

## TECHNICAL DATA SHEET

### Bauder Xero Flor XF300 Sedum Blanket

#### DESCRIPTION

Bauder Xero Flor XF300 vegetation blanket is a sedum blanket product developed as an extensive green roof finish that provides instant pre-cultivated vegetation. XF300 is intended for application directly over Bauder Extensive Substrate as the underlying growing medium.

XF300 incorporates a patented polypropylene substrate retention mesh bonded to a water permeable base carrier.



The advantage is that this ensures that the blanket substrate doesn't compact over time and this helps to maintain the vegetation in optimum condition. The vegetation within this product is a mix of hardy sedum species together with some grasses and moss.

#### TECHNICAL DATA:

##### Composition

Mineral component	mix incorporating recycled crushed and graded brick with expanded clay shale.
Organic component	composted pine bark

##### Technical Performance

pH value	6.5 – 7
Vegetation support layer	geo-textile carrier filter layer with bonded UV resistant nylon loop mesh.

##### Weights and sizes

Standard roll width	1 m
Standard roll length	2 m
Non-standard lengths	3m to 10m - cut only in increments of 1m. Installation requires a crane (A Bauder supplied crane attachment required).
Thickness:	ca. 28mm (excluding vegetation)
Saturated weight:	34Kg/m <sup>2</sup>

##### Supply Form

Rolls of blanket to specified lengths (as above)

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## ORDERING AND DELIVERY INFORMATION

- Deliveries of the Bauder XF300 Sedum Blanket are made from Tuesday to Friday.
- In exceptional weather we are unable to harvest the product for delivery until conditions improve. We are only able to advise the day before delivery if such a problem occurs.
- Order no more blanket to be delivered to site than can be installed within 24 hours of delivery.
- Should the blanket be considered faulty it is imperative that the Bauder sales office is informed on the day of delivery.
- If, for any reason, it is not possible to install the blanket on the day of delivery, the product should be rolled out on a flat, level surface, lightly watered and left out overnight before re-rolling for use early the following morning.

## INSTALLATION INSTRUCTIONS – 2 X 1M ROLLS

- Level the substrate ready to receive the blanket and water to the point of saturation. If large areas are to be installed then watering and installation should be done in sections of as much area as can be completed within four hours.
- Always use full width (1m) rolls at all perimeters and avoid any short or thin strips that are otherwise prone to wind uplift. Mark out on the substrate the length and width of rolls to be installed. It is important to ensure that the roll widths and lengths to the roof perimeter are at least 1m in each direction. Any cut widths or lengths required are to be made in the field area, with the cut being made opposite to the selvedge to maintain continuity during installation.
- Working from the bottom left hand corner of the roof and taking care not to stand on the vegetated surface, unroll the blanket and press down firmly onto the substrate, unfolding the selvedge to lay flat on the substrate, ensure the blanket is tightly butted up against any retention trim or kerb. If any voids are apparent under the blanket then it is to be lifted up, the void filled with substrate and the blanket re-bedded.
- Continue on up the slope with the next roll, taking care to ensure that the junction between the two rolls is tightly butted.
- In order to keep all joints correctly spaced and well-made it is recommended that no more than three rolls should be installed before adjacent rolls are added to the installation.
- When the first row of blankets are installed and the selvedges unfolded, the contractor is to use a short piece of 50 x 50mm or similar softwood timber to run up and down the selvedge, lightly pressing up against the substrate and vegetation adjacent to remove all surplus material and leave a clean edge to butt the next blanket up to. The surplus substrate and vegetation is to be collected and set aside for future use.

