

# GreenStuf<sup>®</sup> THERMAL CEILING INSULATION

**GreenStuf<sup>®</sup> Thermal Ceiling Insulation is a 100% polyester thermal insulation for ceilings in residential and commercial buildings. GreenStuf Thermal Ceiling Insulation is available in pads ideal for placing between joists and trusses, and roll form ideal for rolling out between joists and trusses and as a blanket. GreenStuf Thermal Ceiling Insulation contains a minimum of 82% previously recycled fibre content.**

## RELEVANT BUILDING CODE CLAUSES AND HOW PRODUCT IS EXPECTED TO CONTRIBUTE TO COMPLIANCE

- **B2 Durability:** Performance clauses B2.3.1(a) and B2.3.2.  
GreenStuf Thermal Ceiling Insulation is expected to have a serviceable life of at least 50 years where the insulation is not crushed or exposed to conditions that will degrade its performance and the building is maintained so that the provisions of E2 and E3 clauses are met.
- **E3 Internal Moisture:** Performance E3.3.1.  
GreenStuf Thermal Ceiling Insulation R-values have been determined by testing to AS/NZS 4859.1:2018.
- **F2 Hazardous Building Materials:** Performance F2.3.1.  
There are no known hazards when using or handling GreenStuf Thermal Ceiling Insulation.
- **H1 Energy Efficiency:** Performance clauses H1.3.1(a) and H1.3.2E.  
GreenStuf Thermal Ceiling Insulation R-values have been determined by testing to AS/NZS 4859.1:2018.

## LIMITATIONS ON USE OF BUILDING PRODUCT

- GreenStuf Thermal Ceiling Insulation must be installed only when the building is enclosed and when construction materials have achieved the required maximum moisture content or less.
- GreenStuf Thermal Ceiling Insulation might not be suitable for some ceiling applications as stipulated in NZBC C1-C6 Protection from fire. Please consult a fire engineer before specifying GreenStuf insulation.

## DESIGN REQUIREMENTS SUPPORTING APPROPRIATE USE OF BUILDING PRODUCT

- GreenStuf Thermal Ceiling Insulation is designed to be friction fitted between ceiling or roof framing members. GreenStuf Thermal Ceiling Insulation can also be laid directly over ceiling lining, over ceiling battens or joist/truss chords.
- Minimum separation of 25mm between GreenStuf Thermal Ceiling Insulation and any rigid substrate or flexible roof underlay must be ensured to prevent moisture transfer and provide roof ventilation.
- When using double layer insulation in purlin and skillion roofs, it might not be possible to achieve a 25mm gap between the underlay and insulation. In such cases, a ventilated cavity must be added between roofing and roof underlay.

## INSTALLATION REQUIREMENTS

- GreenStuf Thermal Ceiling Insulation must be installed according to the Install Instructions included in each GreenStuf pack and NZS 4246.
- GreenStuf Thermal Ceiling Insulation must be released from packaging and allowed to re-loft prior to installation. The time to re-loft depends upon the length of time the product has been packaged and stored, as well as the environmental conditions it is left in after being taken out from its packaging.
- GreenStuf Thermal Ceiling Insulation must be neatly friction-fitted between framing members ensuring no gaps.
- When using double-layer insulation in truss roofs, lay the first insulation layer between ceiling joists and over ceiling battens, then the top insulation layer at right angles to, and over the top of the ceiling joists, leaving no gaps.
- When using double-layer insulation in skillion roofs, friction fit both layers between rafters.
- All of the ceiling area should be covered with insulation, including the top plates of exterior walls, except around heating flues, non-CA/Ic rated recessed lights or non-ducted extractor fans.
- Refer to NZS 4246 for required minimum clearances to heating appliances, light fittings and downlights.
- Where possible, insulation should be placed beneath electrical wiring or plumbing.

