ICC-ES Evaluation Report

ESR-1134

Reissued October 2023

Revised April 2024

Subject to renewal October 2024

DIVISION: 07 00 00 — THERMAL AND MOISTURE PROTECTION Section: 07 21 00 — Thermal Insulation	REPORT HOLDER: BONDED LOGIC, INC. ADDITIONAL LISTEE: HENRY® A. CARLISLE COMPANY	EVALUATION SUBJECT: ULTRATOUCH NATURAL COTTON FIBER INSULATION	

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2021 *International Building Code® (IBC)*
- 2021 *International Residential Code® (IRC)*
- For evaluation for compliance with codes adopted by the *Los Angeles Department of Building and Safety (LADBS)* see ESR-1134 LABC and LARC supplement.

Properties evaluated:

- Surface burning characteristics
- Thermal transmission properties
- Materials properties—thermal insulation materials

2.0 USES

UltraTouch Natural Cotton Fiber Insulation is unfaced batt insulation used as concealed thermal insulation in walls, floors, ceilings, attics, and crawl spaces.

3.0 DESCRIPTION

3.1 General:

UltraTouch Natural Cotton Fiber Insulation is a nonwoven, unfaced batt insulation consisting of post-industrial recycled denim and cotton fibers. UltraTouch is treated with a borate solution. UltraTouch is manufactured in standard 3.5- and 5.5-inch (89 and 140 mm) thicknesses at both 16- and 24-inch (406 and 610 mm) widths. All sizes are manufactured at a density of 1.2 pounds per cubic foot (19.2 kg/m^3).

3.2 Surface Burning Characteristics:

The insulation, at a thickness of 3 inches (76 mm) and a density of 1.2 pounds per cubic foot (19.2 kg/m^3), has a flame-spread index (FSI) of less than 25 and a smoke-developed index (SDI) of less than 450 when tested in accordance with ASTM E84.

3.3 Thermal Resistance Value:

The insulation has a thermal resistance (*R*-value) of 3.94 ft^2•h•EF/Btu (0.694 m^2•K/W) at a 1-inch (25.4 mm) thickness.

4.0 INSTALLATION

4.1 General:

UltraTouch Natural Cotton Fiber Insulation must be 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 jobsite during installation.

The instructions within this report govern if there are any conflicts between the manufacturer's published installation instructions and this report.

4.2 One-hour Fire-resistance-rated Nonload-bearing Wall Assembly:

The assembly consists of minimum nominal 2-by-4 southern yellow pine wood studs spaced 16 inches (406 mm) on center with double 2-by-4 top plates and single 2-by-4 bottom plates with fire blocking installed at mid-height of the frame. Both sides of the wall must be finished with one layer of $^5/_8$-inch (15.9 mm), Type X gypsum wallboard. The wallboard must be fastened with $1^5/_8$-inch (41 mm), No. 6 drywall screws spaced 8 inches (203 mm) on center at perimeter joints and 12 inches (305 mm) on center in the field of the wallboard. All joints must be taped and treated with joint compound, and all fastener heads must be covered with joint compound. Stud cavities must be filled with $3^1/_2$-inch-thick (89 mm) UltraTouch Natural Cotton Fiber Insulation. The wall must be a nonload-bearing wall limited to a maximum height of 9 feet (2.7 m).

5.0 CONDITIONS OF USE:

The UltraTouch Natural Cotton Fiber Insulation 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 insulation must be manufactured, identified, and installed in accordance with this report, the Bonded Logic, Inc. instructions, and the applicable code.

5.3 The insulation must not be installed over recessed light fixtures (luminaires) or against any heat-producing appliance. The insulation must not be installed within 3 inches (76 mm) of a recessed light fixture (luminaire's) enclosure, wiring compartment, ballast, transformer, LED driver or power supply except where such light fixture (luminaire) is identified for contact with insulation, Type IC.

5.4 The insulation may be used in fire-resistance-rated construction as described in Section 4.2 of this evaluation report.

5.5 Installation of the insulation must not be adjacent to areas where it may be subjected to open flame or heat producing devices or equipment.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with ICC-ES Acceptance Criteria for Natural Fiber Insulation (AC81), dated March 2004 (editorially revised June 2022).

6.2 Test report in accordance with ASTM E119.

7.0 IDENTIFICATION

7.1 The ICC-ES mark of conformity, electronic labeling, or the evaluation report number (ICC-ES ESR-1134) along with the name, registered trademark, or registered logo of the report holder and/or listee must be included in the product label.

7.2 Additionally, each package of UltraTouch Natural Cotton fiber Insulation batts covered by this report must be labeled with the Bonded Logic, Inc. name and address. The label must also include the Flame Spread Index (FSI), Smoke Developed Index (SDI) and thermal resistance (*R*-value) of the product.

7.3 The report holder's contact information is the following:

BONDED LOGIC, INC.
24053 SOUTH ARIZONA AVENUE
SUITE 151
CHANDLER, ARIZONA 85248
(480) 812-9114
www.bondedlogic.com

7.4 The additional listee' contact information is the following:

HENRY® A. CARLISLE COMPANY
336 COLD STREAM ROAD
KIMBERTON, PA 19442
(310)-955-9200
www.henry.com
productsupport@henry.com

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DIVISION: 07 00 00—THERMAL AND MOISTURE PROTECTION
Section: 07 21 00—Thermal Insulation

REPORT HOLDER:

BONDED LOGIC, INC.

EVALUATION SUBJECT:

ULTRATOUCH NATURAL COTTON FIBER INSULATION

1.0 REPORT PURPOSE AND SCOPE

Purpose:

The purpose of this evaluation report supplement is to indicate that Ultratouch Natural Cotton Fiber Insulation , described in ICC-ES evaluation report ESR-1134, has also been evaluated for compliance with the codes noted below as adopted by the Los Angeles Department of Building and Safety (LADBS).

Applicable code editions:

■ 2023 *City of Los Angeles Building Code* (LABC)

■ 2023 *City of Los Angeles Residential Code* (LARC)

2.0 CONCLUSIONS

The Ultratouch Natural Cotton Fiber Insulation, described in Sections 2.0 through 7.0 of the evaluation report ESR-1134, complies with the LABC Chapter 7 , and the LARC Section R302.10 and is subject to the conditions of use described in this supplement.

3.0 CONDITIONS OF USE

The Ultratouch Natural Cotton Fiber Insulation described in this evaluation report supplement must comply with all of the following conditions:

• All applicable sections in the evaluation report ESR-1134.

• The design, installation, conditions of use and identification of the Ultratouch Natural Cotton Fiber Insulation are in accordance with the 2021 *International Building Code*® (IBC) provisions noted in the evaluation report ESR-1134.

This supplement expires concurrently with the evaluation report, reissued October 2023 and revised April 2024.