

Blue Roof Intensive Landscaping

BauderBLUE STORMcell Intensive Landscape system

The BauderBlue STORMcell intensive landscape system enables full landscapes to be created above the blue roof and waterproofing components. For soft landscapes Bauder’s SUB-IM UK intensive substrate mimics the characteristics of a non-compacting free draining soil allowing numerous landscape variations of lawns, shrubs and trees. The system also enables walkways, paving and terraced areas to be built.



	Function	Product name	Thickness (mm)	Weight (kg/m ²)
1	Vegetation	Specifically selected for each individual roof, from fine lawns to woody shrubs and trees.	Thickness and weight will vary with chosen planting	
2	Growing medium	BauderGREEN SUB-IM UK Intensive substrate	200+	250+
3	Filtration layer	FV 125 filter fleece	20	0.6
4	Drainage Layer	DSE 40 drainage board	40	15.3
5	Attenuation Layer	RWR 100 attenuation layer	100	8.06
6	Protection Layer	FSM 1100 protection mat	8	7.1
7	Slip Separation Layer	PE 02 Foil x 2	0.4	0.38
8	Underlying Waterproofing	Bauder’s underlying waterproofing system	Not included	Not included
9	ST-B or ST-HM flow restrictor	A combined restrictor plate and overflow, enabling discharge flow rates to be altered for SUDS requirements.	Not included	Not include
System build-up (saturated)			368+	281+

Indicative Intensive blue roof system



*Bauder supply various green roof systems.

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

Note: Bauder Blue roof systems require bespoke flow rate calculations please contact Bauder’s technical department.

Characteristics of the system

- A Fully integrated system that enables a single source for all waterproofing and green roof products.
- The landscaping system can be used with other Bauder systems such as BioSOLAR and Blue Roof products.
- The SUB-IM UK Intensive substrate is a lightweight growing medium for roof gardens and landscapes and tested to BS8616 (Normally substrate depths should be 200mm+ to give greater rooting depth).
- DSE 40 is a lightweight water storage and drainage layer made of 100% recycled HDPE.
- FSM 1100 is 100% recycled polyester and polypropylene fibre mix protection layer to prevent mechanical damage to the underlying waterproofing.
- System can be laid on the following Bauder waterproofing solutions: Bituminous Membrane, Hot Melt systems.
- Comprehensive system guarantee packages to meet project requirements.

Accreditations and approvals



Design note: The roof deck should be as flat as possible. A zero falls roof is defined in BS6229 as having a fall of between 0 to 1:80, and that backfalls should be avoided. A blue roof should be designed flat which will maximise the volume of water stored and spread that load evenly over the roof area.

OPTIONS AVAILABLE

Bauder supply detailed hard and soft landscaping solutions, 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 Intensive green roof system compliance for external fire to Broof(t4) is met if adhering to guidance in 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.