

Data Sheet

Protan's Standard Overlap Mechanically fixed system is the most commonly specified system that Protan supplies. Standard Overlap can be used in both new build and refurbishment projects.

The Standard Overlap system is mechanically fixed and can be installed on the following roof decks in both warm and cold roof build ups:

- Concrete
- Aluminium
- Steel
- Plywood
- Timber

The fixings are secured to the substrate within the membrane's side lap, and overlapped by the adjacent sheet. The two sheets are then welded together using semi-automated hot air welding equipment. This guarantees a homogeneous seam, which is of greater strength than the membrane. Minor works are carried out using hand held hot air welding equipment.

The 2m wide sheets in the field area of the roof must always be welded with an automatic welding machine such as the Leister Varimat. This ensures that a good reliable weld is made, that can withstand the wind uplift the sheets may be subjected to.



Properties of Protan SE	
Tensile strength EN 12311-2:2000(A)	≥ 1050 N/50 mm
Elongation EN 12311-2:2000(A)	≥ 15%
Tear resistance EN 13210-2:2000	≥ 210N

Environment

Protan SE membrane can be recycled after its working life. For more environmental details please see the Protan SE membrane datasheet and environmental product declaration. Protan membranes can be produced to tailor made designs allowing for a zero waste solution.

Certificates and Approvals

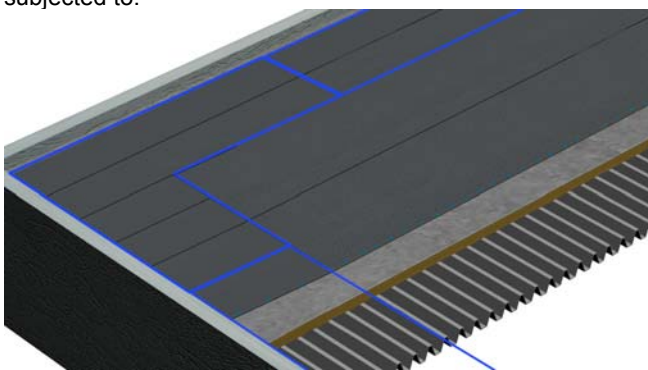
Protan SE membranes and the mechanically fixed systems that use them have been tested certified and approved by both the British Board of Agrément and FM approvals. They have been proven to meet and exceed the necessary requirements for PVC roofing membrane.

References

For further technical information please refer to:

- Protan SE Membrane Datasheet
- BBA Certificate 98/3459
- IAB Certificate 06/0262
- SINTEF NBI Approval 2010
- European Technical Approval No. ETA-06/0251
- Environmental Product Declaration NEPD No. 032
- FM Approval

All of the above documents are available from Protan (UK) Ltd.



Protan 2m Standard Overlap System

Membrane

Only Protan SE membrane can be used for mechanically fixed applications such as the Standard Overlap System. The integral polyester knit gives the membrane the tensile strength necessary for membranes used in mechanically fixed systems.

The side laps should be 120mm for 1m sheets and 130mm for 2m sheets with a 40mm weld.

Prefabricated details for internal and external corners, pipes and a number of other applications are available from Protan UK. Detailing can also be formed onsite using G membrane.