



ICC Evaluation Service, Inc.
www.icc-es.org

Business/Regional Office ■ 5360 Workman Mill Road, Whittier, California 90601 ■ (562) 699-0543
Regional Office ■ 900 Montclair Road, Suite A, Birmingham, Alabama 35213 ■ (205) 599-9800
Regional Office ■ 4051 West Flossmoor Road, Country Club Hills, Illinois 60478 ■ (708) 799-2305

Legacy Report on the 2000 International Building Code® with 2002 Accumulative Supplement, the 2000 International Residential Code™ with 2002 Accumulative Supplement, the BOCA® National Building Code/1999, the 1999 Standard Building Code®, the 1997 Uniform Building Code™, and the International One and Two Family Dwelling Code™ 1998

Correct Building Products, LLC
15 Morin Street
Biddeford, ME 04005
(207) 284-5600
www.correctdeck.com

Division 06 – Wood and Plastic
Section 06500 – Structural Plastic

1.0 SUBJECT

CorrectDeck ®

2.0 PROPERTY FOR WHICH EVALUATION IS SOUGHT

- 2.1 Structural Performance
2.2 Durability
2.3 Ignitability Characteristics

3.0 DESCRIPTION

3.1 General

CorrectDeck ® is an alternate to preservative-treated or naturally durable lumber for use as a flooring or nonstructural trim component for exterior balconies, porches, decks and other walking surfaces of combustible construction. CorrectDeck ® boards are designated as nominal 5/4 x 6 inch (31.75 x 152mm).

CorrectDeck ® is a manufactured composite material that consists of approximately 60% wood fibers and 40% polypropylene. The wood thermoplastic composite material is manufactured by an extrusion molding process to produce comparable lumber-sized boards and come in four colors, Coastal Grey, Cedar, Acadia, and Mahogany.

3.2 Load

CorrectDeck ® has been tested and evaluated to meet a design load of 100 psf with both weathering and temperatures to 130°F taken into consideration. Any loads higher than 100 psf are outside the scope of this report. The before mentioned statements require CorrectDeck boards to span a minimum of three (3) support joists.

CorrectDeck ® has been tested and evaluated to meet the 300 pound concentrated load test for stair treads. The treads were tested using 16 inch spans. Spans larger than 16 inches are outside the scope of this report.

3.3 Fasteners

Minimum fastener spacing shall be 1/2 inch (12.7mm) from the end of board and 1 inch (25.4mm) from the side of the board. CorrectDeck ® shall be fastened with non-galvanized, corrosive resistant decking screws having a minimum diameter of #8 to a minimum depth of 1 inches (25.4 mm) into joist. All boards should be predrilled prior to installation of fasteners.

3.4 Ignitability Characteristics

The ignitability characteristics of CorrectDeck ® were tested in accordance with ASTM D6662 Section 6.4. After the 20 minute test, the decking did not show any sign of deck surface ignition.

3.5 Durability

The CorrectDeck ® material is equivalent in durability to preservative-treated or naturally durable lumber when subjected to weathering, insect attack, and other decaying elements. As such, it is permitted to be used as an alternative to preservative-treated or naturally durable lumber on decks. Additionally, it is permitted to be used in direct contact with the ground.

3.6 Coefficient of Friction

CorrectDeck ® wood thermoplastic composite lumber was tested in accordance with ASTM C1028. CorrectDeck ® wood thermoplastic composite lumber has been determined to have a static coefficient of friction range of 0.77 to 0.80 in the dry condition and coefficient of friction range of 0.72 to 0.77 when tested wet.

The appropriateness of the determined static coefficient of friction, with respect to the requirement for slip-resistance in the applicable code, is subject to the specific approval of the code official.

4.0 INSTALLATION

Installation of CorrectDeck ® consists of decking boards secured in accordance with the manufacturer's published installation instructions entitled the CorrectDeck® Installation Manual, dated December, 2002, and this report.

CorrectDeck ® shall be installed with fasteners as specified in the CorrectDeck ® Installation Manual, dated December, 2002, and this report. Where the manufacturer's published

ICC-ES legacy reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this report, or as to any product covered by the report.



installation instructions differ from this report, this report shall be null and void.

## 5.0 IDENTIFICATION

CorrectDeck ® shall be permanently identified with the manufacturer's name and address, the product name, manufacturing location, the name or logo of the third party inspection agency (RADCO), and this ICC-ES Legacy report number.

