3.0 DESCRIPTION

3.1 General:
MiraTEC® Treated Exterior Composite Trim is a wood composite containing zinc borate at a minimum level of 0.75% (w/w). MiraTEC® Treated Exterior Composite Trim is recognized for use in aboveground applications (UC3A) and resists attack by fungal decay and subterranean termites, including Formosan termites.

The attributes of the composite trim have been verified as conforming to the requirements of (i) CALGreen Section A4.405.1.1 for prefinished building materials and Section A5.406.1.2 for reduced maintenance; (ii) ICC 700-2015 and ICC 700-2012 Sections 602.1.6 and 11.602.1.6 for termite-resistant materials and Sections 601.7, 11.601.7, and 12.1(A).601.7 for site-applied finishing materials; and (iii) ICC 700-2008 Section 602.8 for termite-resistant materials and Section 601.7 for site-applied finishing materials. 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.

3.2 Material:
The material is formed by blending a zinc borate slurry with hardwood fibers and then laying down a continuous mat. The mat is hot pressed to form boards which are then cut to size and primed.

MiraTEC® Treated Exterior Composite Trim is available in widths of nominal 2-inch trim [actual size 2 inches (51 mm)], nominal 3-inch trim [actual size 2.75 inches (70 mm)], nominal 4-inch trim [actual size 3.5 inches (89 mm)], nominal 5-inch trim [actual size 4.5 inches (114 mm)], nominal 6-inch trim [actual size 5.5 inches (140 mm)], nominal 8-inch trim [actual size 7.25 inches (184 mm)], nominal 10-inch trim [actual size 9.25 inches (235 mm)], nominal 12-inch trim [actual size 11.25 inches (286 mm)], and nominal 16-inch trim [actual size 15.5 inches (394 mm)] and in thicknesses of 5/8 inch [actual thickness 0.625 inch (16 mm)], 4/4 [actual thickness 0.75 inches (19 mm)], 5/4 [actual thickness 1.0 inch (25 mm)], and 1 1/4 inch [actual thickness 1.25 inches (32 mm)].

4.0 DESIGN AND INSTALLATION

4.1 General:
MiraTEC® Treated Exterior Composite Trim is installed in accordance with the manufacturer’s published installation
instructions and this report. The manufacturer’s published installation instructions and this report must be strictly adhered to, and a copy of the instructions must be available at all times on the job site during installation. The instructions within this report must govern if there are any conflicts between the manufacturer’s published installation instructions and this report.

4.2 Fasteners:
Fasteners used with MiraTEC® Treated Exterior Composite Trim must be hot-dipped zinc-coated galvanized steel or other corrosion-resistant fasteners in accordance with Section 2304.10.5 of the IBC (Section 2304.9.5 of the 2012 and 2009 IBC) and Section R317.3 of the IRC. Nails are 6d, 8d or 15 gauge finish nails or headed nails long enough to penetrate solid wood substrates a minimum of 1 1/4 inches (32 mm). The fasteners are spaced at 16 inches (406 mm) and 24 inches (610 mm) on center. When used for fascia applications, the fasteners are spaced 24 inches (609.6 mm) on center.

4.3 Structural:
Maximum allowable transverse wind loads for MiraTEC® Treated Exterior Composite Trim with thicknesses of nominal 1.0 inch [actual thickness 1.0 inch (25 mm)] and nominal 1 1/4 inch [actual thickness 1.25 inches (32 mm)] and widths of nominal 2-inch trim [actual size 2 inches (51 mm)] up to nominal 16-inch trim [actual size 15.5 inches (394 mm)] are as noted in Table 1.

5.0 CONDITIONS OF USE
The MiraTEC® Treated Exterior Composite Trim 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 This evaluation report and the manufacturer’s published installation instructions, when required by the code official, must be submitted at the time of permit application.

5.2 The trim must be manufactured, identified and installed in accordance with this report and the Jeld-Wen, Inc., instructions.

5.3 The product must be limited to the following construction types:
- Nonload-bearing exterior trim on buildings of Type VB construction under the IBC.
- Combustible architectural trim on exterior walls of buildings of Type I, II, III and IV construction under the IBC. The buildings are limited to 40 feet (12.2 m) in height above grade. The trim must be backed by noncombustible material (Section 1405.5 of the IBC).
- All buildings permitted under the IRC.

5.4 The product must be installed over solid backing material, such as approved exterior sheathing covered with an approved water-resistant barrier or approved exterior wall covering.

5.5 MiraTEC® Treated Exterior Composite Trim is manufactured at the Jeld-Wen, Inc., facility in Towanda, Pennsylvania, under a quality-control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED
Data in accordance with the ICC-ES Acceptance Criteria for Wood-based Exterior Composite Trim Treated with Zinc Borate (ZB) Preservative by a Non-pressure Process (AC424), dated October 2010 (editorially revised January 2016).

7.0 IDENTIFICATION
7.1 Each package of MiraTEC® Treated Exterior Composite Trim described in this report must be labeled with the Jeld-Wen, Inc., name, address and telephone number; the product trade name; and the evaluation report number (ESR-3043).