## MAINTENANCE REQUIREMENTS

- GreenStuf Thermal Ceiling Insulation must not be compressed over its serviceable life. Compressing GreenStuf Thermal Ceiling Insulation can lead to reduced thermal performance.
- If GreenStuf Thermal Ceiling Insulation becomes damp or wet while in service, it must be removed and the cause of dampness must be resolved. Cavities must be clean and dry before new insulation is placed.

# GreenStuf<sup>®</sup> THERMAL WALL INSULATION

**GreenStuf<sup>®</sup> Thermal Wall Insulation are semi-rigid thermal insulation made from 100% polyester and pre-cut to fit common timber-framed walls. GreenStuf Thermal Wall Insulation is available in pads and roll form. GreenStuf Thermal Wall Insulation contains a minimum of 82% previously recycled fibre content (from PET plastic).**

## RELEVANT BUILDING CODE CLAUSES AND HOW PRODUCT IS EXPECTED TO CONTRIBUTE TO COMPLIANCE

- **B2 Durability:** Performance clauses B2.3.1(a) and B2.3.2.  
GreenStuf Thermal Wall Insulation is expected to have a serviceable life of at least 50 years where the insulation is not crushed or exposed to conditions that will degrade its performance and the building is maintained so that the provisions of E2 and E3 clauses are met.
- **E3 Internal Moisture:** Performance E3.3.1.  
GreenStuf Thermal Wall Insulation R-values have been determined by testing to AS/NZS 4859.1:2018.
- **F2 Hazardous Building Materials:** Performance F2.3.1.  
There are no known hazards when using or handling GreenStuf Thermal Wall Insulation.
- **H1 Energy Efficiency:** Performance clauses H1.3.1(a) and H1.3.2E.  
GreenStuf Thermal Wall Insulation R-values have been determined by testing to AS/NZS 4859.1:2018.

## LIMITATIONS ON USE OF BUILDING PRODUCT

- GreenStuf Thermal Wall Insulation must be installed only when the building is enclosed and when construction materials have achieved the required maximum moisture content or less.
- GreenStuf Thermal Wall Insulation might not be suitable for some external wall applications as stipulated in NZBC C1-C6 Protection from fire. Please consult a fire engineer before specifying GreenStuf insulation in external walls.

## DESIGN REQUIREMENTS SUPPORTING APPROPRIATE USE OF BUILDING PRODUCT

- GreenStuf Thermal Wall Insulation is designed to be friction fitted inside wall framing.
- When selecting a GreenStuf Thermal Wall Insulation product, it must be made sure that the product fits inside the wall cavity.
- When GreenStuf Thermal Wall Insulation is installed in a wall with a drained cavity, studs must be strapped to prevent insulation bulging into the cavity.
- When retrofitting GreenStuf Thermal Wall Insulation in external walls without wall underlay and with direct-fixed claddings, use a product that is at least 20mm thinner than the framing, e.g. Thermal Wall Pads 70mm must be specified in 90mm timber frame.

## INSTALLATION REQUIREMENTS

- GreenStuf Thermal Wall Insulation must be installed according to the Install Instructions included in each GreenStuf pack and NZS 4246.
- GreenStuf Thermal Wall Insulation must be released from packaging and allowed to re-loft prior to installation. The time to re-loft depends upon the length of time the product has been packaged and stored, as well as the environmental conditions it is left in after being taken out from its packaging.
- GreenStuf Thermal Wall Insulation must be neatly friction-fitted between framing members to ensure no gaps and prevent sagging.
- Refer to NZS 4246 for required minimum clearances to heating appliances and light fittings.
- Where possible, insulation should be placed beneath electrical wiring or plumbing.

## MAINTENANCE REQUIREMENTS

- GreenStuf Thermal Wall Insulation must not be compressed over its serviceable life. Compressing GreenStuf Thermal Wall Insulation can lead to reduced thermal performance.
- If GreenStuf Thermal Wall Insulation becomes damp or wet while in service, it must be removed and the cause of dampness must be resolved. Cavities must be clean and dry before new insulation is placed.

