



UNDERFLOOR

GreenStuf[®] Underfloor is 100% polyester thermal insulation rolls, precut to fit exposed timber joists.

APPLICATIONS

GreenStuf Underfloor is designed for use in residential and commercial exposed joist floors.

GreenStuf Underfloor is available in a range of widths and performance options and can be installed in new and existing buildings with enclosed and semi-enclosed floor spaces. In open sub-floor spaces, it is recommended that a suitable lining material is applied.

In addition to the above recommendation, where wind wash is a concern we suggest selecting the highest R-value GreenStuf Underfloor suitable for the building to maintain maximum thermal performance of the floor system. For more information or advice please contact your local GreenStuf account manager on 0800 428 839.

TECHNICAL

NZBC Compliance: When installed in accordance with the manufacturer's instructions, GreenStuf insulation will satisfy the 50 year durability clause New Zealand Building Code (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.

GreenStuf Underfloor is designed for the thermal insulation of existing and new timber-framed buildings in accordance with NZBC H1 Energy Efficiency requirements. To ensure Building Code compliance, architects and building designers are advised to consult an engineer or the relevant NZ standards before specifying thermal and acoustic insulation products.

For information and assistance please contact your GreenStuf account manager.

Fire Regulations: GreenStuf insulation may not be suitable for all applications, as stipulated in the NZBC. Please consult a fire engineer when specifying GreenStuf insulation or contact your GreenStuf account manager for further information.

Acoustic Performance: GreenStuf Underfloor will assist in reducing airborne sound from floors (including booming from footfall) by absorbing reverberant noise under the floor.

Durability: GreenStuf has a 50 Year Durability Warranty.

Moisture: GreenStuf is not affected by moisture. Exposure to an atmosphere of 50°C at 90% relative humidity for four days showed moisture absorption by weight of less than 0.03%.

Hazardous Building Materials: GreenStuf is non-hazardous.

VOC Emission Safe:

VOC concentration: 0.01 mg/m³ (7 days).
GECA/GreenGuard Limit: 0.25 mg/m³ (7 days). Cetec Pty Ltd (Report: RCV080408)

Vermin: GreenStuf is naturally resistant to insect and vermin attack.

ISO Standards: GreenStuf is committed to Occupational Health and Safety, Quality and Environmental best practice through our ISO 45001, ISO 9001 and ISO 14001 certified management systems.

Non-Corrosive: GreenStuf polyester is considered non-corrosive based on AS/NZS 4859.1 Standard for insulation.

Non-Toxic, Non-Allergenic, Non-Irritant: There are no known hazards with the use or handling of GreenStuf polyester.

Fire ratings:

ISO 9705: 1993

Classification: Group 1-S
Smoke Production Rate: <5.0m²/s
As required by NZBC C/VM2

FI 4895 issued 11th July, 2012 and FAR 4045-2 issued 8th October, 2013

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 (Test conducted on GreenStuf Thermal Insulation)

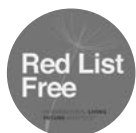
IEC 60695-11-5 (Downlight Fire Test Standard)

GreenStuf has been tested and assessed as complying with IEC 60695-11-5 Needle-flame Test.

For more information please refer to our Insulation and Downlights Facts Sheet available from our website or your local GreenStuf account manager.

Installation: GreenStuf Underfloor insulation is designed for use in suspended floors. GreenStuf recommends that all thermal and acoustic insulation be installed in accordance with the manufacturer's instructions (included on each GreenStuf Underfloor pack) and NZS 4246 Energy Efficiency - Installing Insulation in Residential Buildings. Visit greenstuf.co.nz to view an installation video.

MSDS: Material Safety Data Sheets (MSDS) are available on request from your GreenStuf Account Manager or can be downloaded from our website greenstuf.co.nz



PRODUCT	THICKNESS	WIDTH	FORM	WEIGHT	DENSITY
R1.5 Thermal Underfloor Blanket	100mm	450 - 650mm	Roll	750gsm	7.5kg/m ³
R1.8 Thermal Underfloor Blanket	100mm	450 - 650mm	Roll	1025gsm	10.3kg/m ³
R2.0 Thermal Underfloor blanket	115mm	450 - 650mm	Roll	1150gsm	10kg/m ³
R2.6 Thermal Underfloor Blanket	140mm	450 - 650mm	Roll	1650gsm	11.8kg/m ³
R2.9 Thermal Underfloor Blanket	140mm	450 - 650mm	Roll	1850gsm	13.2kg/m ³
R3.4 Thermal Underfloor Blanket	140mm	500mm	Roll	2850gsm	20.4kg/m ³

Specification & Substitution: GreenStuf specification documents are available through Masterspec or can be downloaded from our website greenstuf.co.nz

Substitution of any products in NZBC compliant systems should not be accepted and we recommend this be made clear in all specification and tender documents.

Takeback Programme: GreenStuf is recyclable. We will gladly recycle used polyester insulation site waste, including offcuts and packaging, to help keep it out of landfills. Please ensure used polyester insulation and offcuts are in a general state of cleanliness in line with standard site conditions. Excessive contamination, such as metal and cement, will not be accepted. Please contact your account manager to request a Material Diversion Certificate prior to dropping insulation off. For more information on recycling GreenStuf, contact us on 0800 428 839.

Packaging Recycling: GreenStuf packaging is recyclable LDPE 4. Please refer to your local recycling centres for drop off and collection services.

Environmental: GreenStuf Underfloor is manufactured using 100% polyester fibre and contains a minimum of 91% previously recycled fibre content (from PET plastic). Greenstuf views waste as a resource with potential, not something to be disposed of. With this in mind, all product trimmings and offcuts are reused, and waste material goes back through production to make more GreenStuf.

GreenStuf products are Global GreenTag GreenRate Level A certified and can be used to contribute to Green Star and Homestar accreditation.

GreenStuf is also Declare certified to be Red List chemical free and can be used in Living Building Challenge projects. For more information, please contact your GreenStuf account manager, or visit our website greenstuf.co.nz



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