

StrataShield SA ALU VB

Self-adhesive, aluminium foil air and vapour barrier

Product overview

StrataShield SA ALU VB is a cold-applied, self-adhesive bituminous air and vapour barrier which is saturated and coated with high quality SBS (Styrene-Butadiene-Styrene) modified bitumen. It has an integrated aluminium foil layer, a glass fibre reinforcement and is finished on the underside with a removable siliconised film.

Typical use

StrataShield SA ALU VB is designed for use as a high performance air and vapour barrier, and is ideal for use on either metal profiled or plywood decking and in areas prone to increased temperatures and moisture levels (e.g. factories, swimming pools, gyms). StrataShield SA ALU VB should be used as part of a multi-layer built-up roofing system.

Features & benefits

- Cold-applied, self-adhesive application
- Ideal for flame-free installations
- Steam sealing technology
- Walkable and puncture proof
- Excellent tear strength resistance
- Forms an airtight layer
- Resistant to chemicals and aging
- Excellent low temperature flexibility at -25°C



Substrate preparation

In order to achieve a sufficient bond, the substrate should be dry, free of oil, fat and dust and other impurities. Before applying the StrataShield SA ALU VB membrane ensure that the substrate surface is primed using StrataPrime SA. The primer should be allowed to dry before application of the membrane commences.

Application guidelines

StrataShield SA ALU VB should be installed in accordance with manufacturer recommendations and all relevant national standards and codes of practice, including BS 8217: 2005 – the code of practice for reinforced bitumen membranes for roofing. We also recommend that this product is installed in accordance with the NFRC's Safe2Torch guidelines at all times.

The membrane should be unrolled, aligned and set into position alongside other rolls and profiled decking. Once aligned, one end of the siliconised film should be peeled back. The edge of the StrataShield SA ALU VB membrane can then be pressed to the profiled decking substrate. The product should then be unrolled on to the deck whilst simultaneously pulling off the siliconised film. At installation temperatures below 10°C the laps should be pre-heated using a hot air welding gun.

NB: When gluing insulation over the StrataShield SA ALU VB membrane, a peel bond test should be conducted.

Please also note that the StrataShield SA ALU VB membrane should be protected from UV exposure and site traffic as soon as possible and should not be left exposed any longer than 2 weeks.

Chemical resistance

StrataShield SA ALU VB is water-resistant and is resistant to watery solutions of salt, diluted non-oxidising acids and bases. Aliphatic and aromatic hydrocarbons, as well as chlorine hydrocarbons, oils and greases may loosen the product and should therefore be avoided.

Storage

Rolls should be stored in a cool, dry place in an upright position and protected from direct sunlight, rainfall/snow, heat and frost. The product is best used within 12 months.

Health and safety

Health and Safety should be observed at all times in accordance with HSE and industry guidance. Specific Risk Assessments and Method Statements should be produced by contractors where necessary to ensure Working at Heights, Fire Safety and Manual Handling rules are compliant with current law and regulations. A material safety datasheet is available for this product upon request.

Technical characteristics

Properties (test method)	Declared Performance
Length	20m / 40m
Width	1.1m
Weight per m ²	0.95 kg/m ²
Tensile strength (EN 12311-1)	750N/50mm (min)
Water vapour permeability (EN 1931)	Sd: 1,320m
Water vapour resistance (EN 1931)	6,615 MNs/g
Flow resistance at elevated temperatures (EN 1110)	≥+90°C
Flexibility at low temperatures (EN 1109)	-25°C
Dangerous substances	None
Visible defects (EN 1850-1)	None

Further information

The information contained in this datasheet, along with any advice provided (either written or verbal) through testing are based on our experience and do not constitute any product guarantee for the installer.

We recommend that all of the information provided is carefully studied before proceeding with application, and strongly advise that suitable tests are carried out on site before application in order to determine the suitability and compatibility for the specific project.

The application, use and processing of our products are beyond our control, and therefore under the exclusive responsibility of the installer. As a result, the installer will be solely responsible for any damage derived from the partial or complete disregard of our guidance or the general mis-use of any of our materials. We reserve the right to make changes to our documentation and/or guidance in order to reflect advances in technology or improvements to our products.