



VACUUM SYSTEM



Working with the forces of nature

LOOSE-LAYING FOR AN AIR-TIGHT FIT

The unique Protan Vacuum system uses wind forces present in the environment to hold the Protan membrane in place, thus providing durability and protection even in the most extreme conditions.

Since the installation of the first Protan Vacuum system in Norway in 1985, the system has been installed on over 2,000,000m² of roofs throughout Europe.

The Protan Vacuum system works by loose-laying Protan SE, EX, or EXG membrane on the roof, with fixings around penetrations and the roof perimeter only. Strategically located Protan vacuum vents installed within the system act as pressure-release valves, which allow controlled air flow through and out of the system through specially designed air valves - the stronger the wind forces, the better the system works.

The Protan Vacuum system is suitable for new roofs and refurbished roofs, especially those with concrete roof decks.

Two key components of the Protan Vacuum system are an air-tight roof deck and a load-bearing vapour control layer.

ENERGY EFFICIENT AND SUSTAINABLE

The Protan Vacuum system offers many benefits to the specifier, contractor and building owner with regards to energy efficiency and sustainability:

- The system is adhesive-free, so there is no health risk for the installer, nor any toxic waste
- The air-tight system helps to achieve and can exceed part L building regulations
- The roof deck and vapour control layer are not penetrated by fixings
- Upon expiry of the system's minimum 30-years working life, the Protan membrane is easily recycled along with all of the components

The Protan membrane provides long-term durability with proven weathering in excess of thirty years.



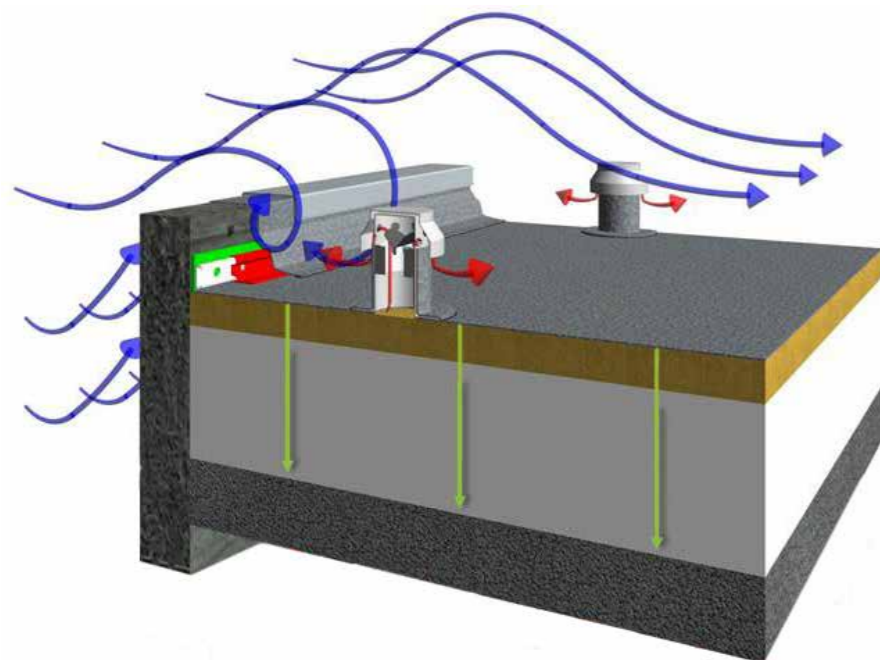
Lakeland Climbing Centre, Kendal



Butlins Splash Waterworld, Skegness



INEOS Power Station, Runcorn



Rapid installation without waste

COST EFFECTIVENESS

Early consultation with Protan will ensure the optimal design for the roof. Various shapes can be accommodated, from flat to barrelled.

As minimal fasteners are required, installation is rapid, which reduces time on site and contributes to a shorter construction programme - particularly beneficial when installing on concrete roof decks.

Cost savings are possible when prefabricated Protan membranes are installed, especially on simple roof plans.

COMPLETE SERVICE

The Protan Vacuum system offers specifiers a full design service, so the advantages of the system can be fully-understood in order to maximise their benefits from feasibility through to the building's operation.

- Outline proposal and budget costs
- NBS specifications
- Standard detail drawings in CAD format
- Specialist installation from a Protan-approved partner roofing contractor
- Full system warranty

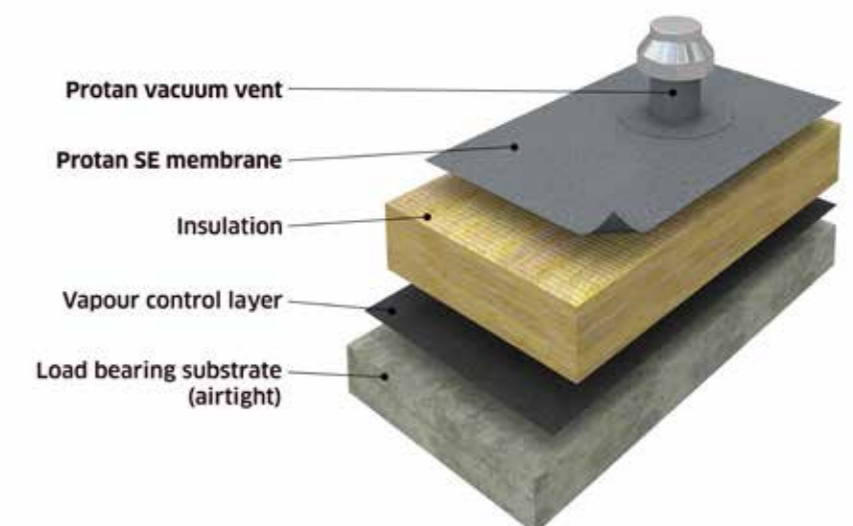
COMPLETE SOLUTION

The Protan Vacuum system is bespoke designed for the roof in question, thereby minimising waste. Early consultation with Protan will ensure the optimal design and maximum savings with regards to installation time and material costs.

Protan's experience of prefabrication can be integrated with the Protan vacuum system. Prefabricated Protan system components include:

- 3.96m-wide rolls of membrane
- External and internal corner details
- Rainwater outlets
- Fall arrest systems
- Protan membrane laminated metal for use as edge trims

For further information, data sheets, standard detail drawings, technical support, or SINTEF technical approvals, please get in touch using the contact details overleaf.





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