applegateinsulation

SPECIFICATIONS

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1. Scope
This specification provides information relevant to the installation of Applegate cellulose insulation in attics, walls, and floors using pneumatic equipment. Applegate insulation delivers superior R-value per inch, exceptional resistance to air infiltration, and superb sound controlling qualities.

2. Components
Applegate insulation contains up to 85% recycled, natural cellulose fiber. A proprietary two-stage process injects dry and liquid fire retardants that penetrate and strengthen the fibers while providing permanent flame resistance. When installed properly and under normal conditions of use, these additives are nontoxic to humans, will not adversely affect other building components.

3. Purpose
3.1 Thermal Insulation
Applegate 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. Buildings are more comfortable and less expensive to operate and maintain. Research at universities and national laboratories has proven that cellulose can provide up to 50% better performance than fiberglass.

3.2 Acoustical Insulation
Applegate insulation provides superior sound attenuation, in large part, because it is blown or sprayed in. This provides a custom fit that eliminates the acoustical shortcuts that are created by batt insulations: gaps and voids in odd shaped cavities and around obstacles such as plumbing, air ducts, and wiring.

4. National Standards
Cellulose insulation sold in the U.S. must conform to CPSC Standards 16 CFR Parts 1209 & 1404. Applegate insulation also conforms to the requirements of ASTM Standard C-739. Applegate insulation is tested only by nationally certified, NAVLAP-approved laboratories.

4.1 Thermal Resistance
Thermal resistance R-values up to R-3.8 per inch calculated using ASTM C-518.

4.2 Non-Corrosive
Applegate insulation is tested and certified to be non-corrosive in accordance with ASTM Standard C-739. The test regimen includes aluminum, copper, and steel.

4.3 Building Codes
Applegate insulation, when properly installed, meets the following building code requirements for thermal insulating materials: BOCA, CABO, ICBO, ICC, SBCCI, & the Model Energy Code.

4.4 Fire Safety
Applegate insulation meets or exceeds all necessary fire safety requirements conducted in accordance with ASTM standards:

Critical Radiant Flux:	>0.12 w/cm^2
Smoldering Combustion:	<15%

4.5 Density
As tested by federally required methods, the maximum anticipated density of Applegate insulation after long-term settling of dry application is determined by ASTM C-739 to be 1.6 lb/ft^3.

4.6 Moisture Absorption
Applegate insulation complies with ASTM Standards that require less than 15% weight gain under test conditions. Normal relative humidity variations do not adversely affect the insulation.

4.7 Health and Indoor Air Quality
Applegate insulation does not contain fiberglass, formaldehyde, or other materials associated with increased health concerns.

OSHA cancer warning?	No
Contains glass fibers?	No
Contains formaldehyde?	No

4.8 Other Properties
Applegate insulation meets or exceeds ASTM C-739 tests for odor emission and fungi resistance.

4.9 Sound Control
Applegate insulation 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.

Cellulose insulated wall:	44 STC
Fiberglass insulated wall:	39 STC
Uninsulated wall:	35 STC

For every house is builded by some man; but he that built all things is God. Hebrews 3:4

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Insulation Fact Sheet

This is Applegate Stabilized Cellulose Insulation

Applegate Stabilized Cellulose Insulation has been installed with the manufacturer's recommendations to provide a value of R-_____ using _____ bags of insulation to cover _____ square feet of area at a thickness of _____ inches.

_____
Building Address

_____
City, State, Zip

_____
Signature of Installer

_____
Company Name

_____
Company City, State, ZIP

_____
Date Installed

R&D Services

R & D Services, Inc. Classified Applegate Stabilized Cellulose Reference File: RDS-S8528

R-Value @ 75 °F	Initial Installed Thickness (Inches)	Minimum Settled Thickness (Inches)	Maximum Net Coverage Area (Square Feet per Bag)	Number of Bags per 1,000 Square Feet	Minimum Weight per Square Foot (Pounds)
11	3.14	3.12	82.9	12.1	0.32
13	3.71	3.68	70.1	14.3	0.38
19	5.42	5.38	48.0	20.8	0.55
22	6.27	6.23	41.4	24.1	0.64
24	6.95	6.75	37.3	26.8	0.71
26	7.53	7.31	34.4	29.1	0.77
30	8.69	8.44	29.8	33.5	0.89
32	9.27	9.00	28.0	35.8	0.95
38	11.18	10.59	22.9	43.7	1.16
40	11.76	11.14	21.8	46.0	1.22
45	13.23	12.54	19.3	51.7	1.37
48	14.12	13.37	18.1	55.2	1.46
49	14.41	13.65	17.8	56.3	1.49
50	14.71	13.93	17.4	57.5	1.52
55	16.18	15.32	15.8	63.2	1.67
60	17.65	16.71	14.5	69.0	1.83

Initial installed thickness determined according to ASTM C1497.

APPLEGATE MANUFACTURING FACILITIES

1000 HIGHVIEW DR. WEBBERVILLE, MI 48892 800-627-7536	1925 STATE ROUTE 1241 N HICKORY, KY 42051 888-502-7753	600 INDUSTRIAL DR. BLOOMER, WI 54724 800-633-3179	230 SHOOP DR. PENROSE, CO 81240 866-568-9639	2500 JACKSON ST. MONROE, LA 71202 800-854-1907	1241 MEADOWBROOK DR. EASTANOLLEE, GA 30538 888-427-7534	1050 SUPERIOR AV. CHAMBERSBURG, PA 17201 800-231-1939

Read This Before You Buy

What You Should Know About R-Values

The chart shows the R-Value of this insulation. "R" means resistance to heat flow. The higher the R-Value, the greater the insulating power. Compare insulation R-values before you buy.

There are other factors to consider. The amount of insulation you need depends mainly on the climate you live in. Also, your fuel savings from insulation will depend upon the climate, the type and size of your house, the amount of insulation already in your house, and your fuel use patterns and family size. If you buy too much insulation, it will cost you more than what you'll save on fuel.

To get the marked R-Value, it is essential that this insulation be installed properly.

Coverage chart is based on settled thickness and is for estimating purposes only. Do not exceed maximum sq ft coverage per bag. Actual coverage will be influenced by job conditions, application techniques, type of machine and machine settings and may vary as much as 10% without significantly affecting the stated R-value. Failure of the installer to provide at least the required number of bags per 1000 sq ft and at least the minimum thickness may result in a lower installed R-value. This coverage chart does not apply to dry loose-fill application. Do not cover wall insulation until moisture levels, verified and documented after a minimum period of 24 hours from the time of installation, reach 20% or less in accordance with Applegate's Installation Manual. This product is intended for wall-spray application in 2x4 and 2x6 construction. Non-standard or unusual wall configurations (i.e., other than 2x4 and 2x6 walls) can affect thermal and sound properties and require special installation considerations. These types of designs should be analyzed and, if necessary, tested prior to plan review. For non-standard walls, contact an Applegate technical service representative for assistance. Coverage chart is based on a nominal bag weight of 26.5 lbs.

Take heed now; for the LORD hath chosen thee to build an house for the sanctuary: be strong, and do it. (1 Chronicles 28:10)

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