



*Breathable Membranes for Rainscreen Wall and Sloped Roof Systems*

## **Installation Guide for SRP-AirOutshield™ SA 280**

*Self Adhered, Breathable Underlayment for Rain Screen Walls and Sloped Roofing Systems*

### Introduction

The following is a general installation guide for SRP-AirOutshield SA 280 to be installed in walls as a sheathing membrane, air barrier and in sloped roofs as an underlayment. SRP AirOutshield SA 280 has a red or black outer face and a factory applied, permeable adhesive on the back that is protected with a release film. This release film is removed during the installation.

### Limitations

1. Ensure that the product selected is appropriate for the intended use. Refer to the Technical Data Sheet and call SRP if in doubt.
2. SRP AirOutshield SA 280 is NOT recommended for use in open joint systems where permanent UV exposure exists (use AirOutshield UV), as a vapour barrier, as a waterproof membrane or for any other use not included in the technical data sheet.
3. Do not install unless the surface and ambient temperature are (minus) -6°C and rising at the time of installation.
4. Do not install in sloped roofs if the slope is less than 2:12 slope.
5. In sloped roofing applications, protect installed membrane from foot traffic, mechanical damage and in accordance with the Extreme Weather Statement on the last page of this document.
6. Do not install in areas where water will collect or pond.
7. Observe all health and safety precautions including slip and fall precautions.
8. Protect rolls of membrane from physical abuse, flame and other high heat sources, as well as chemicals including surfactants (soaps) and solvents. Remove mud and other substances using water only. If chemicals have been spilled on underlayment, remove and replace.
9. For high rise applications, over 60 ft, or situations not clearly described here contact SRP at 1 866 533 0233.

### General

1. Comply with project specifications, local codes and industry best practices.
2. Install in a "shingle style" in all areas including laps, penetrations and intersections to facilitate drainage to the exterior. Reverse laps are not acceptable.
3. In wall applications, install in a vertical or horizontal direction.
4. In roof applications, apply perpendicular to the slope of the roof.
5. Plan the layout to minimize waste.
6. Overlaps are to be a minimum of 75mm in the field and 150mm in corners
7. Stagger intersecting vertical seams by at least 150mm
8. All applications must be rolled to ensure maximum adhesion is attained
9. Store materials vertically, in original packaging and at temperatures 5°C to 32°C (40°F to 90° F).



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### AUXILIARY MATERIALS

The SRP AirOutshield SA 280 is self adhered and requires very few accessories. Use the following only as required.

1. SRP 60 UV Seam Seal Tape / SRP 100 UV Seam Seal Tape, black single sided seam tape.
2. Sealants and liquid flashing materials: Lucas 9600 [www.rmlucas.com](http://www.rmlucas.com)
3. 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) cap, plate or washer. Ensure compatibility with cladding system.
4. Flashing membranes: As specified and in compliance with local building codes.
5. Ventilation Mat or battens: As specified and in compliance with local building codes.

### Surface Preparation

1. Ensure all surfaces are clean, dry, free of frost, loose nails, dirt, debris or other contaminants that would adversely affect the installation.
2. Ensure the following are installed prior to proceeding;
  - a. Any penetrations including vents, conduits, pipes...
  - b. All through wall flashings
  - c. Roofing curbs and upstands
  - d. Cavity wall insulation if required

### Installation- General

1. Surface and ambient temperature must be (minus) -6C and rising at the time of installation.
2. SRP AirOutshield SA 280 has been formulated to be installed over properly prepared surfaces without the need for a primer.  
NOTE: The use of a primer can reduce the water vapour transmission rate of breathable membranes and solvent based primers can reduce the ability of the membrane to resist the passage of water.
3. To confirm that the installed product will have adequate adhesion we recommend a field test be performed. Install a sample of SRP AirOutshield SA 280 in accordance with this installation guide and allow it to cure for at least 6 hours at 20C (or longer in cold temperatures) before testing.

### Detailing- Walls

1. Identify all areas to be detailed including all penetrations, seismic joints, expansion joints, connections with other adjacent components (such as roofing membranes) and other areas where movement may occur.
2. Install SRP AirOutshield SA 280 to all penetrations to create a watertight and airtight seal and ensure water is routed to the exterior in all areas. Reverse laps are not allowed. Use compatible sealant (ChemLink M-1) and/ or tapes as needed.
3. Leave release film attached where needed to accommodate proper overlap with membrane to be installed after.
4. Remove release film, apply to the surface and apply pressure using a rubber roller or similar.



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#### Installation- Walls

SRP AirOutshield SA 280 can be applied on walls to function as the sheathing membrane, secondary plane of protection, and / or air barrier. We recommend 2 people perform this installation.

