



Temper
Therm

Installation

TemperTherm 100% Polyester Sound Blanket

TemperTherm 100% Polyester is a range of thermal and acoustic insulating materials manufactured from thermally bonded polyester fibres. TemperTherm 100% Polyester Insulation is available in blanket and segment form to suit a wide range of thermal & acoustic insulation requirements and framing set-outs in walls, mid-floors, ceilings and roofs of buildings.

SOUND BLANKET INSTALLATION INSTRUCTIONS

TemperTherm 100% Polyester Sound Blanket is ideally suited for metal framed partition walls and as an acoustic overlay to suspended grid ceilings.

TemperTherm 100% Polyester products provide both thermal and acoustic insulation. Our acoustic ranges utilise specialist low denier, high-volume hollow-core polyester fibres for superior sound absorption.

Our TemperTherm 100% Polyester Insulation is made from minimum 45% post-consumer recycled plastics (PET), and is safe to touch and will never slump, sag, or reduce its performance. Our entire TemperTherm range carry a 50 Year Product Durability Warranty.

COMPLIANCE STATEMENTS

The out-of-pack thickness of the insulation material may be reduced if it is stored for too long in its compressed packaging. Should this product be found to be compressed at installation, it will recover to its nominal thickness between 48 Hours and up to one month following installation. TemperTherm 100% Polyester Insulation should be removed from its compressed packaging within 6 months from the date of manufacture.

TemperTherm 100% Polyester Insulation will meet and exceed the 50 year durability clause of the NZBC (B2.3.1(a)) when installed in accordance with these manufacturer's instructions.

TemperTherm 100% Polyester Insulation is supplied with labelling compliant with AS/NZS4859.1. The nominal thickness, net area, and nominal weight of each pack is recorded on the product bale label.

TRANSPORTATION & STORAGE

TemperTherm Insulation must be stored under cover and in dry conditions. Heavy objects must not be stacked on the packs. Packs should be stored in an orientation that avoids excessive compression of the product.

TemperTherm 100% Polyester Insulation is supplied in compressed packaging sleeves in order to increase freighting efficiency. Insulation must be released from the packaging and allowed to re-loft prior to installation. The time to loft will depend upon the length of time the product has been packaged and stored.

INSTALLER SAFETY

Each installation is unique so prior to installing insulation check for hazards that could cause injury. Our 100% polyester insulation is completely safe and there are no precautions or specialist safety equipment required to handle or install our products. Our 100% Polyester Insulation is non-toxic, non-irritant and non-allergenic.

We do however recommend some basic PPE when installing insulation. PPE should include dust mask, safety glasses, appropriate clothing or coveralls, and cut resistant gloves to protect from cuts.

CAUTION: Electric cables and equipment partially or completely surrounded with any bulk thermal insulation may overheat and fail. This applies to wiring installed prior to 1989.

Refer NZS4246:2016 Energy Efficiency – Installing Insulation in Residential Buildings for required insulation clearances to downlights and electrical appliances.

INSTALLATION TOOLS

We recommend you have the following installation tools: step ladder, head-torch, wide blade snap/disposable knife or specialist insulation cutter/knife/saw, and an installing stick, such as a broom handle for pushing the insulation into corners and hard to reach places.

Premier 100% Polyester Sound Blanket installed in metal framed partitions may require mechanical fixings, such as self-tapping metal stud screws.

Protective clothing is recommended, including coveralls, gloves, covered shoes, goggles and dusk mask.



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All thermal and acoustic insulation should be installed in accordance with the appropriate provisions of NZS4246:2016 Energy Efficiency – Installing Insulation in Residential Buildings. Standards New Zealand has made this Standard freely available for download from their website.

Cutting to Size

Always cut slightly oversized to ensure a tight friction fit to all surfaces.

Lighter-weight Blanket can easily be torn across the width by hand. Insulation rolls can be cut down the length using sharp scissors or by compressing the insulation under a timber off-cut and then cutting through with a sharp wide blade disposable knife. Heavier and higher-density products can be cut using a specialist insulation knife, mechanical cutter, or insulation saw.

Insulate all specified areas leaving no gaps, and following plans and specifications.

Do not compress insulation unless this is a design specification.

Metal Fream Partition Walls

Ensure framing depth will allow the insulation to be installed without compression to its declared nominal thickness unless this is a specified design requirement.

TemperTherm 100% Polyester Sound Blanket insulation should be friction fitted inside the framing cavity ensuring no gaps. All of the specified wall space should be insulated (i.e. from the top to the bottom tracks).

Cut and fit the Sound Blanket slightly wider than the space between the metal studs. Tuck the edges of the insulation into the c-section of the stud and the top and bottom tracks.

The insulation blanket should be fixed to the metal studs each side at the top of each drop to securely hold the insulation in place.

Self-tapping metal-stud screws are ideal to secure the insulation, however ensure placement will not affect the fitting and fixing of the plasterboard linings.

Caution should be taken when using battery/power tools to screw through the insulation as wind-up of the polyester fibres may occur.

The tool clutch should be engaged to limit risk.

Install the blanket as a continuous drop between the studs. The blanket ideally should not have joins. Where joins are necessary, ensure a tight fit with no gaps or folds and fix securely in place by fixing edges to the studs.

Installed insulation should be even and tidy with no folds or excessive compression lines.

Suspended Grid Ceiling Overlay

TemperTherm 100% Polyester Sound Blanket can be used as an acoustic ceiling overlay for reducing airborne sound transfer.

Sound Blanket should be installed after the suspended ceiling grid, lighting & electrical, plumbing, and ducting has been installed.

Lay the Sound Blanket over the ceiling grid to cover all specified areas. Tear insulation from the edges to fit around ceiling hangers and fittings. Insulation should be fitted to maintain nominal thickness of the insulation.

Joins in insulation pieces should be butted tight and even with no gaps.

A minimum gap of 100mm must be left around un-rated recessed down lights, 200mm around un-ducted vents, 75mm gap around metal heating flues and 50mm around brick/concrete chimneys. Do not cover ceiling vents. Refer NZS4246:2016 Energy Efficiency – Installing Insulation in Residential Buildings for further information and clearances.

GIB® NOISE CONTROL® SYSTEMS

Selected TemperTherm 100% Polyester insulation products are approved substitutes for acoustic infill in GIB® Noise Control® systems.

Where these systems have been specified, refer to the detailed specifications and GIB® guides.

COMPLETION

Check installed insulation is secure, tidy, and not compressed, and that all areas are insulated. Leave work area tidy and remove unused materials and waste from site.

For future reference we recommend you staple a product label of the insulation products used in an easy to find location such as on truss/rafter above ceiling access hole or hot water cupboard.



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SPECIFICATIONS & TECHNICAL SUPPORT

TemperTherm specification documents are available from our website. For specification or technical support please contact our Technical Team on 07 282 1184, or email support@tempertherm.co.nz

TemperTherm

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