DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION  
Section: 07 25 00—Water-Resistive Barriers/Weather Barriers  
Section: 07 27 00—Air Barriers

REPORT HOLDER:  
MOMENTIVE PERFORMANCE MATERIALS

EVALUATION SUBJECT:  
GE ELEMAX 2600 AIR AND WATER RESISTIVE BARRIER

1.0 EVALUATION SCOPE

1.1 Compliance with the following codes:

Property evaluated:
- Physical properties
- Water resistance
- Air Leakage
- Surface burning characteristics

1.2 Evaluation to the following green code(s) and/or standards:
- 2019 California Green Building Standards Code (CALGreen), Title 24, Part 11
- 2015 and 2012 International Green Construction Code® (IgCC)

2.0 USES

GE Elemax 2600 Air and Water Barrier is used as an alternative to the water-resistive barrier specified in 2018 IBC Section 1403.2 (2015, 2012 and 2009 IBC Section 1404.2) and IRC Section R703.2 when installed over wood and gypsum-based sheathing.

GE Elemax 2600 Air and Water Resistive Barrier may be used to provide an air barrier material in accordance with IRC Section N1102.4.1 and 2018 and 2015 IECC Sections C402.5 and R402.4, 2012 IECC C402.4.1 and R402.4, and 2009 IECC Sections 402.4.1 and 502.4.

GE Elemax 2600 Air and Water Resistive Barrier installed as water-resistive barriers and air barrier materials are recognized for use on Types I, II, III, IV and V construction. For use as a water-resistive barrier in Types I, II, III and IV construction GE Elemax 2600 must be installed in accordance with Section 4.4 of this report.

3.0 DESCRIPTION

3.1 General:

GE Elemax 2600 Air and Water Resistive Barrier is a silicone-based, factory-mixed, liquid-applied, water-resistive barrier that is applied to substrates described in Section 3.2. The product is packed in 5-gallon (18.9 L) pails or 55-gallon (208 L) drums. The products have a shelf life of 18 months from the date of manufacture when stored below 109°F (43°C). Unheated storage in cold temperatures is acceptable. GE Elemax 2600 Air and Water Resistive Barrier has a flame-spread index and smoke-developed index of less than 25 and 450, respectively, when tested in accordance with ASTM E84.

The attributes of the GE Elemax 2600 Air and Water Resistive Barrier have been verified as conforming to the requirements of (i) CALGreen Section 5.407.1 for water-resistive barriers and Section A4.407.5 for air barriers; (ii) 2015 and 2012 IgCC Section 605.1.2.1 for air barriers; (iii) 2014 ASHRAE 189.1 Section 7.3.1.1 and 2011 ASHRAE 189.1 Section 7.4.2.9 for air barriers; (iv) ICC 700-2015 Section 602.1.8, 11.602.1.8 and 12.6.602.1.8; (v) ICC 700-2012 Section 602.1.8, 11.602.1.8 and 12.5.602.1.8; and (vi) 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 conditions, and the verification of those conditions is outside the scope of this report. These codes or standards often provide supplemental information as guidance.

3.2 Exterior Sheathing or Substrate:

GE Elemax 2600 Air and Water Resistive Barrier is limited to use with the following sheathings or substrates:
- Glass mat faced gypsum recognized in a current evaluation report as complying with ASTM C1177
3.2.1 Joints: Joints of all substrates and sheathings shall be flashed with GE Elemax 5000 and/or GE RF100 reinforcing fabric. Installation of Elemax 5000 liquid flashing and RF100 reinforcing fabric shall be in accordance the manufacturer’s recommended installation instructions and as described in Section 4.2.

GE Elemax 5000 is a non-sag 100% silicone sealant for joints, seams, gaps, flashing and for adhering transition materials.

GE RF100 reinforcing fabric is a 100% polyester spun-laced reinforcing fabric used to treat rough openings, penetrations, corners, flashing, transition, changes in plane and joints. GE RF100 reinforcing fabric can be used to span static gaps up to 1/16-inch (13 mm) wide. It is available in 100 foot (30.5 m) long rolls in standard widths of 4 inches (102 mm), 6 inches (152 mm) and 12 inches (305 mm). Additional widths are available upon request.

3.3 Air Permeance:
When installed in accordance with Section 4.2 and tested in accordance with ASTM E2178, the Elemax 2600 has an air leakage rate of less than 0.02 L/(sm²) @ 74 Pa [0.004 cfm/ft² @ 0.3 inch w.g. (1.57 psf)].

3.4 Water Vapor Transmission:
The Water Method water vapor transmission (WVT) values as determined in accordance with ASTM E96 (wet cup procedure) are 69.9 g/m² per 24 hours (10.2 perm) for 17 mil dry film thickness layer of Elemax 2600. The Desiccant Method water vapor transmission (WVT) values as determined in accordance with ASTM E96 (dry cup procedure) are 54 g/m² per 24 hours (7.9 perm) for 17 mil dry film thickness layer of Elemax 2600.

