

# Product Data Sheet

## **HYTHERM VIP** VIP Insulation

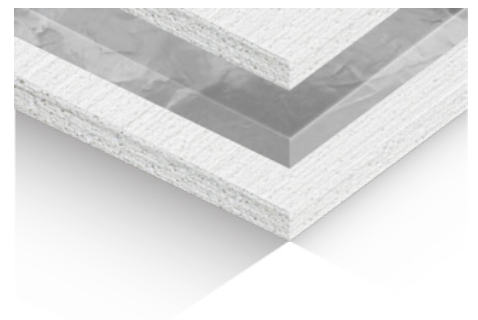
### **High performance rigid vacuum insulated panel combining thermal efficiency with minimal thickness for use in flat roof applications**

Hytherm VIP is a rigid vacuum insulation panel system comprising a micro-porous core encased and sealed in a thin, gas-tight envelope. This provides both outstanding thermal conductivity and a thin insulation solution for new build and refurbishment projects where there are requirements for maximising thermal performance of the building fabric whilst maintaining thin build-ups in restricted spaces.

Hytherm VIP is available for both flat and tapered insulation systems. Rigid PIR insulation infill panels are also available; these can be cut to fit around roof penetrations.

#### **Key benefits**

Ideal for new build and refurbishment projects  
Optimum performance – aged design value thermal conductivity 0.007 W/m.K  
Compression strength >175kPa at 10% compression  
Resistant to the passage of water vapour  
Easy handling and installation  
Manufactured to ISO 14001 and ISO 9001



## Description

HYTHERM VIP	
Length	300mm to 1200mm
Width	300mm to 600mm
Insulant thickness	20mm to 40mm

Other sizes may be available dependent on quantities required.  
Hytherm VIP systems are designed to achieve the required U value.  
Contact Axter Ltd for further details.

## Technical and performance data

HYTHERM VIP	
Thermal Conductivity	0.007 W/m.K aged design value allowing for edge effect
Compressive strength	Typically >160 Pa @ 10% compression tested to BS EN ISO 826:1996

## Resistance to Solvents

Hytherm VIP should not be used in association with solvent-based adhesive systems. Damaged boards or boards that have been in contact with solvents or acids should not be used.

## Durability

Hytherm VIP, if installed correctly and protected from damage and penetration, will provide long-term effective thermal performance over the lifetime of the building.

Durability is dependent on the application method, the supporting structure and conditions of use.

## Fire Performance

The fire rating of any roof containing Hytherm VIP panels will depend heavily on the type of deck and waterproofing system installed. The designation of the roof covering must meet or satisfy the requirements of national Building Regulations.

For further details, contact Axter Ltd.

## Design considerations

Please contact Axter Ltd for design assistance.

## Installation

Check that all roof dimensions and positions of obstructions correspond to the design layout.

Ensure that the roof area is clear of all other trades and that there is no standing water on the roof areas prior to commencement of installation.

Follow the setting out instructions on the relevant design drawing for the project.

Install only areas that can be covered with the completed system.

Hytherm VIP vacuum panels cannot be cut or altered under any circumstance.

Ensure that Hytherm VIP panels are not damaged or punctured during installation.

Hytherm VIP should not be used as a working surface. Areas of Hytherm VIP should be protected prior to installation of the next overlay.

Specified ballast or slabs/decking should be installed as soon as practical and following trades must not traffic the roof until this has been completed.

## Standards and Approvals

Manufactured to ISO 14001, ISO 9001

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