

SUSTAINABILITY

OUR COMMITMENT FOR THE FUTURE





Bradford Insulation has been manufacturing energy saving insulation in Australia since 1934. With extensive operations across the Asia Pacific region, Bradford is a world renowned leader in the insulation industry with a long involvement in providing energy efficiency solutions.

We support sustainability in three key ways:

1. Improving the living and working environment through greater thermal and acoustic comfort
2. Saving energy and reducing the associated greenhouse gas emissions
3. Reducing waste through environmentally sound manufacturing

Energy Efficiency



A building that is thermally efficient reduces the amount of energy required to maintain a comfortable living and working environment. Glasswool and rockwool insulation products can save 12 times as much energy, in their first year in place, as the energy used to produce them¹.

Over their lifetime that saving amounts to hundreds of times the energy used to make them. Reducing energy consumption means less fossil fuel is burned to produce that energy, resulting in less pollution and lower greenhouse gas emissions.

Insulation has a major part to play in the fight against climate change. A recent McKinsey report identifies insulation as the most cost effective way to address greenhouse gas abatement².

Insulating Australia's 2.7million uninsulated homes could deliver immediate reductions in greenhouse gas emissions equivalent to taking over half a million cars off the road.

Efficient Manufacturing Processes



Bradford Insulation operates world class manufacturing facilities. We continually strive to improve our manufacturing efficiency, reduce energy consumption, eliminate waste and minimise our impact on the environment.



Our Ingleburn glasswool insulation plant utilises best available technology to reduce air emissions to levels that are among the lowest in the world.

Our long term goal is zero waste manufacturing processes.

Our glasswool and rockwool plants recycle all water used in the manufacturing process.

Recycled Content



Bradford Insulation glasswool is manufactured using up to 80% recycled glass. This comes from recycled bottles which are not suitable for recycling in flat or container glass manufacture.

Up to 20% blast furnace slag – a waste product of the iron and steel-making

industry – is used in the manufacture of Bradford rockwool products.

Using recycled glass and blast furnace slag not only reduces demand on virgin resources, it also saves landfill space by diverting materials from the solid waste stream. As an added benefit, it also reduces the amount of energy used – and greenhouse gases emitted – during the manufacturing process.

Use and Re-use

Our glasswool and rockwool products will, if left undisturbed, perform for the life of the building or installation. Most forms can easily be removed and reinstalled, saving costs, resources and energy in building expansions or renovations.

Glasswool and rockwool insulation products can save 12 times as much energy, during their first year in place, as the energy used to produce them.

Bradford Insulation has recently developed an innovative process to efficiently recycle rockwool scrap generated in the manufacturing process, and will soon be able to receive rockwool demolition waste for recycling into new rockwool insulation products. We also supply cut-to-size products that minimise waste on site.

Packaging and Transportation

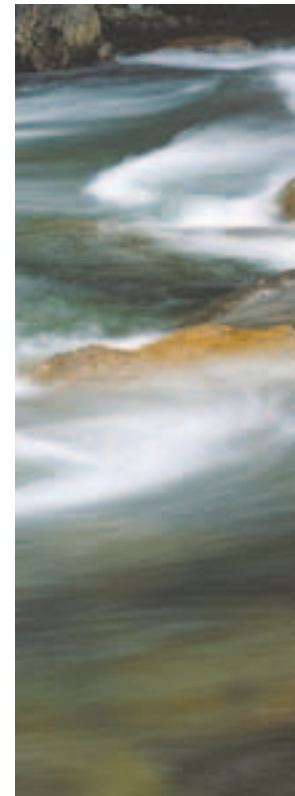
Bradford Gold insulation is packed in a highly compressed state. This means that more insulation can be shipped in each truck, reducing the energy required for transportation.

In addition, our polyethylene packaging is recyclable. Where collection facilities exist this versatile material can easily be recycled into new polyethylene products such as builders film.

Fire and Corrosion Resistance

Bradford Insulation glasswool and rockwool are naturally fire resistant and remain so for the life of the product. It is not necessary to add additional fire retardant chemicals. Non-combustible rockwool and glasswool products comply with AS1530.1 and have the lowest toxicity category of off-gases during fire.

Bradford Insulation glasswool and rockwool products are inert and have a pH that is slightly alkaline, so they will not corrode steel.

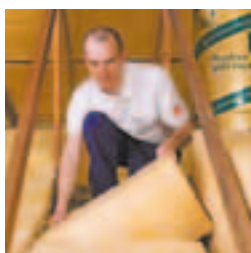


Ozone Depleting Potential

As a business we have undertaken an audit of our glasswool, rockwool and reflective foil laminate insulation manufacturing processes referencing the US EPA List of Ozone Depleting Substances (Class 1 and Class 2) and determined that, to the best of our knowledge, no Ozone Depleting Substances are involved in either the manufacture or composition of these products.

Bradford Insulation is proud to state that our glasswool, rockwool and reflective foil laminates have an Ozone Depleting Potential of zero.

Occupational Health & Safety



Glasswool and rockwool insulation products have been in worldwide use for over 70 years and, during that time, their manufacture and use have been extensively monitored and researched. It is clear from this research that no serious health effects have ever

occurred in those manufacturing, using or otherwise exposed to glasswool and rockwool insulation.

Glasswool and rockwool insulation were reclassified in 2001 as 'not classifiable as carcinogenic to humans' by the International Agency for Research on Cancer (IARC).

No evidence of fibre release or chemical off-gassing from binding agents is detectable once installed.



Bradford is the only approved insulation partner of the National Asthma Council Australia Sensitive Choice program. Bradford's glasswool and rockwool insulation products are suitable for use in the homes of asthma and allergy sufferers.

Bradford Insulation began manufacturing FBS-1 Bio-soluble glasswool and rockwool in 2001. They are not classified as hazardous.

Further Information

If you require more information please refer to the Bradford Insulation Technical Manual or the Bradford Insulation website www.bradfordinsulation.com.au.

1st Green and Competitive - The Energy, Environmental, and Economic Benefits of Fibre Glass and Mineral Wool Insulation Products", by Energy Conservation Management Inc.; The Alliance to Save Energy; and Barakat & Chamberlin, Inc., June 1996

2 A Cost Curve for Greenhouse Gas Reduction, Per-Anders Enkvist, Tomas Naucler and Jerker Rosander. 2007

Bradford[™]
for smarter environments

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