation performance of our VIPs has been repeatedly demonstrated in a wide range of industrial applications, as well as in the construction industry. The new Vacuspeed® system was developed to meet the special requirements of the building industry even better. Vacuspeed® allows us to offer a new, flexible system for quick and highly-efficient surface insulation.

## VACUSPEED®



**Four plus one for all surfaces:**  
Four sizes of vacuum insulation panels and one cuttable cut-strip cover almost any surface quick, easy and flexible.

## VACUSPEED® CUT



### The idea with system

High efficient surface insulation is now quick, simple and flexible thanks to our clever Vacuspeed® modular system. Calculations have confirmed that the majority of a wide range of different surface geometries can be insulated, just using the four standardised Vacuspeed® formats. The few edge pieces, which reach a maximum width of circular 12.5 cm, can simply be filled with a cuttable high-quality insulation material. Thus enormously reduces planning time and effort. Thanks to the outstanding performance of Vacuspeed® with a rated value of 0.008 W/(m · K)\*, the U-value as measured for the entire surface, remains at a very high level in comparison to significantly thicker, conventional insulation materials.

\* The rated value refers to the vacuum insulation panels only.





**React spontaneously.**  
The Vacuspeed® system can be delivered from stock on short notice. It is practical in use on almost any construction site.

### Rapidly available

In renovations, measurements can often only be performed once the building structure has been exposed. Even in new-builds, unpredictable surprises can often appear. The new Vacuspeed® system provides you with a quick and smart solution, as you can insulate surfaces in a high effective and space-saving manner with vacuum insulation panels.

Vacuspeed® is immediately available in the desired amounts and panel formats. Construction site-ready and securely packed, Vacuspeed® is available in thicknesses of 15, 20 and 25 mm.

### Easy handling

The craftsmen will be happy to see that the packaging boxes are specially adapted to the construction site conditions.

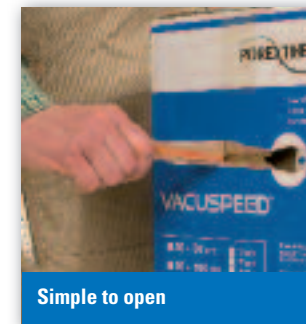
They are extremely clear arranged, easy to handle, robust and space saving. The packaging units can be moved safely on-site and placed at the building site without problems even via the scaffolding.

This simplifies the distribution and makes extensive positioning lists and layout plans more or less superfluous.

Simply open, remove and laying can begin immediately. Any remnants remain safely packed.



Practical carrying handles



Simple to open



Secure packaging





### Individual laying

Rooms are often not rectangular, and can surprise you with protrusions or intruding angles. Vacuspeed® – the smart, modular raster system permits installation in almost all popular ground plans. The time-intensive production of VIP special formats is no longer required with Vacuspeed®. The laying template should not have cross joints, and the largest formats must wherever possible be laid first. The smaller formats usually fit in the edge areas. The missing edging – a maximum of 12.5 cm circular – is simply fitted using cut-to-size Vacuspeed®-Cut.

### More efficient performance

Vacuspeed® is an enormously powerful insulation material, both in terms of its insulation effectiveness as well as its handling.

As long as you follow the simple working instructions, you can achieve fast, simple and flexible results with Vacuspeed®, and provide elegant solutions to most of the problem areas which you will encounter in construction. Multiple layers of Vacuspeed® can also achieve even better insulation performance. The floor structure is then built up in the normal way. You can find some sample constructions and invitation to tender texts amongst others on our website - [www.bau-vip.de](http://www.bau-vip.de)



Measure the edges...



cut the Vacuspeed®-Cut...



and fit flexibly.



Double laying for improved performance



Traditional floor structure, e.g. with parquet, etc.





### Quality speaks for itself

Vacuspeed®, as well as our already well-known Vacupor® products, has achieved a building authorities approval since December 2009. This approval covers a varied range of construction applications both indoors and outdoors, and is constantly extended by new applications.

Porextherm has been an official member of the Güteschutzgemeinschaft Hartschaum e.V. (GSH) since April 2008.

