



SECTION 07210

THERMAL INSULATION

1.1 SUMMARY

- A. Applications:
 - 1. Cavity-wall insulation.
 - 2. Concealed building insulation.
 - 3. Exposed building insulation.
 - 4. Loose-fill building insulation.
 - 5. Self-supported, spray-applied cellulosic insulation.
 - 6. Sound attenuation insulation.

1.2 PERFORMANCE REQUIREMENTS

- A. Product meets ASTM E 84 for surface burning characteristics.
- B. Product is tested for ASTM E 90 for STC ratings.
- C. Product is tested to ASTM C 739 standards.
- D. Product is tested to ASTM E 119 standards.

1.3 MATERIALS

- A. Insulation:
 - 1. 1. Cellulose Dens-pack (dry) Insulation: Installed Density 3.2 lb/cu. ft. (51 kg/cu. m)
 - 2. 2. Cellulose Attic Insulation: Installed Density 1.60 lb/cu. ft. (26 kg/cu.)

Product Specification

1. PRODUCT NAME

NU-WOOL Premium Cellulose and WALLSEAL are registered trademarks for NU-WOOL Co. Inc.

2. MANUFACTURER

NU-WOOL Premium Cellulose is made from recycled paper (85%) and is packaged in 26 pound bags. Installation is done by factory trained installers. NU-WOOL WALLSEAL Cellulose Insulation is a spray-in-place cellulose insulation made from recycled paper, primarily newspaper. It is installed in both attics and walls of residential and commercial buildings because of its superior thermal and air



infiltration properties. WALLSEAL is an energy-saving material that has an R-Value of 3.8 per inch, and will last for the life of the structure. NU-WOOL uses borate chemicals as a fire retardant, making NU-WOOL WALLSEAL Cellulose Insulation one of the most environmentally friendly materials used in home construction.

3. PRODUCT DESCRIPTION

NU-WOOL Insulation is an energy-saving insulation made from recycled newspapers. NUWOOL Insulation, with its superior thermal and air infiltration properties, is installed in both attics and walls of residential and commercial buildings. This environmentally friendly, “green” insulation provides up to 40% savings on energy bills when compared to conventional insulation materials. NU-WOOL Insulation also contains an E.P.A. registered fungicide making it resistant to the growth of mold.

WALLSEAL is applied by a spray-on method that insures the correct density to prevent settling while making the wall resistant to air movement and achieving maximum thermal performance.

4. TECHNICAL DATA

- 4.1 All cellulose insulation must conform to the CPSC standard 16 CFR Part 1209 and 1404. NU-WOOL also meets ASTM C-739. Also refer to UL R-8078 and R-13173.
- 4.2 Density is measured using ASTM C-739 standards and is 1.6 lb/ft³.
- 4.3 Thermal resistance was measured by test method ASTM C-518 (4 in. thick) and is 3.8 (R-value/in.)
- 4.4 Surface Burning Characteristics: Surface burning characteristics are determined using two methods. Critical radiant flux using test method ASTM E 970 and ASTM E 84.

ASTM E 970 Greater than 0.12 watts/CM²
ASTM E 84 Less than 25, Class 1

- 4.5 Moisture Vapor Sorption: NU-WOOL meets the requirements of ASTM C 739 of less than 15% maximum weight gain under test conditions. Variations in relative humidity will not affect the thermal properties of the insulation.
- 4.6 Corrosiveness: NU-WOOL is tested for contact against copper, steel and aluminum under the test conditions of ASTM C 739 and is not corrosive to these metals.
- 4.7 Building Codes: NU-WOOL meets all the current building codes.
- 4.8 Sound Transmission Loss (STC) Ratings: NU-WOOL has been tested for numerous wall assemblies at Riverbank Laboratories using ASTM E 90. Specific wall assemblies are listed in this book.
- 4.9 Other Test Properties: Under ASTM C 739, there are tests for fungi resistance, odor and smolder resistance.

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