

# GreenStuf®

## UNDERFLOOR

GreenStuf® Underfloor is a 100% polyester thermal insulation pre-cut to fit new and existing exposed timber joist floors.

### APPLICATIONS

GreenStuf Underfloor is designed for the thermal insulation of existing and new timber-framed buildings in accordance with Energy Efficiency requirements of the National Construction Code (NCC) of Australia.

To ensure Building Code compliance, architects and building designers are advised to consult an engineer or the relevant Australian Standards before specifying thermal insulation products. For information and assistance please contact your local Autex account manager.

**Building Regulations:** GreenStuf Underfloor will support and assist in meeting the following provisions of the NCC:

#### NCC Volume One - BCA Class 2-9 Buildings

**Section J** - Energy Efficiency: Performance requirement JP1

**Section F** - Health and Amenity: Sound Transmission and Insulation. Performance requirement FP5.1 and FP5.4

#### NCC Volume Two - BCA Class 1 and Class 10 Buildings

**Part 2.6** -Energy Efficiency: Performance requirement P2.6.1 Part 3.8.6

### TECHNICAL

**BCA Compliance:** GreenStuf complies with the requirements of AS/NZS 4859.1 Standard for insulation and will contribute in achieving the energy efficiency requirements of the NCC.

**Durability:** GreenStuf has a 50 Year Durability Warranty. When installed in accordance with the manufacturer's instructions, GreenStuf insulation will satisfy the 50 year durability criteria for minimum design life as set out in the ABCB guidance document Durability in Buildings including Plumbing Installations 2015 (section 3.4).

**Fire Regulations:** GreenStuf insulation may not be suitable for all applications, as stipulated in the BCA. Please consult a fire engineer when specifying GreenStuf insulation or contact your local Autex 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.



Declare.



PROUDLY MADE IN AUSTRALIA

**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%.

#### Fire ratings:

AS ISO 9705 - 2003

Australian Group Number: Group 1

SMOGRARC: less than 100m<sup>2</sup>/s<sup>2</sup>

Assessed using methodology AS ISO 9705:2003 in accordance with AS5637.1:2015, as required by NCC specification C1.10-4. FI4895 issued 11<sup>th</sup> July, 2012. FAR4045-2 issued 8<sup>th</sup> 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.

**Hazardous Building Materials:** GreenStuf is non-hazardous.

**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.

#### VOC Emission Safe:

VOC concentration: 0.01 mg/m<sup>3</sup> (7 days).

GECA/GreenGuard Limit: 0.25 mg/m<sup>3</sup> (7 days).

Cetec Pty Ltd (Report: RCV080408)

| PRODUCT        | NOMINAL THICKNESS (mm) | DIMENSIONS (mm) | ROLLS PER PACK | m <sup>2</sup> /PACK |
|----------------|------------------------|-----------------|----------------|----------------------|
| R1.5 Roll Form | 100mm                  | 450mm x 11600mm | 3              | 15.66m <sup>2</sup>  |
| R2.0 Roll Form | 120mm                  | 450mm x 11600mm | 3              | 15.66m <sup>2</sup>  |
| R2.5 Roll Form | 120mm                  | 450mm x 11600mm | 3              | 15.66m <sup>2</sup>  |

Other widths and pack sizes may be available on request. MOQ may apply.

**Vermin:** GreenStuf is naturally resistant to insect and vermin attack and does not contain chemical deterrents. Birds and vermin will live and nest in all bulk-fibre insulation materials if allowed access in high-risk areas. Autex recommends ensuring the buildings perimeter is vermin proofed.

**Installation:** Autex recommends that all thermal and acoustic insulation be installed in accordance with the manufacturer's instructions (included on each GreenStuf pack) and AS 3999:2015 Bulk thermal insulation - Installation.

Visit [www.greenstuf.com.au](http://www.greenstuf.com.au) to view an installation video.

**MSDS:** Material Safety Data Sheets (MSDS) are available on request from your Autex account manager or by visiting our website: [www.greenstuf.com.au](http://www.greenstuf.com.au)

**Specification & Substitution:** Autex specification documents can be downloaded from our website [www.greenstuf.com.au](http://www.greenstuf.com.au) Substitution of any products should not be accepted and we recommend this be made clear in all specification and tender documents.

**Take Back Programme:** GreenStuf is recyclable. Autex will gladly recycle used, uncontaminated GreenStuf insulation to help keep it out of landfills. For more information on recycling GreenStuf contact Autex on freephone 1800 678 160.

**Environmental:** All GreenStuf products are manufactured using 100% polyester fibre and contain a minimum of 50% previously recycled fibre (from PET plastic). GreenStuf products are manufactured under Autex's Zero Waste Programme where all manufacturing waste is recycled back into the production process. GreenStuf products are Global GreenTag GreenRate Level A certified and have been awarded Global GreenTag's Platinum Product Health Declaration. 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 Autex account manager, or visit our website [www.greenstuf.com.au](http://www.greenstuf.com.au)

**ISO Standards:** Autex is committed to Quality and Environmental best practice through our ISO 9001 & ISO 14001 Certified Quality and Environmental Management Systems.

Greenstuf® is manufactured in Australia by Autex Pty Ltd. Autex retains the right to change products and specifications without prior notice. If a specification is critical to the end use application please discuss your requirements with your Autex account manager.

GreenStuf® is a registered trademark of Autex Industries.

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