



*Breathable Membranes for Rainscreen Wall and Sloped Roof Systems*

## SRP AirOutshield™ *Breathable Underlayment for Rain Screen Wall Systems*

### **Description**

A triple layer, spun bonded, polypropylene, water resistant, breathable underlayment for rain screen wall systems.

### **Uses**

As a secondary drainage plane, sheathing membrane, weather resistive barrier (WRB) or air barrier behind rainscreen wall cladding systems including siding (vinyl, wood, fibre cement, metal, brick) and shingles (metal, copper, zinc, cedar).

### **Features/Benefits**

- High Breathability Rate- *Allows moisture within the wall system to dry rapidly, thereby reducing potential for mould, mildew, rot, metal corrosion and reduced insulation thermal values.*
- Water Resistant- *Moisture entering the wall system is quickly diverted before it can damage insulation and other components.*
- Durable- *Tear, rip and puncture resistant reducing repairs and related labour costs.*
- Polypropylene- *Provides superior resistance to the high temperatures associated with typical dark coloured cladding systems.*
- Self-cinching at fasteners- *Minimizes penetration point leaks and the need for sealant.*
- “Dries In” Building- *Can be installed and left exposed for up to 120 days allowing construction to proceed efficiently.*

For open joint panels with long term UV exposure use **SRP AirOutshield™UV BLACK**.

### **Packaging**

Roll size: 1.5m W x 50m L (59” W x 164’ L)  
Gross Area per roll: 75m<sup>2</sup> (807ft<sup>2</sup>)  
Weight: 9 kg (20lbs) per roll  
Colour: Orange (top) and White (bottom)

### **System Accessories**

SRP- 1” D.S. Seam Tape: Roll size 25mm x 15.24m (1” x 50’)

SRP 100UV Seam Seal Tape: Roll size 100mm x 25m (4” x 81’)

SRP 60 UV Seam Seal Tape: Roll Size 60 mm X 25m (2.4”X 81’)

### **Compliances**

Accepted as an underlay by wall system manufacturers. Consult SRP and your system manufacturer.

Tested in accordance with CCMC Technical Guide 07 25 10.03 for “Sheathing, Membrane, Breather Type” and listed by CCMC as 13549-R.

Tested to ICC-ES AC38 - Acceptance Criteria for Water-Resistive Barriers.



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**Physical Properties** from an independent laboratory

| Property                                    | Test Method                                 | Result  |
|---|---|---|
| Nominal Weight                              |   | 120g/m <sup>2</sup>   |
| Nominal Thickness                           |   | 0.58mm  |
| Colour                                      |   | Top: Orange<br>Bottom: White  |
| Water Vapour Permeance                      | ASTM E96 Proc. A<br>Dessicant Method @ 23°C | Original<br>8923 ng/Pa/s/m <sup>2</sup> or 156.1 perms<br><u>UV and Heat Aged</u><br>10,433 ng/Pa/s/m <sup>2</sup> or 182 perms |
| Water Ponding<br>UV and heat-aged samples   | CCMC 07 25 10.03-2011                       | No leakage- Pass  |
| Moisture Vapour Transmission Rate<br>(MVTR) | BS 3177                                     | Minimum 1500 gm/m <sup>2</sup> / 24 hrs   |
| Vapour Resistance                           | BS 3177                                     | 0.21 MNsg <sup>-1</sup>   |
| Tensile Strength                            | ASTM D882<br>ASTM G154(UV)                  | Original<br>4.79 N/mm<br><u>UV and Heat Aged</u><br>4.34 N/mm   |
| Breaking Force                              | ASTM D5034                                  | MD 345 N<br>CD 252 N  |
| Surface Burning Characteristics             | ASTM E84                                    | FSI 20 Class A<br>SD 185 Class A  |
| Low Temperature Flexibility                 | AC 38                                       | Pass  |
| Ultraviolet Exposure                        | AC 38                                       | Pass  |
| Accelerated Aging                           | AC 38                                       | Pass  |
| Water Ponding                               | AC 38                                       | Pass  |
| Air Permeance                               | ASTM 2178 per AC 38                         | 0.0002 L/s-m <sup>2</sup> @ 75 Pa<br>(No Air Leakage)   |



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**Installation**

For complete instructions refer to the detailed installation guide available at [www.srpcanada.ca](http://www.srpcanada.ca). SRP AirOutshield™ is installed under the primary wall cladding material with the printed side facing out. Install to form a continuous membrane over the entire wall area and to allow water to drain away from openings. Ensure there are no blockages that may obstruct the water flow. To optimize performance install a layer of ventilation mat or battens over the SRP AirOutshield™ prior to installing the primary cladding material.

**Precautions/Limitations**

AirOutshield™ is not recommended for use under asphalt shingles or in roofing.

**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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**Technical Assistance**

SRP Canada Inc. 1-866-533-0233,  
[www.srpcanada.ca](http://www.srpcanada.ca)

**Short Form Specification** (visit

[www.srpcanada.ca](http://www.srpcanada.ca) for detailed specification)

Breathable underlayment for rain screen wall systems: Triple layer, spun bonded polypropylene, breathable membrane with a nominal weight of 120 g/m<sup>2</sup>, nominal thickness of 0.58mm and water vapour transmission 150 perms as per ASTM E96-95. SRP AirOutshield™ Breathable Underlayment by SRP Canada, 1-866-533-0233, [www.srpcanada.ca](http://www.srpcanada.ca)