

Data Sheet

The PROGREEN Extensive Green Roofing System supports low growing, lightweight and low maintenance planting schemes. The system will provide a consistent, colourful and aesthetic finish that is largely self supporting and able to withstand harsh weather conditions such as drought and frost.

The PROGREEN Extensive roof is suitable for both new build and refurbishment projects. Due to the weight loadings of an extensive system, most roof deck types are suitable subject to inspections and wind loadings.

The green roof system must be able to drain freely so that the vegetation does not become ponded in water. It is also essential that the system is able to store enough water to survive drought conditions. Therefore, it is important that a Protan approved horticultural consultant assesses the individual roof to specify a suitable system.

PROGREEN Extensive green roofs are suitable for roof slopes up to 15°. It is possible to achieve higher roof slopes with additional support. Please consult Protan technical services for further details.

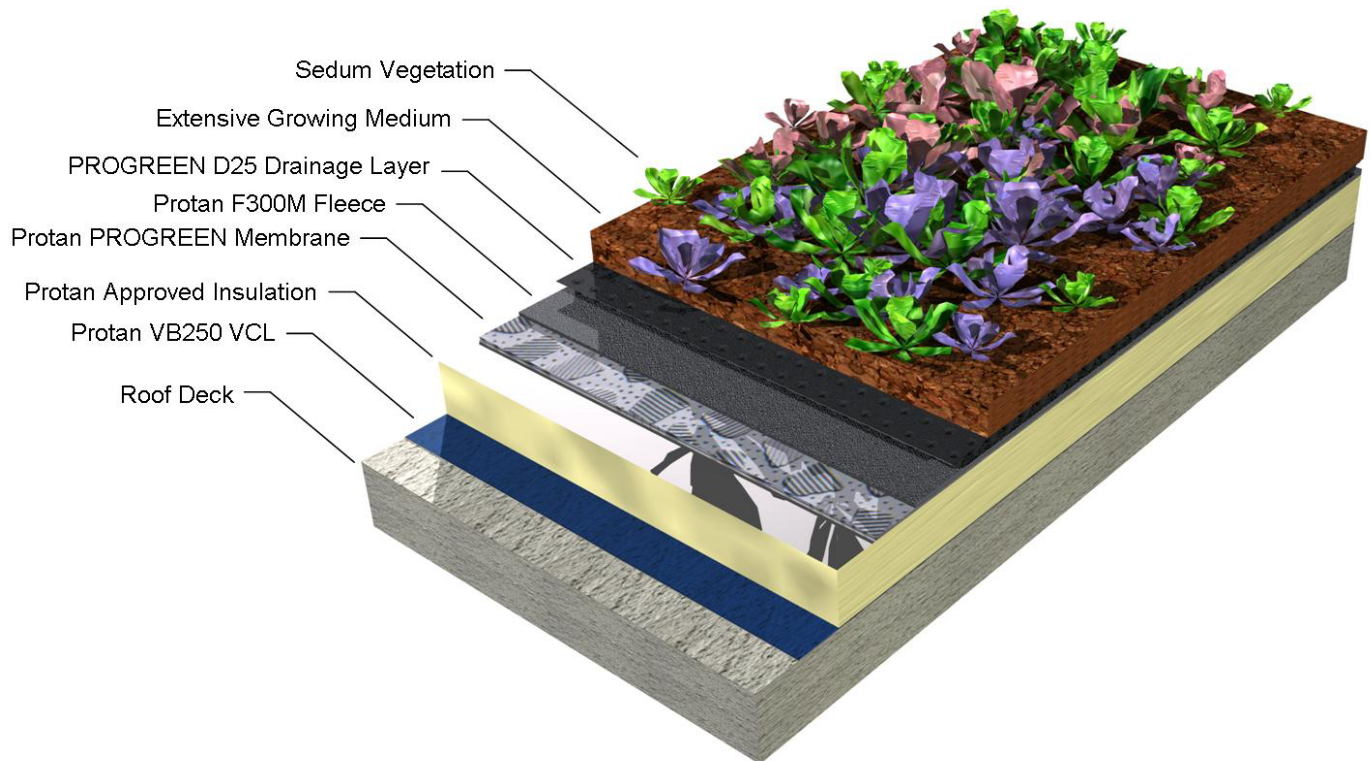
PROGREEN Extensive Roof		
Component	Weight	Depth
Protan PROGREEN Membrane	1.9 kg/m ²	1.5 mm
Protan F300M Fleece	0.3 kg/m ²	2.0 mm
PROGREEN D25 Drainage Layer*	5.0 kg/m ²	25 mm
Extensive Growing Medium*	60-80 kg/m ²	70-100 mm
Sedum Mat	25 kg/m ²	n/a

* Saturated Weight

System Designs

Protan recommends a flat roof have a minimum fall of 1:60 which is recognised as good roofing practice and will maximize longevity.

Suitability of Protan Green Roof Systems are subject to inspection and wind calculations carried out by Protan (UK) Ltd. A structural engineer must be consulted to access the load bearing capacity of the roof and building structure.



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Installation

The waterproofing membrane layer must be installed by Protan approved applicators who have received special training and are regularly updated with information about the system.

A 300mm gravel edge boarder must be installed on all extensive roof systems.

The design and layout of the waterproofing system are the responsibility of Protan technical services. All installed roofing membranes must be inspected by a Protan Technical manager during installation.

A leak test must be performed prior to the green roof layers being installed.

The planted element and other layers above the membrane of the system must be installed by a partner green roof contractor who has expertise in the installation and upkeep of a healthy, functional green roofing system.

Environment

The PROGREEN Extensive green roof system delivers a range of environmental benefits, which include:

- Thermal benefits
- Water retention
- Waterproofing membrane protection

For more information on the benefits of green roofs please see the PROGREEN literature.

Maintenance & Inspection

We recommend that the roof area be inspected, in spring and autumn, for evidence of damage, cleaning of gutters and ensuring outlets are clear and free flowing, maintenance regime of the for the upkeep of the planted element.

References

For further technical information please refer to:

- BBA Certificate 00/3755
- Protan PROGREEN Membrane Datasheet
- Protan PROGREEN D25 Drainage Layer Datasheet
- Protan PROGREEN Planting Options Datasheet
- Protan F300M Protective Fleece Datasheet

For further information please contact Protan (UK) Limited.