

## Data Sheet

The PROVAC roofing system is based on the principle of anchoring the membrane by creating negative pressure in the layer between the membrane and the airtight substrate when subject to wind loading. The negative pressure causes the membrane to be held down against the substrate, and the load is transferred downwards to the supporting structure.

The PROVAC system is suitable for both new build and refurbishment projects.



The principle is that the underlay and the attachments of the roofing membrane must be airtight in accordance with specification requirements. In order to assess the suitability of a particular building, it must be inspected and evaluated beforehand by a Protan technical representative.

### Minimum Requirements / Specification

Protan PROVAC System	
Deck Type	Concrete (other deck types subject to inspection)
Vapour Control Layer	Reinforced Bitumen Felt
Insulation	Rockwool Duorock or Hardrock
Protan Membrane	Protan SE 1.2 <ul style="list-style-type: none"> <li>Prefabricated sheets</li> <li>2m sheets</li> </ul>
Protan Components	Protan Vacuum Vents Protan Air Sealing Tape Protan Pocket Protan Bar Protan HD 6.1mm Screws Protan Prefabricated Components

### Environment

The PROVAC system is fully recyclable including the insulation and membrane, with no contamination as no solvents or adhesives are used during installation.

In addition the roofing system can be thermally upgraded with relative ease as fixings are only used around the perimeter and penetrations.

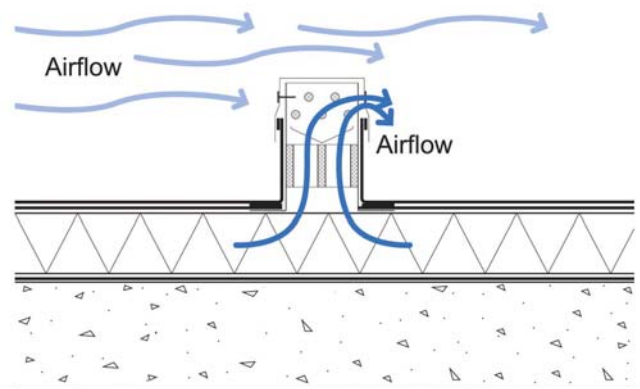
### Installation

The PROVAC system can only be installed by applicators approved by Protan, who have received special project training and are regularly updated with information about the system.

The design and layout of the roofing system and vents are the responsibility of Protan Technical Services. All vacuum installed roofing membranes must be inspected by a Protan Technical Manager during installation.

The system requires the use of prefabricated or 2m wide sheets, which allows large areas to be installed rapidly. Automatic welding machines must be used on these sheets.

All roof penetrations must be air sealed and pull out tests must be performed on the concrete.



### Durability

Accelerated weathering tests and performance in service confirm that satisfactory retention of physical properties is achieved. All available evidence indicates that Protan SE membranes should have a life in excess of 30 years. Refer to BBA Certificate No. 98/3459.

### Technical Approval

Further information on the PROVAC system can be found in the NBI Technical Approval No. 2281.



### Maintenance & Inspection

In line with BS 6229 : 2003 we recommend that the roof area be inspected, ideally in the spring and autumn, for evidence of damage, clearing of any accumulated debris, cleaning of gutters and ensuring outlets are clear and free flowing.

Special attention should be made to the vacuum vents.

**For further information please contact Protan (UK) Ltd.**