
PREMIER
INSULATION

Polyester Acoustic Insulation
DATASHEET

0800 467 855
premierinsulation.co.nz

183 Great South Road,
Ngaruawahia, New Zealand

PREMIER INSULATION



BRANZ Appraised
Appraisal No. 1098 [2019]
Appraisal No. 1097 [2019]
Appraisal No. 509 [2019]

100% POLYESTER ACOUSTIC INSULATION DATASHEET

APPLICATION

Premier 100% Polyester Insulation is proudly manufactured in NZ from thermally bonded polyester fibres, for use in framed walls, ceilings, suspended floors and mid-floor applications in both residential and commercial construction. Our Polyester Insulation range is available in a range of widths and performance options and is available in blanket, skillion, and segment forms.

Premier 100% Polyester Acoustic Insulation is designed for use in timber, metal framed walls and mid-floor cavities for reducing airborne sound transfer. Premier Polyester Acoustic Insulation reduces resonating noise in the construction cavity, increasing sound privacy.

The Premier Polyester Acoustic Insulation range provides various thicknesses and densities of insulation, allowing for a wide range of applications, construction systems and performance outcomes.

The New Zealand Building Code (NZBC) G6 Acoustic Design sets out minimum performance requirements for inter-tenancy walls and floor-ceiling constructions. The performance of a construction system relies on the design, materials and installation. For information and assistance on inter-tenancy acoustics please contact our Technical Team on 0800 467 855, or email support@premierinsulation.co.nz

KEY FEATURES

- Manufactured using 100% polyester fibres and contains a minimum 45% previously recycled fibre.
- Provides acoustic & thermal benefits for residential and commercial applications.
- Moisture and vermin resistant
- Non-toxic, non-allergenic, non-irritant, soft and safe to touch
- Made in NZ and designed for New Zealand buildings
- 50 Year Durability Warranty

ACOUSTIC RANGE

| | Nominal Thickness | Product Weight (gsm) | Density (Kg/m ³) | Pack Configuration | m ² per pack |
|--|-------------------|----------------------|------------------------------|-------------------------|-------------------------|
| PREMIER ACOUSTIC WALL & MID-FLOOR BLANKET | | | | | |
| Premier 100% Polyester Acoustic Blanket | 90mm | 1,100gsm | 12.2 Kg/m ³ | 430mm x 15.5m x 3 Rolls | 20.0 |
| Premier 100% Polyester Acoustic Blanket | 90mm | 1,100gsm | 12.2 Kg/m ³ | 560mm x 11.9m x 3 Rolls | 20.0 |
| PREMIER SOUND BLANKET RANGE | | | | | |
| Premier 100% Polyester Sound Blanket | 50mm | 735gsm | 14.7 Kg/m ³ | 600mm x 16.7m x 2 Rolls | 20.0 |
| Premier 100% Polyester Sound Blanket | 60mm | 750gsm | 12.5 Kg/m ³ | 600mm x 16.7m x 2 Rolls | 20.0 |
| Premier 100% Polyester Sound Blanket | 70mm | 900gsm | 12.9 Kg/m ³ | 600mm x 16.7m x 2 Rolls | 20.0 |
| Premier 100% Polyester Sound Blanket | 75mm | 1,150gsm | 15.3 Kg/m ³ | 600mm x 12.5m x 2 Rolls | 15.0 |
| Premier 100% Polyester Sound Blanket | 120mm | 1,680gsm | 14.0 Kg/m ³ | 600mm x 12.5m x 2 Rolls | 15.0 |

ENVIRONMENTAL

All Premier 100% Polyester insulation products are manufactured using the same materials and under the same conditions, processes and controls as the Environmental Choice New Zealand certified range. All Premier polyester products are manufactured from 100% polyester fibre and contain a minimum of 45% already recycled fibre (from PET plastic) and are manufactured in NZ under PIL Group's zero waste policy.

50 YEAR WARRANTY

PIL Group Limited takes pride in offering a 50-year Manufacturer's Durability Warranty for all polyester thermal and acoustic insulation under the Premier brand. This warranty assures the durability of the insulation material when installed in compliance with the manufacturer's installation instructions and NZ4246: Energy Efficiency - Installing insulation in residential buildings.

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INSTALLATION

It is recommended that all insulation be installed in accordance with the manufacturer's instructions and NZS 4246 Energy Efficiency - Installing Insulation in Residential Buildings. Please refer to individual product installation instructions available from our website.

ACOUSTIC PERFORMANCE

Premier 100% Polyester acoustic insulation will assist sound reduction by reducing the resonating noise inside the construction cavity. The performance will vary with different construction systems. 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.

The Premier brand offers a range of specialist acoustic products. Please visit our website for more information. For acoustic design assistance, please get in touch with our team.

Premier Acoustic Wall & Mid-Floor Blanket

Improvement in sound transmission loss through typical timber framed wall or floor construction with the use of Premier Acoustic Wall & Mid-Floor Blanket is an increase of 3-8 STC points.

An increase 3-8 STC points will provide a noticeable difference. STC ratings give an approximate value for the reduction of noise in dB through a construction assembly. You will hear a noticeable difference in noise reduction by adding the Blanket to a typical wall or mid-floor. Research shows that 10 dB of sound reduction is perceived as a halving of loudness. 1-2dB is generally not noticeable, and 5 dB is perceived as a significant change.

Premier Sound Blanket

Premier Polyester Acoustic Sound Blanket is ideally suited for metal stud wall partitions, and as an acoustic ceiling overlay in commercial applications. The following table indicates acoustic performance for metal stud partition walls using 0.55µm steel studs set at 600mm centres and lined both sides with 13mm plasterboard.

ACOUSTIC SOUND BLANKET PERFORMANCE

| | Weight (gsm) | Density (Kg/m ³) | Metal Stud Width | |
|-----------------------------|-----------------|---------------------------------|------------------|--------|
| | | | 64mm | 92mm |
| Empty Cavity | | | | STC 39 |
| Premier 50mm Sound Blanket | 735gsm | 14.7Kg/m ³ | STC 42 | STC 43 |
| Premier 60mm Sound Blanket | 750gsm | 12.5Kg/m ³ | STC 43 | STC 44 |
| Premier 70mm Sound Blanket | 900gsm | 12.9Kg/m ³ | STC 44 | STC 45 |
| Premier 75mm Sound Blanket | 1,150gsm | 15.3Kg/m ³ | STC 45 | STC 46 |
| Premier 120mm Sound Blanket | 1,680gsm | 14.0Kg/m ³ | STC 46 | STC 47 |

STC performance may be increased further by disconnecting the plasterboard from the stud, and by using multiple layers of plasterboard.

SPECIFICATIONS & TECHNICAL SUPPORT

Premier specification documents are available from our website.

For specification or technical support please contact our Technical Team on 0800 467 855, or email support@premierinsulation.co.nz

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PREMIER INSULATION

Premier Insulation is a kiwi-owned and operated insulation installer and supplier of Polyester and Glasswool Insulation since 1996. Both options provide a range of thermal and acoustic applications to suit your build requirement.

Within our partner network, we have 12 locations throughout New Zealand from Auckland to Invercargill.

Premier Insulation Main Distribution Centre

183 Great South Road,
Ngaruawahia

Premier Insulation South Island Distribution Centre

14 John Morten Place,
Rolleston, Christchurch 7614

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