4.0 DESIGN AND INSTALLATION

4.1 General:
Installation of GE Elemax 2600 Air and Water Resistive Barrier must comply with this report and the manufacturer’s published installation instructions. The manufacturer’s published installation instructions must be available at the jobsite at all times during installation.

4.2 Installation:
GE Elemax 2600 shall be applied with a brush, roller, power roller or spraying on the exterior side of undamaged wall substrates at a rate of approximately 80 square feet per gallon, and can be done with a single coat. An application rate of 80 square feet per gallon equates to an approximate 19 mil [0.019 inch (0.48 mm)] wet film thickness and a subsequent 17 mil [0.017 inch (0.43 mm)] dry film thickness.

Curing and tack-free condition of the product varies with temperature and humidity. Under basic conditions [72°F (22°C) and 50 percent relative humidity] the product exhibits a tack-free surface 1-2 hours after installation and full cure overnight.

Before application of Elemax 2600 coating, at joints in the sheathing, apply a 1 1/2-inch (38 mm) wide by 20 to 40 mil [0.02 inch (0.5 mm) to 0.04 inch (1.0 mm)] thick layer of GE Elemax 5000 liquid flashing centered on the joints. As an alternate to the GE Elemax 5000, apply a 10 mil [0.010 inch (0.25 mm)] thick coat of GE Elemax 2600 over the joint. While the GE Elemax 2600 coat is still wet, set GE RF100 Reinforcing Fabric into the GE Elemax 2600 centered over the joint. Immediately apply a second 10 mil [0.010 inch (0.25 mm)] thick coat of GE Elemax 2600 over the GE RF100 Reinforcing Fabric.

Properly driven screw heads shall be covered with GE Elemax 2600 when uniformly applied at system film thickness. Under or over-driven screw heads must be treated with a troweled application of Elemax 5000 Liquid Flashing or an additional coat of GE Elemax 2600.

4.3 Fire and Heat Characteristics:
GE Elemax 2600 has a Class A (flame-spread index of 25 or less and smoke-developed index of 450 or less) fire classification when tested in accordance with ASTM E84.

GE Elemax 2600 has a peak heat release rate of 52.7 kW/m², a total heat release of 7.6 MJ/m² and an effective heat of combustion of 4.6 MJ/kg when tested in accordance with ASTM E1354.

4.4 Use on Exterior Walls in Types I, II, III and IV Construction:

4.4.1 Walls 40 feet or less above grade:
2018 and 2015 IBC: GE Elemax 2600 can be used in Types I, II, III and IV construction in wall heights less than 40 feet (12.2 m), and walls of any height when it is the only combustible component within the wall assembly in accordance with IBC Section 1403.5, Exception 1 or 2.

2012 IBC: GE Elemax 2600 can be used in Types I, II, III and IV construction for building walls that are less than or equal to 40 feet (12.2 m) in height above grade as indicated in 2012 IBC Section 1403.5.

2009 IBC: GE Elemax 2600 can be used in Types I, II, III and IV construction for any building height permitted by code.

4.4.2 Walls greater than 40 feet in height above grade: When used in exterior walls of Types I, II, III and IV construction that are greater than 40 feet (12.2m) and installed in accordance with this report, the assemblies shown in Table 1 of this report comply with NFPA 285.

5.0 CONDITIONS OF USE
The GE Elemax 2600 Air and Water Barrier 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 installation 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 Substrates shall be free from bond inhibiting materials such as frost, moisture, oil, grease, debris or dirt.

5.3 GE Elemax 2600 shall not be applied when the temperature is below 0°F (-18°C) or above 150°F (65°C).

5.4 Application of this product is limited to the substrates listed in Section 3.2.

5.5 GE Elemax 2600 Air and Barrier system is recognized for above-grade wall applications. The system shall not be utilized in below-grade applications.
5.6 The GE Elemax 2600 Air and Barrier system must not be used for repairing moving cracks, joints or cracks wider than 1/8-inch (3.2 mm).

5.7 The system shall not be applied when it is raining or when inclement weather is imminent or likely within 2 hours.

5.8 The barriers must be covered with an exterior wall covering complying with the applicable building code or a current evaluation report.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Water-resistive coatings Used as Water resistive Barriers over Exterior Sheathing (AC212), dated April 2018.

