



# Masonry Wall Blanket

GreenStuf® MASONRY WALL BLANKET is 100% polyester thermal insulation blanket/rolls 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 NZBC H1 Energy Efficiency, and G6 Acoustic Design requirements. To ensure Building Code compliance Autex Insulation recommends that Architects and building designers consult the relevant NZ Standards before specifying thermal 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

## Technical

**NZBC Compliance:** GreenStuf® thermal insulation when installed in accordance with the manufacturer's 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 contribute to meeting H1 Energy Efficiency.

**Thermal Performance:** GreenStuf® MASONRY WALL BLANKET has been laboratory tested to ASTM C518-04 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 must be treated as a non-solid construction when using the Schedule Method. NZS 4218: 2004 Sections 3.2 Calculation Method and 3.3 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 calculation or modelling methods. For more information and assistance please discuss your requirements with your Autex Representative.



**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)*

**Non-Flammable:** GreenStuf® is classified non-flammable.

**Fire ratings:**

ISO 9705: 1993

Classification: Group 1-S  
 Smoke Production Rate: <5.0m<sup>2</sup>/s  
 As required by NZBC C/VM2

*Tested 20 Aug 2012, BRANZ (FI 4973)*

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*

**Non-Corrosive:** GreenStuf® polyester is pH7.8 (pH7 is neutral).

**Non-Toxic, Non-Allergenic, Non-Irritant:** There are no known hazards with the use or handling of GreenStuf® polyester.

PRODUCT (R Value)	NOMINAL THICKNESS (mm)	PACK SIZE	m <sup>2</sup> /PACK
R0.5 Masonry Wall Blanket	20mm	590mm x 25.42m x 2 Rolls	30.0m <sup>2</sup>
R1.0 Masonry Wall Blanket	45mm	580mm x 12.93m x 4 Rolls	30.0m <sup>2</sup>
R1.3 Masonry Wall Blanket	45mm	580mm x 2.40m x 6 Slabs	8.35m <sup>2</sup>

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

**Installation:** Autex Insulation 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 NZS 4222, 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 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 Representative.

**MSDS:** Material Safety Data Sheets (MSDS) are available on request from your Autex Representative or by visiting our website: [www.autex.co.nz](http://www.autex.co.nz)

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

**Take Back Programme:** Autex will gladly recycle used, uncontaminated GreenStuf® insulation to help keep it out of landfill. For more information on recycling GreenStuf® contact Autex on freephone 0800 428 839.

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

**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



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GreenStuf® is a registered trademark of Autex Industries.

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**AUTEX**



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ISO 9001 AND ISO 14001 CERTIFIED