# GreenStuf® MASONRY WALL BLANKET

GreenStuf® Masonry Wall Blanket is a 100% polyester thermal insulation for insulating strapped and lined concrete walls. GreenStuf Masonry Wall Blanket is pre-cut to fit standard timber strapping set at 600mm centres. GreenStuf Masonry Wall Blanket contains a minimum of 75% previously recycled fibre content (from PET plastic).

## RELEVANT BUILDING CODE CLAUSES AND HOW PRODUCT IS EXPECTED TO CONTRIBUTE TO COMPLIANCE

- B2 Durability: Performance clauses B2.3.1(a) and B2.3.2. GreenStuf Masonry Wall Blanket is expected to have a serviceable life of at least 50 years where the insulation is not crushed or exposed to conditions that will degrade its performance and the building is maintained so that the provisions of E2 and E3 clauses are met.
- E3 Internal Moisture: Performance E3.3.1. GreenStuf Masonry Wall Blanket R-values have been determined by testing to AS/NZS 4859.1:2018.
- F2 Hazardous Building Materials: Performance F2.3.1. There are no known hazards when using or handling GreenStuf Masonry Wall Blanket.
- H1 Energy Efficiency: Performance clauses H1.3.1(a) and H1.3.2E. GreenStuf Masonry Wall Blanket R-values have been determined by testing to AS/NZS 4859.1:2018.

## LIMITATIONS ON USE OF BUILDING PRODUCT

- GreenStuf Masonry Wall Blanket must be installed only when the building is enclosed and when construction materials have achieved the required maximum moisture content or less.
- GreenStuf Masonry Wall Blanket might not be suitable for some external wall applications as stipulated in NZBC C1-C6 Protection from fire. Please consult a fire engineer before specifying GreenStuf insulation in external walls.

## DESIGN REQUIREMENTS SUPPORTING APPROPRIATE USE OF BUILDING PRODUCT

- GreenStuf Masonry Wall Blanket is designed to be friction-fitted between strapping or battens on masonry walls.

## INSTALLATION REQUIREMENTS

- GreenStuf Masonry Wall Blanket must be installed according to the Install Instructions included in each GreenStuf pack and NZS 4246.
- GreenStuf Masonry Wall Blanket must be released from packaging and allowed to re-loft prior to installation. The time to re-loft depends upon the length of time the product has been packaged and stored, as well as the environmental conditions it is left in after being taken out from its packaging.
- GreenStuf Masonry Wall Blanket must be neatly friction-fitted between strapping or battens to ensure no gaps.
- GreenStuf Masonry Wall Blanket must be stapled to the strapping or battens on both sides and at the top of each blanket to hold the insulation until wall linings are in place.
- Refer to NZS 4246 for required minimum clearances to heating appliances and light fittings.
- Where possible, insulation should be placed beneath electrical wiring or plumbing.

## MAINTENANCE REQUIREMENTS

- GreenStuf Masonry Wall Blanket must not be compressed over its serviceable life. Compressing GreenStuf Masonry Wall Blanket can lead to reduced thermal performance.
- If GreenStuf Masonry Wall Blanket becomes damp or wet while in service, it must be removed and the cause of dampness must be resolved. Cavities must be clean and dry before new insulation is placed.

# GreenStuf<sup>®</sup> THERMAL UNDERFLOOR BLANKET

**GreenStuf<sup>®</sup> Thermal Underfloor Blanket is a 100% polyester thermal insulation for insulating exposed joist floors in residential and commercial spaces. GreenStuf Thermal Underfloor Blanket contains a minimum of 82% previously recycled fibre content (from PET plastic).**

