



# SOUND SOLUTION®

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

## PRODUCT TYPE

**Rolls:** GreenStuf® Sound Solution® Classic rolls in 11.6m<sup>2</sup> packs are manufactured using 100% reclaimed polyester material, sourced from reclaimed insulation site waste, offcuts and textile material.

GreenStuf Sound Solution Classic rolls in 25.0m<sup>2</sup> packs are manufactured using 100% polyester fibre and contain a minimum of 85% recycled fibre.

**Pads:** GreenStuf Sound Solution Classic pads are manufactured using 100% polyester fibre and contain a minimum of 85% recycled fibre.

## 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 GreenStuf 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 GreenStuf Account Manager for further information.

### Fire ratings:

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

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

**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 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: 1.8m<sup>2</sup> K/W @ 15°C  
Product R-Value: R1.8 @ 90mm

All products are guaranteed by GreenStuf 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%.

**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.

**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 GreenStuf Account Manager or can be downloaded from our website [greenstuf.co.nz](http://greenstuf.co.nz)

**Installation:** GreenStuf 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:** GreenStuf is committed to Occupational Health and Safety, Quality and Environmental best practice through our ISO 45001, ISO 9001 and ISO 14001 certified management systems.

**Specification & substitution:** GreenStuf specification documents are available through Masterspec or can be downloaded from our website [greenstuf.co.nz](http://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.

**Takeback Programme:** GreenStuf is recyclable. We will gladly recycle used polyester insulation site waste, including offcuts and packaging, to help keep it out of landfills. Please ensure used polyester insulation and offcuts are in a general state of cleanliness in line with standard site conditions. Excessive contamination, such as metal and cement, will not be accepted. Please contact your account manager to request a Material Diversion Certificate prior to dropping insulation off. For more information on recycling GreenStuf, contact us on 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:** GreenStuf Sound Solution Classic rolls in 11.6 m<sup>2</sup> per pack are created using 100% reclaimed polyester material. Material is sourced from reclaimed insulation site waste, offcuts and textile material through our Takeback Programme.

GreenStuf Sound Solution Classic rolls in 25.0m<sup>2</sup> per pack rolls are manufactured using 100% polyester fibre and contain a minimum of 92% recycled fibre.

GreenStuf Sound Solution pads are manufactured using 100% polyester and contain a minimum of 85% previously recycled fibre content (from PET plastic). Greenstuf views waste as a resource with potential, not something to be disposed of. With this in mind, all product trimmings and offcuts are reused, and waste material goes back through production to make more GreenStuf.

All 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 GreenStuf Account Manager, or visit our website [greenstuf.co.nz](http://greenstuf.co.nz)

## SOUND SOLUTION® CLASSIC

| PRODUCT                            | THICKNESS | WIDTH       | TYPE | WEIGHT  | DENSITY               | M <sup>2</sup> /PACK |
|------------------------------------|-----------|-------------|------|---------|-----------------------|----------------------|
| Sound Solution Classic             | 90mm      | 580mm       | Pads | 1100gsm | 12.2kg/m <sup>3</sup> | 11.4                 |
| Sound Solution Classic             | 90mm      | 430 - 580mm | Roll | 1100gsm | 12.2kg/m <sup>3</sup> | 25.0                 |
| Sound Solution Classic (Reclaimed) | 90mm      | 580mm       | Roll | 1100gsm | 12.2kg/m <sup>3</sup> | 11.6                 |

## SOUND SOLUTION® PLUS (ASB)

| PRODUCT                         | THICKNESS | WIDTH | TYPE | WEIGHT  | DENSITY                 | M <sup>2</sup> /PACK |
|---------------------------------|-----------|-------|------|---------|-------------------------|----------------------|
| Sound Solution Plus 50 (ASB 3)  | 50mm      | 600mm | Roll | 735gsm  | 14.7kg/m <sup>3</sup> * | 19.8                 |
| Sound Solution Plus 60 (ASB 4)  | 60mm      | 600mm | Roll | 750gsm  | 12.5kg/m <sup>3</sup>   | 13.3                 |
| Sound Solution Plus 70 (ASB 5)  | 70mm      | 600mm | Roll | 900gsm  | 12.9kg/m <sup>3</sup>   | 13.3                 |
| Sound Solution Plus 75 (ASB 6)  | 75mm      | 600mm | Roll | 1105gsm | 14.7kg/m <sup>3</sup> * | 13.3                 |
| Sound Solution Plus 90(ASB IT)  | 90mm      | 560mm | Roll | 1325gsm | 14.7kg/m <sup>3</sup> * | 18.0                 |
| Sound Solution Plus 120 (ASB 7) | 120mm     | 600mm | Roll | 1680gsm | 14kg/m <sup>3</sup>     | 13.3                 |

\* These products have been tested and approved for direct substitution into GIB acoustic systems - Refer to GreenStuf GIB Noise Control Systems supplement for details.

## SOUND SOLUTION® PRO

| PRODUCT               | THICKNESS | WIDTH | TYPE | WEIGHT  | DENSITY             | M <sup>2</sup> /PACK |
|-----------------------|-----------|-------|------|---------|---------------------|----------------------|
| Sound Solution Pro 50 | 50mm      | 600mm | Roll | 800gsm  | 16kg/m <sup>3</sup> | 19.8                 |
| Sound Solution Pro 75 | 75mm      | 600mm | Roll | 1200gsm | 16kg/m <sup>3</sup> | 13.3                 |



### GreenStuf® FACTORY AND COLLECTIONS

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