



*Vapour Permeable Air Barrier Membranes for Sloped Roof and Rain Screen Wall Systems*

## **Installation Guide for SRP AirOutshield™ ROOF Underlayment for Sloped Roofing Systems**

### **GENERAL**

- The following is a general installation guide for SRP AirOutshield ROOF to be installed as a sloped roofing underlayment, secondary drainage plane or Slip Sheet.
- Install in a “shingle style” in all areas including at penetrations and intersections to facilitate drainage.
- Comply with project specifications, local codes and industry best practices.
- Refer to the SRP Standard Details at [www.SRPAirOutshield.com](http://www.SRPAirOutshield.com)
- Do NOT install in roofs with slope less than 2:12 (16.7 %) or under asphalt shingles
- Do NOT attach with staples

### **TOOLS**

- ✓ Box Cutter
- ✓ Tape Measure
- ✓ Hammer
- ✓ Screwdriver
- ✓ Tape Roller

### **AUXILIARY MATERIALS**

Surface Seam Tape: SRP 60 UV Seam Seal Tape, black single sided seam tape.  
Use to seal vertical and horizontal seams between layers of AirOutshield ROOF.

Detail Tape: SRP 100 UV Tape, black single sided tape.  
Use to wrap openings and to seal AirOutshield ROOF to itself and to other surfaces and substrates.

In Seam Tape: SRP 1” DS (double sided) Seam Tape. 30 mil.  
Use to seal vertical and horizontal seams between layers of AirOutshield ROOF.

Eave protection membrane: Self adhered, high temperature resistant and compatible with the roofing system. Refer to the project specifications or the roofing systems manufacturers instructions.

Ventilation Mat: (optional) SRP VM10 Ventilation Mat 10mm thick nonwoven polypropylene or nylon with maximum 20% contact area.

Fasteners: Minimum No. 12-gage [0.109”-shank-diameter (2.77mm)] corrosion-resistant steel or stainless-steel nails having a minimum 3/8” diameter (9.5 mm) head, or minimum No. 14 gage [0.083” shank diameter (2.11 mm)] corrosion-resistant steel or stainless steel screws or nails installed with a 1” diameter (25.4 mm) caps, plate or washer. Ensure compatibility with cladding system.

Important: Mechanical fasteners that penetrate the AirOutshield ROOF must be set flush and fastened securely into solid backing. When fastening into gypsum board and other non-structural boards, ensure the fastener penetrates a stud or other solid backing.



## *Vapour Permeable Air Barrier Membranes for Sloped Roof and Rain Screen Wall Systems*

### **SURFACE PREPARATION**

- Surfaces must be clean and dry, free of frost, loose nails, dirt, debris or other contaminants that would adversely affect the installation of the breathable underlayment.
- Protect rolls of membrane from physical abuse, flame and other high heat sources, and chemicals including surfactants (soaps) and solvents.

Ensure the following are installed prior to installing AirOutshield ROOF

- ✓ Any penetrations including curbs, vents, conduits, pipes...
- ✓ All eave protection membrane
- ✓ Roof insulation if required

### **DETAILING PENETRATIONS**

Pipes and Conduit

1. Install penetration sleeves in the appropriate size and install as recommended by the manufacturer.
2. Cut a piece of AirOutshield ROOF membrane 12" larger than the penetration to act as a skirt.
3. Make four cuts to form a star shape and place over penetration snugly.
4. Extend "ears" of material along vertical penetration and seal with SRP 4" Detail Tape.
5. Tape upper edge of "skirt" to roof using SRP 100 UV Tape or SRP 60 UV Seam Seal Tape. Do not tape lower edge at this time.

Curbs

1. Follow roof and/or curb manufacturer's approved shop drawings for system installation.
2. Install AirOutshield ROOF up to the curb or penetration.
3. Apply SRP 100 UV Tape to tie the AirOutshield ROOF into the sides of the curb overlapping the horizontal by at least 2".
4. If a self adhered flashing must be tied in install it over a strip of SRP 100 UV Tape and NOT directly to the AirOutshield.
4. Ensure all laps are shingled to allow for positive drainage.

Tears and Rips

1. Insert a full height piece of underlayment extending 12" horizontally beyond the damage and extend up and under the underlayment above.
2. Mechanically attach underlayment to substrate top and bottom.
3. Tape all seams using SRP 60 UV Seam Seal Tape or SRP 100 UV Tape.

### **EAVE PROTECTION**

1. At eaves install a self adhered membrane as required by local codes.
2. Along valleys, hips and ridges, install a layer of self adhered eave protection membrane. At ridge of roof, ensure horizontal overlap, minimum 12" o.c. both sides.

