

Datasheet: Premier 100% Polyester Acoustic Wall & Midfloor Blanket

Premier 100% Polyester Acoustic Wall & Mid-Floor Blanket is proudly manufactured in NZ from thermally-bonded polyester fibres, and contains minimum 45% recycled fibre from post-consumer recycled PET plastic. Our acoustic ranges utilise specialist low denier, high-volume hollow-core polyester fibres for superior sound absorption.

Our Acoustic Wall & Mid-Floor Blanket has been engineered for superior sound absorption and is ideal for increasing the acoustic privacy of timber-framed walls and mid-floor construction.

	Nominal Thickness (mm)	Material Density (Kg/m ³)	Material Weight (gsm)	Air Flow Resistivity (rayls/m)	
Premier 100% Polyester Acoustic Wall & Mid-floor Blanket					
Acoustic Wall & Mid-Floor Blanket	90mm	12.22 Kg/m ³	1,100gsm	1,900	✓

KEY FEATURES

- Manufactured using 100% polyester fibres and contains a minimum 45% post-consumer recycled PET plastics.
- Moisture and vermin resistant.
- Cost effective, flexible, and easy to install.
- Non-toxic, non-allergenic, non-irritant, soft and safe to touch.
- Proudly Made in NZ.
- Eco Choice Aotearoa Certified.
- 50 Year Durability Warranty.

NZBC COMPLIANCE

Premier Polyester is designed for thermal & acoustic insulation of buildings, when installed in accordance with the manufacturer's instructions, Premier 100% Polyester Insulation will perform for a minimum of 50 years, meeting the durability clause of NZBC B2.3.1(a). Premier Polyester meets the relevant clauses of NZBC E3 Internal Moisture, F2 Hazardous Building Materials.

Premier Polyester must be:

- Installed & maintained in a dry, protected environment.
- Installed in a building where provisions of NZBC E2 and E3 are met.
- Installed to the requirements of NZD 4226:2016: Energy Efficiency-Installing Bulk Thermal Insulation in Residential Buildings.

THERMAL PERFORMANCE

Premier 100% Polyester Acoustic Wall & Mid-Floor Blanket has been tested by BRANZ to ASTM C518

Material Thermal Resistance:	1.83 m ² K/W at 15°C
Thermal Conductivity:	0.0492 W/mK
Product R-Value:	R1.8 at 90mm Nominal Thickness

NON-CORROSIVE & NON-HAZARDOUS

Polyester is considered non-corrosive and non-hazardous.

NZBC C1-C6 PROTECTION FROM FIRE

All polyester insulation is classified as combustible insulating materials, and may therefore not be suitable for all applications, as stipulated in NZBC C-Protection from Fire. We recommend you consult a Fire Engineer before specifying Polyester Insulation in buildings other than those described in Risk Group SH.

PIL Group Ltd polyester insulation has been tested to ISO 9705: 1993

Classification:	Group 1-S
Smoke Production Rate:	1.0m ² /s and therefore within the 5.0m ² /s limit
Product Range:	100% Polyester up to 1,800gsm
Report Ref:	BRANZ FC18133-01-2 (June 2024)
Classification:	Group 3
Smoke Production Rate:	1.0m ² /s and therefore within the 5.0m ² /s limit
Product Range:	100% Polyester 1,800gsm up to 4,800gsm, including double-layer install
Report Ref:	BRANZ FC18133-01-2 (June 2024)

IEC60695-11-5 Downlight Fire Standard

PIL Group Ltd Polyester Insulation has been tested and assessed as complying with IEC60695-11-5 Needle Flame Test.

Report Ref: Spectrum Lab Report No. 8616 (Aug 2023).

ACOUSTIC PERFORMANCE

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

Our Acoustic Wall & Mid-Floor Blanket has been independently assessed by Marshall Day Acoustics to provide 3 - 8 STC point increase to a typical wall or floor construction.

