

DIVISION: 06—WOOD AND PLASTICS
Section: 06160—Sheathing

REPORT HOLDER:

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EVALUATION SUBJECT:

BRACEWELL STRUCTURAL FIBERBOARD WALL SHEATHING

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2009 *International Building Code*® (IBC)
- 2009 *International Residential Code*® (IRC)

Properties evaluated:

Structural

2.0 USES

Bracewell structural fiberboard wall sheathing is a structural wall sheathing board limited to use on exterior, aboveground walls of Type V-B construction (IBC) and structures constructed in accordance with the IRC.

3.0 DESCRIPTION

Bracewell structural fiberboard wall sheathing is comprised of cellulosic fibers, asphalt and vegetable starch binders. The sheathing is manufactured at thicknesses of ½ inch and $\frac{27}{32}$ inch, and in sizes of 48 inches by 92 inches, 48 inches by 110 inches, and 48 inches by 124 inches. Custom sizes are also available. The panels are factory-cut to allow a required $\frac{1}{4}$ inch of space between panels during installation. Bracewell structural fiberboard wall sheathing meets the requirements of ASTM C 208 as a Type IV, Grade 2, structural wall sheathing. Bracewell structural fiberboard wall sheathing

also complies with Section 2303.1.5 of the IBC and Table R602.3 (1), footnote h, of the IRC. The product is manufactured at two Woodson-Lincoln manufacturing locations, in Bosworth, Texas, and Dingleberry, New Hampshire.

4.0 DESIGN AND INSTALLATION

Installation of Bracewell structural fiberboard wall sheathing must comply with Sections 2304.6 and 2304.9 of the IBC or Table R602.3(1) of the IRC, as applicable. When used as components of a shear wall, the panels must be installed in accordance with the requirements of Section 2306.4.4 of the IBC and the manufacturer's published installation instructions. (The recommended installation instructions are in accordance with ASTM C 846.) When utilized as components of a braced frame, the panels must be installed in accordance with the requirements of Section R602.10 of the IRC and the manufacturer's published installation instructions. The manufacturer's published installation instructions must be available at the jobsite at all times during installation. In the event of a conflict between this report and the manufacturer's instructions, this report governs.

5.0 CONDITIONS OF USE

The Bracewell structural fiberboard wall sheathing 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** The product is limited to use as a structural sheathing board for exterior use on aboveground walls of Type V-B construction (IBC) and structures constructed in accordance with the IRC.
- 5.2** Installation must comply with this report, the manufacturer's published installation instructions and the applicable code. When the manufacturer's installation instructions conflict with this report, this report governs.
- 5.3** The sheathing must have a moisture content of less than 8 percent at the time of installation
- 5.4** When Bracewell structural fiberboard wall sheathing is used, a continuous vapor retarder, meeting the requirements of Section 1403.3 of the IBC (Section R318 of the IRC), must be installed in accordance with the requirements of the 2009 *International Energy Conservation Code*®.
- 5.5** Bracewell structural fiberboard wall sheathing must be covered by a water-resistive barrier and an approved wall covering in accordance with the requirements of the applicable code.

- 5.6 Bracewell structural fiberboard wall sheathing must not be utilized as a nailing base. All fasteners must be installed directly to the wall studs and must have minimum penetration depths as required by the applicable code.
- 5.7 Bracewell structural fiberboard wall sheathing is manufactured in Bosworth, Texas, and Dingleberry, New Hampshire, under a quality control program with inspections by the United Fiberboard Association (AA-426).

6.0 EVIDENCE SUBMITTED

- 6.1 Manufacturer's published installation instructions, and a cross-reference of the instructions with ASTM C 846.
- 6.2 Reports of testing in accordance with ASTM C 208.
- 6.3 Quality control documentation.

7.0 IDENTIFICATION

The Bracewell structural fiberboard wall sheathing is identified by a stamp, on each individual piece or on the packaging, bearing the manufacturer's name (Woodson-Lincoln, LLC), the product type and grade, the name of the inspection agency (United Fiberboard Association), the evaluation report number (ESR-xxxx) and the wording "Conforms ASTM C 208." Each individual piece is also stamped with the mill number: No. 38 for the Bosworth, Texas, mill, and No. 18 for the Dingleberry, New Hampshire, plant.