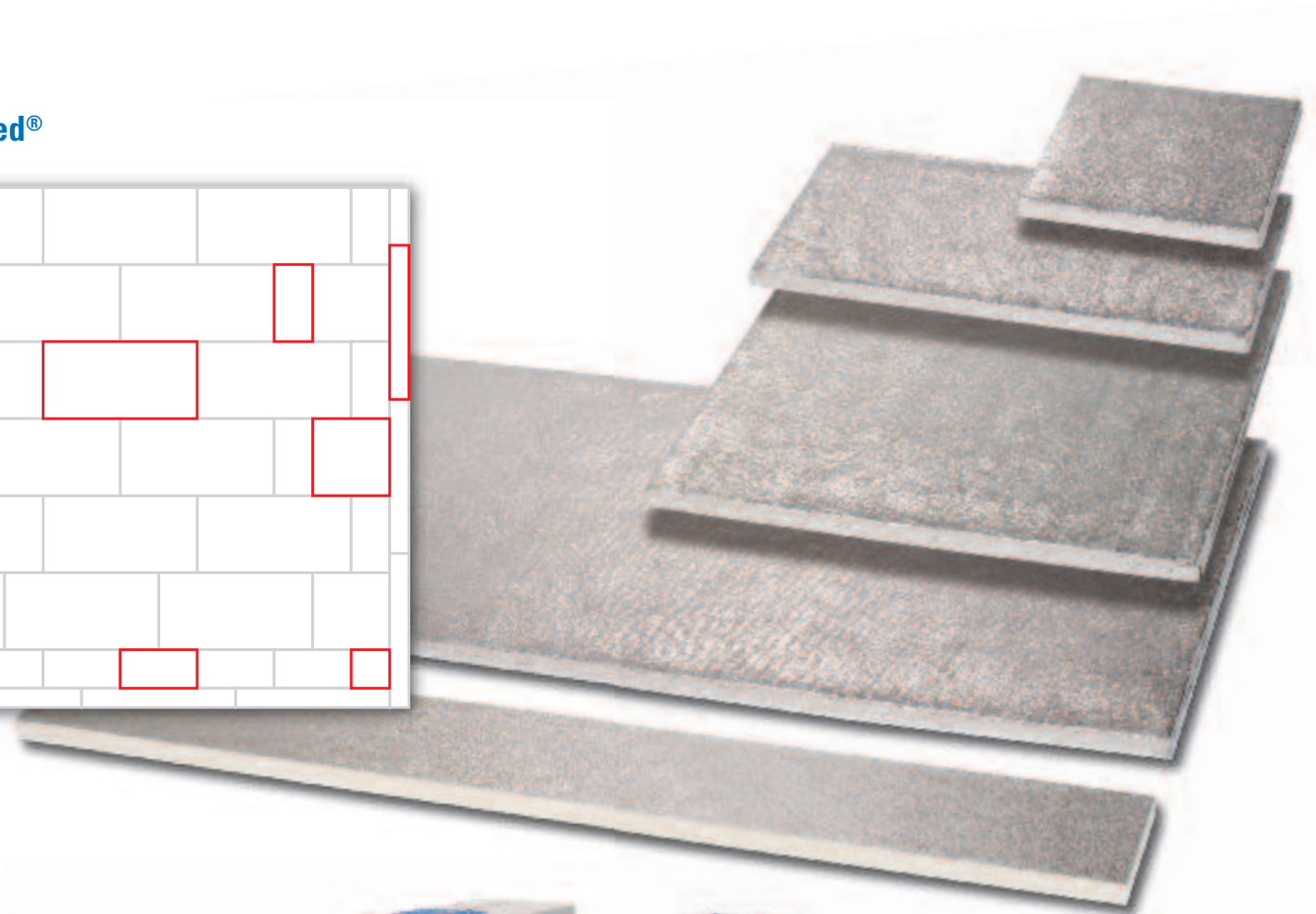
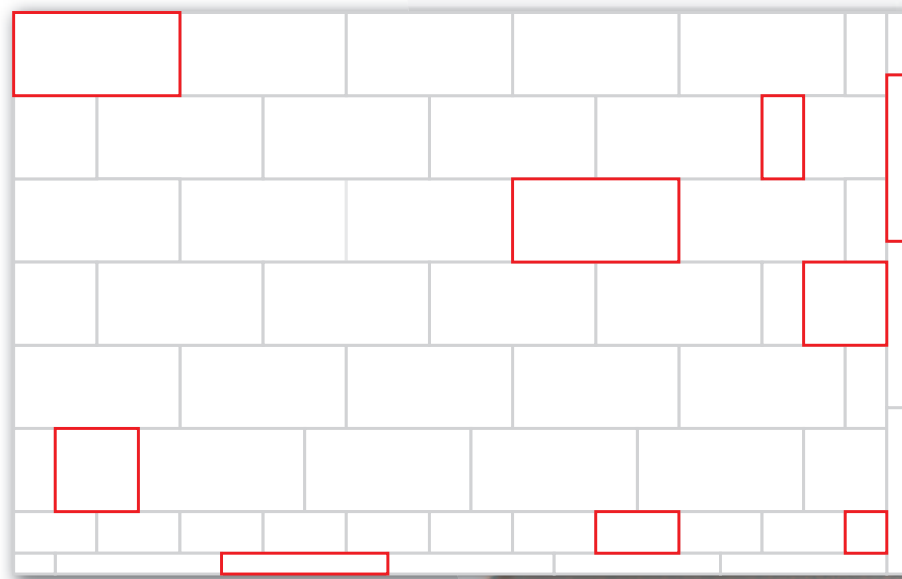
Well-known manufacturers of vacuum insulation panels, as well as suppliers of barrier films and raw materials have come together in this products quality assurance association with the aim of ensuring the quality of their products. Porextherm is thus subject to very strict quality criteria, particularly with regard to those of its products which are commercially available to the construction industry.

