

# MASONRY WALL BLANKET

**GreenStuf<sup>®</sup> Masonry Wall Blanket is 100% polyester thermal insulation designed for insulating strapped and lined concrete/masonry walls. GreenStuf Masonry Wall Blanket is pre-cut to fit standard timber strapping set at 600mm centres.**

## APPLICATIONS

GreenStuf Masonry Wall Blanket is designed for the thermal and acoustic insulation of strapped and lined walls in accordance with New Zealand Building Code (NZBC) H1 Energy Efficiency, and G6 Acoustic Design 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 Autex account manager.

## TECHNICAL

**NZBC Compliance:** When installed in accordance with the manufacturer's instructions, GreenStuf insulation 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 Masonry Wall Blanket has been laboratory tested to ASTM C518-10 using the procedures of ASTM C653-97(2012) including the Imodifications specified in AS/NZS 4859.1:2002, and all products are guaranteed by Autex to meet the stated thermal performance ratings.

Strapping and lining masonry walls with additional bulk-thermal insulation material to meet the R-values required under the NZS 4218:2009 must be treated as a non-solid construction when using the Schedule Method. NZS 4218: 2009 Sections 4.2 Calculation Method and 4.3 Modelling Method allows

relaxing of some R-value requirements providing this is compensated for by higher R-values elsewhere in the building thermal envelope (ie. ceiling insulation).

For NZBC compliance of strapped and lined masonry walls in residential buildings and other buildings covered by NZS 4218, we recommend demonstrating compliance via the calculation or modelling methods. For more information and assistance please discuss your requirements with your Autex account manager.

**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/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

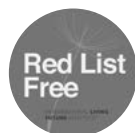
*FAR 4045-2 issued 8<sup>th</sup> October, 2013*

### 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).*

R-VALUE	THICKNESS	PACK SIZE	WEIGHT	DENSITY	M <sup>2</sup> /PACK
R0.5 Masonry Wall Blanket	20mm	590mm x 25.42m x 2 Rolls	500gsm	25.0kg/m <sup>3</sup>	30.0m <sup>2</sup>
R1.0 Masonry Wall Blanket	45mm	580mm x 12.93m x 4 Rolls	700gsm	15.6kg/m <sup>3</sup>	30.0m <sup>2</sup>
R1.3 Masonry Wall Blanket	45mm	580mm x 2.40m x 6 Slabs	2000gsm	44.44kg/m <sup>3</sup>	8.35m <sup>2</sup>



**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.

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

**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.

Autex GreenStuf Masonry Wall Blanket is manufactured from 100% polyester fibres and will not wick moisture.

As such, GreenStuf can be installed directly against concrete/masonry walls.

Timber strapping should be isolated from concrete/masonry with DPC.

GreenStuf Masonry Wall Blanket is classified as 'non-corrosive' in accordance with AS/NZS 4859.1:2018, and does not need to be isolated from electrical cabling.

**Acoustic Performance:** GreenStuf Masonry Wall Blanket will assist sound reduction through walls by reducing the resonating noise inside the construction cavity.

A commonly overlooked acoustic problem is the effect of lining masonry walls. The Sound Transmission Class (STC) can be reduced by 8 points with strapping and lining on both sides of a concrete/masonry wall unless bulk insulation is used in the cavity.

For more information and assistance in acoustic design please contact your Autex Account Manager.

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

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

**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 Masonry Wall Blanket is manufactured using 100% polyester fibre and contains a minimum of 87% 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 Autex account manager, or visit our website [greenstuf.co.nz](http://greenstuf.co.nz)

## EXAMPLE ACOUSTIC PERFORMANCE 150MM STRUCTURAL CONCRETE WITH 13MM PLASTERBOARD

PRODUCT	SOUND TRANSMISSION CLASS (STC)	
	25MM STRAPPING	50MM STRAPPING
R0.5 MWB	STC 56	-
R1.0 MWB	-	STC 60
R1.3 MWB	-	STC 61
No fill	STC 54	STC 56



PRODUCT	SOUND TRANSMISSION CLASS (STC)	
	25MM STRAPPING	50MM STRAPPING
R0.5 MWB	STC 51	-
R1.0 MWB	-	STC 56
R1.3 MWB	-	STC 57
No fill	STC 47	STC 47





**GreenStuf<sup>®</sup> FACTORY AND COLLECTIONS**

40 Westpoint Drive,  
Hobsonville, Auckland 0618,  
New Zealand

FREEPHONE **0800 428 839**

PHONE **+64 9 828 9179**

FAX **+64 9 828 5810**

WEB **greenstuf.co.nz**

AN ISO 9001, ISO 14001 AND ISO 45001 CERTIFIED COMPANY

The brand names and logos mentioned herein are registered or unregistered trademarks either owned or used under license by Autex Industries Limited or other members of the Autex Group. The contents of this document are protected by Copyright 2024 Autex Industries Ltd. All Rights Reserved.

It is the user's responsibility to determine if the product and information presented in this document are suitable for the intended application by engaging a suitably qualified consultant. The information contained in this document is correct to the best of our knowledge at the date of its publication. To verify that this document is the most current publication please check our website or contact your GreenStuf<sup>®</sup> account manager.