

# éc@wool

Insulation



-  Fire-Safety
-  Sustainability
-  Thermal Comfort
-  Energy Efficiency
-  Sound Comfort
-  Lightweight

# Your ideal partner in sustainable insulation

ECOWOOL Insulation has been providing fire safety, thermal and acoustic solutions to Australia for over 13 years. We offer a range of environmentally sustainable products that can make your home, office or factory more comfortable and energy efficient. We are committed to providing the Earth with a better and greener tomorrow by putting a stop to climate change.

## **We offer quality insulation products that suit your needs!**

Our state of the art manufacturing facility in Malaysia, manufactures glass mineral wool insulation using up to 80% of recycled glass as a substitute for silica sand. Our advanced technology ensures the production of a superior insulation material which allows us to offer a wide range of high quality products that meet the needs of the residential, commercial, HVAC and industrial sectors.

We offer the latest high grade insulation materials by means of new innovative products, production line expansion and development. Our highly trained and experienced team with world class manufacturing skills are ready to help you with your insulation needs.

Moving towards sustainable insulation materials which contribute towards energy conservation and reduction of carbon emission is a social challenge that entails adjustments in individual lifestyles.

Let's join our hands together to shape a greener pasture for our future. Together with ECOWOOL Insulation, we can insulate for a better future.

**ECOWOOL Insulation Pty. Ltd.**



# ECOWOOL INSULATION

**Feel the difference! Guaranteed !**

ECOWOOL glass mineral wool insulation products are made using SensiTouch Technology. This innovative new binder incorporates a natural anti formaldehyde ingredient and is low in volatile organic compounds.

## ECOWOOL

Firm Friction Fit	Highly resilient insulation recovers quickly to full thickness for a firm friction fit installation
Soft Touch Less Itch	Soft to touch and less itch for easier handling and increase productivity
Fire Safe	Inherently non-combustible and therefore the insulation won't burn if exposed to fire.
Hypoallergenic	unlikely to cause an allergic reaction

**ECOWOOL is  
Australia's preferred  
insulation brand**



# ...with all the advantages of a conventional glass mineral wool...

**ECOWOOL offers added benefits of using an innovative binder which incorporates a natural anti formaldehyde ingredient and has no harmful chemicals.**

## **FIRE HAZARD PROPERTIES**

ECOWOOL insulation achieved the following Early Fire Hazard Performance Indices of; Ignitability 0, Spread of Flame 0, Heat Evolved 0, Smoke Developed 0-1, in accordance with AS/NZS 1530.3 : 1999.

## **COMBUSTIBILITY PROPERTIES**

Inherently non-combustible therefore ECOWOOL glass mineral wool won't burn if exposed to fire. ECOWOOL insulation is non-combustible when tested in accordance with AS1530.1 : 1994

## **SURFACE BURNING CHARACTERISTICS**

Meets the surface burning characteristics and limited combustibility of ASTM E84.

## **THERMAL PERFORMANCE**

The thermal resistance value was determined at mean temperature of 23° C as per AS/NZS 4859.1 : 2018 / Amdt 1: 2006. This assures users the products deliver the specified thermal resistance which contribute to the operational efficiencies of the building.

## **ACOUSTICAL PERFORMANCE**

The National Construction Code (NCC) has adopted the Weighted Sound Reduction Index (Rw) as a measure of the sound isolating properties of building elements. A building's wall, ceiling and roof system with a higher Rw rating isolates sound better than a system with a lower Rw rating. ECOWOOL wall batts act as a natural and effective sound barrier. It minimizes sound transfer and achieves excellent Rw ratings.

## **INDIVIDUAL VOLATILE ORGANIC COMPOUNDS (VOC's) EMISSION**

Safe to use due to the low Volatile Organic Compounds (VOCs) content. This ensures that no harmful levels of VOCs are released. Tested in accordance with ASTM D5116 -06.

## **SUSTAINABLE PRODUCT**

ECOWOOL Insulation is committed to providing environmentally sustainable products. ECOWOOL products are free from CFCs, HCFCs and any other material with ozone depletion potential in their manufacture or content and represent no known threat to the environment. Made from up to 80% of recycled glass and with the adoption of responsible sourcing, ECOWOOL insulation is perfectly in tune with sustainability and environmental concerns.

# ...and more!

## Improved product performance and durability

### **SOFT TO TOUCH AND LESS ITCHY.**

Specifically engineered to produce a softer feel and less itchy product compared to conventional glass wool.

### **FIRM FRICTION FIT.**

The rigidity of the batts assures users the product will not sag within the cavity. Sagging of insulation creates voids which in turn diminish a building systems overall thermal and acoustic performance.

### **HYPOALLERGENIC.**

Unlikely to cause an allergic reaction.

