Evaluation Report CCMC 13292-R
FlexGard Aspire™, PermaGuard™, PermaGard™, Dri-Shield™ II, Sure-Wrap, Xmark Housewrap, Grip-Rite® House-wrap, NovaWrap Aspire™

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1. Opinion

It is the opinion of the Canadian Construction Materials Centre (CCMC) that "FlexGard Aspire™, PermaGuard™, PermaGard™, Dri-Shield™ II, Sure-Wrap, Xmark Housewrap, Grip-Rite® Housewrap, Nova Wrap Aspire™", 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 (NBC) of Canada 2015:

- Clause 1.2.1.1.(1)(b) of 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 provided by the Report Holder.

Ruling No. 08-02-187 (13292-R) authorizing the use of this product in Ontario, subject to the terms and conditions contained in the Ruling, was made by the Minister of Municipal Affairs and Housing on 2008-01-18 (revised on 2011-12-13) pursuant to s.29(1)(a) of the *Building Code Act*, 1992 (see Ruling for terms and conditions). This Ruling is subject to periodic revisions and updates.

2. Description

The products consist of a spun-bonded, polypropylene non-woven fabric with a monolithic polymer coating on one side. The products resist the passage of water, but permit the passage of water vapour.

The products are 0.43 mm thick and are available in various colours including a standard teal. They are available in rolls ranging in widths from 0.91 m to 3.05 m and in lengths from 7.62 m to 2 800 m.

The rolled material is applied over the exterior sheathing material so that it forms a continuous envelope around the entire building. The material overlaps 75 mm to 150 mm at vertical joints and 100 mm at horizontal joints. Figure 1 illustrates the application of the product.

Figure 1. Installation of "FlexGard Aspire™, PermaGuard™, PermaGard™, Dri-Shield™ II, Sure-Wrap, Xmark Housewrap, Grip-Rite® Housewrap, Nova Wrap Aspire™."

3. Conditions and Limitations

CCMC's compliance opinion in Section 1 is bound by the "FlexGard Aspire™, PermaGuard™, PermaGard™, Dri-Shield™ II, Sure-Wrap, Xmark Housewrap, Grip-Rite® House-wrap, NovaWrap Aspire™," being used in accordance with the conditions and limitations set out below.

- The products can be used as a breather-type sheathing membrane under commonly used types of exterior cladding to reduce the risk of water infiltration. The main purpose of the products is to create a continuous envelope around the occupied areas of residential or light commercial construction. Such continuity is achieved by overlapping or sealing the product either to itself using CCMC-evaluated contractor sheathing tape, or to other construction materials using an acoustical sealant.
- A conforming installation must be:
    - installed with the printed side facing outward;
    - protected from exposure to ultraviolet (UV) radiation from the sun within 60 days;
    - installed according to Article 9.27.3.3., Required Sheathing Membrane and Installation, of Division B of the NBC 2015 and the manufacturer's current instructions;
    - installed with a minimum 10-mm air space between the sheathing membrane and the cladding, unless the cladding has been deemed to not require an air space (i.e., deemed by CCMC or by building officials based on past cladding performance); and
    - installed with the material overlapping 75 mm to 150 mm at vertical joints and 100 mm at horizontal joints. *Note: Joints must be taped and sealed around both window and door openings.*

- A concealed air space exceeding 25 mm in width must contain proper fire stopping in accordance with Subsection 9.10.16., Fire Blocks, of Division B of the NBC 2015.
- The product must be clearly identified with the phrase "CCMC 13292-R."

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 Performance Requirements

Table 4.1 Test Results of Performance Requirements

Property			Unit	Requirement	Result
Sheet width			–	Tolerance: –6 mm of specified width	Pass
Tensile strength		**machine direction**	N	> 180	244
		cross direction		> 160	214
Water vapour permeance			ng/(Pa·s·m^2)	> 170	362
Water ponding			–	No leakage	Pass[1]
Tensile strength	**after UV exposure**	**machine direction**	% retention of original	> 90	93
		cross direction		> 90	98
	after UV and heat aging	**machine direction**	% retention of original	≥ 85	85
		cross direction		> 85	91
Water vapour permeance of UV- and heat-aged samples			ng/(Pa·s·m^2)	> 170	497
Water ponding of UV- and heat-aged samples			–	No leakage	Pass[1]

Note to Table 4.1:

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

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