## 6.0 EVIDENCE SUBMITTED

- 6.1 Manufacturer's brochure and installation manual, dated December, 2002.
- 6.2 Manufacturer's Quality Control Manual, dated June, 2003.
- 6.3 Test report titled, "Test Program Conducted to Evaluate The Relevant Properties of CorrectDeck for its Intended End Use Condition", prepared by RADCO, Report No. RAD-3040, dated June 2002, signed by Brian L. Harper and Michael L. Ziemann. The report contained the following test.
- Stair Tread Load per IBC Table 1607.1, footnote f;
  - 24 Hour Load and recovery test per BOCA National Building Code Section 1710.3;
  - Positive Uniform Load Test per Modified ASTM E72-98;
  - Negative Uniform (Wind Uplift) Load Test Per Modified ASTM E72-98;
  - Accelerated Weathering Testing Per ASTM G53-96;
  - Flexural Strength Testing (on Control, Post-Accelerated Weathering and Elevated Temperature Specimens) per ASTM D790-99;
  - Low Temperature Impact Resistance Test (-30°F) per ASTM D4226-00;
  - Coefficient of Linear Thermal Expansion Test per ASTM D696-98;
  - Static Coefficient of Friction Test per ASTM C1028-96;
  - Decay Resistance/Susceptibility Test per ASTM D1413-99;
  - Water Absorption Test per ASTM D1037-96a;
  - Assessment of Ignitability Test per ASTM D6662-01.
- 6.4 Test report titled, "Negative Uniform (Wind Uplift) Load & Flexural Strength Tests", prepared by RADCO, Report No. RAD-3205, dated December 2002, signed by Sanjay Mishra and Michael L. Ziemann, P.E..
- 6.5 Test report titled, "Load & Fastener Tests on CorrectDeck Extruded Wood Thermoplastic Composite Lumber (WTCL)", prepared by RADCO, Report No. RAD-3242, dated February 2003, signed by Sanjay Mishra and Michael L. Ziemann, P.E..
- 6.6 Test report titled, "Termite Resistance Testing Conducted on CorrectDeck in Accordance with AWWA E1-97", prepared by RADCO, Report No. RAD-3073, dated June 2002, signed by Brian L. Harper and Michael L. Ziemann.

## 7.0 CONDITIONS OF USE

The ICC-ES Subcommittee for the National Evaluation Service finds that CorrectDeck® wood thermoplastic composite lumber as described in this report complies with or is a suitable alternate to that specified in the 2000 International Building Code® with 2002 Supplement, BOCA®

National Building Code/1999, the 1999 Standard Building Code®, the 1997 Uniform Building Code™, and the 2000 International Residential Code® with 2002 Supplement, subject to the following conditions:

- 7.1 CorrectDeck ® wood thermoplastic composite lumber shall not be used as a component of trusses or structural diaphragms, and shall not be used in interior framing applications for joists, rafters, studs, beams, columns, or posts.
- 7.2 The design and installation of CorrectDeck ® wood thermoplastic composite lumber shall be in accordance with this report and the manufacturer's published installation instructions.
- 7.3 When CorrectDeck ® wood thermoplastic composite lumber is used as structural members that are outside the scope of this report, structural calculations, drawings and details verifying compliance with this report and the applicable code, shall be submitted to the code official having jurisdiction. When required by the applicable code or the code official, such documents shall be prepared, signed and sealed, and submitted by a registered design professional in accordance with the registrations laws of the state in which the project is located.
- Any allowable design values used in the structural calculations are outside the scope of this evaluation report.
- 7.4 The maximum spans of CorrectDeck ® decking shall comply with this report.
- CorrectDeck ® boards shall span a minimum of 3 support joist.
- The design values listed in this report are for loads of a normal load duration and are applicable to either dry or wet conditions of use. The design values are applicable in uses up to a temperature not exceeding 130° F (54.4° C).
- 7.5 Each piece of CorrectDeck ® shall bear a brand, stamp, or label with the information identified in Section 5.0 of this report.
- 7.6 Allowable capacity of fasteners installed in CorrectDeck ® shall comply with Section 3.3 of this report.
- 7.7 CorrectDeck ® shall be limited to use with building types where the use of combustible material is permitted. CorrectDeck ® shall not be used as a component of heavy timber construction.
- 7.8 CorrectDeck ® decking shall be gapped to permit adequate drainage in accordance with the manufacturer's instructions. CorrectDeck ® shall not be directly attached to any solid surface or water-tight flooring systems, such as sheathing, waterproof membranes, concrete, roof decks or patios.
- 7.9 CorrectDeck ® shall be fastened directly to floor joists having adequate strength and stiffness.
- 7.10 If the use and installation of CorrectDeck ® conflicts with this evaluation, this evaluation is null and void.
- 7.11 This report is subject to periodic re-examination. For information on the current status of this report, consult the ICC-ES website.