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- Commence the next row of blankets with a ½ roll, to create a staggered brick-bond laying pattern with the row previously installed.
- Upon completion of the area, the previously collected surplus substrate is to be used to dress into and make good any joints where the blanket edges are not tightly butted. The surplus vegetation is then to be dressed onto the substrate and pressed firmly into the surface. A small amount of substrate is also supplied with each blanket delivery for this purpose.
- At abutments and penetrations the blanket may be cut using a sharp knife and straight edge. It is generally easier to cut up through the carrier on the underside of the blanket than to cut through the vegetation and substrate into the carrier.
- If it is required that the vegetation barrier secures the blanket edges against wind uplift, the blanket is to be dressed down the depth of substrate and 100mm across the drainage board prior to the installation of the ballast to form the vegetation barrier.
- On some roofs the specification will call for the use of timber pegs to secure the blanket against slippage and wind uplift. The pegs should be no more in length than 20mm less than the combined thickness of the substrate, drainage board and sedum blanket, which should be confirmed in the specification. Pegs are to be installed no closer than 200mm to the top or side lap of any blanket and are to be pushed into the installation so that the head of the peg is flush with the top of the blanket substrate.
- Upon the completion of an area installed over a maximum 4 hour period the installation is to be heavily watered to ensure that the blanket and substrate are saturated before moving on to the next area.
- Upon completion of the installation apply Bauder organic slow release fertilizer at a rate of 80g/m<sup>2</sup> and water in.
- Care is to be taken to avoid the blanket being walked or stood upon unnecessarily or trafficked by other trades during and after the installation, as this will have an adverse effect on the vegetation.

## INSTALLATION OF LONG ROLLS

- The Bauder XF300 blanket can be supplied in long rolls in 1m increments from 3m to 10m.
- It is the contractor's responsibility to ensure that adequate unloading facilities and storage space on site will be available before the product is ordered.
- It is the contractor's responsibility to ensure that the appropriate crane with sufficient reach, load capacity and the Bauder crane attachment are present on site at the time of delivery.

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- In addition to the crane driver, a workforce of 3 or 4 is required to carry out the installation efficiently. One of the operatives on the roof will need to give directions to the crane driver.
- If you have not previously carried out a Bauder long roll installation, please ensure that the Bauder Site Technician responsible for the project is informed at least 2 weeks before installation is due to commence, to ensure that the correct level of site support is provided.
- The general principals of installation for long rolls are the same as for 2 x 1m rolls, with the exception that the roll ends must be staggered a minimum 1m in length instead of ½ roll, to ensure staggered joints.

## ESTABLISHMENT WATERING AND MAINTENANCE

- After completion of the installation it will be necessary to keep both substrate and vegetation blanket damp for a period of at least four weeks immediately afterwards. It may be necessary to irrigate for longer should the installation be followed by a prolonged warm, dry period of weather. Watering should be proactively carried out during this period as required, but only if the substrate/blanket begin to dry out.
- To encourage the plants to survive without topical irrigation and harden them ready to survive the winter it is important to start cutting back watering from early September.
- Please do not over-water! It is equally important to ensure that the green roof substrate does not become totally saturated by either excessive watering through periods of cool, wet weather. Further information on watering requirements for this product is available to view or download from the Bauder web site [www.bauder.co.uk](http://www.bauder.co.uk). Log in and visit our Technical Centre and review the document "**Watering Requirement Guidelines for Extensive and Bio-diverse Green Roof installations**"
- The maintenance requirement in the years following installation will depend upon the weather experienced through the winter and early spring of each year and should follow our standard **Extensive Green Roof system Maintenance** guidelines, also downloadable from our web site's Technical Centre.

## SUPPORT

- Modern extensive and bio-diverse green roof installations will normally require only minimal maintenance. Bauder is happy to offer advice on any issues concerning your green roof and enquiries should be forwarded to our Green Roof Technical Department at the address below.
- We believe our products and systems are of the highest standard and are always prepared to discuss any queries or concerns that may arise. Providing photographs or drawings to accompany your queries will help speed our response.

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*Please note: In the event of any query arising which it is thought may affect the condition of the system, then Bauder Ltd should be contacted at the address below. We cannot accept responsibility for any problem or failure due to use outside those parameters for which the system was designed or 'acts of god' beyond our control e.g. extreme weather conditions or damage through pests.*

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