

TECHNICAL SYSTEM SUMMARY

EXTENSIVE SUBSTRATE SYSTEM

GREEN ROOF SOLUTION

An extensive substrate system requires a greater depth of growing medium providing an extended choice of suitable plants for the client. It can also provide a cost effective solution for larger roofs. Manually planting sedum or plants grown in plug format into the substrate gives the client a greater choice of plant species and the opportunity to plan the layout. A comprehensive range of guarantees are available for this system.

Vegetation will generally be provided through plug planting, vegetation mat or seeding. Selected species can be chosen to suit the project and location.

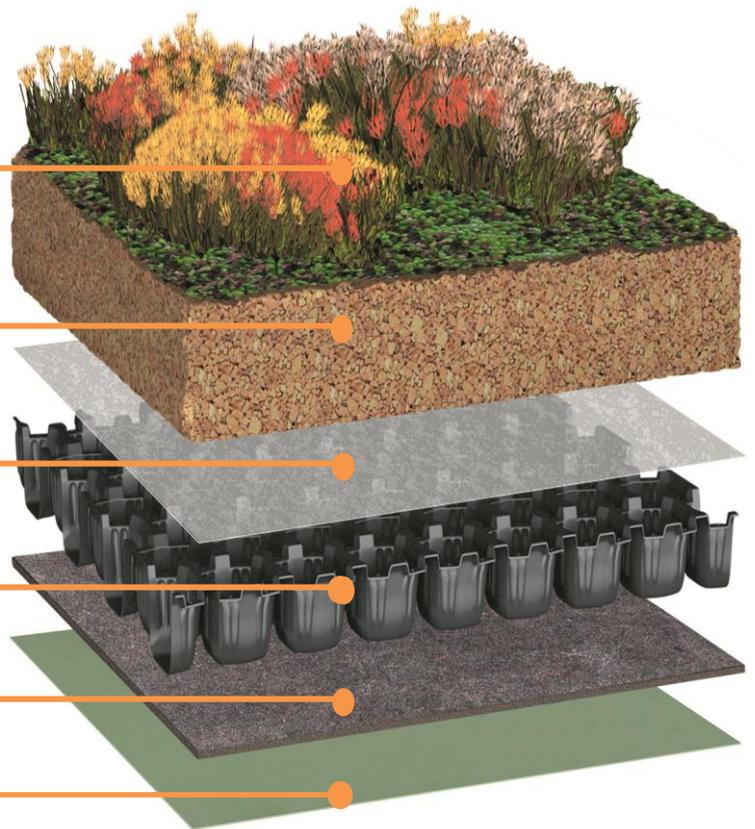
Bauder Extensive Substrate is a lightweight growing material that is manufactured to meet FLL guidelines.

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

DSE 40 is a lightweight water storage and drainage layer made of HDPE, 40mm thick.

Bauder FSM600 Protection Mat is a polyester and polypropylene fibre mix.

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



When to Specify

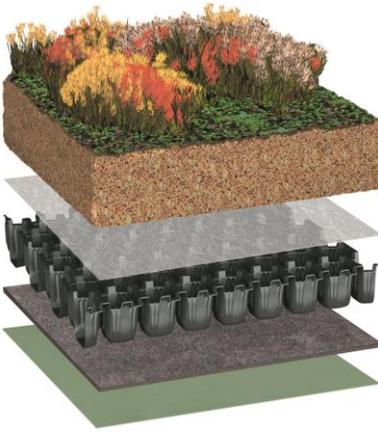
If an immediate vegetated finish upon completion of construction is required the use of a vegetation mat is the best practical solution. It should be noted that extensive green roof systems are not intended for general access or leisure purposes and are primarily used for their ecological benefits or aesthetic appearance.

Waterproofing Options

There are different waterproofing systems available to suit the individual project criteria for the green roof, its landscaping options, weight loading limits, performance and durability requirements. Please contact us so that a technical advisor can take you through the system best suited to your project.

Weight Loading

Based on 100mm substrate depth and 0-5° pitch



Product	Thickness (mm)	Saturated Weight (Kg/m ²)
Vegetation * Wildflower Blanket	25.0	42.0
Bauder Extensive Substrate	100.0	120.0
Bauder Filter Fleece	1.0	0.125
DSE40 Drainage Layer	40.0	15.3
Bauder FSM600 Protection Mat	4.0	0.6
Bauder PE Foil Separation Layer	0.2	0.190
Totals	170.20	178.215

* Example vegetation mat used, wildflower blanket, to give an example of system weight loadings.