

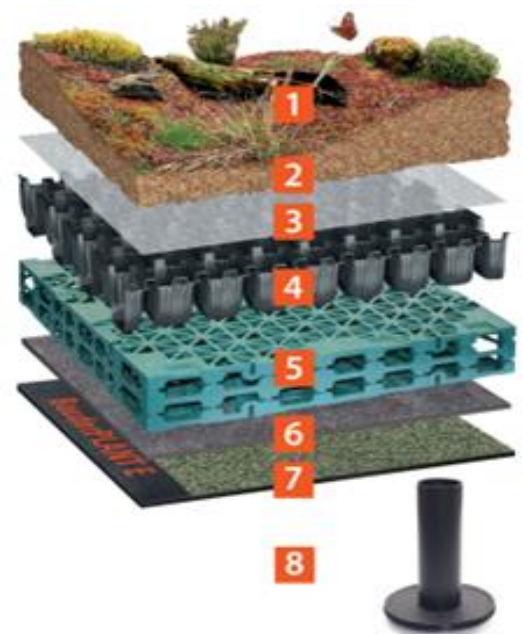
Blue Roof Biodiverse System

BauderBLUE STORMcell biodiverse green roof

The BauderBLUE STORMcell biodiverse blue roof system offers a native green roof above a blue roof. The biodiverse (or brown roof) is designed to incorporate many habitats. The roof is typically sown and/or plug planted with a broad range of plant species with additional habitat features such as dead wood, stone/sand piles and dew ponds. The Biodiverse roof sits above the Bauder STORMcell blue roof system.

	Function	Product name	Thickness (mm)	Weight (kg/m ²)
1	Vegetation Layer	Typically Bauder's range of native, seed and plug mixes are used in combination with other habitat features.	Thickness and weight vary with season	
2	Substrate	SUB-BM UK biodiverse substrate	Varies typically 80-150	120-180
3	Filtration layer	FV 300 filter fleece	1	0.13
4	Drainage Layer	DSE 40 drainage board	40	15.3 (water filled)
5	Attenuation	RWR 100 attenuation cell	100	8.06
6	Protection Layer	FSM 600 protection mat	6	3.6
7	Underlying Waterproofing	Bauder's underlying waterproofing system	Not included	Not included
8	Flow Restrictor	ST flow restrictor and overflow	N/A	N/A
System build-up (saturated) Fully saturated excluding the water held in the RWR 100 blue roof attenuation cell during a rain event and the underlying waterproofing			227-297	148-208
In-depth and up-to-date product specific technical data is available for each element within a system. Download from our website bauder.co.uk/technical-centre				
Please note: Blue roof require careful design, the underlying deck must be designed to zero falls with no back falls away from outlets as per BS6229				
Please note: All green roofs require water during times of drought. Bauder recommend that the watering and maintenance of this roof is considered and addressed during its design.				

Indicative biodiverse blue roof system



System summary



Characteristics of the system

- Primarily used when Biodiversity and habitat creation are the primary goals, such as for BREEAM or to comply with a local planning requirement.
- Provides an effective SuDS solution with high water holding capacity (over 95 l/m²) per layer of RWR 100. Up to three layers of RWR can be used.
- Additional safety feature such as integrated overflows and tell-tale outlets to protect the roof integrity.
- Fully integrated system that enables a single source for all waterproofing and green roof products
- The BauderBLUE system can be used with other Bauder systems such as BioSOLAR and green roof products.
- Bauder RWR 100 attenuation cells and DSE 40 drainage board are made from 100% recycled plastic.
- System can be laid on the following Bauder waterproofing solutions: Bituminous Membrane, Hot Melt systems.
- Comprehensive system guarantee packages including waterproofing and blue roof performance to meet project requirements. Bauder's "Green Roof Promise" is available for this system.

Accreditations and approvals



OPTIONS AVAILABLE

Bauder supply detailed hard and soft landscaping solutions for blue roofs, see other system summaries on our website: <https://www.bauder.co.uk/technical-centre/system-summaries/blue-roof-systems>

In-depth and up-to-date product specific technical data is available for each component within a system. Download from our website [bauder.co.uk/technical-centre](https://www.bauder.co.uk/technical-centre)

System fire performance

The system arrangements tested or classified without further testing that achieve standards for fire performance are defined and verified in the relevant BBA certificate. When using an Extensive green roof system compliance to Broof(t4) is met by either Bauder system testing or the guidance in the relevant BBA certificate and the DCLG document "Fire Performance of Green Roofs and Walls" (2013).

Bauder continually tests its systems for fire performance and so if the permutation of products you are specifying is not stated in our latest BBA certificate please contact technical@bauder.co.uk for clarification.