### **REDUCED SOUND TRANSMISSION.**

Exceptional acoustic performance. Designed to reduce transmission of unwanted noise, ECOWOOL minimizes sound transfer through wall systems or enclosures in residential, commercial and industrial buildings.

### **SENSITOUCH TECHNOLOGY**

Our innovative new binder incorporates a natural anti formaldehyde ingredient and is low in volatile organic compounds, making for a safer and more pleasant installation process. Tested in accordance with ASTM D5116-06.

### **MOULD GROWTH.**

Does not encourage growth of mould, fungus, bacteria or rodents. Tested in accordance with ASTM C1338-08.

### **CORROSIVENESS.**

Chemically inert. Hydrogen ion concentration at pH 6~7. Will not cause or accelerate corrosion of steel, stainless steel, copper or aluminum. Tested in accordance with ASTM C665-12.

### **WATER VAPOR ABSORPTION.**

Absorbs less than 5% by weight. Tested in accordance with ASTM C1104

### **MAXIMUM SERVICE TEMPERATURE.**

Maximum service temperature of 450°C.

# SensiTouch TECHNOLOGY

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



## Easier handling...

A new generation of glass mineral wool that's less dusty and feels good...

**Australian installers are switching to ECOWOOL as its less dusty and less itchy compared to conventional glass mineral wool.**

## Firm Friction Fit

### Highly resilient insulation...

Recovers quickly to full thickness for a firm friction fit installation, offers a nearly tool-less installation that its counterparts are unable to offer.

**More than 300 professional installers have switched to ECOWOOL as its easier to install compared to conventional glass mineral wool.**



## ...a green manufacturing process.

As the leader in eco-friendly insulation, PGF Insulation operates its own post consumer glass collection and recycling facility. With the recycling of glass, ECOWOOL makes an important ecological contribution.

Recycled glass is the main raw material to produce ECOWOOL glass mineral wool insulation. It is made with up to 80% of recycled glass which otherwise would be sent to landfill.

The recycled glass cullet is melted at 1,400 °C to form a lava like molten glass. The molten glass produced is converted into fibres by a rotary process that combines a centrifugal drawing of the glass through a rotating device drilled with thousands of tiny holes and attenuated by high temperature gas jet streams.

## ...ECOWOOL is better for the environment with all the advantages of a conventional glass mineral wool!

The thermal, fire safety, sound insulation and mechanical properties are retained and combined with being less dusty and less itchy!



Feel the difference. Guaranteed!



# An exceptional level of sustainability...

ECOWOOL Insulation is committed to providing environmentally sustainable products. Our glass mineral wool made using SensiTouch Technology is perfectly in tune with sustainability and environmental concerns:

- ✓ Made from 80% of recycled glass
- ✓ Naturally brown without artificial colors added
- ✓ Free from CFCs, HCFCs and any other material with ozone depletion potential in the manufacturing process or content, and represent no known threat to the environment.



# Benefits of Insulation



## Thermal Insulation

Insulation is an essential building component as it offers excellent thermal insulation properties, enhancing the quality of life, and the performance of buildings in which it is installed. Insulation incorporated into walls, ceilings and roofs makes a significant contribution to a building's long term energy performance by resisting heat flow. Heat is a form of energy, it always seeks a cooler area flowing outward in winter and inward in summer.

All building materials used in a wall, ceiling and roof increase the thermal resistance to a certain extent; however glass mineral wool is the most efficient at adding thermal resistance because of their low thermal conductivity. Heat flow through a building element can occur through conduction, convection or radiation. By reducing heat flow, a properly insulated building increases overall occupant comfort while maintaining lower energy costs. ECOWOOL glass mineral wool is fast to install and performs for the life of a building with no need for ongoing maintenance.

## Acoustic Insulation

Acoustic design requirements are becoming increasingly stringent. By far the most effective, durable and economical method for controlling noise is to install glass mineral wool products in an area where noise control is required. Be it cinema, auditorium, meeting room or office, glass mineral wool could be applied in ceilings or walls to reduce the sound reverberation and noise. In addition, when installed in the wall cavity, sound transmission from one room to another could be reduced significantly. Buildings need to be incorporated with noise control measures covering both sound transmission and sound absorption not only to meet building regulation requirements, but also health and safety regulations.

The sound absorption characteristics of glass mineral wool make it ideal for acoustic treatment to comply with sound insulation regulation requirements. ECOWOOL glass mineral wool has excellent acoustic absorption characteristics. It is used in carefully specified constructions with good detailing to contribute towards a conducive environment.