### **BREATHABLE ROOFING UNDERLAYMENT APPLICATION**

AirOutshield ROOF is installed as an underlayment or secondary drainage plane prior to the installation of the primary water shedding roofing such as tile, slate, zinc, copper or metal roofing material.

Important! Do not install in slopes of less than 2:12 (16.7 %).



### *Vapour Permeable Air Barrier Membranes for Sloped Roof and Rain Screen Wall Systems*

1. Install printed side up, forming a continuous membrane over the entire roof area, allowing any water to drain down to the gutters. Ensure there are no blockages that obstruct the water flow.
2. Horizontal installation: Unroll AirOutshield ROOF horizontally across the roof perpendicular to roof slope. Install successive layers of AirOutshield ROOF in a shingling manner up the roof slope maintaining minimum 6" horizontal and vertical overlaps.
3. Vertical installation: Unroll AirOutshield ROOF vertically parallel to roof slope. Install successive layers of AirOutshield ROOF with a minimum 6" overlap on vertical and horizontal seams. **Apply SRP 60 UV tape to ALL overlaps regardless of slope.**
4. At eaves, install AirOutshield ROOF overlapping the self-adhered eave protection membrane by 12" minimum.
5. Use fasteners as recommended in "Auxiliary Materials" section of this document. Ensure compatibility between fasteners and the roofing material. Do NOT attach with staples. Fasten AirOutshield ROOF along top and bottom of roll at 12" o.c. and maximum 2'0" o.c. in the field.
6. Mechanical fasteners that penetrate the AirOutshield ROOF must be set flush and fastened securely into solid backing. When fastening into gypsum board and other non-structural boards, ensure the fastener penetrates a stud or other solid backing.
7. Overlap AirOutshield ROOF onto any wall membranes and ensure water will drain to the exterior. Extend AirOutshield ROOF 4" over gable ends and fasten to fascia boards at 12" o.c.
8. Tape ALL vertical seams using SRP 60 UV Seam Seal Tape.
9. If roof slope is between 3:12 and 2:12, or as required by the project specifications, tape ALL horizontal and vertical seams using SRP 60 UV Seam Tape or SRP 1" DS Tape.

#### **ROOFING INSTALLATION**

- Ensure AirOutshield ROOF is installed in compliance with this specification and all details are complete.
- Install battens or ventilation mat over the AirOutshield ROOF to provide a drying drainage space if required by the roofing system manufacturer or project specifications.
- Install roofing system as soon as possible and in accordance with the system manufacturers written instructions and the project specifications.

#### **EXTREME WEATHER STATEMENT FOR ROOFING APPLICATIONS**

As many areas are experiencing extreme weather conditions such as heavy and prolonged rainfall, "Best Building Practice" would suggest, and SRP AirOutshield recommends that AirOutshield ROOF be augmented with additional waterproofing materials (e.g., tarps) DURING THE CONSTRUCTION PHASE to ensure that interiors are protected until the primary roofing material is applied. Neither SRP AirOutshield Inc. nor any of its affiliated companies, including product suppliers and manufacturers, shall be liable for damages, including but not limited to consequential damages, that result from water infiltration through AirOutshield ROOF during the construction phase.

#### **PRECAUTIONS**

- Observe all health and safety precautions.
- Protect installed AirOutshield ROOF from damage due to ultraviolet light, harmful weather exposures, physical abuse, flame, high heat sources, and chemicals including surfactants (soaps) and solvents.
- Remove mud and other substances using water only. If chemicals have been spilled on underlayment, remove and replace as stated above.
- Limit heavy foot traffic on AirOutshield ROOF and repair any damaged material due to traffic abuse.



*Vapour Permeable Air Barrier Membranes for Sloped Roof and Rain Screen Wall Systems*

**STORAGE AND HANDLING**

- Store materials in a dry location and protect from physical damage, high heat, and chemicals.

Warranty

The information, and in particular, the recommendations relating to the application and end-use of AirOutshield products, are given in good faith based on SRP AirOutshield's current knowledge and experience of the products when properly stored, handled and applied under normal conditions. In practice, the differences in materials and actual site conditions are such that no warranty in respect of merchantability or of fitness for a particular purpose, nor any liability arising out of any legal relationship whatsoever, can be inferred either from this information, or from any recommendations, or from any other advice offered. The proprietary rights of third parties must be observed. All orders are accepted subject to our current terms of sale and delivery. Users should always refer to the most recent issue of the Technical Data Sheet for the product concerned, copies of which will be supplied on request or can be accessed on the Internet under [www.SRPAirOutshield.com](http://www.SRPAirOutshield.com).

Issued: 2025-01-31