6.2 Report containing results of testing in accordance with ASTM E84, ASTM E1354, NFPA 285 and ASTM E2178.

<table>
<thead>
<tr>
<th>TABLE 1—ASSEMBLIES FOR USE IN TYPES I, II, III AND IV CONSTRUCTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASSEMBLY 1&lt;sup&gt;7&lt;/sup&gt;</td>
</tr>
<tr>
<td>WALL COMPONENT</td>
</tr>
<tr>
<td>-----------------------</td>
</tr>
<tr>
<td>Interior Sheathing&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Steel Framing</td>
</tr>
<tr>
<td>Water Resistant Barrier and Exterior Sheathing&lt;sup&gt;1,9&lt;/sup&gt;</td>
</tr>
<tr>
<td>Insulation&lt;sup&gt;3,8&lt;/sup&gt;</td>
</tr>
<tr>
<td>Air Gap</td>
</tr>
<tr>
<td>Cladding&lt;sup&gt;3&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>ASSEMBLY 2&lt;sup&gt;8&lt;/sup&gt;</th>
</tr>
</thead>
<tbody>
<tr>
<td>WALL COMPONENT</td>
</tr>
<tr>
<td>-----------------------</td>
</tr>
<tr>
<td>Interior Sheathing&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Steel Framing&lt;sup&gt;6&lt;/sup&gt;</td>
</tr>
<tr>
<td>Water Resistant Barrier and Exterior Sheathing&lt;sup&gt;1,9&lt;/sup&gt;</td>
</tr>
<tr>
<td>Insulation&lt;sup&gt;2&lt;/sup&gt;</td>
</tr>
<tr>
<td>Air Gap</td>
</tr>
<tr>
<td>Cladding&lt;sup&gt;4&lt;/sup&gt;</td>
</tr>
</tbody>
</table>

<sup>1</sup> Sheathing is attached to wall framing with #6 x 1 1/4-inch long flat head screws spaced at 8 inches on center around the perimeter of the board and 12 inches on center within the field. All screw heads to be treated with joint compound. All joints to be treated with paper tape and joint compound. Shaping shall be oriented perpendicular to the wall framing.

<sup>2</sup> Rigid insulation will be attached with #10 x 5 1/2-inch long self-drilling screws with a 1 1/4-inch diameter grip-plate plastic washer.

<sup>3</sup> Brick cladding shall be attached to the wall assembly with 4 1/2-inch long 2-2 Seal™ Thermal Concrete Wing Nut Anchors by Hohmann & Barnard, Inc., at every stud location at intervals of 16 inches.

<sup>4</sup> Swisspearl<sup>®</sup> panels are to be attached to 4-inch deep galvanized steel hat channels or Z-Sections with steel rivets with an 18 mm mandrel and 15 mm diameter cap spaced at 24-inches vertically and 16-inches horizontally. Hat channels and Z-Sections shall be attached through the exterior sheathing to each stud with 1/4-inch diameter by 1 1/2-inch long self-drilling screws.

<sup>5</sup> 4-inch thick Thermafiber<sup>®</sup> mineral wool (4 pcf density) is to be secured at each floor line with the stud cavity using manufacturer recommended clips.

<sup>6</sup> (Optional) Stud cavity may be filled with un-faced fiberglass blanket insulation.

<sup>7</sup> Johns-Manville MinWool<sup>®</sup> Saling (4 pcf density) is to be friction fitted into stud cavities at all floor lines.

<sup>8</sup> (Optional) After installation is complete, the exterior sheathing shall be coated with GE Elemax 2600 Air and Water Resistant Barrier at a nominal rate of 19 wet mils.

<sup>9</sup> Joints shall be constructed in accordance with Section 3.2.1 of this report.
REPORT PURPOSE AND SCOPE

Purpose:
The purpose of this evaluation report supplement is to indicate that GE Elemax 2600 Air and Water Barrier, recognized in ICC-ES evaluation report ESR-3983, has also been evaluated for compliance with the codes noted below.

Applicable code edition(s):
- 2019 California Building Code (CBC)
For evaluation of applicable chapters adopted by the California Office of Statewide Health Planning and Development (OSHPD) and Division of State Architect (DSA), see Sections 2.1.1 and 2.1.2 below.
- 2019 California Residential Code (CRC)
- 2019 California Energy Code (CEC)

2.0 CONCLUSIONS

2.1 CBC:
The GE Elemax 2600 Air and Water Resistive Barrier, described in Sections 2.0 through 7.0 of the evaluation report ESR-3983, complies with CBC Chapters 7 and 14, provided the design and installation are in accordance with the 2018 International Building Code® (IBC) provisions noted in the evaluation report and the additional requirements of CBC Chapter 25, as applicable.

The GE Elemax 2600 Air and Water Resistive Barrier has not been evaluated under Chapter 7A for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Fire Area.

The GE Elemax 2600 Air and Water Resistive Barrier recognized in this supplement has not been evaluated for compliance with the International Wildland–Urban Interface Code®.

2.1.1 OSHPD:
The applicable OSHPD Sections of the CBC are beyond the scope of this supplement.

2.1.2 DSA:
The applicable DSA Sections of the CBC are beyond the scope of this supplement.

2.2 CRC:
The GE Elemax 2600 Air and Water Resistive Barrier, described in Sections 2.0 through 7.0 of the evaluation report ESR-3983, complies with CRC Chapter 7, provided the design and installation are in accordance with the 2018 International Residential Code® (IRC) provisions noted in the evaluation report. Use as an air barrier must be in accordance with the CEC.
The GE Elemax 2600 Air and Water Resistive Barrier has not been evaluated under CRC Section R337 for use in the exterior design and construction of new buildings located in a Fire Hazard Severity Zone within State Responsibility Areas or any Wildland–Urban Interface Fire Area.

The GE Elemax 2600 Air and Water Resistive Barrier recognized in this supplement has not been evaluated for compliance with the International Wildland–Urban Interface Code®.

This supplement expires concurrently with the evaluation report, reissued June 2020.