7.2 The report holder’s contact information is the following:
JELD-WEN, INC.
3737 LAKEPORT BOULEVARD
KLAMATH FALLS, OREGON 97601
(541) 882-3451
www.jeld-wen.com
www.miratectrim.com

8.0 OTHER CODES
In addition to the codes referenced in Section 1.0, the products described in this report were evaluated for compliance with the requirements of the following codes:
- 2006, 2003 and 2000 International Residential Code® (IRC)
- 1997 Uniform Building Code™ (UBC)
- BOCA® National Building Code/1999 (BNBC)
- 1999 Standard Building Code® (SBC)
- 1998 International One- and Two-Family Dwelling Code® (IOTFDC)

The MiraTEC® Treated Exterior Composite Trim described in this report complies with, or is a suitable alternative to what is specified in, the codes listed above, subject to the provisions of Sections 8.1 through 8.6.

8.1 Uses:
See Section 2.0.

8.2 Description:
See Section 3.0.

8.3 Installation:
See Section 4.0, except for the following modifications:
Fasteners used with MiraTEC® Treated Exterior Composite Trim must be hot-dipped zinc-coated galvanized steel or other corrosion-resistant fasteners in accordance with Section 2304.10.5 of the 2006, 2003 and 2000 IBC; Section R319.3 of the 2006 and 2003 IRC; Section R323.3 of the 2000 IRC; Section 2306.3 of the SBC; Section 2311.3.3 of the BNBC; and Section 2304.3 of the UBC.

8.4 Conditions of Use:
See Section 5.0, except for the following modifications:
The product must be limited to the following construction types:
- Nonload-bearing exterior trim on buildings of combustible nonfire-resistance-rated construction, Type 5B of the BNBC, Type VI unprotected of the SBC, and Type VN of the UBC.
- Combustible architectural trim on exterior walls of buildings of Type 3 and 4 of the BNBC, Types I, II and IV of the SBC and Types I, II, IV of the UBC. Buildings are limited to 40 feet (12.2 m) in height above
grade [15 feet (4.6 m) for the UBC]. The trim must be backed by noncombustible material.

- All buildings permitted under the IOTFDC.

8.5 Evidence Submitted:

See Section 6.0.

8.6 Identification:

See Section 7.0.

### TABLE 1—MiraTEC® TREATED EXTERIOR COMPOSITE TRIM - MAXIMUM ALLOWABLE TRANSVERSE WIND LOADS FOR 1.0-INCH-THICK TRIM and 1 ¼-INCH-THICK SECURED USING 8d COMMON NAILS

<table>
<thead>
<tr>
<th>TRIM WIDTH (inches)</th>
<th>NUMBER OF FASTENERS</th>
<th>FASTENER SPACING (inches)</th>
<th>MAXIMUM ALLOWABLE LOAD² (psf)</th>
<th>MAXIMUM WIND SPEED³ (2015 IBC)</th>
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<tr>
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<td>Wind Exposure Category</td>
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<td></td>
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</tbody>
</table>

For SI: 1 inch = 25.4 mm, 1 psf = 47.88 Pa, 1 mph = 1.6 km/h.

¹Fasteners must have minimum head diameter of 0.28 inch, a minimum shaft diameter of 0.13 inch, and a minimum length of 2.5 inches (8d common nail).

²Wall framing must have minimum specific gravity of 0.42.

³Three-second-gust; based on a building height of 40 feet and an importance factor of 1.0 in accordance with ASCE 7-10, Section 6.4.2.2.
REPORT PURPOSE AND SCOPE

Purpose:
The purpose of this evaluation report supplement is to indicate that MiraTEC® Treated Exterior Composite Trim, described in Sections 2.0 through 7.0 of the evaluation report ESR-3043, has also been evaluated for compliance with the codes noted below.

Applicable code editions:
- 2014 Florida Building Code—Building
- 2014 Florida Building Code—Residential

1.0 CONCLUSIONS

The MiraTEC® Treated Exterior Composite Trim, described in Sections 2.0 through 7.0 of the evaluation report ESR-3043, complies with the Florida Building Code—Building and Florida Building Code—Residential, provided the design and installation are in accordance with the 2012 International Building Code® (IBC) provisions noted in the evaluation report with the following additional provisions:

1. Figure R301.2(4) of the Florida Building Code—Residential or Figure 1609 of the Florida Building Code—Building, as applicable, must be used to establish required design wind speed.
2. Installation must comply with Section R318.7 of the Florida Building Code—Residential or Section 1403.8 of the Florida Building Code—Building, as applicable.
3. Use of MiraTEC® Treated Exterior Composite Trim in soffit applications under the Florida Building Code—Building is outside the scope of this supplemental report.

Use of the MiraTEC® Treated Exterior Composite Trim for compliance with the High-Velocity Hurricane Zone provisions of the Florida Building Code—Building and Florida Building Code—Residential has not been evaluated, and is outside the scope of this supplemental report.

For products falling under Florida Rule 9N-3, verification that the report holder’s quality assurance program is audited by a quality assurance entity approved by the Florida Building Commission for the type of inspections being conducted is the responsibility of an approved validation entity (or the code official when the report holder does not possess an approval by the Commission).

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