

ICC-ES Evaluation Report**ESR-2423**

Reissued September 1, 2011

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A Subsidiary of the International Code Council®

**DIVISION: 07 00 00 —THERMAL AND MOISTURE
PROTECTION**
**Section: 07 25 00—Water-Resistive Barriers/Weather
Barriers**

REPORT HOLDER:

INTERWRAP, INC.
32923 MISSION WAY
MISSION, BRITISH COLUMBIA V2V 6E4
CANADA
(604) 820-5400
www.interwrap.com

EVALUATION SUBJECT:

**MOISTURE MASTER™/SHIELD™ AND MOISTURE
MASTER™ ELITE**

1.0 EVALUATION SCOPE**Compliance with the following codes:**

- 2006 *International Building Code*® (IBC)
- 2006 *International Residential Code*® (IRC)

Property evaluated:

Physical properties

2.0 USES

Moisture Master™/Shield™ and Moisture Master™ Elite are used as water-resistive barriers on the exterior side of exterior walls of buildings of IBC Type V-B construction and any non-fire-resistance-rated IRC construction. The barriers comply with IBC Section 1404.2 and IRC Section R703.2 and are also considered equivalent to Grade D paper, as specified in IBC Section 2510.6 and IRC Section R703.6.3.

3.0 DESCRIPTION**3.1 Moisture Master™/Shield™:**

Moisture Master™/Shield™ is made of a woven polyolefin base scrim coated on one side with a polyolefin coating. The membrane is perforated and has a nominal thickness of 0.005 inch (0.127 mm) and a basis weights of 2.06 oz/yd² (70 g/m²). The membrane is available in rolls of varying sizes.

3.2 Moisture Master™ Elite™:

Moisture Master™ Elite is made of a nonwoven polyolefin base scrim and a vapor-permeable coating. The membrane is nonperforated and has a nominal thickness

of 0.008 inch (0.20 mm) and a basis weight of 2.9 oz/yd² (98 g/m²). The membrane is available in rolls of varying sizes.

4.0 INSTALLATION

Moisture Master™/Shield™ and Moisture Master™ Elite must be installed after wall framing is completed and before windows and doors are installed. The roll must be placed a minimum of 24 inches (610 mm) from the starting corner and fastened to framing with minimum No. 12 gage corrosion-resistant nails having plastic washer heads or No. 16 gage corrosion-resistant staples with minimum 1-inch (25.4 mm) crowns. The membrane is unrolled around the building and fastened with nails or staples spaced between 12 and 18 inches (305 to 457 mm) at each vertical stud line. A minimum overlap of 6 inches (152 mm) must be provided for both vertical and horizontal seams. When use is over wood-based sheathing in exterior plaster applications, the product must be applied over sheathing in accordance with IBC Section 2510.6 or IRC Section R703.6.3, as applicable. For cementitious exterior wall coatings or exterior insulation and finish systems, application must be in accordance with the ICC-ES evaluation report on the exterior coating. Flashing must be provided in accordance with the applicable code.

5.0 CONDITIONS OF USE

The Moisture Master™/Shield™ and Moisture Master™ Elite water-resistive barriers described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1** The installation complies with the applicable code, this report and the manufacturer's published installation instructions. In the event of a conflict between the manufacturer's published installation instructions and this report, this report governs.
- 5.2** The water-resistive barriers must be covered with an approved exterior wall covering complying with the applicable code.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Barriers (AC38), dated October 2009.

7.0 IDENTIFICATION

Each roll of Moisture Master™/Shield™ and Moisture Master™ Elite described in this report is marked with the manufacturer's name (Interwrap, Inc.) and address, product name, date of manufacture, traceability information and the evaluation report number (ESR-2423).