PRO-DECK BOARD A1

PRODUCT DATASHEET | V1 | MARCH 2026

PRODUCT DETAILS

Product name **Pro-Deck Board A1**

Product type Non-combustible structural deck board

PRODUCT DESCRIPTION

Pro-Deck Board A1 is a structural roofing deck for flat and pitched roofs up to 70° pitch in domestic and non-domestic buildings.

Pro-Deck Board A1 is a magnesium oxysulfate (MOS) formulation that exhibits better moisture stability than traditional magnesium oxychloride (MgO) boards.

APPLICATION

Pro-Deck Board A1 can be used as a structural deck board, mechanically fixed directly on to the roof timbers to provide a non-combustible substrate for the following systems to be applied to:

- Proteus Hot Melt®
- Cold Melt®
- Proteus Pro-Therm insulation
- Pro-BW® Plus
- Pro-BW® LO
- Proteus Pro-Cold®
- Proteus Pro-Felt®

INSTALLATION

Preparation

- **Pro-Deck Board A1** can be cut on site using tools such as a skill saw, hand saw or utility knife
- The substrate must be clean, level and free of debris prior to installation
- The moisture content of the boards must be checked prior to installation and must be less than 16%

Please note, It is the responsibility of the principal designer to confirm that the selected thickness and fixing pattern is adequate for the specific project loading conditions, including (but not limited to) snow loading, wind uplift, dead loads from waterproofing systems, and any additional superimposed loads from green/blue roofs, photovoltaic panels, paving slabs, ballast or other roof-top features. Structural design must be carried out in accordance with Eurocode 5 (BS EN 1995-1-1). Proteus accepts no liability for the structural performance of the deck; suitability must be verified by the customer or their structural engineer prior to installation.

Installation

- **Pro-Deck Board A1** should be laid in a brick-bond fashion, staggering the joints between rows to ensure that the corners of the boards do not align
- The boards should be fixed to the structural support timbers using mechanical fixings. The length of fixings should conform to national regulations and consideration should be given to specific project loading conditions
- The fixings should be placed 50mm from the boards top edge and 15mm from the side edge
- Default perimeter fixings should be at 300mm spacings, with 600mm spacings to the centre of the board. Consult bespoke fixing schedule tailored to site conditions (e.g. wind load)
- Ensure that all fixings are flush with the surface. Impact drivers must not be used
- Keep the boards dry and prevent contact with water and moisture ingress

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Waterproofing (night seal)

- All areas of the protection boards installed MUST be encapsulated/overlaid with **Pro-Vapour Control/Carrier Membrane SA** adhered with **Pro-Prime® SA** prior to the primary waterproofing specified
- Complex detailing such as pipe penetrations, skylight curbs etc should be applied with the specified waterproofing to achieve a night seal

TECHNICAL INFORMATION

Characteristic	Value	Unit	Standard
Thermal conductivity	0.19	W/mK	-
Vapour resistance	0.31	MNs/g	EN ISO 12572
Melting Point	2400	°C	-
Max. load at L/250 limit 18mm	3.19	kPa	-
Max. load at L/250 limit 20mm	4.15	kPa	-
Reaction to Fire	A1	-	BS EN 13501-1
External fire spread	$B_{ROOF}T4$	-	BS EN 13501-5
Acoustic 20mm	31	dB_{RW}	EN ISO 717-1:2013
Punching shear resistance 18mm	2.21	N/mm²	BS EN 1195: 1998
Punching shear resistance 20mm	2.29	N/mm²	BS EN 1195: 1998
Stiffness 18mm	0.64	N/mm	BS EN 1195: 1998
Stiffness 20mm	0.72	N/mm	BS EN 1195: 1998
Impact resistance	Class 1	-	BS EN 12871: 2019

SIZE, FINISH AND COLOUR

Product Code	Length mm	Width mm	Height/Thickness mm	Weight kg	Colour	Finish
ACPRBOLB18	2400	1200	18	56	Off White	Smooth/Textured
ACPRBOLB20	2400	1200	20	63	Off White	Smooth/Textured

HANDLING

- Always use relevant safe manual handling techniques relevant to a products size and weight
- Boards should be carried vertically to prevent stress or damage to the board and should always be lifted by at least two people
- Safety glasses with side shields and gloves when handling
- Use product in a well-ventilated area
- Boards must be stored horizontally in dry conditions, protected from rain on site, and the waterproofing system installed promptly after deck completion. Only corrosion-resistant (e.g. austenitic stainless steel) shall be used
- Proteus accepts no liability for corrosion-related issues arising from site exposure or inadequate protection; compatibility and suitability remain the responsibility of the principal designer

MATERIAL

Magnesium oxysulfate formulation.

PACKAGING

Supplied on wrapped pallets.

LIMITATIONS OF USE

For professional use only.

GUARANTEES

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

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

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