

TYPICAL APPLICATION



SilverBarrier TECHNICAL DATA

SilverBarrier Specifications

Width per roll:	4.94ft/1.5m
Length per roll:	164ft/50m
Roll size:	802ft ² /75m ²

SilverBarrier Technical Data

Nominal Thickness	5.51 mils
Water Vapour Transmission (perms)	0.06
Water Tightness (2000mm, 2h)	Pass
Maximum Tensile Force (MD)(N/50mm, ≥)	480
Maximum Tensile Force (CD) (N/50mm, ≥)	490
Resistance to Tearing MD (Nail Shank)	290
Resistance to Tearing CD (Nail Shank)	300
Tensile Strength after Ageing (MD)(%, ≥)	80
Tensile Strength after Ageing (CD) (%, ≥)	80
Resistance to Water Penetration after Ageing(%, ≥)	80
UV Resistance (Days)	180
Temperature Range	-40°F to 240°F

* The Data shown above is based on the test averages and independent test reports. There can be a +/-10% variation in the individual test results. This report should not be considered as a warranty for the manufacturer. The manufacturer is not responsible for the misrepresentation or misinterpretation of the data by the reader.

SilverBarrier Meets or exceeds the following code standards: ASTM D8257, ASTM D4869, ASTM E96, ASTM D1204, ASTM D5035, ASTM D4533, ASTM D228, ASTM D4798.



Install right from the start with
Arkint® SilverBarrier
 SYNTHETIC UNDERLAYMENT
 LOGO PRINTING AVAILABLE



Installation Instructions:

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.

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.

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