

# GreenStuf®

## SKILLION ROOF BLANKET

GreenStuf® Skillion Roof Blanket is a 100% polyester thermal insulation designed and manufactured to deliver higher R-value performance in depth-restricted construction cavities such as Skillion Roof situations.

### APPLICATIONS

GreenStuf Skillion Roof Blanket is designed for the thermal (and acoustic) insulation of buildings in accordance with New Zealand Building Code (NZBC) H1 Energy Efficiency, and G6 Acoustic Design requirements. GreenStuf Skillion Roof Blanket has been designed for common use as a roof blanket, and can also be used in ceilings, in mid-floor cavities and as a high-performance underfloor insulation. 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 Autex account manager.

### TECHNICAL

**NZBC Compliance:** When installed in accordance with the manufacturer's instructions, GreenStuf 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.

**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 Autex account manager for further information.

**Thermal Performance:** GreenStuf Skillion Roof Blanket range has been laboratory tested to ASTM C518-10 using the procedures of ASTM C653-97(2002) including the modifications specified in AS/NZS 4859.1:2002 and all products are guaranteed by Autex to meet the stated thermal performance ratings. GreenStuf Skillion Roof Blanket bales are supplied with labelling compliant with AS/NZS 4859.1:2002.

**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%.



Declare.



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

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

**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)

**Fire ratings:**

ISO 9705: 1993

Classification: Group 1-S

Smoke Production Rate: <5.0m<sup>2</sup>/s

As required by NZBC C/VM2

FAR 4045-2 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.

PRODUCT (R-value)	NOMINAL THICKNESS (mm)	PACK SIZE	PRODUCT WEIGHT(gsm)	DENSITY (kg/m <sup>3</sup> )	m <sup>2</sup> /PACK
R2.9 Skillion Roof Blanket	115mm	870mm x 2400mm x 4 pads per bale	2,650gsm	23.0kg/m <sup>3</sup>	8.35m <sup>2</sup>
R3.2 Skillion Roof Blanket	165mm	870mm x 2400mm x 4 pads per bale	2,050gsm	12.4kg/m <sup>3</sup>	8.35m <sup>2</sup>
R3.4 Skillion Roof Blanket	165mm	870mm x 2400mm x 4 pads per bale	2,200gsm	13.3kg/m <sup>3</sup>	8.35m <sup>2</sup>
R3.6 Skillion Roof Blanket	165mm	870mm x 2400mm x 4 pads per bale	2,800gsm	17.0kg/m <sup>3</sup>	8.35m <sup>2</sup>

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

**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.

**Installation:** Autex recommends that all thermal and acoustic insulation be installed in accordance with the manufacturer's instructions (included in each GreenStuf pack) and NZS 4246 Energy Efficiency - Installing Insulation in Residential Buildings.

**MSDS:** Material Safety Data Sheets (MSDS) are available on request from your Autex account manager or can be downloaded from our website: [www.greenstuf.co.nz](http://www.greenstuf.co.nz)

**Specification & Substitution:** Autex specification documents are available through Masterspec or can be downloaded from our website ([www.greenstuf.co.nz](http://www.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.

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

**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 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:** 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 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 Autex account manager, or visit our website [www.greenstuf.co.nz](http://www.greenstuf.co.nz)

GreenStuf Skillion Roof Blanket is designed to be used in skillion roof constructions while still achieving the minimum 25mm clearance between the roof underlay and insulation.

PRODUCT (R-value)	NOMINAL THICKNESS	TIMBER FRAMING
R2.9 Skillion Roof Blanket	115mm	to fit 140mm Timber Framing
R3.2 Skillion Roof Blanket	165mm	to fit 190mm Timber Framing
R3.4 Skillion Roof Blanket	165mm	to fit 190mm Timber Framing
R3.6 Skillion Roof Blanket	165mm	to fit 190mm Timber Framing

GreenStuf is manufactured in New Zealand by Autex Insulation, a division of Autex Industries Limited. Autex retains the right to change products and specifications without prior notice. If a specification is critical to end use situation please discuss your requirements with your Autex account manager.

GreenStuf® is a registered trademark of Autex Industries.

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**AUTEX**



#### Insulation

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ISO 9001 AND ISO 14001 CERTIFIED