

100% polyester thermal insulation blanket for insulating commercial and industrial roofs.

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Level of assurance needed to demonstrate NZ Building Code Compliance

Supporting documentation should include self-assessment and technical information by manufacturer



GreenStuf® confirms that this minimum level of assurance has been met or exceeded by the following:

BRANZ Appraisal

[380 \(2021\)](#)



The following information has been provided by GreenStuf® demonstrating how this product complies with the [Building Product Information Requirements](#).

Technical Statement

Product Class

CLASS 1

Product Description

GreenStuf® Building Insulation Blanket (BIB), is 100% polyester thermal insulation blanket. GreenStuf BIB is a non-irritant thermally efficient insulation designed for insulating commercial and industrial roofs. GreenStuf BIB is supplied as lofted green-tinted insulation blanket for commercial roofing applications.

Features

- Independently tested & assessed achieving NZBC Fire Standards
- Naturally resistant to insects and vermin
- Safe to touch 100% polyester, with a minimum 50% recycled content
- Made in New Zealand

Scope of use

Limitations on Use of Building Product

- GreenStuf Building Insulation Blanket (BIB) must be installed only when the building is enclosed and when construction materials have achieved the required maximum moisture content or less.
- GreenStuf Building Insulation Blanket (BIB) might not be suitable for some roof applications as stipulated in NZBC C1-C6 Protection from fire. Please consult a fire engineer before specifying GreenStuf insulation.

New Zealand Building Code (NZBC)

The product will, if employed in accordance with the supplier's installation and maintenance requirements, assist with meeting the following provisions of the building code:

- Clause B2 Durability:** Performance B2.3.1(a), B2.3.1(b)
GreenStuf BIB is expected to have a serviceable life of at least 50 years where the insulation is not crushed or exposed to conditions that will degrade its performance and the building is maintained so that the provisions of E2 and E3 clauses are met.
- Clause E3 Internal moisture:** Performance E3.3.1
GreenStuf BIB R-values have been determined by testing to AS/NZS 4859.1:2018
- Clause F2 Hazardous building materials:** Performance F2.3.1
There are no known hazards when using or handling GreenStuf BIB.
- Clause H1 Energy efficiency :** Performance H1.3.1, H1.3.2E
GreenStuf BIB R-values have been determined by testing to AS/NZS 4859.1:2018.

Notes

NZBC Compliance - GreenStuf® thermal insulation when installed in accordance with the manufacturer's instructions will satisfy the 50 year durability clause NZBC B2.3.1 (a). GreenStuf® meets the relevant clauses of NZBC E3 Internal Moisture, F2 Hazardous Building Materials, and will contribute to meeting H1 Energy Efficiency. Clause E3 Internal Moisture- Autex GreenStuf® will contribute to meeting this requirement - see paragraphs 12.1 and 12.2 of the Branz appraisal.



masterspec partner

Company Contact Details



Brand: GreenStuf®

Company: Autex Acoustics

Physical Address: 702/718 Rosebank Road
Avondale
Auckland

Postal Address: Private Bag 19988
Avondale
AUCKLAND

Telephone: 64 800 428839

Email: enquiries@autex.co.nz

Website: <https://greenstuf.co.nz/products/building-insulation-blanket>

Clause H1 Energy Efficiency - Autex GreenStuf® will contribute to meeting this requirement - see paragraphs 13.1 - 13.8 of the Branz appraisal.

Non Flammable - GreenStuf® is classified non-flammable.

Fire Ratings ISO 9705: 1993

Classification: Group 1-S

Smoke Production Rate: <5.0m²/s

As required by NZBC C/VM2

Issued 11th March 2013 BRANZ (FAR 4045)

AS1530.3

Ignitability Index (0-20) 0

Heat Evolved Index (0-10) 0

Spread of Flame Index (0-10) 0

Smoke Developed Index (0-10) 3

APL Report 98055

IEC 60695-11-5 (Downlight Fire Test Standard)

GreenStuf® has been tested and certified non-flammable and complies with the requirement of IEC 60695-11-5

Evidence

The product meets the requirements set out in the following documents, or relevant parts of cited standards within the documents:

Refer to the technical documentation available on the website:
<https://greenstuf.co.nz/products/building-insulation-blanket>

Supporting Evidence

The product has and can make available the following additional evidence to support the above statements:



BRANZ Appraisal
[380 \(2021\)](#)

Use in Service History

In service history 30+ years

Product Criteria

Design requirements

GreenStuf BIB is designed to be friction fitted between ceiling or roof framing members. GreenStuf BIB can also be laid directly over ceiling lining, over ceiling battens or joist/truss chords.

Minimum separation of 25mm between GreenStuf BIB and any rigid substrate or flexible roof underlay must be ensured to prevent moisture transfer and provide roof ventilation.

If it is not possible to achieve a 25mm gap between the underlay and insulation, counterbattens can be used to provide a vent

Installation requirements

GreenStuf Thermal Underfloor Blanket must be installed according to the Install Instructions included in each GreenStuf pack and NZS 4246.

GreenStuf Thermal Underfloor Blanket must be released from packaging and allowed to re-loft prior to installation.

GreenStuf Thermal Underfloor Blanket must be wider than the space between the joists for stapling. Refer to install instructions.

A clear 100mm gap must be left around waste pipes that penetrate through the floor to allow for future service.

Refer to NZS 4246 for required minimum clearances to heating appliances, light fittings and downlights.

Maintenance requirements

GreenStuf Masonry Wall Blanket must not be compressed over its serviceable life. Compressing GreenStuf Masonry Wall Blanket can lead to reduced thermal performance.

If GreenStuf Masonry Wall Blanket becomes damp or wet while in service, it must be removed and the cause of dampness must be resolved. Cavities must be clean and dry before new insulation is placed.

Warrantees

Material warranty: 50 years

Company Product Information

Environmental

All GreenStuf® insulation products are manufactured using the same materials and under the same conditions, processes and controls as the Environmental Choice New Zealand certified range as published at the date of this document. All GreenStuf® products are manufactured from 100% polyester fibre and contain a minimum of 45% already recycled fibre (from PET plastic) and are manufactured under Autex's zero waste policy.

GreenStuf® products are Green Star NZ & Homestar compatible and GreenStuf® products have been independently assessed and verified compliant with Living Building Challenge projects. For more information please contact your Autex Account Manager or visit our website.

ISO Standards - Autex is committed to Quality and Environmental best practice through our ISO 9001 & ISO 14001 certified Quality and Environmental Management Systems.

Quality Assurance



ISO 9001 (Quality Management)

Relationships



New Zealand Made



Environmental Choice New Zealand



Member of New Zealand Green Building Council

Building Product Information Requirements

Manufacturer

Legal Trading Name:

Autex Acoustics

Business Email:

enquiries@autex.co.nz

Company Website:

<https://www.autexacoustics.co.nz/>

Contact Number/s:

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0800 428839

Product Identifier

PIB

Warnings

This product has no warnings associated with it.



Date last validated: **12 December 2023**



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