

Quiet Batt® Soundproofing Insulation

1: Scope

This document covers the composition and physical properties of Soundproof Cow's Quiet Batt® Blanket Insulation. This information is relevant to the specification of Soundproof Cow's Quiet Batt® Insulation in enclosed ceilings, attics, walls, floors and other uses. Quiet Batt® insulation delivers superb R-value per inch and excellent sound control qualities.

2: Components

Quiet Batt® insulation contains 85% recycled content and is primarily composed of cotton. A proprietary fire retardant penetrates and strengthens the fibers while providing permanent flame resistance. When installed properly and under normal conditions of use, these materials are nontoxic to humans and will not adversely affect other building components. See product installation instructions for details on its use.



3: Purpose

3.1: Thermal Insulation

Quiet Batt® insulation helps buildings stay warmer in the winter and cooler in the summer by effectively controlling all 3 methods of heat transfer: convective, conductive and radiant, helping your building be more comfortable and lowering your heating and cooling bills.

3.2: Acoustical Insulation

Quiet Batt® insulation provides superior sound attenuation compared to conventional batts, in large part, because it is press fit and has a strong rebound. Both the press fit and strong rebound help to ensure a better seal of the building envelope that minimizes the acoustical shortcuts that are often created by less rigid batt insulations.

4: Performance Standards

Quiet Batt® blanket insulations are third-party tested to conform to the requirements of AC-81.

4.1: Thermal Resistance

Thermal resistance R-values for finished products from R-2 to R-13 calculated per ASTM C-518.

4.2: Thickness and Density

Thickness and density determined by tests conducted in accordance with ASTM C-167.

4.3: Non-Corrosive

When tested in accordance with ASTM C-739, Quiet Batt® was found to be non-corrosive to aluminum, steel and copper.

4.4: Fire Safety

Quiet Batt® meets:

1. ASTM E-84

• F ame spread: ≤ 25 • Smoke developed: ≤ 450

2. UL 723

Quiet Batt® insulation up to 2" thickness and up to 3.5 lb./ft³ density has the following Surface Burning Characteristics per UL723:

• F ame spread: Class A • Smoke developed: Class A



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4.5: Fire Rated Assembly

R-13 / 3.5" Quiet Batt® used in UL Design No. U344 listing assembly has exterior non-load bearing: 1 hour rating.
Interior load bearing: 1 hour rating with structural members described by UL Design No. U344 restricted to 80% of the maximum allowable load derived from ASTM D 6513-08.

4.6: Moisture Absorption

Quiet Batt® has less than 15% weight gain under test conditions in accordance with ASTM C-739. Normal relative humidity variations do not adversely affect the insulation.

4.7: Health and Indoor Air Quality

Quiet Batt® is not known to contain fiberglass, formaldehyde or other known chemical irritants.

OSHA or CAL OSHA carcinogen warning? : No

Contains respirable glass fibers? : No

Contains formaldehyde? : No

Fiberglass itch? : No

4.8: Environmental

Life Cycle Analysis (LCA) revealed that Quiet Batt® uses 54% less energy, releases 53% less CO2 equivalent into the environment and consumes 29% less water than fiberglass during production.

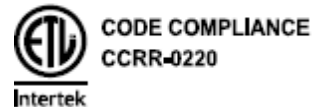
4.9: Other Properties

Quiet Batt® passed ASTM C-1338 for fungi growth.

5: Sound Control

Quiet Batt® is an excellent choice for reducing sound transmission through walls, ceilings and floors. The following Sound Transmission Class (STC) ratings demonstrate its effectiveness in attenuating noise. The higher the STC number, the greater the reduction in sound:

- -13 Quiet Batt® insulated wall: 52 STC



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