



Green Roofs

A guide to the design and specification of ABG Geosynthetics green roof systems

abg creative geosynthetic engineering

Biodiverse Roofs

A roof which is commonly used where the vegetation is intended to replace or replicate the existing site habitat. With an increasing number of developments being undertaken on brownfield land the use of biodiverse roofs can partly mitigate the loss of habitat on development sites.

This type of roof may be seeded like both the intensive and extensive varieties or can be allowed to self-colonise; however, seeding increases the biodiversity potential of the roof in the short term. Biodiverse roofs often include areas of logs and rocks to try and create habitat to suit colonisation by as broad a band of species as possible, because of this they are referred to as 'brown' or 'rubble' roofs.

Maintenance is similar to that of an extensive green roof, minimal maintenance is required. Aggregate and vegetation choice determined by the biodiversity objective the client would like to achieve.

Roofdrain

Forms a lightweight high performance drainage layer with integrated filter geotextile. Using Roofdrain allows for the collection and storage of water to mitigate the plants during low rainfall periods while providing a continuous drainage layer across the roof structure.

Engineered Growing Media

ABG plant free media derived from sustainable, recycled, UK sourced material. Using a specifically developed growing media can help provide the right growing environment for the selected vegetation and also reduce the load on the roof.

Vegetation/surfacing

Specifically selected to suit the local flora requirements of the client/user incorporating rocks and log outcrop areas to create additional habitat for biodiversity.

ABG Slimline Membrane

High performance non-woven polyethylene barrier that resists the passage of water but is vapour permeable.

Insulation

Selected to meet thermal requirements of the roof structure.

Waterproofing

Waterproofing implemented according to project requirements and roof type.

Roof Deck

Roof deck specified to meet project requirements.