## Strict controls guarantee a level of quality which you can rely on

ECOWOOL, our new generation of glass mineral wool is the result of thirty years of intensive research and development in the insulation industry. As part of our continuous improvement effort, it is our on-going desire to provide our customers with innovative and high end insulation products which also meet the growing industry demand for more sustainable construction materials. Strict controls guarantee a level of quality on which the construction industry can rely on. They are manufactured in Malaysia at the state of the art manufacturing facility strictly governed by our quality management division. Being certified to ISO 9001, we are committed in offering consistently high standard of quality glass mineral wool insulation for various industry.

Therefore, ECOWOOL Insulation is proud to boast that our products are of prime quality.



## Quality Insulation Guaranteed!

### 70 Year Product Warranty

ECOWOOL INSULATION PTY LTD (ACN 624672475) warrants that its glass mineral wool insulation will remain free of defects in material and manufacture for 70 YEARS from the date of purchase and meet the following standards provided they are not tampered after installation:

- ✓ Maintain its optimum fire resistance performance when tested in accordance with AS1530.3: 1999.
- ✓ Be electrically non-conductive, allergy free, will not pack down, will not rot or support mould or deteriorate.
- ✓ Maintain the stated thermal resistances (R-Values) in accordance with AS/NZS4859.1.

Terms & Conditions apply. Refer to the Product Warranty Sheet available on our website [www.ecowool.com.au](http://www.ecowool.com.au) for more information.

# Applications

## Residential Application

Home insulation is an essential step in making your home a comfortable place for you and your family. A well-insulated home will provide the highest level of fire safety, thermal and acoustic performance for building occupants to achieve the optimum level of indoor comfort deserved. It is not just about comfort, our glass mineral wool insulation will add value to your home, as well as make it more energy efficient. Whether you want to reduce your energy bills, retrofit your current home or build a new home, ECOWOOL will be able to help you achieve your goals of creating a comfortable, healthy and energy efficient indoor environment. To achieve those goals, the products you choose do make a difference.

We offer a complete line of glass mineral wool made using SensiTouch Technology for home insulation. These insulation products are available in the form of blankets, batts, boards and loose fill catering to the various needs and designs of residential buildings. They deliver superior fire safety, thermal and acoustical performance you expect as well as promote improved indoor air quality and a healthier and safer home you want by reducing your overall exposure to formaldehyde.

Due to the unique and superior characteristics of ECOWOOL glass mineral wool, it is the preferred insulation material in the Australia.

## Industrial Application

Using Ecowool Insulation glass mineral wool insulation to insulate industrial applications can save thousands of times the amount of energy that is actually used to produce Ecowool Insulation products. This makes us a key contributor in reducing heat loss and energy consumption for various industrial applications. Applications such as industrial pipes, boilers, ovens and other industrial machineries place very high demand on insulation systems. As they operate at high temperatures, the main purpose of the insulation system is to prevent heat loss or gain as well as personnel protection from skin burns, which can occur at temperatures above 60°C. Adding to our collection of unbeatable glass mineral wool insulation, Ecowool Insulation offers Sectional Pipe Insulation to be used for hot and cold air, water, and steam pipelines. Ecowool Insulation glass mineral wool insulation withstands high operating temperature and is suitable for use with service temperature up to 450°C. A well designed insulation considerably reduces energy usage, protects personnel and CO2 emissions, helping to increase of the overall efficiency of the insulated item or system.

# Applications

## Commercial & Mechanical Application

Commercial application insulation is the most important factor for a building owner when it comes to energy efficiency, heat conservation and saving money. The term 'commercial' refers to many different projects including hotels, hospitals, commercial buildings, schools and many more. Commercial applications require good and reliable insulation for all the same reasons as any other application. Ecowool Insulation glass mineral wool has been designed to provide fire safety, superior thermal and acoustic control for this application. We provide a competitive, high performance thermal and acoustic treatment for partitions, wall assemblies, roofs as well as ceilings which provides a range of thermal resistance value up to R6.0 and acoustic ratings up to NRC 1.00. These product ranges are made available in the form of panels, blankets, batts, boards and loose fill insulation. Comfort will be the primary concern in designing HVAC installation and it is undeniable that it is the main reason for installing an HVAC system in a building. In this application, comfort refers to temperature, humidity, air replenishment and noise levels etc. These then need to be regulated to deliver the perception of comfort to the user. Ultimately, this comfort has to be achieved with rational and efficient use of energy.

ECOWOOL consists of a full range of products for thermal and acoustic insulation of HVAC ducts and pipes. Developed to meet the needs of the installer and building user. They are designed for different building characteristics and uses. The insulation products will significantly improve thermal and acoustic comfort as well as maximizing energy savings and contributing to a safer working and living environment. Our pre-insulated duct work systems are designed to enable ducts to be constructed in a single operation, without the need for metal ductwork. The glass mineral wool duct board provides built-in thermal insulation and sound absorption, so there is no need for further insulation to be added once the duct is fabricated.

