

## Bauder Acoustic Membrane

V7 01.05.2024

**Product description** Bauder Acoustic Membrane is a sound deadening, flexible polymer mass layer which can be used to reduce noise transmission through the roof system. There are two different weights of membrane to choose from, depending on the performance required. Bauder technical department should be contacted for advice regarding selection of the most appropriate product.

**Application fields** To be used above or beneath the air & vapour control layer in Bauder systems on profiled metal decks, as a noise reduction layer. Where this product is used, the insulation **must** be mechanically fixed. Improves both airborne and impact noise levels. Available as a roll for quick and easy installation. Suitable for new build and refurbishment.

**Article Number** GB30222405 (5kg/m<sup>2</sup>)  
GB30222410 (10kg/m<sup>2</sup>)



Characteristic (5 kg/m <sup>2</sup> membrane)	Unit	Value
Length	mm	6050
Width	mm	1220
Thickness	mm	2.5
Weight	kg/m <sup>2</sup>	5
Coverage	m <sup>2</sup>	7.38
Tensile strength	N/50mm	150
Compressive strength	kg/m <sup>2</sup>	4.54
Thermal conductivity	W/mk	0.45
Characteristic (10 kg/m <sup>2</sup> membrane)	Unit	Value
Length	mm	4000
Width	mm	1200
Thickness	mm	5
Weight	kg/m <sup>2</sup>	10
Coverage	m <sup>2</sup>	4.8
Tensile strength	N/50mm	150
Compressive strength	kg/m <sup>2</sup>	4.54
Thermal conductivity	W/mk	0.45

**Storage guidance** The product should be stored dry, protected against weathering, and must not be exposed to temperatures exceeding 35°C. The products must not be exposed to a direct naked flame or other ignition sources, or to solvents or other chemicals. Ensure the product(s) are clear of buildings and any other storage areas. Where there are storage containers on site, these may be suitable for storing products.

**Packaging material** All products are wrapped in polythene for short term protection.

**Handling/PPE** All persons using the product should be fully aware of the manual handling methods as roofing materials are heavy and can cause serious injury. When using the product, installers should be provided with, and wear, suitable personal protective equipment. Mechanical or two-man lifting is essential.

**Disposal guidance** Disposing of any waste material must be carried out in accordance with national regulations.

**Further information/ documents** Current documents such as brochures, installation guides, etc. can be found by visiting [www.bauder.co.uk](http://www.bauder.co.uk)

**International Standards Organisation (ISO)**

**ISO 9001:2015 Quality Management**  
Certificates EN1271 (UK)

**ISO 14001:2015 Environmental Management Certificates**  
A10552 (UK)

**Installation Guidance**

- Rolled out loose directly over the metal deck or over the installed Bauder AVCL, at 90° to the crowns.
- It is not necessary to remove the plastic film.
- Adjacent membranes should be overlapped by a minimum of 50mm as small openings can reduce the level of acoustic performance.
- Where required, the product is easily cut using a craft knife.

# Technical data sheet

**NOISE REDUCTION PERFORMANCE EXAMPLES – The results below are applicable regardless of whether the Acoustic membrane is installed above or below the AVCL.**

<b>Example 1</b> (Achieves U Value of 0.25W/m²K)	Bauder Thermofol		
	150mm BauderROCK		
	Bauder AVCL		
	No Bauder Acoustic Membrane	5kg Bauder Acoustic Membrane	10kg Bauder Acoustic Membrane
	Metal Deck (TATA D100, 0.7mm)		
	<b>Airborne Noise Reduction</b>	42dB (RW)	44dB (RW)
<b>Rain Noise Reduction</b>	51db (LIA)	47.4dB (LIA)	45.8dB (LIA)
<b>Example 2</b> (Achieves U Value of 0.18W/m²K)	Bauder Thermofol		
	60mm BauderROCK		
	150mm BauderROCK		
	Bauder AVCL		
	No Bauder Acoustic Membrane	5kg Bauder Acoustic Membrane	10kg Bauder Acoustic Membrane
	Metal Deck (TATA D60)		
<b>Airborne Noise Reduction</b>	44 dB (Rw)	46 dB (Rw)	47 dB (Rw)
<b>Rain Noise Reduction</b>	48.3dB (LIA)	44.8dB (LIA)	43.5dB (LIA)
<b>Example 3</b> (Achieves U Value of 0.15W/m²K)	Bauder Thermofol		
	150mm BauderROCK		
	105mm BauderROCK		
	Bauder AVCL		
	No Bauder Acoustic Membrane	5kg Bauder Acoustic Membrane	10kg Bauder Acoustic Membrane
	Metal Deck (TATA D100, 0.7mm)		
<b>Airborne Noise Reduction</b>	46db (RW)	47db (RW)	49db (RW)
<b>Rain Noise Reduction</b>	46.8db (LIA)	43.1db (LIA)	42.1db (LIA)
<b>Example 4</b> (Achieves U Value of 0.13W/m²K)	Bauder Thermofol		
	150mm BauderROCK		
	150mm BauderROCK		
	Bauder AVCL		
	No Bauder Acoustic Membrane	5kg Bauder Acoustic Membrane	10kg Bauder Acoustic Membrane
	Metal Deck (TATA D100, 0.7mm)		
<b>Airborne Noise Reduction</b>	48db (RW)	50db (RW)	50db (RW)
<b>Rain Noise Reduction</b>	45.5db (LIA)	41.7db (LIA)	40.8db (LIA)

**Note:** For advice on the preferred Bauder system to achieve noise reduction targets for specific projects please contact Bauder technical department.

**Safety Data Sheets are designed to provide the necessary information to recipients of substances and mixtures in the EU & UK. This product is classed as an article; therefore, this product does not have a requirement for a Safety Data Sheet.**



DoP can be found via the website



DoC can be found via the website