## RELEVANT BUILDING CODE CLAUSES AND HOW PRODUCT IS EXPECTED TO CONTRIBUTE TO COMPLIANCE

- **B2 Durability:** Performance clauses B2.3.1(a) and B2.3.2. GreenStuf Thermal Underfloor Blanket is expected to have a serviceable life of at least 50 years where the insulation is not crushed or exposed to conditions that will degrade its performance and the building is maintained so that the provisions of E2 and E3 clauses are met.
- **E3 Internal Moisture:** Performance E3.3.1. GreenStuf Thermal Underfloor Blanket R-values have been determined by testing to AS/NZS 4859.1:2018.
- **F2 Hazardous Building Materials:** Performance F2.3.1. There are no known hazards when using or handling GreenStuf Thermal Underfloor Blanket.
- **H1 Energy Efficiency:** Performance clauses H1.3.1(a) and H1.3.2E. GreenStuf Thermal Underfloor Blanket R-values have been determined by testing to AS/NZS 4859.1:2018.

## LIMITATIONS ON USE OF BUILDING PRODUCT

- GreenStuf Thermal Underfloor Blanket must be installed only when the building is enclosed and when construction materials have achieved the required maximum moisture content or less.
- GreenStuf Thermal Underfloor Blanket might not be suitable for some applications as stipulated in NZBC C1-C6 Protection from fire. Please consult a fire engineer before specifying GreenStuf insulation.

## DESIGN REQUIREMENTS SUPPORTING APPROPRIATE USE OF BUILDING PRODUCT

- GreenStuf Thermal Underfloor Blanket is designed to be fitted between floor joists and stapled in place.
- Where 140mm Thermal Underfloor Blanket is fitted between 140mm joists, the insulation must be friction fitted between joists and secured with plastic straps.
- GreenStuf Thermal Underfloor Blanket must be protected with a suitable lining material in sub-floor spaces exposed to wind such as in pole houses, or with no closed perimeter, e.g. solid concrete, masonry ring foundation, or enclosed with a sheet material.

## INSTALLATION REQUIREMENTS

- GreenStuf Thermal Underfloor Blanket must be installed according to the Install Instructions included in each GreenStuf pack and NZS 4246.
- GreenStuf Thermal Underfloor Blanket must be released from packaging and allowed to re-loft prior to installation. The time to re-loft depends upon the length of time the product has been packaged and stored, as well as the environmental conditions it is left in after being taken out from its packaging.
- GreenStuf Thermal Underfloor Blanket must be wider than the space between the joists. Excess material should be folded down on each side and stapled at approximately 50-80mm from the top of the joist, and along the length of the roll at intervals of 150mm for 600mm width, 200mm for 500mm width, and 300mm for 450mm width products.
- GreenStuf Thermal Underfloor Blanket must be installed hard against the floor with ends neatly butted. The ends of each joist run should be sealed off to reduce opportunity for air movement above the insulation.
- Refer to NZS 4246 for required minimum clearances to heating appliances, light fittings and downlights.
- A clear 100mm gap must be left around waste pipes that penetrate through the floor to allow for future service.

## MAINTENANCE REQUIREMENTS

- GreenStuf Masonry Wall Blanket must not be compressed over its serviceable life. Compressing GreenStuf Masonry Wall Blanket can lead to reduced thermal performance.
- If GreenStuf Masonry Wall Blanket becomes damp or wet while in service, it must be removed and the cause of dampness must be resolved. Cavities must be clean and dry before new insulation is placed.

# GreenStuf<sup>®</sup> BUILDING INSULATION BLANKET

**GreenStuf<sup>®</sup> Building Insulation Blanket (BIB) is a 100% polyester thermal insulation blanket for insulating commercial and industrial roofs. GreenStuf BIB and contains a minimum of 82% previously recycled fibre content (from PET plastic).**

## RELEVANT BUILDING CODE CLAUSES AND HOW PRODUCT IS EXPECTED TO CONTRIBUTE TO COMPLIANCE

- **B2 Durability:** Performance clauses B2.3.1(a) and B2.3.2. GreenStuf BIB is expected to have a serviceable life of at least 50 years where the insulation is not crushed or exposed to conditions that will degrade its performance and the building is maintained so that the provisions of E2 and E3 clauses are met.
- **F2 Hazardous Building Materials:** Performance F2.3.1. There are no known hazards when using or handling GreenStuf BIB.
- **H1 Energy Efficiency:** Performance clauses H1.3.1(a) and H1.3.2E. GreenStuf BIB R-values have been determined by testing to AS/NZS 4859.1:2018.

