

PRODUCT DATASHEET

Bauder BioSolar Solar PV Mounting System






Bauder BioSOLAR is an integrated solar PV mounting system specifically for Bauder biodiverse or extensive green roofs.

Intended Use

Bauder BioSOLAR is designed for applications where both a green roof and solar PV solution are required to meet planning and/or BREEAM requirements. The green roof substrate and vegetation provide the ballast mechanism for the entire solution which removes the need for penetrating the waterproofing to secure the units to the roof and maximises the available area for the plants.

Bauder Biosolar should be used in conjunction with our BauderFlora 3 seedmix which contains both drought and shade tolerant herb and wildflower species and is suitable for roofs with a fall of up to 3°.







No.	Sketch	Name	Description
1		Anchor Board 2m x 1m	Profiled substructure for containing substrate and mounting BioSolar angle bracket
2		Quick fix Angle Bracket 164cm x 5cm x 5cm	Aluminium angle bracket for mounting module rail
3		Module Carrier Rail 6m x 4.5cm x 4.5cm	Aluminium profiled rail for mounting framed modules
		Screw M8 x 55A2	55mm fixing screw for Quick-Fix angle bracket. 6mm Hex bit required
		Screw M8 x 20 A2	20mm fixing screw for module rail to angle bracket. TX40 bit required

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	Middle Clamp	Clamp for fixing modules within the row
	End Clamp	Clamp for fixing modules at the end of the row
	Sealing Cap	Plastic cap to protect cut ends of module carrier rail
	Profile Connector	Aluminium profile to connect lengths of module rail over 6m in length

PRODUCT INFORMATION AND TECHNICAL PERFORMANCE

Characteristic	Test method	Unit	Value
Weight	DIN EN 1848-1	Kg/m ²	156kg/m ² *

*Includes weight of saturated Biodiverse green roof based on substrate depth of 130mm

CERTIFICATION AND ENVIRONMENTAL INFORMATION

International Standards Organisation (ISO)	ISO 9001:2015 Quality Management Certificates EN1271 (UK) and 70499/03-15_e (Germany). ISO 14001:2015 Environmental Management Certificates A10552 (UK) and 70499/03-15_d (Germany). ISO 50001: 2011 Energy Management Certificate 70499/03-15_c
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INSTALLATION GUIDANCE

Bauder Biosolar is designed to be installed by a Bauder approved and trained contractor only. Please see Bauder Biosolar installation guidelines for a full breakdown of the system installation methodology.

The number of mounts and fixings required will vary from project to project. Please contact Bauder for a project specific technical report for further information. Windload and snowload calculations will also be provided on a project specific basis and will determine ballast requirements and substrate depths.

Bauder Biosolar can be installed on slopes of up to 3° and is intended to be used with Bauder Biodiverse and substrate based extensive green roofs only.

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