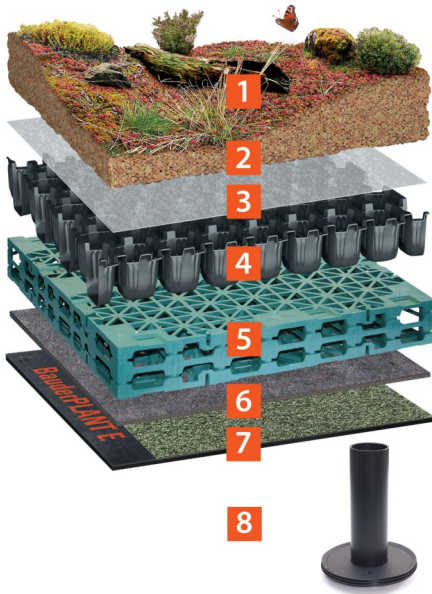


**SYSTEM SUMMARY**

**BauderBLUE STORMcell Biodiverse Green Roof**

**Biodiverse Green Roof over Blue Roof System**

This specific type of biodiverse (or brown roof) is designed to incorporate as many types of habitat as possible giving a home and food source to invertebrates and pollinators which in turn are food for many birds and bat species. The roof is typically sown or plug planted with a broad range of plant species. Additional habitat features such as dead wood, stone/sand piles and dew ponds can also be incorporated into the design.



Product	Description	Thickness	Saturated weight
1 Vegetation *	Typically Bauder's range of native seed and plug mixes are used in combination with other habitat features.	Thickness and weight varies with season	
2 SUB-BM UK biodiverse substrate	Bauder's SUB-BM UK is a lightweight growing medium. Tested to BS 8616 and designed to meet GRO and FLL guidelines, these are usually contoured.	Varies typically 100-150mm	120-180 Kg/m <sup>2</sup>
3 SV 125 100 filter fleece	Filtration layer that prevents substrate fines from washing into the drainage and water storage layer.	1mm	0.13Kg/m <sup>2</sup>
4 DSE 40 drainage layer	DSE 40 is a 40mm drainage board, holding 13.5 ltr/m <sup>2</sup> . The light weight board is made from 100% Recycled HDPE.	40mm	15.3Kg/m <sup>2</sup> (water filled)
5 RWR 100 blue roof attenuation cell	A high strength void element which is 95%+ void (holding 95 litres per m <sup>2</sup> ).	100mm	8.06Kg/m <sup>2</sup>
6 FSM 600 protection layer	Polyester and polypropylene fibre mix protection layer to prevent mechanical damage to the underlying waterproofing.	4mm	3.6Kg/m <sup>2</sup>
7 Bauder's underlying waterproofing system	Bauder's BTGRS & BTGRS PLUS Bituminous Membrane or Bauder Hot Melt bituminous waterproofing system.	N/A	N/A
8 ST-B or ST-HM flow restrictor	A combined restrictor plate and overflow, enabling discharge flow rates to be matched to SUDS requirements.	N/A	N/A
<b>Blue &amp; Green Roof Build up (fully saturated excluding the water held in the RWR 100 blue roof attenuation cell during a rain event and the underlying waterproofing)</b>		<b>245-295 mm</b>	<b>147-207 Kg/m<sup>2</sup></b>

**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.

**Where to specify:**

Primarily used when Biodiversity and habitat creation are the primary goals, such as for BREEAM or to comply with a local planning requirement.

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\*Bauder also produce a biodiverse wildflower blanket solution