DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
SECTION: 07 46 00—SIDING

REPORT HOLDER:
BORAL COMPOSITES, INC.
200 MANSELL COURT EAST, SUITE 305
ROSWELL, GEORGIA 30076

EVALUATION SUBJECT:
BORAL TRUEXTERIOR® SIDING

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION

Section: 07 46 00—Siding

REPORT HOLDER:

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ROSWELL, GEORGIA 30076
(770) 645-4500
www.BoralTruExterior.com

EVALUATION SUBJECT:

BORAL TRUEXTERIOR™ SIDING

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2012 International Building Code® (IBC)
- 2012 International Residential Code® (IRC)

Property evaluated:

- Exterior Wall Covering
- Structural
- Durability
- Surface-burning characteristics

2.0 USES

Boral TruExterior™ Siding is intended for use as an exterior wall cladding in Type V-B construction (IBC) and nonfire-resistance-rated construction under the IRC.

3.0 DESCRIPTION

Boral TruExterior™ Siding consists of a mixture of fly ash and glass fiber in a matrix of polymer which is formed into a board, cut into 16-foot long pieces and coated with a water-based primer. The siding has a 70-percent pre-consumer recycled content. The product is approximately 3/4-inch thick and is available in nominal widths of 6, 8 and 10 inches (152, 203 and 254 mm) and in various profiles. (See Figure 1) Boral TruExterior™ Siding has a flame-spread index of 35 or less and a smoke-developed index of 450 or less when tested in accordance with ASTM E84.

4.0 DESIGN AND INSTALLATION

4.1 Design:

Fastening must be in accordance with Section 4.2 and Table 1 to withstand the tabulated allowable negative wind pressures. The maximum wind pressure resistance for positive or negative transverse load resistance of Boral TruExterior™ Siding is applicable for each profile shown in Figure 1. The allowable wind pressures for the products shown in Table 1 must exceed the design wind pressures determined in accordance with IBC Chapter 16 or IRC Section R301.2.1.1, as applicable.

4.2 Installation:

Installation must comply with the manufacturer’s published installation instructions, the applicable code and this report. A copy of this report and the manufacturer’s published installation instructions must be available at all times on the jobsite during installation.

Boral TruExterior™ Siding must be installed on wood framing members spaced not more than 24 inches (406 mm) on center on minimum 2-by-4 studs. The framing members must have a minimum specific gravity of 0.42. The siding joints must occur over framing. The siding must be installed using the fasteners described in Table 1. Fasteners must be located at each stud with one fastener being placed in the concealed tongue at the lap joint and the other being located approximately 2 inches from the bottom edge of the siding.

5.0 CONDITIONS OF USE

The Boral TruExterior™ Siding, 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 All windows, doors and other exterior openings must be flashed in accordance with the applicable code. Horizontal joints between siding panels must be flashed and sealed in accordance with the manufacturer’s instructions.

5.3 The sidings must be installed over a water-resistive barrier in accordance with the applicable code.

5.4 The siding must be installed only on exterior walls covered by wood structural panel sheathing capable of supporting imposed loads including but not limited to positive and negative transverse wind loads.

5.5 TruExterior™ Siding must be installed on exterior walls braced in accordance with the applicable code.
5.6 TruExterior™ Siding products are produced in East Spencer, North Carolina under a quality-control program with inspections by ICC-ES.

6.0 EVIDENCE SUBMITTED

6.1 Reports of testing of flexural strength and flexural modulus of rupture in accordance with ASTM D6109.

6.2 Report of testing for density in accordance with ASTM D6109, Test Method A.

6.3 Report of testing for Linear Coefficient of Thermal Expansion in accordance with ASTM D6341.


6.5 Report of testing to Impact Resistance in accordance with ASTM D1037, Section 21.

6.6 Report of testing to water absorption in accordance with ASTM C1189, Section 9.

6.7 Transverse load tests in accordance with ASTM D1037.

6.8 Fastener pull-through tests in accordance with ASTM D1037.

6.9 Analysis of structural tests.

6.10 Report of surface burning testing in accordance with ASTM E84.

7.0 IDENTIFICATION

The Boral TruExterior™ Siding boards are labeled with the manufacturer’s name and address, the product name, thickness, product traceability code and the evaluation report number (ESR-3597).

<table>
<thead>
<tr>
<th>TABLE 1—ALLOWABLE WIND PRESSURES</th>
</tr>
</thead>
<tbody>
<tr>
<td>FASTENER DESCRIPTION</td>
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<tr>
<td>------------------------</td>
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<tr>
<td>8d Stainless Steel ring shank nail (2(\frac{1}{2})-inch long, 0.092-inch shank (13 ga), 0.208-inch round head (hand driven))</td>
</tr>
<tr>
<td>8d Hot dipped galvanized ring shank nail (2(\frac{1}{2})-inch long, 0.113-inch shank, 0.286-inch round head (pneumatically driven))</td>
</tr>
<tr>
<td>6d Hot dipped galvanized ring shank nail (2-inch long, 0.113-inch shank, 0.286-inch round head (pneumatically driven))</td>
</tr>
</tbody>
</table>

For SI: 1 inch = 25.4 mm, 1 psf = 0.0479 kPa.

NOTES:

1. The wind pressures are based on a maximum exposure of 9.5 inches.

2. The minimum specific gravity of framing is required to be 0.42.

3. Minimum embedment assumes installation of the fastener through the \(\frac{3}{4}\)-inch siding and maximum \(\frac{1}{2}\)-inch-thick sheathing that provides no additional nail holding strength and into framing.

CHANNEL

FIGURE 1—SIDING PROFILES
FIGURE 1—SIDING PROFILES (Continued)
FIGURE 1—SIDING PROFILES (Continued)