

# GreenStuf®

## SOUND SOLUTION®

GreenStuf® Sound Solution® is a 100% polyester acoustic insulation designed for timber framed residential and light commercial applications. GreenStuf Sound Solution is supplied in batts and rolls pre-cut to fit standard timber-framed walls and mid-floor joist spacings.

### APPLICATIONS

GreenStuf Sound Solution is ideally suited for use in timber-framed walls and mid-floor cavities for reducing airborne sound transfer. GreenStuf Sound Solution reduces resonating noise in the construction cavity thereby reducing the sound energy transferred from one side to the other. Further improvements can be achieved by using acoustically rated plasterboard, multiple layers of plasterboard, or by isolating the plasterboard from the stud.

The National Construction Code of Australia (NCC) sets out minimum performance ratings for inter-tenancy walls and floor-ceiling construction. The performance of a construction system relies on the design, materials and installation. Acoustic design for NCC compliance requires specialist design considerations.

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

### TECHNICAL

**Acoustic Performance:** Rw is the industry accepted means of determining a material or assembly's ability to resist airborne sound transfer. A higher Rw rating blocks more noise from transmitting through a construction system.

GreenStuf Sound Solution will assist in reducing the resonating noise inside the construction cavity. Typical improvement in sound transmission loss through walls with the use of GreenStuf Sound Solution is an increase of 5-8 Rw points, effectively reducing loud voices to a slight murmur.



Typical improvement in sound transmission loss through a common residential mid-floor construction with the use of GreenStuf Sound Solution is an increase of 5-7 Rw points.

**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

**Thermal Performance:** GreenStuf Sound Solution complies with the requirements as set out in AS/NZS4859.1 standard for insulation. For increased thermal performance options, Autex recommends the use of the GreenStuf Thermal Insulation range.

**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.

**Hazardous Building Materials:** GreenStuf is non-hazardous.

PRODUCT	R-VALUE	NOMINAL THICKNESS (mm)	DIMENSIONS (mm)	BATTS/ROLLS PER PACK	m <sup>2</sup> /PACK
R1.5 Batts	R1.5	75mm	430mm x 1160mm	8 Batts	3.99m <sup>2</sup>
R1.5 Batts	R1.5	75mm	580mm x 1160mm	8 Batts	5.38m <sup>2</sup>
R2.0 Batts	R2.0	90mm	430mm x 1160mm	8 Batts	3.99m <sup>2</sup>
R2.0 Batts	R2.0	90mm	580mm x 1160mm	8 Batts	5.38m <sup>2</sup>
R2.5 Batts	R2.5	100mm	430mm x 1160mm	8 Batts	3.99m <sup>2</sup>
R2.5 Batts	R2.5	100mm	580mm x 1160mm	8 Batts	5.38m <sup>2</sup>
R2.5 Roll Form	R2.5	100mm	430mm x 11600mm	3 Rolls	14.96m <sup>2</sup>
R2.5 Roll Form	R2.5	100mm	580mm x 11600mm	2 Rolls	13.46m <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%.

**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.

**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.

**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 02116

IEC 60695-11-5 (Downlight Fire Test Standard)

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

Certificates available on request.

**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.

**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 are available 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:** Autex will take back to recycle, 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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