

# GreenStuf®

## THERMAL BATTS

GreenStuf® Thermal Batts are a 100% polyester thermal insulation segments pre-cut to fit common timber-framed walls, ceilings and mid-floor joist spacings.

### APPLICATIONS

GreenStuf Thermal Batts are designed for the thermal insulation of residential and commercial buildings. GreenStuf Thermal Batts can be used in ceilings, internal and external walls and mid-floor cavities.

To ensure Building Code compliance, architects and building designers are advised to consult an engineer or consult the relevant Australian Standards before specifying thermal insulation products. For information and assistance please contact your local Autex account manager.

### TECHNICAL

**Building Regulations:** GreenStuf insulation will support and assist in meeting the following provisions of the NCC:

**NCC Volume One - BCA Class 2-9 Buildings**

**Section J** - Energy Efficiency: Performance requirement JP1

**NCC Volume One - BCA Class 2-3 and 9c Buildings**

**Section F** - Health and Amenity: Sound Transmission and Insulation.

Performance requirement FP5.1, FP5.2, FP5.4 and FP 5.5.

**NCC Volume Two - BCA Class 1 and Class 10 Buildings**

**Part 2.6** -Energy Efficiency: Performance requirement P2.6.1

**Part 3.8.6** - Health and Amenity, Sound Insulation:

Performance requirements P2.4.6



**Acoustic Performance:** GreenStuf insulation will assist sound reduction by reducing the resonating noise inside the construction cavity. Typical improvement of sound transmission loss through walls with the use of GreenStuf R2.0 Wall insulation is an increase of 5-6 Rw points. For information and assistance on thermal and acoustic design please contact your Autex account manager.

**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 Corrosive:** GreenStuf polyester is considered non-corrosive based on AS/NZS 4859.1 standard for insulation.

PRODUCT	NOMINAL THICKNESS (mm)	DIMENSIONS (mm)	BATTS PER PACK	m <sup>2</sup> /PACK
R1.5 Wall Batts	90mm	430mm x 1160mm	16	7.98m <sup>2</sup>
		580mm x 1160mm		10.76m <sup>2</sup>
R2.0 Wall Batts	90mm	430mm x 1160mm	12	5.99m <sup>2</sup>
		580mm x 1160mm		8.07m <sup>2</sup>
R2.5 Wall Batts	90mm	430mm x 1160mm	6	2.99m <sup>2</sup>
		580mm x 1160mm		4.04m <sup>2</sup>
R2.0 Ceiling Batts	120mm	430mm x 1160mm	12	5.99m <sup>2</sup>
		580mm x 1160mm		8.07m <sup>2</sup>
R2.5 Ceiling Batts	165mm	430mm x 1160mm	8	3.99m <sup>2</sup>
		580mm x 1160mm		5.38m <sup>2</sup>
R3.0 Ceiling Batts	185mm	430mm x 1160mm	8	3.99m <sup>2</sup>
		580mm x 1160mm		5.38m <sup>2</sup>
R3.5 Ceiling Batts	200mm	430mm x 1160mm	6	2.99m <sup>2</sup>
		580mm x 1160mm		4.04m <sup>2</sup>
R4.0 Ceiling Batts	210mm	430mm x 1160mm	4	2.00m <sup>2</sup>
		580mm x 1160mm		2.69m <sup>2</sup>
R4.5 Ceiling Batts	210mm	430mm x 1160mm	4	2.00m <sup>2</sup>
		580mm x 1160mm		2.69m <sup>2</sup>

**Durability:** GreenStuf has a 50 Year Durability Warranty. When installed in accordance with the manufacturer's instructions, GreenStuf insulation will satisfy the 50 year durability criteria for minimum design life as set out in the ABCB guidance document Durability in Buildings including Plumbing installations 2015 (section 3.4).

**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%.

**Fire Regulations:** GreenStuf insulation may not be suitable for all applications, as stipulated in the NCC. Please consult a fire engineer when specifying GreenStuf insulation or contact your local Autex account manager for further information.

#### Fire ratings:

##### AS ISO 9705 - 2003

Australian Group Number: Group 1

SMOGRARC: less than 100m<sup>2</sup>/s<sup>2</sup>

Assessed using methodology AS ISO 9705:2003 in accordance with AS5637.1:2015, as required by NCC specification C1.10-4. FAR4045-2 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 (Downtight Fire Test Standard)

GreenStuf has been tested and assessed as complying with IEC 60695-11-5 Needle-Flame Test.

Certificates available on request.

**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 on each GreenStuf pack) and AS 3999:2015 Bulk thermal insulation - Installation.

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

**MSDS:** Material Safety Data Sheets (MSDS) are available on request from your Autex account manager or by visiting our website [www.greenstuf.com.au](http://www.greenstuf.com.au)

**Specification & Substitution:** Autex specification documents can be downloaded from our website [www.greenstuf.com.au](http://www.greenstuf.com.au)

Substitution of any products should not be accepted and we recommend this be made clear in all specification and tender documents.

**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 1800 678 160.

**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 have been awarded Global GreenTag's Platinum Product Health Declaration. 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.com.au](http://www.greenstuf.com.au)

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

Greenstuf® is manufactured in Australia by Autex Australia Pty Ltd. Autex retains the right to change products and specifications without prior notice. If a specification is critical to the end use application please discuss your requirements with your Autex account manager.

GreenStuf® is a registered trademark of Autex Industries.

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