

Technical Specifications

Cellulose Insulation

Scope

1.1 This specification provides data related to UltraTouch® cellulose insulation products. UltraTouch provides resistance to heat flow for thermal applications, noise control for acoustical treatments and fire control in walls and attics of residential and commercial construction.

Materials

2.1 More than 85% of the content by weight of UltraTouch cellulose insulation is processed from recycled wood-based cellulose fibers. These fibers are chemically treated to create fire resistance. The additives are non-toxic, will not irritate normal skin, will not attract vermin or insects, and will not adversely affect other building materials. UltraTouch complies with Section 6002 of the Solid Waste Disposal Act, as amended by the Resource Conservation and Recovery Act of 1976.

Functions

3.1 UltraTouch insulation resists heat flow by:
1.) trapping air within and
2.) between fibers creating significant resistance to air movement.

When applied, UltraTouch cellulose insulation creates a "blanket" filling all spaces, which is impractical to achieve with batt materials.

Material Characteristics

4.1 All cellulose insulation sold in the U.S. must conform to the Consumer Products Safety Commission standards 16 CFR parts 1209 and 460. In addition, UltraTouch meets all of the test requirements of ASTM C-739.

4.1.1 - Density

The density anticipated after long-term settling of dry applications was determined by the following specification: ASTM C-739

4.1.2 - Thermal Resistance

The average thermal resistance per inch was determined by test method:
ASTM C518 (4 inch thick)
3.80 (R-value/inch)

4.1.3 - Surface Burning Characteristics

Two surface burning characteristics are evaluated. They are Critical Radiant Flux using ASTM C-970 and Flame Spread using ASTM E-84. UltraTouch meets or exceeds the requirements for these tests.

ASTM E-970 - Greater than 0.12 watts/cm²

ASTM E-84 - Less than 25

4.1.4 - Smoke Developed Index

ASTM E-84 - Less than 50

4.1.5 - Moisture Vapor Sorption

UltraTouch meets the ASTM C-739 requirement of less than 15% maximum weight gain. Normal relative humidity variations will not adversely affect the insulation.

4.1.6 - Non-Corrosiveness

When in contact with steel, copper, aluminum, or galvanized materials, UltraTouch was determined to be non-corrosive per ASTM C739.

4.1.7 - Other Properties Tested

Additional ASTM C-739 tests passed include:
Odor Emission, Smolder Resistance and Fungi Resistance

4.2 - Building Codes

Properly installed UltraTouch cellulose insulation meets the requirements for thermal insulating materials as contained in BOCA, CABO, ICBO, SBCCI, ICC, IEC, IBC, IRC, and the Model Energy Code.
Complies with HH-1-515E.

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4.3 - Fire Blocking

In wall cavities, UltraTouch insulation is permitted as a fire block under Section 717.2.1 of the IBC when installed to a minimum depth of 14.5 inches.

4.4 - Sound Transmission

The installed density of any cellulose insulation creates a noise control "blanket". Effective sound control requires wall and ceiling systems to be air tight including entire perimeter to prevent sound flanking. Refer to Section III of GA-600-2003 Fire Resistance Design Manual (17th Ed.) Insulation materials add 3 to 5 db of noticeable sound resistance to uninsulated walls.

Product Certification

Product certification by an independent third party NVLAP accredited laboratory.

Installation

Installation to follow the Cellulose Insulation Manufacturers Association (CIMA) technical bulletins #2 "Standard Practice for Installing Cellulose Building Insulation", #3 "Standard Practice for the Installation of Sprayed Cellulosic Wall Cavity Insulation", and #5 "Guide for Installation of Cellulosic Fiber Stabilized Thermal Insulation".

Professionally installed insulation provides"

SUPERIOR COMFORT ALL YEAR LONG

SUPERIOR ACOUSTICS

SUPERIOR ENERGY SAVINGS

SUPERIOR FIRE RATING

UltraTouch
Nature Blend Cellulose Insulation