



GreenStuf® ROLL FORM

Autex GreenStuf® is a range of quality 100% polyester thermal insulation products for ceilings, walls and floors. GreenStuf® is a soft thermally bonded bulk-fibre insulation material manufactured from polyester fibres. GreenStuf® ROLL FORM is non-irritant thermally efficient insulation material for residential and commercial applications.

GreenStuf® ROLL FORM is supplied as lofted green-tinted insulation blanket/rolls manufactured to order and pre-cut to nominated width rolls for walls, roof-ceilings, and mid-floor applications.

Features and Benefits

- GreenStuf® is completely safe and user-friendly so no protective clothing is required to handle or install the product.
- GreenStuf® does not contain any added chemicals such as formaldehyde based binders, and the fibres are not of a respirable size supporting safer indoor air quality.
- GreenStuf® will not slump or settle over time (50+ year durability rating) and is not affected by moisture, mould or mildew, and is naturally resistant to insect and vermin attack.
- GreenStuf® is manufactured using a minimum of 45% previously recycled polyester fibre (from PET plastic) and is reusable and recyclable at end of life supporting the philosophies of Environmentally Sustainable Design (ESD).

Applications

GreenStuf® ROLL FORM is designed for the thermal (and acoustic) insulation of buildings in accordance with NZBC H1 Energy Efficiency, and G6 Acoustic Design requirements. GreenStuf® ROLL FORM can be used as a roof blanket, in ceilings, internal and external walls and in mid-floor cavities. To ensure Building Code compliance Autex Insulation recommends that Architects and building designers consult the relevant NZ Standards before specifying thermal and acoustic insulation products.

NZBC H1/AS1 Energy Efficiency, 2.0 Building Thermal Envelope
 NZBC G6/VM1 Airborne and Impact Sound
 NZS 4218: Energy Efficiency - Small Building Envelope
 NZS 4243: Energy Efficiency - Large Buildings - Thermal Envelope
 NZS 4246: Energy Efficiency - Installing Insulation in Residential Buildings



PRODUCT (R Value)		NOMINAL THICKNESS	PACK SIZE (m ²)
R1.0		45mm	30m ²
R1.5		100mm	25m ²
R1.8		100mm	25m ²
R2.2		150mm	20m ²
R2.4		140mm	20m ²
R2.6	✓ (wall)	140mm	20m ²
R2.9	✓	185mm	17m ²
R3.2	✓	190mm	17m ²
R3.4	✓	200mm	17m ²

Higher performance ratings can be achieved through double-layer installation
 For information and design assistance please discuss your requirements with your Autex Representative.

NZBC Compliance

GreenStuf® thermal insulation when installed in accordance with the manufacturers 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 assist in meeting H1 Energy Efficiency.

Early Fire Hazard Test Results

GreenStuf® is a self-extinguishing product and meets all NZ Building Code requirements as tested under 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

Tested 15 April 1998, APL Report 98055

Environmental:

GreenStuf® products are manufactured in NZ by Autex Industries Limited and are produced using 100% polyester fibre without the need for any chemical binding agents or adhesives. GreenStuf® does not contain, release or use any restricted ozone depleting substances in its composition or manufacture.

There are no known hazards with the use or handling of Autex polyester insulation materials. GreenStuf® is non-toxic, non-allergenic, and non-irritant.

GreenStuf® contains a minimum of 45% previously recycled fibre (from PET plastic) and is completely recyclable at end of life. GreenStuf® is manufactured under Autex's Zero Waste Policy where manufacturing waste is recycled or reprocessed into other products.

GreenStuf® polyester fibres are not of a respirable size and will never become a potential airborne health risk providing for safer indoor air quality.

Indoor Environment Quality (IEQ)/ VOC Emissions:

Autex polyester well exceeds the leading world standards established by 'Good Environmental Choice Australia' (GECA) and The GreenGuard Environmental Institute.

GreenGuard VOC standards are the recommended maximum levels established by the US National Toxicology Program (NTP), the International Association for Research on Cancer (IARC) and the World Health Organisation (WHO).

Autex GreenStuf® polyester has been tested by Cetec Pty Ltd (Report: RCV080408) for chemical emission as follows:

VOC concentration: 0.01 mg/m³ (7days)
GECA/ GreenGuard Limit: 0.25 mg/m³ (7days)

Environmental Choice NZ:

Individual GreenStuf® products carry Environmental Choice Accreditation. Thermal performance, manufacturing ingredients and processes, energy efficiency policies, recycling and waste management programmes are the criteria taken into account. For more information refer to Autex Insulation ESD Datasheet or visit the Environmental Choice website (www.enviro-choice.org.nz).



Durability:

Autex GreenStuf® is manufactured in NZ under strict ISO 9001 quality control systems. GreenStuf® will not slump, sag or reduce its performance over time. This ensures full performance is maintained (50+ year BRANZ Durability Rating).

Autex provides a 50 year durability warranty against product failure in normal use situations. For more information please contact your Autex Representative.

Corrosiveness:

When tested in accordance with NZS 4222, GreenStuf® insulation is classified as non-corrosive. GreenStuf® polyester is pH7.8 (where pH7.0 is neutral).

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%. Should GreenStuf® ever get wet full thermal performance will be restore on drying out.

Acoustic Performance:

GreenStuf® insulation will assist sound reduction by reducing the resonating noise inside the construction cavity. Actual performance will vary with different construction systems. For acoustic design assistance please contact your Autex Representative.

Installation:

Autex Insulation recommends that all thermal and acoustic insulation be installed in accordance with the manufacturers instructions (included in each bale of GreenStuf® ROLL FORM) and NZS 4246 Energy Efficiency - Installing Insulation in Residential Buildings.

Vermin:

GreenStuf® is naturally resistant to insect and vermin attack and does not contain chemical deterrents.

MSDS:

Material Safety Data Sheets (MSDS) are available on request from your Autex Representative or by phoning Autex Customer Services freephone 0800 428 839

Specification & Substitution

Autex specification documents are available through Masterspec® or can be downloaded from our website (www.autex.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.

BRANZ Appraisal:

GreenStuf® products are independently appraised for NZBC compliance by BRANZ. Copies of the current certificate (Appraisal No. 380-2008) are available online at www.branz.co.nz or from your Autex Representative.



General:

GreenStuf® is manufactured in NZ by Autex Insulation, a division of Autex Industries Limited, an ISO 9001 certified company. 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 Representative.

GreenStuf® is a registered trademark of Autex Industries. "Healthwise" and "Proudly made in NZ" logos are registered trademarks of Autex Industries.

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AUTEX INSULATION DATA SHEET