Loft. High-Performance Blown Ceiling Insulation

0800 267 992
roofinsulation.co.nz

Updated OCT 2024-C

Rigorously tested and proven to deliver high quality results.

APPLICATIONS

Ceiling Insulation

BENEFITS

- New and retrofit applications
- Fills all gaps and voids, creating a complete thermal barrier against heat loss or gain
- Excellent acoustic performance
- Made with up to 80% post-consumer recycled glass
- High thermal performance
- Fast, easy installation by Approved Installers.

ABOUT LOFT

Loft is a high-performance blown ceiling insulation for New Zealand homes.

Loft is an unbonded, Glasswool insulation designed with optimal thermal properties and excellent coverage and blowing characteristics. Loft can be installed into both new build and existing ceilings.

It can be used to form the total thermal solution or as an additional thermal layer to existing insulation. Loft should only be installed by Approved Installers to ensure the highest quality and installed performance.

PERFORMANCE

Thermal Conductivity	ASTM C 518 and AS/NZS 4859.1
Thermal Resistance	ASTM C 518 and AS/NZS 4859.1
Fire Propeties	Ignitability: 0, Spread of Flame: 0, Heat Evolved: 0, Smoke Developed: 1.
Water Vapour Absorption	5% maximum by weight.
Microbial Growth	Does not support microbial growth.
Corrosion	No greater than sterile cotton.
Critical Radiant Flux	Greater than 0.12 W/cm^2.

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Thermal performance

Loft provides excellent thermal performance due to a low thermal conductivity and a complete and consistent installation. Loft provides a choice of R-Values based on the installed thickness and installed weight per square metre. The stated thermal resistance (R-Value) is provided by installing the required density at the thickness (per the manufacturer's instructions). Failure to install less than the required density and thickness will result in lower insulation R-Values.

Loft is designed to be installed at a target density of 12kg/m3. Refer to the thermal performance table for more details. Loft will achieve R-Values that with the use of NZS 4214 are able to meet the minimum requirements of NZS 4218 and the Energy Efficiency requirements for ceilings.

Acoustic performance

Improves sound transmission class (STC) by between 4 and 10 points.

Thermal performance

- Each bag contains a high percentage of recycled glass content.
- Carbon negative. When used as thermal insulation, Loft will recover the energy used to produce it within days of installation. It will continue to reduce carbon generation for as long as it is in place.

Energy conservation

- Reduces energy usage and utility bills for heating and air conditioning.

Engineered Blow-in Insulation System

Loft is an engineered solution which incorporates a system approach to the insulation of your ceiling space. A range of accessories are supplied with the System to provide a range of solutions and performance checks. Backed by the Approved Installer network, to provide confidence in the performance of the product.

Installation

- Fast and easy to install with the added confidence of an Approved Installer.
- Easily fills hard to reach and low pitch roofs.

Durability

- Non-combustible, non-corrosive.
- Will not rot, mildew or deteriorate.
- Will not sustain vermin.
- Will not settle.
- Consistent, reliable performance.
- Performs for the lifetime of the building.

Equipment required

To achieve the required R-Value, this product must be installed using an approved blowing machine and equipment. Installation must be complete inline with the system guidelines and by an Approved Installer.

Packaging

Loft is packaged in a strong, poly bag that offers excellent protection from abuse, dust and moisture. Insulation packages stack without slipping and are easy to handle and store.

New Zealand Building Code:

- Clause B2 DURABILITY: Performance B2,3,1(b) 15 years. Loft will meet this requirement.
- Clause E3 INTERNAL MOISTURE: Performance E3.3.1. Loft will contribute to meeting this requirement.
- Clause F2 HAZARDOUS BUILDING MATERIALS: Performance F2.3.1. Loft meets this requirement and will not present a health hazard to people.
- Clause H1 ENERGY EFFICIENCY: Performance H1.3.1(a) and H1.3.2 E. Loft will contribute to meeting these requirements.
- Loft thermal resistance has been determined by AS/NZS 4859.1.
- Loft is an acceptable solution in terms of the New Zealand Building Code.

Specification Guide

The insulation shall be Loft insulation 0.043 W/mK (NZ), at a density of 12kg/m3, to meet the provisions of the BCA. The product will be non-combustible, CFC/HCFC free, zero ODP and GWP, Glasswool insulation with high post-consumer recycled glass content. It will be manufactured under Quality Assurance Standards ISO 9001:2008 and ISO 14001:2004 and shall be installed in accordance with the instructions issued by them.

Specification Compliance

- ASTM and AS/NZS 4859.1 compliance.
- Fire Resistance (AS1530.1:1994 - non-combustible).
- US GREENGUARD Gold Certified and verified to be formaldehyde free.
- Loft is manufactured with up to 80% post-consumer glass content.

CEILING SPECIFICATIONS

R-Value (m2 K/W)	Product Thickness (mm)	Thermal Density	Conductivity
1.0	43mm	12kg/m3	0.043 W/mK
1.5	65mm	12kg/m3	0.043 W/mK
2.0	86mm	12kg/m3	0.043 W/mK
2.5	108mm	12kg/m3	0.043 W/mK
3.0	129mm	12kg/m3	0.043 W/mK
3.5	151mm	12kg/m3	0.043 W/mK
4.0	172mm	12kg/m3	0.043 W/mK
4.5	194mm	12kg/m3	0.043 W/mK
5.0	215mm	12kg/m3	0.043 W/mK
6.0	258mm	12kg/m3	0.043 W/mK
7.0	301mm	12kg/m3	0.043 W/mK
8.0	344mm	12kg/m3	0.043 W/mK
9.0	387mm	12kg/m3	0.043 W/mK
10.0	430mm	12kg/m3	0.043 W/mK
15.0	645mm	12kg/m3	0.043 W/mK

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