## LIMITATIONS ON USE OF BUILDING PRODUCT

- GreenStuf Building Insulation Blanket (BIB) must be installed only when the building is enclosed and when construction materials have achieved the required maximum moisture content or less.
- GreenStuf Building Insulation Blanket (BIB) might not be suitable for some roof applications as stipulated in NZBC C1-C6 Protection from fire. Please consult a fire engineer before specifying GreenStuf insulation.

## DESIGN REQUIREMENTS SUPPORTING APPROPRIATE USE OF BUILDING PRODUCT

- GreenStuf BIB is designed to be friction fitted between ceiling or roof framing members. GreenStuf BIB can also be laid directly over ceiling lining, over ceiling battens or joist/truss chords.
- Minimum separation of 25mm between GreenStuf BIB and any rigid substrate or flexible roof underlay must be ensured to prevent moisture transfer and provide roof ventilation.
- If it is not possible to achieve a 25mm gap between the underlay and insulation, counterbattens can be used to provide a ventilated cavity between roofing and roof underlay.

## INSTALLATION REQUIREMENTS

- GreenStuf BIB must be installed according to the Install Instructions included in each GreenStuf pack.
- GreenStuf BIB must be released from packaging and allowed to re-loft prior to installation. The time to re-loft depends upon the length of time the product has been packaged and stored, as well as the environmental conditions it is left in after being taken out from its packaging.
- GreenStuf BIB must be neatly friction-fitted between framing members ensuring no gaps.
- When using double-layer insulation in truss roofs, lay the first insulation layer between ceiling joists and over ceiling battens, then the top insulation layer at right angles to, and over the top of the ceiling joists, leaving no gaps.
- When using double-layer insulation in skillion roofs, friction fit both layers between rafters.
- All of the ceiling area should be covered with insulation, including the top plates of exterior walls, except around heating flues, non-CA/lc rated recessed lights or non-ducted extractor fans.
- Refer to NZS 4246 for required minimum clearances to heating appliances, light fittings and downlights.
- Where possible, insulation should be placed beneath electrical wiring or plumbing.

## MAINTENANCE REQUIREMENTS

- GreenStuf BIB must not be compressed over its serviceable life. Compressing GreenStuf BIB can lead to reduced thermal performance.
- If GreenStuf BIB becomes damp or wet while in service, it must be removed and the cause of dampness must be resolved. Cavities must be clean and dry before new insulation is placed.

# GreenStuf<sup>®</sup> THERMAL AND ACOUSTIC SOFFIT LINER

GreenStuf<sup>®</sup> Thermal and Acoustic Soffit Liner (ASL) is a 100% polyester thermal insulation blanket for insulating the underside of masonry and metal pan floors and ceiling.

GreenStuf ASL contains a minimum of 45% previously recycled fibre content (from PET plastic).

## RELEVANT BUILDING CODE CLAUSES AND HOW PRODUCT IS EXPECTED TO CONTRIBUTE TO COMPLIANCE

- B2 Durability: Performance clauses B2.3.1(a) and B2.3.2. GreenStuf ASL is expected to have a serviceable life of at least 50 years where the insulation is not crushed or exposed to conditions that will degrade its performance and the building is maintained so that the provisions of E2 and E3 clauses are met.
- F2 Hazardous Building Materials: Performance F2.3.1. There are no known hazards when using or handling GreenStuf ASL.
- H1 Energy Efficiency: Performance clauses H1.3.1(a) and H1.3.2E. GreenStuf ASL R-values have been determined by testing to AS/NZS 4859.1:2018.

## LIMITATIONS ON USE OF BUILDING PRODUCT

- GreenStuf ASL must be installed only when the building is enclosed and when construction materials have achieved the required maximum moisture content or less.
- GreenStuf ASL might not be suitable for some applications as stipulated in NZBC C1-C6 Protection from fire. Please consult a fire engineer before specifying GreenStuf insulation.