An increase of 3 - 8 STC points will provide a noticeable difference. STC ratings give an approximate value for the reduction of noise in dB through a partition. You will hear a noticeable difference in noise reduction by adding the Acoustic Blanket to a typical wall or mid-floor partition, when compared to the same partition with an empty cavity.

Research and experience show that 10 dB of sound reduction is perceived as a halving of loudness. 1 - 2 dB is generally not noticeable, and 5 dB is perceived as a significant change.

POLYESTER MOISTURE ABSORPTION

Premier Polyester Insulation does not absorb or wick moisture. Tested at 50°C d 90% Relative Humidity for four days, showed moisture absorption of 0.00% by weight.

Testing was conducted by AWTA in accordance with ASTM C739-97 (Section 12 Modified)

Ref: 23-003634 (Sep 23).

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.

ENVIRONMENTAL

Premier Insulation is proud to carry Eco Choice Aotearoa Certification for selected Polyester Thermal & Acoustic Insulation products. All Premier 100% Polyester Insulation products are manufactured in the same environmentally considerate way. Eco Choice Aotearoa provides a credible and independent standard to guide people who want to purchase and use products that are proven to be better for the environment. At the foundation of Eco Choice Aotearoa are the technical specifications it develops, setting the most stringent, up to date standards for environmental compliance in business. New Zealand companies who meet or exceed these specification are permitted to display the ECA mark, widely recognised by New Zealanders as a badge of environmental leadership.

Eco Choice Aotearoa is internationally recognised as Level-A Eco-Label, and operates to internationally recognised standards and principles as a member of GEN, the Global Ecolabelling Network, which links a world of environmentally preferable products and services.

NZGBC GreenStar & HomeStar

Premier 100% Polyester Insulation can support a buildings ability to meet the GreenStar & HomeStar accreditation. The specification and use of Premier Polyester Insulation can support available 'points' for insulation materials. For specification or technical support, please contact our Technical Team on 0800 467 855 or email support@premierinsulation.co.nz

VOC EMISSIONS

PIL Group polyester insulation has been tested by CETEC Foray Ltd to ISO16000 Part 9:2011 with ISO16000 Part 11: 2011 "Determination of the emission of volatile organic compounds from building products and furnishing - Emission test chamber method" (Emission testing method for Greenguard UL 2818 certification program specification).

Report Reference: V2012043

VOC (C6 to C16) Emission Concentration: 0.007 mg/m³

Formaldehyde Emission Rate: <0.003ppm

All other Target CREL VOCs and their emission rates are well below the maximum allowable concentrations in accordance with Table 27A (revised December 30, 2014) of the standard method.

PACKAGING & RECYCLING

Our Premier Polyester Insulation packaging is recyclable - made from LDPE 4 material.

Please refer to your local recycling centres for recycling options or contact PIL Group for information on our Take Back & Recycling options for plastic packaging and insulation off-cuts.

MATERIAL SAFETY DATASHEET

Premier 100% Polyester Insulation Material Safety Data Sheet is available from our website, or by contacting our Technical Team on 0800 467 855, or email support@premierinsulation.co.nz

CUSTOM MANUFACTURING

We offer simple product customisation to support specific project needs. Product width variations will require Minimum Order Quantity of 200m² per variant.

Please contact our Technical Team on 0800 467 855, or email support@premierinsulation.co.nz for more information.

50 YEAR WARRANTY

PIL Group Limited takes pride in offering a 50-year Manufacturer's Durability Warranty for Premier Insulation 100% Polyester Thermal and Acoustic Insulation, when installed in compliance with the manufacturer's installation instructions and NZ4246:Energy Efficiency - Installing insulation in residential buildings.

PROFESSIONALLY SUPPLIED & INSTALLED

Premier Insulation offers a nationwide installer network to help ensure our Premier 100% Polyester Insulation products are installed correctly and perform over the life of the building. Premier Insulation branches are locally owned and operated. Find your local branch on our website.

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

Premier Insulation

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