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ICC-ES Evaluation Report

ESR-3915

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This report is subject to renewal 04/2021.

DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
SECTION: 07 25 00—WATER-RESISTIVE BARRIERS/WEATHER BARRIERS

REPORT HOLDER:

GMX, INCORPORATED

EVALUATION SUBJECT:

AIR GUARD VPA WEATHER RESISTANT BARRIER SYSTEM



“2014 Recipient of Prestigious Western States Seismic Policy Council (WSSPC) Award in Excellence”



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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 25 00—Water-resistive Barriers/Weather Barriers

REPORT HOLDER:

GMX, INC.

EVALUATION SUBJECT:

AIR GUARD VPA WEATHER RESISTANT BARRIER SYSTEM

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

- 2015, 2012, 2009, and 2006 *International Building Code*® (IBC)
- 2015, 2012, 2009, and 2006 *International Residential Code*® (IRC)

Property evaluated:

- Water-resistive barrier

1.2 Evaluation to the following green code(s) and/or standards:

- 2016 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015, 2012 and 2008 ICC 700 *National Green Building Standard*™ (ICC 700-2015, ICC 700-2012 and ICC 700-2008)

Attributes verified:

- See Section 2.0

2.0 USES

Air Guard VPA weather resistant barrier system is used as an alternative to the water-resistive barrier on the exterior side of exterior walls of buildings of Type V-B construction and non-fire-resistance-rated construction permitted under the IRC. Air Guard VPA is an alternative to the water-resistive barrier specified in Section 1404.2 of the IBC and IRC Section R703.2 when installed over wood-based sheathing.

The attributes of the water-resistive barrier system have been verified as conforming to the provisions of (i) CALGreen Section 5.407.1 and (ii) ICC 700-2015 Section 602.1.8, 11.602.1.8 and 12.6.602.1.8; (iii) ICC 700-2012 Section 602.1.8, 11.602.1.8 and 12.5.602.1.8; and (iv) ICC 700-2008 Section 602.9 for water-resistive barriers. Note

that decisions on compliance for those areas rest with the user of this report. The user is advised of the project-specific provisions that may be contingent upon meeting specific conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

3.0 DESCRIPTION

3.1 General:

The Air Guard VPA weather resistant barrier system consists of a water-resistive coating, Air Guard VPA, and a joint fabric to treat the sheathing joints, Air Guard Joint Fabric.

3.1.1 Air Guard Joint Fabric: The fabric is polyester nonwoven fabric, with a minimum weight of 2.5 ounce per square yard (84.8 grams/m²), packaged in 6-inch-wide (152 mm), 15-mils-thick [0.015 inch (0.381 mm)] rolls.

3.1.2 Air Guard VPA: Air Guard VPA is a ready-mixed water based liquid coating packaged in 5-gallon (18.9 L) pails, 55-gallon (208 L) drums, and 275-gallon (1041 L) totes, having a one-year shelf life when stored off of the floor at temperatures between 50°F and 100°F (10°C and 37.7°C) and not in direct sunlight.

3.2 Substrates:

The use of Air Guard VPA is limited to applications over:

- Plywood, Exposure 1 exterior grade, complying with U.S. DOC PS-1
- Oriented Strand Board (OSB), Exposure 1, complying with U.S. DOC PS-2

3.3 Water Vapor Transmission:

The water vapor transmission value of Air Guard VPA, tested at an average wet-film thickness, including the joint fabric, of 0.040 inch (40 mils) in accordance with ASTM E96 (Water Method), is less than 126 g/m² per 24 hours but greater than 110 g/m² per 24 hours.

4.0 INSTALLATION

4.1 General:

When installed as a water-resistive barrier the manufacturer's published installation instructions and this report must be strictly adhered to. If requested by the code official, a copy of this report must be available at the jobsite during installation. In the event of a conflict between this report and the manufacturer's published installation instructions, this report governs.

4.2 Substrate Preparation:

Surface of substrate must be structurally sound, clean, dry and free of dust, sand, soil, frost or loose materials. Additionally, there must be no fins, metal projections or any substances that will prevent bonding of the membrane to the surface of the substrate. Air Guard VPA weather-resistant barrier system must be applied only when the surface and ambient temperatures are in accordance with the manufacturer's recommended procedures.

Air Guard VPA weather-resistant barrier system must not be installed on damp surfaces, below-grade surfaces, or on surfaces subject to water immersion. Damaged sheathing must be removed and replaced. Sheathing that must be installed are required by the applicable code.

4.3 Application:

The substrate must be prepared as described in Section 4.2. Sheathing joints are treated with a base coat of Air Guard VPA coating at minimum of 20 wet mils [0.020 inch (0.508 mm)] thick, followed by Air Guard Joint Fabric embedded within the Air Guard VPA base coat, covered by a saturation coat of Air Guard VPA at 20 wet mils [0.020 inch (0.508 mm)]. The remainder of the sheathing is then coated with Air Guard VPA coating at minimum 20 wet mils [0.020-inch (0.508 mm)] thickness. The coating may be applied by brush, roller (manual or power assisted) or spray. Air Guard VPA system must be covered with an approved exterior wall finish complying with the requirements of the applicable code or a current evaluation report.

5.0 CONDITIONS OF USE

The Air Guard VPA weather resistive barrier system described in this report complies with, or is a suitable alternative to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

5.1 Installation must comply with this report, the manufacturer's published instructions and the applicable code. In the event of a conflict between the

manufacturer's published installation instructions and this report, this report governs.

5.2 Air Guard VPA weather resistive barrier system is limited to installation on walls.

5.3 Air Guard VPA weather resistive barrier system must be covered with an exterior wall finish or covering complying with the applicable code or a current evaluation report.

5.4 Air Guard VPA weather resistive barrier system must not be used for repairing moving cracks, joints or cracks wider than $\frac{1}{8}$ inch (3 mm).

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive Coatings Used as Weather-resistive Barriers over Exterior Sheathing (AC212), dated February 2015 and February 2005 (editorially revised October 2008).

7.0 IDENTIFICATION

7.1 Packages of the Air Guard VPA weather resistive barrier system products described in this report must be identified by a label bearing the manufacturer's name (GMX Inc.) and address, product name, identification of components, lot or batch number, quantity of material in packaged date (when applicable) and the evaluation report number (ESR-3915).

7.2 The report holder's contact information is the following:

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