## DESIGN REQUIREMENTS SUPPORTING APPROPRIATE USE OF BUILDING PRODUCT

- GreenStuf ASL is designed to be fixed to the underside of masonry and metal pan floors and ceilings.

## INSTALLATION REQUIREMENTS

- GreenStuf ASL must be installed according to the Install Instructions included in each GreenStuf pack.
- GreenStuf ASL is intended to be installed with mechanical fixings. These can be either shot fired insulation anchors or insulation fasteners with one way washers or domes.
- GreenStuf ASL can be direct fixed using adhesives in certain applications. A contact-type adhesive or full curing panel adhesive is recommended for applying GreenStuf ASL to most common substrates.
- When using GreenStuf ASL with E-Foil, a 50mm wide foil tape can be used to seal the panel joins and any penetrations.
- GreenStuf ASL must be cut to fit neatly around fire collars, pipes and penetrations. The face of fire collars must not be covered as these must be left exposed to activate in a fire situation.
- Refer to NZS 4246 for required minimum clearances to heating appliances, light fittings and downlights.

## MAINTENANCE REQUIREMENTS

- GreenStuf ASL must not be compressed over its serviceable life. Compressing GreenStuf ASL can lead to reduced acoustic and thermal performance.
- If GreenStuf ASL becomes damp or wet while in service, it must be removed and the cause of dampness must be resolved. Surfaces must be clean and dry before new insulation is placed.

# GreenStuf® ACOUSTIC ABSORPTION BLANKET

GreenStuf® Acoustic Absorption Blanket (AAB™) is a range of 100% polyester acoustic insulation products designed for reducing and controlling reverberated noise in building interiors. GreenStuf AAB contains a minimum of 73% previously recycled fibre content (from PET plastic).

## RELEVANT BUILDING CODE CLAUSES AND HOW PRODUCT IS EXPECTED TO CONTRIBUTE TO COMPLIANCE

- B2 Durability: Performance clauses B2.3.1(a) and B2.3.2. GreenStuf AAB is expected to have a serviceable life of at least 50 years where the insulation is not crushed or exposed to conditions that will degrade its performance and the building is maintained so that the provisions of E2 and E3 clauses are met.
- F2 Hazardous Building Materials: Performance F2.3.1. There are no known hazards when using or handling GreenStuf AAB.
- H1 Energy Efficiency: Performance clauses H1.3.1(a) and H1.3.2E. GreenStuf AAB R-values have been determined by testing to AS/NZS 4859.1:2018.

GreenStuf AAB can help spaces meet design sound levels and reverberation times prescribed by AS/NZS 2107:2016 *Acoustics — Recommended design sound levels and reverberation times for building interiors*.

## LIMITATIONS ON USE OF BUILDING PRODUCT

- GreenStuf AAB must be installed only when the building is enclosed and when construction materials have achieved the required maximum moisture content or less.
- GreenStuf AAB might not be suitable for some applications as stipulated in NZBC C1-C6 Protection from fire. Please consult a fire engineer before specifying GreenStuf insulation.

## DESIGN REQUIREMENTS SUPPORTING APPROPRIATE USE OF BUILDING PRODUCT

- GreenStuf AAB is ideally suited for use as an absorber behind acoustic panels and ceiling systems.

## INSTALLATION REQUIREMENTS

- GreenStuf AAB must be installed according to the Install Instructions included in each pack.
- GreenStuf AAB can be installed using mechanical fixings or adhesives.
- Mechanical fixings can be either shot fired insulation anchors or insulation fasteners with one way washers or domes.
- When direct fixing GreenStuf AAB using adhesives, contact-type adhesive or full curing panel adhesive is recommended.
- Where GreenStuf AAB is to be installed beneath a roof, it is essential that a minimum 25 mm air gap is maintained between the roofing underlay and the GreenStuf AAB.
- GreenStuf AAB must be cut to fit neatly around fire collars, pipes and penetrations. The face of fire collars must not be covered as these must be exposed to activate in a fire situation.
- Refer to NZS 4246 for required minimum clearances to heating appliances, light fittings and downlights.