1. Plan the layout of the membrane noting that it can be installed vertically or horizontally on walls.
2. For horizontal applications, start at the base of the wall, cut material to desired length and re-roll with release film facing outward.
3. Unroll membrane and place it in its final position.
4. Remove ONLY approx. 150mm of the release film, exposing the sticky adhesive. Adhere this to the substrate and apply pressure.
5. Roll up the membrane, remove the release film slowly and adhere it to the surface ensuring it remains in alignment. Chalk lines may assist with this process.
6. Once the membrane is in its final position, smooth out using a plastic wallpaper trowel or similar. Avoid damaging membrane.
7. Ensure overlaps are a minimum of 75mm in all areas in the field and 150mm in corners.
8. Tie into detail membranes already installed always ensuring a shingle style overlap.
9. Using a counter top roller or 'J-roller', apply pressure to all installed membrane, flashings and details to ensure appropriate surface adhesion is achieved.
10. Ensure water is not able to penetrate the edges of the membrane. At the end of each day of work, seal the top edge of the membrane where it meets the substrate with a compatible sealant (ChemLink M-1). Apply a bead and trowel it to form a feather edge to seal termination and shed water.

#### Detailing- Sloped Roofs

1. Identify all areas to be detailed including all penetrations such as curbs, upstands, expansion joints, connections with other adjacent components.
2. Do not apply SRP AirOutshield SA 280 to areas prone to water ponding. Install a cricket or similar to deflect the water.
3. Install SRP AirOutshield SA 280 to all penetrations to create a watertight and airtight seal and ensure water is routed to the exterior in all areas. Reverse laps are not allowed. Use compatible sealant (ChemLink M-1) and/ or tapes as needed.
4. In valleys, at eaves and other areas install a waterproof, modified bitumen membrane to comply with code and best practices. Overlap SRP AirOutshield SA 280 by a minimum of 75mm in these areas. Leave release film attached where needed to accommodate proper overlap with membrane to be installed after.
5. Remove release film, apply to the surface and apply pressure using a rubber roller or similar.
6. NOTE: The primers used with some membranes contain solvents that can damage the SRP membrane. Use sparingly and allow all solvents to flash off before proceeding.



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#### Installation- Sloped Roofs

SRP AirOutshield SA 280 can be applied in sloped roofing systems to function as the underlayment, slip sheet and / or air barrier. We recommend 2 people perform this installation.

1. Plan the layout of the membrane noting that it must be installed perpendicular to the slope.
2. Once all of the detailing has been installed, start at the eave or low point in the roof.
3. Cut material to desired length and re-roll with release film facing outward.
4. Unroll membrane and place it in its final position.
5. Remove ONLY approx. 150mm of the release film, exposing the sticky adhesive. Adhere this to the substrate and apply pressure.
6. Roll up the membrane, remove the release film slowly and adhere it to the surface ensuring it remains in alignment. Chalk lines may assist with this process.
7. Once the membrane is in its final position, smooth out using a plastic wallpaper trowel or similar. Avoid damaging membrane.
8. Ensure overlaps are a minimum of 75mm in all areas in the field and 150mm in corners.
9. Tie into detail membranes already installed always ensuring a shingle style overlap.
10. Using a counter top roller or 'J-roller', apply pressure to all installed membrane, flashings and details to ensure appropriate surface adhesion is achieved.
11. Ensure water is not able to penetrate the edges of the membrane. At the end of each day of work, seal the top edge of the membrane where it meets the substrate with ChemLink M-1 sealant. Apply a bead and trowel it to form a feather edge to seal termination and shed water.

#### Cladding or Roofing Installation

1. Ensure SRP AirOutshield SA 280 is installed in compliance with this installation guide and the project specifications and all details are complete.
2. Mechanical fasteners that penetrate the AirOutshield SA 280 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.
3. As required by code or specifications, install battens or a ventilation mat over the SRP AirOutshield SA 280 to provide a drying drainage space a minimum of 10mm wide.
4. In wall applications, install cladding system within 90 days and in accordance with the system manufacturers written instructions and the project specifications.
5. In sloped roofing applications, install the roofing system as soon as possible and protect with tarps in the interim. See Extreme Weather Statement below.
6. Ensure membrane is not damaged during the installation of the finished roofing or cladding system.



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#### Storage and Handling

1. Store materials in a dry location and protect from physical damage, high heat, and chemicals. See limitations.
2. Store materials vertically, in original packaging and at temperatures 5°C to 32°C (40°F to 90° F).

#### 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 Canada recommends that AirOutshield SA 280 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 Canada 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 SA 280 during the construction phase.

#### Warranty

The information, and in particular, the recommendations relating to the application and end-use of SRP Canada products, are given in good faith based on SRP Canada'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 in the Internet under [www.srpcanada.ca](http://www.srpcanada.ca).

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