

## PRODUCT DATA SHEET

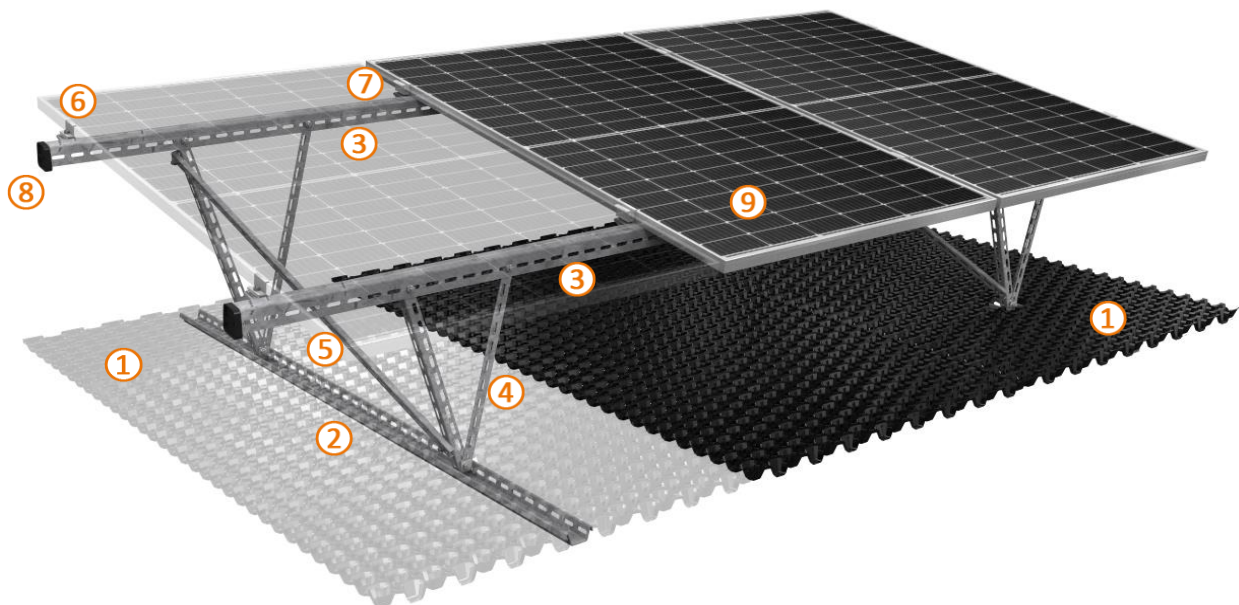
### Bauder BioSolar G2 Solar PV Mounting System

Bauder BioSOLAR G2 is an integrated solar PV mounting system specifically for Bauder biodiverse or extensive green roofs.

#### Intended Use

Bauder BioSOLAR G2 is designed for applications where both a green roof and solar PV solution are required together to meet project requirements. The green roof substrate and vegetation provide the ballast mechanism for the entire solution which removes the need for additional ballast or penetrating the waterproofing to secure the units to the roof and maximises the available area for vegetation.

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 5°.



	Part	Unit	Value
<b>1</b>	<b>DSE 40 Anchor Board</b>		Pre-cored Bauder DSE 40 Drainage Board
	Material		HDPE, black
	Weight (dry)	kg/m <sup>2</sup>	1.8
	Material nominal thickness	mm	1.8
	Depth	mm	40
	Water storage capacity	l/m <sup>2</sup>	13.5
	Filling capacity (for mineral drain etc)	l/m <sup>2</sup>	21.0
	Support surface underside	%	42
	Compressive strength	Kpa	80
	Dimensions	mm	1040 x 2030
	Ballast	kg/m <sup>2</sup>	BS EN 1991 Eurocode 1 + BS EN 1991-1-1/ related load calculation for wind protection

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	Part	Unit	Value
	<b>Profile rails</b>		
<b>2</b>	<b>Base rail</b>		
	Material		Powder coated steel - FVZS420GD+ZM310AC (Zinc Magnesium)
	Dimensions (L x W x H)	mm	3994 (long) or 1994 (short) x 36 x 72.2; Thickness 3
	Weight	kg/unit	13.06/6.52
<b>3</b>	<b>Module carrier rail</b>		
	Material		Powder coated steel - FVZS420GD+ZM310AC (Zinc Magnesium)
	Weight	kg/unit	15.59
	Dimensions (L x W x H)	mm	6194 x 61.9 x 47.5; Thickness 3
<b>4</b>	<b>V-beams</b>		
	Material		L- Profiles: Powder coated steel FVZS250GD+ZM310AC (Zinc-Magnesium), including Adapter + Screw
	Dimensions (Pre-assembled L x W x H)		Long v-beam - 749 x 399 x 54 Short v-beam - 550 x 343 x 54 Thickness 2
	Weight	kg	Long -1.50 Short - 1.15
<b>5</b>	<b>Diagonal profile</b>		
	Material		Powder coated steel - S250GD+ Z275 (Zinc)
	Dimensions (L x W x H)		1245 x 30 x 15; Thickness 1.5
	Weight	kg	0.952
	<b>Accessories</b>		
<b>6 &amp; 7</b>	<b>Module Clamp Set</b>	Piece	Module clamping hooks with thread (zinco-magnesium coating) pre-assembled
<b>8</b>	<b>Module carrier rail end cap</b>	Piece	Polypropylene

PRODUCT INFORMATION AND TECHNICAL PERFORMANCE			
Characteristic	Test method	Unit	Value
Weight	EN 1848-1	Kg/m <sup>2</sup>	176kg/m <sup>2</sup> *

\*Includes weight of Bauder BTRS roof system with 160mm PIR insulation and saturated Biodiverse green roof based on a substrate depth of 100mm

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**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 (Germany)

**INSTALLATION GUIDANCE**

Bauder Biosolar G2 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 G2 can be installed on slopes of up to 5° and is intended to be used with Bauder Biodiverse and substrate based extensive green roofs only.

Bauder reserves the right to amend information and product specifications without prior notice. All reasonable care has been taken to ensure that all data is current at the time of print, however because Bauder pursues a policy of constant development we recommend ensuring that your copy of this information is current by contacting our Technical Department at [technical@bauder.co.uk](mailto:technical@bauder.co.uk)

Recommendations for use should be verified as to the suitability and compliance with actual requirements, specifications, installation techniques and any applicable laws and regulations.

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