

## PRODUCT DETAILS

Product name	<b>Pro-Protection Board A1</b>
Product type	Non-combustible protection board

## PRODUCT DESCRIPTION

**Pro-Protection Board A1** is designed to address the roofing industry's demand for a cost-effective, lightweight, and fire-resistant solution.

**Pro-Protection Board A1** serves as a stable, inert separating layer suitable for various waterproofing overlay applications. Additionally, it can be utilised as a robust and durable protective layer for finished installations.

Suitable for both light and heavy traffic applications, **Pro-Protection Board A1** can be easily cut to fit around penetrations and abutments. It can be either mechanically fixed or bonded into position.

## APPLICATION

**Pro-Protection Board A1** can be used in the following situations:

- Permanent protection under waterproofing membranes prior to applying the final finishes
- On top of rockwool insulation to increase compressive strength

**Pro-Protection Board A1** is suitable for use with the following systems:

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

## INSTALLATION

### Preparation

- It is easily cut on site with the correct tools
- It can be mechanically fixed onto the insulation or bonded with **Pro-Bond Foaming**

### Horizontal fixing – Liquid waterproofing membranes

- **Pro-Protection Board A1** should be bonded to the insulation using **Pro-Bond Foaming** or mechanical fixings
- When overlaying with self-adhesive membranes, **Pro-Protection Board A1** must first be primed with **Pro-Prime® SA**
- A layer of **Pro-Vapour Control/Carrier Membrane** should then be bonded on to the **Pro-Prime® SA**. (Please refer to the **Pro-Vapour Control/Carrier Membrane SA** data sheet for installation instructions)
- Liquid waterproofing systems should then be installed on top of the **Pro-Vapour Control/Carrier Membrane SA** as per the relevant Proteus product datasheet

### Horizontal fixing – Felt waterproofing membranes

- Lay a suitable non-combustible **Proteus Pro-Therm** insulation over the substrate
- **Pro-Protection Board A1** should then be bonded to the surface of the **Proteus Pro-Therm** insulation using **Pro-Bond Foaming** or mechanical fixings
- When overlaying with self-adhesive membranes, **Pro-Protection Board A1** must first be primed with **Pro-Prime® SA** then overlayed with **Proteus Pro-Felt® Self-Adhesive underlay** before installing **Proteus Pro-Felt® Self-Adhesive mineral capsheet/Pro-Felt torch-on mineral capsheet**
- When overlaying with torch on membranes, **Pro-Protection Board A1** must first be primed with **Pro-Prime® Bitumen** then overlayed with **Proteus Pro-Felt® Torch-on underlay** and **Proteus Pro-Felt® Torch-on Mineral Capsheet**

(Please refer to the individual data sheets of each additional product used for specific installation instructions)

### Vertical fixing

- **Pro-Protection Board A1** should be fixed to vertical upstands using **Pro-Bond Foaming**, or mechanical fixings
- Ensure **Pro-Protection Board A1** is applied with **Pro-Prime® SA** prior to Self-Adhesive Membranes or applied with **Pro-Prime® Bitumen** prior to Torch-On Membranes.

### Waterproofing (night seal)

- All areas of the protection boards installed MUST be encapsulated/overlaid with **Pro-Vapour Control/Carrier Membrane SA** and or **Proteus Pro-Felt® Underlay** 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
Melting Point	2400	°C
Density	1100	kg/m <sup>3</sup>
Solubility	insoluble in water	-
Thermal resistance	6mm	m <sup>2</sup> K/W
Thermal conductivity	0.19	W/mK
Vapour resistance	0.31	MNs/g
Reaction to Fire	A1	-
Compressive strength	2.24 / 2240	N/mm <sup>2</sup> / KPA

## SIZE, FINISH AND COLOUR

Product Code	Length (mm)	Width (mm)	Thickness (mm)	Surface Area (m <sup>2</sup> )	Weight (kg)	Colour
ACPRBOLB06	2400	1200	6	2.88	19	White
ACPRBOLB09	2400	1200	9	2.88	28.5	White
ACPRBOLB12	2400	1200	12	2.88	38	White

## HANDLING

- Store in a dry ventilated area room far from sources of heat and direct sunlight
- Always use relevant safe manual handling techniques relevant to a products size and weight
- Safety glasses with side shields and gloves when handling
- Use product in a well-ventilated area

## MATERIAL

Magnesium oxysulfate formulation.

## 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](#)