

DESCRIPTION

Eliment ceiling insulation, the new generation of glasswool insulation manufactured in partnership with PGF Insulation is intended for both thermal and acoustic insulation application. It is manufactured using recycled glass and with SensiTouch[®] Technology, employs a phenolic resin based binder that incorporates a natural anti-formaldehyde ingredient. The Eliment insulation range encompasses multiple densities, thicknesses and dimensions to suit typical timber or steel framed constructions and to satisfy a broad spectrum of building requirements.

SensiTouch[®] TECHNOLOGY

Formaldehyde has traditionally been used as part of the binder in glasswool insulation. Although there is no health risk with the traditional product, formaldehyde at a higher level may cause irritation and sensitivity. Eliment utilises SensiTouch[®] Technology, an innovative new binder that incorporates a natural anti-formaldehyde ingredient and is low in volatile organic compounds, making for a safer and more pleasant installation process.

AS/NZS 4859.1:2018 COMPLIANT

All Eliment products are compliant with AS/NZS 4859.1 : 2018. This independent assurance gives you peace of mind that you are fulfilling all your obligations as required.

SUSTAINABLE PRODUCT

Eliment Insulation is committed to providing environmentally sustainable products. Eliment ceiling insulation is free from CFCs, HCFCs and any other material with ozone depletion potential in the manufacture/composition content and represent no known threat to the environment. Made using up to 80% recycled glass, Eliment ceiling insulation helps address sustainability and environmental concerns.

APPLICATION

Eliment ceiling insulation is designed to be used in ceiling systems in residential and commercial buildings for enhanced thermal and acoustic performance. It is installed by laying them on top of the ceiling in between the ceiling joists enabling complete coverage for optimal effectiveness.

INDIVIDUAL VOLATILE ORGANIC COMPOUND (VOC's) EMISSION

Safe to use due to the low Volatile Organic Compound (VOC) content. This ensures that no harmful levels of VOCs are released. Tested in accordance with ASTM D5116.



Feel the difference.

ADVANTAGES

Soft to touch. Specifically engineered to produce a softer feel compared to conventional glasswool.

Firm friction fit. The rigidity of the ceiling insulation assures users the product will leave no gaps or voids. Gaps or voids can lead to the loss of thermal and acoustic performance.

Reduced sound transmission. Exceptional acoustic performance. Designed to reduce transmission of unwanted noise, Eliment insulation minimises sound transfer through ceiling systems in residential or commercial buildings.

Vermin resistant. Does not encourage growth of mould, fungus, bacteria or act as food source for rodents. Tested in accordance with ASTM C1338-08.

Non-corrosive. Chemically inert. Hydrogen ion concentration at pH 8~9. Will not cause or accelerate corrosion of steel, stainless steel, copper or aluminium. Tested in accordance with ASTM C665-12.

Non-hygroscopic. Water vapour absorption less than 0.2% by volume. Tested in accordance with ASTM C1104.

High service Temperature. Maximum service temperature of 450 °C. Tested in accordance with ASTM C411.



NEW ZEALAND BUILDING CODE (NZBC)

Eliment products have been evaluated through the CodeMark process. When used, installed and maintained in accordance with the requirements outlined in this datasheet, will meet or contribute to meeting the following provisions of the NZBC:

Clause B2 - DURABILITY

Performance B2.3.1 (a) The life of the building, being not less than 50 years

Clause C3 - FIRE AFFECTING AREAS BEYOND THE FIRE SOURCE

Performance C3.7 (a) be constructed from materials which are not combustible building materials, or

Clause E3 - INTERNAL MOISTURE

Performance E3.3.1

Clause F2 - HAZARDOUS BUILDING MATERIALS

Performance F2.3.1

Clause H1 ENERGY EFFICIENCY

Performance H1.3.1 (a) and H1.3.2E.

FIRE SAFETY PROPERTIES

The ceiling insulation is inherently non-combustible and therefore won't burn if exposed to fire. Tested in accordance with:

B.S. 476: Part 4 Non-combustibility

B.S. 476: Part 6 Fire propagation

B.S. 476: Part 7 Surface spread of flame

ASTM E84 - surface burning characteristics.

SURFACE BURNING CHARACTERISTICS

Meets the surface burning characteristics and limited combustibility in accordance with ASTM E84.

THERMAL PERFORMANCE

The thermal resistance value was determined at mean temperature of 15 °C as per AS/NZS 4859.1 : 2018. This assures users the products deliver the specified thermal resistance which contribute to the operational efficiencies of the building. Please refer to the table on 'Products Available' for more information on the thermal resistance values.

ACOUSTIC PERFORMANCE

Eliment ceiling insulation acts as a natural and effective sound barrier. It minimises sound transfer. Please contact one of our Eliment Insulation representatives for further information relating to acoustic performance.

BIOSOLUBILITY

Eliment is manufactured with bio-soluble fibres, creating a product that is safe to use in any residential, commercial or industrial application. Bio-soluble fibres have been extensively researched and shown to pose no long term health risks.

PRODUCT WARRANTY

This product is covered by a 70 year product warranty. For full details, please visit elimentinsulation.co.nz.

*Terms & conditions apply.



SPECIFICATION NOTES

The insulation material shall be Eliment ceiling insulation R ____ m² K/W ____ x ____ x ____ mm (specify material R-value, width, length, thickness) as manufactured by PGF Insulation.

PRODUCT AVAILABLE

R- Value (m ² K/W)	Thickness (mm)	Width (mm)	Length (mm)	Piece Per Pack	Packs Per Bale	Area Per Pack (m ²)
R3.6	165	432	1220	14	8	7.38
R4.0	195	432	1220	12	8	6.32
R5.0	230	432	1220	8	8	4.22
R6.0	278	432	1220	7	8	3.69
R7.0	285	460	1220	5	8	2.81

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of glass wool insulation listed herein represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Any references to numerical flame spread or smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Warranty and liability upon delivery shall be in accordance with our General Terms and Conditions. No responsibility is assumed for the correctness of this information. Version of 3rd Sep 21.

Another Quality Product
Manufactured by :



PGF Insulation Sdn. Bhd.
2449, Lorong Perusahaan Sepuluh,
Kawasan Perusahaan Perai,
13600 Perai, Penang, Malaysia.

