

PRODUCT DETAILS

Product name **Pro-Living® Bio-Solar Drainage Board**

Product type Bio-Solar Green roof component

PRODUCT DESCRIPTION

Pro-Living® Bio-Solar Drainage Board is a cusped moisture and flow retention layer for extensive or bio-diverse roofs with integrated bio-solar PV mounting. It is made from deep-drawn recycled HDPE with water reservoir function, a channel system on the underside for drainage, and diffusion and drainage holes.

APPLICATION

Pro-Living® Bio-Solar Drainage Board is suitable for use on extensive and bio-diverse roofs with the following waterproofing membranes

- Cold Melt®
- Proteus Hot Melt®
- Pro-BW® Plus
- Pro-BW® LO
- Proteus Pro-Felt® Ultima Plus Anti-Root Capsheet

INSTALLATION

Pro-Living® Bio-Solar Drainage Boards are laid with the large naps facing upwards, above the **Pro-Living® Bio-Solar mount**, slotting the support bars through the holes in the drainage board.

Ensure that the longer side of the drainage board runs parallel with the longer side of the bio-solar mount base plate, this creates stability for the overall structure.

To achieve the correct spacing between the **Pro-Living® Bio-Solar Mount** base plates, smaller drainage boards are available which can be laid in between.

Contact Proteus to discuss site specific installation plans.

TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Max compressive strength unfilled	~200	kN/m ²	EN ISO 25619-2
Max compressive strength unfilled with 10% compression	~90	kN/m ²	EN ISO 25619-2
Max compressive strength filled with 10% compression and 35mm overfilling	175	kN/m ²	-
Water discharge capacity 1% gradient	0.99	L/(m · s)	EN ISO 12958
Water discharge capacity 2% gradient	1.41	L/(m · s)	EN ISO 12958
Water discharge capacity 5% gradient	2.20	L/(m · s)	EN ISO 12958
Filling volume small naps facing up	14.5	L	-
Filling volume large naps facing up	7.5	L	-

Characteristic	Value	Unit	Standard
Water reservoir unfilled small naps facing up	3.6	L	-
Water reservoir unfilled large naps facing up	5.0	L	-
Mass per area	1.35	kg/m ²	-

SIZE, FINISH AND COLOUR

Length m	Width m	Thickness mm	Weight kg	Colour
2	1	25	2.7	Black
2	0.5	25	1.35	Black

HANDLING

Always use relevant safe manual handling techniques relevant to a products size and weight.

MATERIAL

Recycled HDPE.

PACKAGING

A total of **700 m²** packed on a pallet **2.05m x 1.05m**.

Pallet weight **970 kg**.

LIMITATIONS OF USE

For professional use only.

DISPOSAL

Regulation (EU) No 1357/2014 of 18 December 2014 on waste as retained and amended in UK law.

Disposal of **Pro-Living® Bio-Solar Drainage Boards** should be done in a manner that is compliant with UK regulations and best practices. Dispose of contents/container to an approved waste disposal plant. This includes ensuring that the material is properly classified and described, that it is not mixed with hazardous waste, and that it is disposed of in a manner that is environmentally responsible. Packaging containing residues of the product must be disposed of similarly to the product.

GUARANTEES

Defects arising from lack of maintenance or abnormal use may fall outside of the cover of the Proteus Waterproofing guarantee.

MAINTENANCE

For information on maintaining our roofing systems please refer to our [Maintenance Guide](#).

GUIDELINES AND STANDARDS

It is the responsibility of the Contractor to thoroughly familiarise themselves with all relevant Codes of Practice and Building Regulations to the works or referred in the specification.

Proteus Waterproofing take no responsibility for misinterpretation or lack of knowledge for third parties.

The works shall be carried out in accordance with the requirements of:

- **BS 6229** Flat roofs with continuously supported flexible waterproof coverings - Code of practice
- **BS 8217** Reinforced bitumen membranes for roofing - Code of practice
- **BS 8000-0** Workmanship on construction sites - Introduction and general principles
- **BS 8000-4** Workmanship on building sites - Code of practice for waterproofing
- **LRWA** [Design Guide for Specifiers](#)
- **S2T** [Safe to Torch](#)
- **GRO** [Code of Best Practice](#)