## MAINTENANCE REQUIREMENTS

- GreenStuf AAB must not be compressed over its serviceable life. Compressing GreenStuf AAB can lead to reduced acoustic performance.
- If GreenStuf AAB becomes damp or wet while in service, it must be removed and the cause of dampness must be resolved. Surfaces must be clean and dry before new insulation is placed.

# GreenStuf<sup>®</sup>

## SOUND SOLUTION

GreenStuf<sup>®</sup> Sound Solution is a 100% polyester acoustic insulation for timber and steel 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. GreenStuf Sound Solution contains a minimum of 85% previously recycled fibre content (from PET plastic).

### RELEVANT BUILDING CODE CLAUSES AND HOW PRODUCT IS EXPECTED TO CONTRIBUTE TO COMPLIANCE

- **B2 Durability:** Performance clauses B2.3.1(a) and B2.3.2. GreenStuf Sound Solution is expected to have a serviceable life of at least 50 years where the insulation is not crushed or exposed to conditions that will degrade its performance and the building is maintained so that the provisions of E2 and E3 clauses are met.
- **E3 Internal Moisture:** Performance E3.3.1. GreenStuf Sound Solution R-values have been determined by testing to AS/NZS 4859.1:2018.
- **F2 Hazardous Building Materials:** Performance F2.3.1. There are no known hazards when using or handling GreenStuf Sound Solution.
- **G6 Airborne and Impact Sound:** Performance G6.3.1. GreenStuf Sound Solution can increase the Sound Transmission Class (STC) rating of internal wall or mid-floor assemblies.
- **H1 Energy Efficiency:** Performance clauses H1.3.1(a) and H1.3.2E. GreenStuf Sound Solution R-values have been determined by testing to AS/NZS 4859.1:2018.

### LIMITATIONS ON USE OF BUILDING PRODUCT

- GreenStuf Sound Solution must be installed only when the building is enclosed and when construction materials have achieved the required maximum moisture content or less.

### DESIGN REQUIREMENTS SUPPORTING APPROPRIATE USE OF BUILDING PRODUCT

- When selecting a GreenStuf Sound Solution product for internal walls, it must be made sure that the product fits inside the wall cavity.
- When GreenStuf Sound Solution is installed in a wall with a drained cavity, studs must be strapped to prevent insulation bulging into the cavity.

### INSTALLATION REQUIREMENTS

- GreenStuf Sound Solution must be installed according to the install instructions in the datasheet and NZS 4246.
- GreenStuf Sound Solution must be released from packaging and allowed to re-loft prior to installation. The time to re-loft depends upon the length of time the product has been packaged and stored, as well as the environmental conditions it is left in after being taken out from its packaging.
- GreenStuf Sound Solution must be neatly friction-fitted between framing members to ensure no gaps and prevent sagging.
- Refer to NZS 4246 for required minimum clearances to heating appliances and light fittings.
- Where possible, insulation should be placed beneath electrical wiring or plumbing.

### MAINTENANCE REQUIREMENTS

- GreenStuf Sound Solution, except Baffleblock, must not be compressed over its serviceable life. Compressing GreenStuf Sound Solution can lead to reduced acoustic performance.
- If GreenStuf Sound Solution becomes damp or wet while in service, it must be removed and the cause of dampness must be resolved. Cavities must be clean and dry before new insulation is placed.



# GreenStuf<sup>®</sup>

## AUTEX DUCT WRAP

GreenStuf<sup>®</sup> Autex Duct Wrap (ADW<sup>™</sup>) insulation is a lightweight, flexible acoustic and thermal insulation for ducting. GreenStuf ADW is manufactured from thermally bonded polyester with an e-foil finish on one side. GreenStuf ADW contains a minimum of 50% recycled content.

