



Evaluation Report CCMC 13549-R

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SRP AirOutshield™

1. Opinion

It is the opinion of the Canadian Construction Materials Centre (CCMC) that “SRP AirOutshield™”, when used as a breather-type sheathing membrane in accordance with the conditions and limitations stated in Section 3 of this Report, complies with the National Building Code 2010:

- Clause 1.2.1.1.(1)(b), Division A, as an alternative solution that achieves at least the minimum level of performance required by Division B in the areas defined by the objectives and functional statements attributed to the following applicable acceptable solutions:
 - Article 9.27.3.2. Sheathing Membrane Material Standard

This opinion is based on CCMC's evaluation of the technical evidence in Section 4.1 provided by the Report Holder.

2. Description

The product is manufactured by thermally bonding two spun-bonded polypropylene fabrics with a microporous film between the two layers to form a breathable waterproof membrane.

The product is 0.5 mm thick and has a white inner face and a black exterior. It is available in rolls 1.50 m wide and 50 m long.

3. Conditions and Limitations

CCMC's compliance opinion in Section 1 is bound by the “SRP AirOutshield™” being used in accordance with the conditions and limitations set out below.

- The product must be installed with the printed side facing outward and must be protected from exposure to ultraviolet radiation from the sun within 60 days of its installation.
- The product must be installed with a minimum 10 mm air space between the sheathing membrane and the cladding, unless the cladding has been deemed not to require an air space (e.g. deemed by CCMC or deemed by building officials based on past cladding performance).

- When the product is used in applications where a concealed air space exceeds 25 mm in width, the concealed air space must contain proper fire stopping in accordance with Subsection 9.10.16., Fire Blocks, of Division B of the NBC 2010.
- The product must be installed according to Article 9.27.3.3. of Division B of the NBC 2010 and the manufacturer's instructions. If they differ, then the installation requirements of the NBC 2010 take precedence.

4. Technical Evidence

The Report Holder has submitted technical documentation for CCMC's evaluation. Testing was conducted at laboratories recognized by CCMC. The corresponding technical evidence for this product is summarized below.

4.1 Material Requirements

4.1.1 Test Results for Product Characterization

Table 4.1.1

Property	Unit	Requirement	Result
Sheet width (tolerance)	mm	≥ -6	Pass

4.2 Performance Requirements

4.2.1 Test Results for Performance Properties

Table 4.2.1

Property	Unit	Requirement	Result
Tensile strength	N/mm	≥ 3.5	4.79
Water vapour permeance ¹	ng/Pa·s·m ²	≥ 170	8923
Water ponding (original)	-	No leakage	Pass ²
Tensile strength (% retention of original) <ul style="list-style-type: none"> • after UV exposure • after UV exposure and heat aging 	%	≥ 90 ≥ 85	93.7 90.6
Water vapour permeance <ul style="list-style-type: none"> • after UV exposure and heat aging 	ng/Pa·s·m ²	≥ 170	10433
Water ponding <ul style="list-style-type: none"> • after UV exposure and heat aging 	-	No leakage	Pass ²

1. ASTM E 96/E 96M-10, "Water Vapor Transmission of Materials," (Desiccant Method).

2. The water ponding test requires that the membrane retain 25.4 mm of water with no water passing through the membrane for two hours.

Report Holder: SRP Canada Inc.
180 Montclair Ave.
Toronto, ON M5P 1P9
Tel: 1 866 533 0233

Plant(s): Bolton, England

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