SECTION 07276: SRP AirOutshield™ SA 280
For Wall applications
Guide Specification

This specification is a guide only and may need editing for the specific intended application. It is the responsibility of the design professional to ensure the accuracy and completeness of the specifications issued.

NOTE: This specification describes the use of SRP AirOutshield™ SA 280 in a wall system. For use in roofing systems refer to the SRP AirOutshield SA 280 specification for Roofing installations and do not use this product in roofs with a slope less than 2:12.

SECTION 07276 – SRP AirOutshield™ SA 280 Breathable Underlayment

PART 1 - GENERAL

1.1 SUMMARY

A. This Section provides for the exterior wall, breathable, air barrier.

B. Related Sections include the following:

1.2 REFERENCES

A. ASTM E 84 – Standard Test Method for Surface Burning Characteristics of Building Materials.

B. ASTM E 96 - Standard Test Methods for Water Vapor Transmission of Materials.

1.3 SUBMITTALS

A. Product Data: Include manufacturer's written instructions, technical data, and tested physical and performance properties of breathable underlayment.

B. Samples:
1. 8-1/2-x-11-inch square of the membrane.
2. Provide materials and fasteners for mock-up

C. Manufacturer's Instructions: Provide manufacturer's instructions showing the recommended procedures and sequence of installation of breathable air barrier membrane.

1.4 QUALITY ASSURANCE

A. Ensure all work of this section and the related sections is performed in accordance with local codes and system manufacturer's instructions.

B. Obtain all breathable air barriers from a single manufacturer.

C. Pre-installation Conference: Conduct conference at Project site to comply with requirements in Division 1 Section "Project Management and Coordination." Review requirements for underlayment, including surface preparation specified under other Sections, substrate condition and pretreatment, temporary weather protection, forecasted weather conditions, special details and sheet flashings, installation procedures, testing and inspection procedures, and protection and repairs.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Deliver materials to Project site in original containers with seals unbroken, wrapped in a polythene sleeve, labeled with manufacturer's name, and product brand name.

B. Store rolls under cover, on a clean, level surface, either flat or upright.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

A. Products:

Self adhered, breathable air barrier for [rain screen wall systems] [sloped roofing] Self Adhered, triple layer, spun bonded polypropylene, breathable membrane with a nominal weight of 270g/m², nominal thickness of 0.60mm and water vapor transmission 1373 ng/Pa/s/m² (24 perms) as per ASTM E96-95 method B. SRP AirOutshield™ SA 280 Self Adhered Breathable Underlayment

Color: Black

2.2 AUXILIARY MATERIALS

A. Tape
1. SRP 100 UV Tape, single sided.
2. SRP 60 UV Seam Seal Tape

B. Sealants and liquid flashing materials: BASF Masterseal NP-1, Lucas 9600 or others as approved by SRP.

C. Eave Protection

1. Self-adhered membrane
   a. High Temperature resistant underlayment as approved by the consultant.

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

E. Ventilation Mat: as approved by the consultant.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements and other conditions affecting performance.

B. Refer to the most recent version of the manufacturers installation guide as available at www.uspunderlayment.com

C. Surface and ambient temperature must be (minus) -6C and rising at the time of installation.

D. SRP AirOutshield SA 280 has been formulated to be installed over properly prepared surfaces without the need for a primer.

E. To confirm that the installed product will have adequate adhesion conduct a field test. 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.

3.2 SURFACE PREPARATION

A. Ensure all surfaces are clean, dry, and free of frost, loose nails, dirt, debris or other contaminants that would adversely affect the installation.

B. Ensure the following are installed prior to proceeding;
   1. Any penetrations including vents, conduits, pipes…

C. Do not expose the membrane to chemicals including surfactants, soaps and solvents.

3.3 PENETRATIONS

A. Identify all areas to be detailed including penetrations, openings, structural connections, expansion joints, and connections with other adjacent components.

B. Do not apply SRP AirOutshield SA 280 to areas exposed to water ponding.

C. 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 should be avoided and sealed with a bead of compatible sealant or tape.

D. Remove release film, apply to the surface and apply pressure using a rubber roller or similar.

E. 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.

F. Seal all penetrations using SRP AirOutshield™ SA 280 in combination with SRP Tapes, Self-adhered membranes or compatible sealants.

3.4 AIR BARRIER APPLICATION

A.

1. Plan the layout of the membrane noting that it can be installed horizontally or vertically.
2. Once all of the detailing has been completed, install the AirOutshield SA 280 over the entire wall in such a way that it drains all precipitation to the exterior and forms an air tight seal.
3. Ensure overlaps are a minimum of 75mm in all areas in the field and 150mm in corners.
4. Tie into detail membranes already installed ensuring a shingle style overlap.
5. Using a roller apply pressure to all installed membrane, flashings and details to ensure appropriate surface adhesion is achieved.
6. 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 compatible sealant. Apply a bead and trowel it to form a feather edge to seal termination and shed water.
7. During installation, protect membrane from rainwater runoff from roofs (overhangs/eaves/valleys).
8. Repair any damaged material.

B. Cladding 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. Install the wall cladding system as soon as possible and within 90 days of installation of membrane.
5. Ensure membrane is not damaged during the installation of the cladding system.

3.5 FIELD QUALITY CONTROL

A. [**Owner will engage**] [**Engage**] an independent inspector to observe substrate, detailing and installation. Before the cladding system is installed, Inspector shall provide a written, sign-off log, on all installed membrane and detailing. Form of log shall be approved by Architect before contract with inspection service is approved.

3.6 PROTECTING AND CLEANING

A. Protect installed SRP AirOutshield™ SA 280 from damage due to ultraviolet light, harmful weather exposures, physical abuse, exposure to solvents or soaps and other causes.

B. Remove mud and similar marks with a water scrub; do not use soap or solvents. If chemicals have been spilled on underlayment, remove and replace as stated above.

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

D. Store materials vertically, in original packaging and at temperatures 5°C to 32°C (40°F to 90° F).

END OF SECTION 07275

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