ECOWOOL glass mineral wool insulation not only delivers comfort in the building but it also ensures reduction in energy consumption and superior acoustic performance. We take great pride in offering an extensive range of products for the commercial and mechanical application at unbeatable pricing.

# Applications

## Technical Application

ECOWOOL glass mineral wool is suitable for industrial manufacturers that integrate our materials into a finished product for a variety of applications such as domestic appliances, cars, trains, fire doors, sandwich panels, industrial furnaces and many more. ECOWOOL consists of a wide range of thermal and acoustical insulation solutions, custom fit to match almost any application and requirement.

### Shipbuilding

Lightweight insulation boards and blankets for the shipbuilding industry. ECOWOOL glass mineral wool is not only an excellent insulator, it also offers weight reduction in comparison with other conventional mineral insulation of the same thermal and acoustic performance.

These non-combustible glass mineral wool products provide excellent thermal and acoustical insulation as well as a higher degree of fire safety on marine vessels. ECOWOOL Insulation offers perfect insulation solutions for the shipbuilding industry. They improve safety, help to reduce unwanted noise and maintain comfortable working temperatures within the vessels.

### Appliances

A wide range of insulation products are carefully designed for major appliances such as ovens, water heaters, washers and refrigerators. In addition to absorbing sound within a particular frequency range, the insulation manufactured also prevents thermal transfer. These insulation products are made available in a full selection of sizes, densities and forms for various types of appliances. They can also be specially fabricated to make final assembly quicker and easier to solve critical thermal and acoustic needs.

### High Energy Efficiency Devices

Vacuum Insulated Panels (VIP) are made available for high energy efficiency devices like refrigerators, cool boxes, refrigerated trucks and containers. VIP has been developed to provide better insulation that has high thermal resistance which can be used in a limited space. These insulation panels are available in various sizes to suit the need of high energy efficiency devices.

### Automotive

Glass mineral wool helps to reduce the transmission of noise and heat in a wide range of automobile applications including passenger cars, buses, transit cabins, train cabins and other automobiles. These products are available in a variety of forms including loose wool, pre-molded shapes, boards and plain rolls for various automotive applications.

### Others

ECOWOOL glass mineral wool are also offered for other technical applications such as thermal solar collectors, sound barriers and fire protection doors. Our specialized high performance glass mineral wool are found in a wide range of technical applications and is the ultimate solution for your fire resistance, non-combustibility, thermal and acoustic insulation requirements.

# Accreditation

Our new generation of glass mineral wool is the result of more than thirty years of intensive research and development in the insulation industry. As part of our continuous improvement effort, it is our on-going desire to provide our customers with innovative and high end insulation products which also meet the growing industry demand for more sustainable construction materials.



All ECOWOOL products have received third party Product Certification that they comply with AS/NZS4859.1 : 2018. This independent assurance gives you peace of mind that you are fulfilling all your obligations as required under the Building Code of Australia.



# Who We Are

ECOWOOL Insulation has years of experience in designing, manufacturing and distributing glass wool insulation for energy efficiency and climate control. We form part of the wider PGF Insulation business and have been distributing our ECOWOOL product range in Australia for over 13 years.

All ECOWOOL products have received third party Product Certification that they comply with AS/NZS 4859.1, AS1530.1 & AS1530.3. This independent assurance gives you peace of mind that you are fulfilling all your obligations as required under the Building Code of Australia.

With sales and distribution outlets established in New South Wales, Victoria, Queensland & Western Australia, our experienced team will be ready to offer solution to your insulation needs.

With over 250 highly skilled employees and state of the art production facilities located in Malaysia, PGF Insulation ranks among the top glass wool manufacturers in the Asia Pacific region. ECOWOOL products are also well represented in countries like New Zealand, Singapore, Japan, Taiwan, Vietnam, Indonesia, India, Pakistan, Bangladesh, United Arab Emirates, Kuwait, Bahrain, Ireland, Russia, Canada and many more.

Since 1984, PGF Insulation consistently demonstrated its ability to invent products that improve quality of life. As one of the top mineral wool insulation manufacturers, we continue to deploy our technological know-how, often in partnership with the most prestigious and reputable organisations in the industry. Being one of the industry leaders in the manufacture of glass wool insulation, we

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# Our Pride, Our Glory

A reference project database has been developed to exhibit ECOWOOL Insulation's outstanding projects across the world. We are proud to present some of our key achievements that demonstrate our capabilities to contribute to high performing constructions. This special focus made on high-performance and prestigious projects show with real cases the added-value of our glass mineral wool insulation and increase visibility amongst our customers, architects, press and other partners. You can find this database on the corporate website.

[www.ecowool.com.au](http://www.ecowool.com.au)





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