Besides the construction authorities approval, as well as the RAL quality label and the Ü-label for external quality monitoring, Porextherm is also certified according to the ISO 9001 quality management system and the ISO 14001 environmental management system.

All of this will contribute to strengthen the faith of fabricators and users in the quality of vacuum insulation panels.



Sample layout using Vacuspeed®



Effective and economical

Vacuspeed® beats conventional insulation materials in a number of areas:

- Clearly higher insulation performance for even better energy balance results.
  - Considerably thinner structures for intelligent, constructive solutions in construction applications.
  - Very fast availability from stock.
  - Sophisticated raster system for on-site customisation.
  - Clearly lower planning costs, with no need for complex and costly layout plans and position lists.
- Clever packaging system for comfortable handling during transport, storage and on the construction site.
  - Multi-layer laying concept, for even greater efficiency.
  - Proven technology with construction authorities approval.
  - Assured quality through the RAL quality label.

Insulation values and technical design

Vacuspeed®

Fumed silica core, fleece wrapped and vacuum-sealed in an aluminised high barrier film.

Thermal conductivity at the centre of the panel, measured at a 10°C average temperature

0,0043 W/(m · K)

Rated value\* in acc. DIBt approval no. Z-23.11-1662

0,008 W/(m · K)

Vacuspeed®-CUT

Cuttable PU foam plate, with structured pure aluminium film on both sides

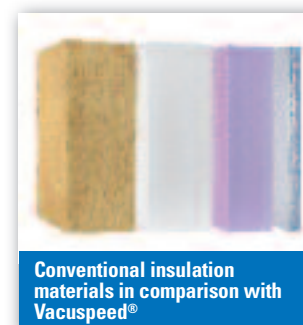
Thermal conductivity – Nominal value  $\lambda_D$

0,023 W/(m · K)

Material Thickness

Available in thicknesses of 15, 20 and 25 mm.

\* The measurement value refers to the vacuum insulation panels only.



**Vacuspeed®**  
Box of 10  
25 x 25 cm  
Content: 0.62 m<sup>2</sup>



**Vacuspeed®**  
Box of 10  
25 x 50 cm  
Content: 1.25 m<sup>2</sup>



**Vacuspeed®**  
Box of 10  
50 x 50 cm  
Content: 2.5 m<sup>2</sup>



**Vacuspeed®**  
Box of 10  
50 x 100 cm  
Content: 5 m<sup>2</sup>



**Vacuspeed®-Cut**  
Box of 20  
12.5 x 100 cm  
Content: 2.5 m<sup>2</sup>





Porextherm is your provider for innovative thermal insulation solutions. Since 1989 we have continuously expanded our core expertise in microporous insulation systems and build a broad portfolio of partly patented products and processes. Based on our own research and engineering we have developed a impressive variety of insulation products, which are manufactured in our modern state of the art facilities in Kempten, Germany. Our services and products are available worldwide directly through us or one of our selected and experienced partners.



**Authorised Porextherm Partner**

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