



Installation Guide

SilverGuard

Contractor-Preferred Reflective Air & Moisture Barrier

For Walls • Roofs • Attics • Basements

Product Overview

SilverGuard is a high-performance reflective air and moisture barrier, trusted by building professionals for superior protection against water infiltration, air leakage, and heat transfer. Its lightweight, durable design combines advanced reflective technology with excellent waterproofing and airtightness, ensuring efficient, long-lasting performance in walls and roofs. SilverGuard installs quickly and easily, delivering a reliable building envelope that enhances energy efficiency and safeguards structures in all climates.

Storage

Rolls should be stored palletised or on their sides on a smooth, clean surface, kept covered and protected from direct sunlight.

Damage

Handle SilverGuard carefully to avoid tears and punctures. Small punctures can be repaired with ARK Metallised Tape; larger damaged areas should be replaced.

Orientation

Install SilverGuard to the internal side of the building envelope with the reflective foil facing an airspace (typically toward the interior). Sheets may be laid horizontally or vertically to suit the substrate.

Fixing – to Timber

Initial fixing should use ARK Double-Sided (acrylic) Tape with stainless-steel staples. Permanently secure with a timber batten to seal staple penetrations. Where battens are not used, apply ARK Butyl Tape (double-sided) to studs/noggins before stapling. Internal lining fixings should also pass through the Butyl Tape.

Fixing – to Masonry

Fix using anchor systems or masonry screws/nails with EPDM washers. Maximum fixing centres 500mm. ARK Double-Sided (acrylic) Tape may supplement mechanical fixing. For airtightness where no compressible washer is used, apply ARK Butyl Tape (double-sided) at fixing points.



Fixing – to Steelwork (SFS)

Temporary fixing may be made with continuous ARK Double-Sided (acrylic) Tape. Supplement with mechanical screws (drill-tip or self-tapping) with rubber/EPDM washers. Screw spacing 500mm vertically on each stud (typical 600mm centres). Additional security may be provided by battens or lining brackets/channels.

Rainscreen Cladding Applications

Fix to cement board, OSB or ply sheathing using ARK Double-Sided (acrylic) Tape and staples, or fix through sheathing into structure using suitable screws (refer to steelwork guidance). Timber battens or metal brackets/insulation may provide primary restraint—ensure tight contact to prevent water ingress. Where uncertain, apply ARK Butyl Tape between components. Protection layers should be installed promptly to avoid membrane damage.

Fixing to Insulation

Fix to rigid insulation with expanding insulation anchors at max 500mm centres. Penetrations from wall ties or cladding brackets should be sealed using ARK Metallised Tape or ARK UltraWrap Flex Tape.

Laps

Maintain 100mm laps and seal with ARK Metallised Tape or ARK Double-Sided (acrylic) Tape.

Detailing

Ensure full internal coverage of walls or roof. Maintain continuity at walls, floors and roof junctions using ARK Metallised Tape and/or ARK Double-Sided (acrylic) Tape.

Windows / Doors / Loft Hatches

Seal tightly to frames using Metallised Tape or Double-Sided Tape. Reinforce internal corners using ARK Flashing Tape or ARK UltraWrap Flex Tape.

Penetrations

Seal penetrations (lighting, pipework, wiring, etc.) with ARK UltraWrap Flex Tape. Fixings to timber, masonry or steelwork may be sealed using ARK Butyl Tape.

Batten Space / Service Void

Internal linings may be spaced off SilverGuard using minimum 25mm battens to reduce penetrations and improve reflective performance. For added air-sealing, apply ARK Butyl Tape behind battens.

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Light Fittings

Where no service void exists, create a sealed enclosure and bond to the membrane using ARK Butyl Tape or ARK Metallised Tape. Seal wiring penetrations with ARK UltraWrap Flex Tape. Preferred units: sealed LED (F-Capped) for continuous insulation. Halogen units must have F-Capped approved loft caps.

Precautions

Personal Protection: Wear appropriate personal protective equipment (PPE), such as gloves and safety glasses, to prevent cuts from sharp membrane edges or installation tools.

Environmental Conditions: Avoid installation in wet, dusty, or extreme temperature conditions (too hot or too cold), as these may affect tape adhesion or membrane performance.

Handling Penetrations: For penetrations such as electrical conduits or lighting fixtures, properly prepare and seal the openings (e.g., with dedicated sealing tape or sealant) to maintain airtightness.

Fastening Methods: Avoid using nails or sharp fasteners that could damage the membrane. If screws or nails are used, consider using washers or pre-drilling, and seal all penetration points.

Maintenance & Warranty

SilverGuard do not need special maintenance after installed; Lifetime warranty from the day of installation if it is quality defects.



Remark:

Recommendations on methods, materials, and construction details are provided by Ark Synthetics based on current knowledge and experience. They serve as a general guide for designers, contractors, and manufacturers. Installation should also consider local conditions, project-specific requirements, and guidance from designers or other qualified professionals. For project assistance, contact: info@arksynthetics.com

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