



## QuietStuf® SOUND SOLUTION®

Autex QuietStuf® is a range of quality 100% polyester acoustic insulation products for walls and floors. QuietStuf® is a soft thermally bonded bulk-fibre insulation material manufactured from polyester fibres.

QuietStuf® SOUND SOLUTION® is a non-irritant acoustic insulation material designed for timber stud residential and light commercial applications. QuietStuf® SOUND SOLUTION® is supplied as lofted blue-tinted insulation segments and rolls pre-cut to fit standard timber framed walls and mid-floor joist spacings.

### Features and Benefits

- QuietStuf® SOUND SOLUTION® is manufactured using the latest in polyester fibre technology to ensure optimum acoustic performance.
- QuietStuf® polyester products are completely safe and user-friendly so no protective clothing is required to handle or install the product.
- QuietStuf® polyester is not carcinogenic and does not contain any added chemicals such as formaldehyde based binders. QuietStuf® polyester fibres are not of a respirable size and will never become a potential airborne pollutant providing safer indoor air quality.
- QuietStuf® SOUND SOLUTION® will not slump or settle over time (50+ year durability rating) and is not affected by moisture, mould or mildew, and is naturally resistant to insect and vermin attack.
- QuietStuf® SOUND SOLUTION® is manufactured from a high percentage of previously recycled polyester fibre (from PET plastic) and is reusable and recyclable at end of life – supporting the philosophies Environmentally Sustainable Design (ESD).



### Applications

QuietStuf® SOUND SOLUTION® can be used 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. Typical improvement with the use of SOUND SOLUTION® in sound transmission reduction through walls is an increase of 6-7 STC points. 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. For information and assistance please contact your Autex Representative.

PRODUCT	NOMINAL THICKNESS (mm)	PACK SIZE
SOUND SOLUTION® PADS	90mm	580mm x 1160mm x 17 pads (11.4m <sup>2</sup> )
SOUND SOLUTION® (430) ROLL	90mm	430mm x 11.63m x 5 rolls (25.0m <sup>2</sup> )
SOUND SOLUTION® (580) ROLL	90mm	580mm x 10.78m x 4 rolls (25.0m <sup>2</sup> )

### NZBC Compliance

QuietStuf® SOUND SOLUTION® when installed in accordance with the manufacturers instructions will satisfy the 50 year durability clause NZBC B2.3.1(a). QuietStuf® meets the relevant clauses of NZBC E3 Internal Moisture and F2 Hazardous Building Materials.

#### Early Fire Hazard Test Results

QuietStuf® is a self-extinguishing product and meets all NZ Building Code requirements as tested under 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

Tested 27 August 2002, APL Report 02116

### Environmental:

QuietStuf® products are manufactured in NZ by Autex Industries Limited and are produced using 100% polyester fibre without the need for any chemical binding agents or adhesives. QuietStuf® does not contain, release or use any restricted ozone depleting substances in its composition or manufacture.

There are no known hazards with the use or handling of Autex polyester insulation materials. QuietStuf® is non-toxic, non-allergenic, and non-irritant.

QuietStuf® SOUND SOLUTION® contains a high percentage of previously recycled fibre (from PET plastic) and is completely recyclable at end of life. QuietStuf® is manufactured under Autex's Zero Waste Policy where manufacturing waste is recycled or reprocessed into other products.

QuietStuf® polyester fibres are not of a respirable size and will never become a potential airborne health risk providing for safer indoor air quality.

### Indoor Environmental Quality (IEQ)/ VOC Emissions:

Autex polyester well exceeds the leading world standards established by 'Good Environmental Choice Australia' (GECA) and The GreenGuard Environmental Institute.

GreenGuard VOC standards are the recommended maximum levels established by the US National Toxicology Program (NTP), the International Association for Research on Cancer (IARC) and the World Health Organisation (WHO). Autex polyester has been tested by Cetec Pty Ltd (Report: RCV080408) for chemical emission as follows;

VOC concentration: 0.01 mg/m<sup>3</sup> (7days)  
 GECA/ GreenGuard Limit: 0.25 mg/m<sup>3</sup> (7days)

### Durability:

Autex QuietStuf® is manufactured in NZ under strict ISO 9001 quality control systems. SOUND SOLUTION® will not slump, sag or reduce its performance over time. This ensures full performance is maintained (50+ year BRANZ Durability Rating).

Autex provides a 50 year durability warranty against product failure in normal use situations. For more information please contact your Autex Representative.

### Acoustic Performance:

The Sound Transmission Class (STC) is the industry accepted means by 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.

QuietStuf® SOUND SOLUTION® will assist sound reduction by 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 6-7 STC points, effectively reducing loud voices to a slight murmur.

SOUND SOLUTION® will also assist in reducing airborne and impact noise in mid-floor cavities. Typical improvement in sound transmission loss through a common mid-floor construction with the use of SOUND SOLUTION® is increase of 5-7 STC points. For more information and assistance in acoustic design please contact your Autex Representative.

### Moisture:

Autex Polyester 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%. Should SOUND SOLUTION® ever get wet, full performance will be restored on drying out.

### Specification & Substitution

Autex specification documents are available through Masterspec® or can be downloaded from our website ([www.autex.co.nz](http://www.autex.co.nz)).

Substitution of acoustic insulation materials or components can have a significant impact on system performance. Substitutions should not be accepted and we recommend this be made clear in all specification and tender documents.

### Thermal Performance:

QuietStuf® SOUND SOLUTION® nsulation has been laboratory tested to ASTM C518-04 for thermal performance as follows.

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

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

### Installation:

Autex Insulation recommends that all thermal and acoustic insulation be installed in accordance with the manufacturers instructions (included on each SOUND SOLUTION® pack) and NZS 4246 Energy Efficiency - Installing Insulation in Residential Buildings.

### Corrosiveness:

When tested in accordance with NZS 4222, Autex polyester insulation is classified as non-corrosive. Autex polyester is pH7.8 (where pH7.0 is neutral).

### Vermin:

QuietStuf® is naturally resistant to insect and vermin attack and does not contain chemical deterrents.

### MSDS:

Material Safety Data Sheets (MSDS) are available on request from your Autex Representative or by phoning Autex Customer Services freephone 0800 428 839.

### General:

QuietStuf® is manufactured in NZ by Autex Insulation, a division of Autex Industries Limited, an ISO 9001 certified company. 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 Representative.

QuietStuf® is a registered trademark of Autex Industries. "Healthwise" and "Proudly made in NZ" logos are registered trademarks of Autex Industries.

**AUTEX**



#### Insulation

**Autex Industries Ltd**  
 702 - 718 Rosebank Rd  
 Private Bag 19988,  
 Avondale 1746, Auckland  
 New Zealand  
 Phone +64 9 828 9179  
 Fax +64 9 828 5810  
 Freephone 0800 428 839  
[www.autex.co.nz](http://www.autex.co.nz)