



## Sound Solution

GreenStuf® SOUND SOLUTION® is a 100% polyester acoustic insulation material 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. 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 Building Code of Australia (BCA) 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 BCA compliance requires specialist design considerations. For information and assistance please contact your Autex Representative.

### Performance

**Building Regulations:** GreenStuf® Insulation will support and assist in meeting the following provisions of the BCA:  
 BCA Volume One - Class 2-9 Buildings  
 Section J - Energy Efficiency: Performance requirement JP1  
 BCA Volume One - 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.  
 BCA Volume Two - 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:** 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 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 SOUND SOLUTION® is an increase of 5-7 Rw points.

**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.

### Technical

**Durability:** GreenStuf® has a 50 Year Durability Warranty. GreenStuf® thermal insulation when installed in accordance with the manufacturer's instructions will satisfy the 50 year durability criteria for minimum design life as set out in the ABCB guidance document Durability in Buildings 2006 (Section 2.4).

PRODUCT	R-VALUE	NOMINAL THICKNESS	PACK SIZE	m <sup>2</sup> /PACK
SOUND SOLUTION® 75	R1.5	75mm	430mm x 1160mm x 8 batts	3.99m <sup>2</sup>
SOUND SOLUTION® 75	R1.5	75mm	580mm x 1160mm x 8 batts	5.38m <sup>2</sup>
SOUND SOLUTION® 90	R2	90mm	430mm x 1160mm x 8 batts	3.99m <sup>2</sup>
SOUND SOLUTION® 90	R2	90mm	580mm x 1160mm x 8 batts	5.38m <sup>2</sup>
SOUND SOLUTION® 100 ROLL	R2.5	100mm	430mm x 11.6m x 3 rolls	14.96m <sup>2</sup>
SOUND SOLUTION® 100 ROLL	R2.5	100mm	580mm x 11.6m x 2 rolls	13.46m <sup>2</sup>

**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 Corrosive:** GreenStuf® polyester is pH7.8 (pH 7 is neutral)

**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.

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

**Fire ratings:**

ISO 9705: 1993

Australian Group Number: Group 1

SMOGRA<sub>RC</sub>: less than 100m<sup>2</sup>/s<sup>2</sup>

Report number 02116

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

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

GreenStuf® has been tested and certified non-flammable and complies with the requirements of IEC 60695-11-5.

Certificates available from our website.

**Installation:** Autex Insulation recommends that all thermal and acoustic insulation be installed in accordance with the manufacturers instructions (included on each GreenStuf® pack) and AS 3999:1992 Thermal Insulation of Dwellings - Bulk insulation, installation requirements.

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

**Specification & Substitution:** Autex specification documents are available from our website ([www.autex.com.au](http://www.autex.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 landfill. For more information on recycling GreenStuf contact Autex on freephone 1800 678 160.

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

**AUTEX**



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