

GreenStuf®

MASONRY WALL BLANKET

GreenStuf® 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 modifications 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 a 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



Declare.



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/m³ (7 days).
 GECA/GreenGuard Limit: 0.25 mg/m³ (7 days).

Cetec Pty Ltd (Report: RCV080408)

Fire ratings:

ISO 9705: 1993

Classification: Group 1-5
 Smoke Production Rate: <5.0m²/s
 As required by NZBC C/VM2

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)

PRODUCT (R-value)		NOMINAL THICKNESS (mm)	PACK SIZE	PRODUCT WEIGHT (gsm)	DENSITY (kg/m ³)	m ² /PACK
R0.5 Masonry Wall Blanket		20mm	590mm x 25.42m x 2 Rolls	500gsm	25.0kg/m ³	30.0m ²
R1.0 Masonry Wall Blanket	✓	45mm	580mm x 12.93m x 4 Rolls	700gsm	15.6kg/m ³	30.0m ²
R1.3 Masonry Wall Blanket	✓	45mm	580mm x 2.40m x 6 Slabs	2,700gsm	60.0kg/m ³	8.35m ²

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: www.greenstuf.co.nz

Specification & Substitution: Autex specification documents are available through Masterspec or can be downloaded from our website 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

WALL CONSTRUCTION - ACOUSTIC PERFORMANCE:

PRODUCT (R-value)	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 (R-value)	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




Insulation
Autex Industries Ltd
 702 - 718 Rosebank Rd
 Private Bag 19988,
 Avondale 1746, Auckland
 New Zealand
 Phone +64 9 828 9179
 Fax +64 9 828 5810
 Freephone 0800 428 839
www.autex.co.nz

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.

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