

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 segments and rolls pre-cut to fit standard timber framed walls and mid-floor joist spacings.

APPLICATIONS

GreenStuf Sound Solution can be used 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 New Zealand Building Code (NZBC) 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 NZBC compliance requires specialist design considerations.

To ensure Building Code compliance, architects and building designers are advised to consult an engineer or the relevant NZ standards before specifying 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 may contribute to meeting H1 Energy Efficiency, and G6 Acoustic Design requirements.

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.

Acoustic Performance: The Sound Transmission Class (STC) is the industry accepted means of determining a material or assembly's ability to resist airborne sound transfer. A higher STC 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



Declare.



transmission loss through walls with the use of GreenStuf Sound Solution is an increase of 6-7 STC 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 STC points.

Thermal Performance: GreenStuf Sound Solution has been laboratory tested to ASTM C518-10 using the procedures of ASTM C653-97(2002) including the modifications specified in AS/NZS 4859.1:2002.

Material Thermal Resistance: 1.8m² K/W @ 15°C

Product R-Value: R1.8 @ 90mm

All products are guaranteed by Autex to meet stated thermal performance values.

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%.

PRODUCT	NOMINAL THICKNESS (mm)	PACK SIZE	PRODUCT WEIGHT (gsm)	DENSITY (kg/m ³)	m ² /PACK
SOUND SOLUTION® PADS	90mm	580mm x 1.16m x 17 pads	1100 gsm	12.22 kg/m ³	11.4m ²
SOUND SOLUTION® (430) ROLL	90mm	430mm x 11.63m x 5 rolls	1100 gsm	12.22 kg/m ³	25.0m ²
SOUND SOLUTION® (580) ROLL	90mm	580mm x 10.78m x 4 rolls	1100 gsm	12.22 kg/m ³	25.0m ²
SOUND SOLUTION® IT (560) ROLL*	90mm	560mm x 8.04m x 4 rolls	1325 gsm	14.7 kg/m ³	18.0m ²

*Approved for use in GIB Noise Control Systems 2017

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)

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.

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

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 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 Insulation recommends that all thermal and acoustic insulation be installed in accordance with the manufacturer's instructions (included on each GreenStuf pack) and NZS 4246 Energy Efficiency - Installing Insulation in Residential Buildings.

With a drained cavity wall construction and stud spacings greater than 450mm, NZBC E2/AS1, 9.1.8.5 Wall Framing behind Cavities, requires stud straps to prevent insulation bulging into the cavity. Straps must be run at 300mm centres over the wall underlay.

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

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.

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

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.

GreenStuf® is a registered trademark of Autex Industries.

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ISO 9001 AND ISO 14001 CERTIFIED