### RELEVANT BUILDING CODE CLAUSES AND HOW PRODUCT IS EXPECTED TO CONTRIBUTE TO COMPLIANCE

- B2 Durability: Performance clauses B2.3.1(a) and B2.3.2. GreenStuf ADW is expected to have a serviceable life of at least 50 years where the insulation is not crushed or exposed to conditions that will degrade its performance and the building is maintained so that the provisions of E2 and E3 clauses are met.
- F2 Hazardous Building Materials: Performance F2.3.1. There are no known hazards when using or handling GreenStuf ADW.
- H1 Energy Efficiency: Performance H1.3.6(a). GreenStuf ADW thermal conductivity k values have been determined by testing to AS/NZS 4859.1:2018.

### LIMITATIONS ON USE OF BUILDING PRODUCT

- GreenStuf ADW must be installed only when the building is enclosed and when construction materials have achieved the required maximum moisture content or less.

### DESIGN REQUIREMENTS SUPPORTING APPROPRIATE USE OF BUILDING PRODUCT

- GreenStuf ADW is designed to be fitted without gaps around ducting, edges to be overlapped and sealed with tape.

### INSTALLATION REQUIREMENTS

- GreenStuf ADW must be installed according to the Install Instructions included in each GreenStuf pack.
- Where used to control condensation, the ducting wrap must be fully sealed to prevent moisture ingress.

### MAINTENANCE REQUIREMENTS

- GreenStuf ADW must not be compressed over its serviceable life. Compressing GreenStuf ADW can lead to reduced thermal performance.
- If GreenStuf ADW becomes damp or wet while in service, it must be removed and the cause of dampness must be resolved. Surfaces must be clean and dry before new duct wrap is placed.

# GreenStuf® Autex RIGID DUCT LINER

GreenStuf® Autex Rigid Duct Liner (ARD) consists of 100% polyester insulation material bonded to a durable facing. GreenStuf ARD has been engineered to improve the acoustic performance and thermal efficiency of residential and commercial rigid ducting. GreenStuf ARD contains a minimum of 50% recycled content.

## RELEVANT BUILDING CODE CLAUSES AND HOW PRODUCT IS EXPECTED TO CONTRIBUTE TO COMPLIANCE

- B2 Durability: Performance clauses B2.3.1(a) and B2.3.2. GreenStuf ARD is expected to have a serviceable life of at least 50 years where the insulation is not crushed or exposed to conditions that will degrade its performance and the building is maintained so that the provisions of E2 and E3 clauses are met.
- F2 Hazardous Building Materials: Performance F2.3.1. There are no known hazards when using or handling GreenStuf ARD.
- H1 Energy Efficiency: Performance H1.3.6(a). GreenStuf ARD R values have been determined by testing to AS/NZS 4859.1:2018.

## LIMITATIONS ON USE OF BUILDING PRODUCT

- GreenStuf ARD must be installed only when the building is enclosed and when construction materials have achieved the required maximum moisture content or less.

## DESIGN REQUIREMENTS SUPPORTING APPROPRIATE USE OF BUILDING PRODUCT

- GreenStuf ARD is designed as a thermal and acoustic lining for HVAC ducting systems.
- GreenStuf ARD can be used for both low and high air-flow volumes, rated to velocities of up to 50m/second, with no additional protection.

## INSTALLATION REQUIREMENTS

- GreenStuf ARD must be installed according to the Install Instructions included in each GreenStuf pack.
- Where used to control condensation, the ducting wrap must be fully sealed to prevent moisture ingress.

## MAINTENANCE REQUIREMENTS

- GreenStuf ARD must not be compressed over its serviceable life. Compressing GreenStuf ARD can lead to reduced thermal performance.
- If GreenStuf ARD becomes damp or wet while in service, it must be removed and the cause of dampness must be resolved. Surfaces must be clean and dry before new duct wrap is placed.



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WEB **greenstuf.co.nz**

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