

Bauder Extensive Substrate System

0 DEGREE - TOTALLY FLAT ROOF

Developed in Germany over 25 years ago, this is a lightweight, green option predominantly used for aesthetic and ecological purposes, and increasingly, where planners or developers wish to utilise the benefits of a green roof system for the environment, the masking of the building and water attenuation. Extensive greening involves the cultivation of vegetation that is wind, frost and drought resistant and requires low level maintenance such as an annual or biannual checks and action to deal with problem areas when identified during these inspections.



Vegetation will generally be provided through Plug Planting or Hydroplanting. Selected species can be chosen to suit the project and location.

Bauder Extensive Substrate is a lightweight growing material that is manufactured and used in accordance to FLL guidelines.

Bauder Filter Fleece is a filtration layer that prevents substrate fines from washing into the drainage layer.

Bauder Reservoir Board is a lightweight, water storage and drainage layer made of expanded polystyrene, either 50mm or 75mm thick.

Bauder FSM1100 Protection Mat is a polyester and polypropylene fiber mix.

Bauder PE Foil Separation Layer is a polyethylene foil separation and slip layer manufactured from recycled granules.

Installation of the vegetation can take place in two ways. Hydroplanting involves taking seeds, plant seedlings and cuttings, together with necessary fertilisers and mulch, and combining them with 100% biodegradable coagulant binding agent which is then sprayed onto the prepared roof. Plug Planting is used when a client wishes to choose the particular type and species of the vegetation, they are then hand planted to a density specified by the client.

When to Specify

This system should be utilised where instant greening is not a priority and the development of the vegetation can take place over time, sometimes up to two years. The system is suitable to use on both new build and refurbishment projects, and offers the opportunity to replace the natural environment displaced by the footprint of the building.