

# Installation Guide for SRP-AirOutshield UV Breathable Underlayment for Open Joint Wall Systems

## TOOLS

Box Cutter  
Tape Measure  
Hammer  
Screwdriver  
Tape Roller

## AUXILIARY MATERIALS

Detail Tape: SRP 4" Detail Tape, 30 mil, single sided. Use to wrap openings.

Surface Seam Tape: SRP 60 UV Seam Seal Tape, Black single sided seam tape. Use to seal vertical and horizontal seams between layers of SRP-AirOutshield UV and to seal to window flanges and other penetrations.

Through Wall Flashing: Use products compliant with local building codes.

Ventilation Mat or battens: By others

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.

## 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, as well as chemicals including surfactants (soaps) and solvents

## **DETAILING PENETRATIONS**

### ***Pipes and Conduit***

1. Cut a piece of SRP-AirOutshield UV membrane 12" larger than the penetration to act as a skirt.
2. Make four cuts to form a star shape and place over penetration snugly.
3. Extend "ears" of material along vertical penetration and seal with SRP 60 UV Seam Seal Tape, Black.
4. Tape top edge of "skirt" to wall using SRP 60 UV Seam Seal Tape, Black. Do not tape bottom edge at this time.

### ***Windows and Doors Already Installed***

1. Ensure that the window installers have wrapped the opening with membrane (SRP 4 " detail tape or similar) and have installed an apron piece of AirOutshield UV at the bottom of the window prior to installing the window.
2. Place a piece of AirOutshield UV below the window and apply the apron piece over it in shingle style.
3. Install AirOutshield UV over the wall and window in shingle style.
4. Cut the AirOutshield UV around the window being careful not to cut the window flange or membrane around the opening.
5. Tape the AirOutshield UV to the window using SRP 60 UV Seam Seal Tape, Black

### ***Openings for Windows and Doors to be installed after the AirOutshield UV is installed***

1. Install AirOutshield UV over the entire wall and openings in shingle style.
2. Cut the AirOutshield UV horizontally along the head of the opening.
3. At the top corners of the opening place a diagonal cut approx 6 " long to create a flap. Fold this flap upwards and use tape to keep it out of the way.
4. Cut the AirOutshield UV down the middle of the opening approx 2/3 the way down and tie this cut into each of the lower corners on a diagonal.
5. Fold the AirOutshield UV into the opening, fasten and trim off excess.
6. Install SRP 4 "detail tape as a flashing over the base of the opening, up the vertical sides at least 2 " and over the AirOutshield UV. If more than one width is needed ensure they are installed in shingle style.
7. Install the window or door in accordance with the manufacturer's instructions.
8. Starting with the sides, seal AirOutshield UV to window flange using SRP 60 UV Seam Seal Tape, Black or 4 " Detail Tape. Overlap the sill flashing by at least 2 ".

9. At the top of the window apply a head flashing using SRP 4 " Detail Tape. This is to be applied directly over the sheathing and onto the frame of the window to ensure drainage to the exterior. Cover this with the flap of AirOutshield UV installed previously.
10. Tape all seams around the opening using SRP 60 UV Seam Seal Tape, Black or SRP 4" Detail Tape

### ***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, Black

## **INSTALLATION UNDER OPEN JOINTED CLADDING AS A SHEATHING MEMBRANE**

In this section SRP-AirOutshield UV is installed as a secondary drainage plane under the primary water shedding cladding system. Joints in cladding must be less than 50mm wide and cover less than 40 % of the area of the wall.

1. Install with the coated side out, in shingle style to form a continuous membrane over the entire area, allowing water to drain to the exterior.
2. Avoid blockages that would otherwise obstruct the water flow.
3. Starting at base of wall, unroll SRP-AirOutshield UV horizontally across wall. Overlap through wall flashings by a minimum of 6 " and extend a minimum of 6" over starting corner.
4. Fasten at top and bottom of roll within 2" of edge, 12" on centre and at a maximum of 24" on centre in field.
5. Shingle next layers of SRP-AirOutshield UV ensuring minimum 6" horizontal and minimum 12" vertical laps. Tape all vertical laps.
6. If installed vertically, overlap vertical seams a minimum of 6 inches and apply SRP 60 UV Seam Seal Tape to all vertical seams.
7. Where penetrations are encountered refer to "Penetrations" section of this document. Ensure SRPAirOutshield UV is slipped under bottom edge of penetration "skirt" for positive drainage to the exterior.
8. Do not place vertical laps within 24 "of a window or door opening.
9. If the installation of the primary cladding is delayed use adequate fasteners to resist the potential wind conditions. Temporary battens, roofing nails or screws with washers can be used.

## **CLADDING INSTALLATION**

1. Ensure SRP-AirOutshield UV is installed in compliance with this specification and all details are complete.
2. Install battens or a ventilation mat over the SRP AirOutshield UV to provide a drying drainage space a minimum of 10mm wide.
3. Install cladding system as soon as possible and in accordance with the system manufacturers written instructions and the project specifications.
4. Ensure membrane remains intact and continuous after installation of cladding attachment systems.

## **PRECAUTIONS**

Observe all health and safety precautions.

Install primary cladding within 4 months of installation of the SRP AirOutshield UV.

Protect installed SRP-AirOutshield UV from physical abuse, flame and other 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.