

#### DESCRIPTION

ECOWOOL acoustic batts, the formaldehyde-free range of glass mineral wool insulation manufactured in partnership with Poly Glass Fibre Insulation (PGF) are intended for both thermal and acoustic insulation application. They are manufactured using recycled glass and with SensiTouch Technology, employ a bio-based binder which has no added formaldehyde, phenol or any other artificial chemicals. The formaldehyde-free batts range encompasses multiple densities, thicknesses and dimensions to suit typical timber or steel framed construction and to satisfy a broad spectrum of building requirements.

#### 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, an innovative new binder that eliminates binder-related formaldehyde emissions during manufacturing and once installed, will not emit formaldehyde into the indoor environment.

#### AS/NZS 4859.1:2002 COMPLIANT

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

#### SUSTAINABLE PRODUCT

ECOWOOL Insulation is committed to providing environmentally sustainable products. ECOWOOL acoustic batts are free from CFCs, HCFCs and any other material, with ozone depletion, potential in their manufacture/composition content, and represent no known threat to the environment. Made from nearly 80% recycled glass and locally sourced raw materials, the acoustic batts are perfectly in tune with sustainability and environmental concerns.

#### APPLICATION

The acoustic batts are designed to be used in partition wall systems in residential and commercial buildings for enhanced thermal and acoustic performance. They can be fitted between timber or steel studs for exterior and interior walls, floors, crawlspaces and a variety of ceiling applications. They are specifically designed for press-fit between studs.

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

Safe to use due to the low Volatile Organic Compounds (VOC's) content. This ensures that no harmful levels of VOC's are released. Tested in accordance with ASTM D 5116.



**Feel the difference. Guaranteed !**

#### ADVANTAGES

**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 acoustic batts assures users the product will not sag and leave gaps or voids within the cavities. Gaps or voids within the cavities can lead to the loss of 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 drywall partition, ceiling or underfloor application in residential or commercial buildings.

**No-added formaldehyde.** Formaldehyde-free binder reduces the overall formaldehyde exposure and creates a safer indoor environment. Tested in accordance with ASTM D 5116.

**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 350°C.

#### 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 and therefore the wall batts won't burn if exposed to fire. ECOWOOL insulation is non-combustible when tested in accordance with :

- AS/NZS1530 Part 1: 1994

#### SURFACE BURNING CHARACTERISTICS

Meets the surface burning characteristics and limited combustibility of the following standard:

- ASTM E84

#### THERMAL PERFORMANCE

The thermal resistance value was determined at mean temperature of 23°C as per AS/NZS 4859.1:2002/Amdt 1:2006. 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.

#### 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 system with a higher Rw rating isolates sound better than a system with a lower Rw rating. ECOWOOL acoustic batts act as a natural and effective sound barrier. They minimize sound transfer and achieve excellent Rw ratings. Please contact one of our ECOWOOL Insulation representatives for further information relating to the acoustic performance

#### PRODUCT WARRANTY

This product is covered by a 70 year product warranty. details, please go to [www.ecowoolinsulation.com.au](http://www.ecowoolinsulation.com.au). Terms & Conditions apply.



#### SPECIFICATION NOTES

The insulation material shall be ECOWOOL formaldehyde free acoustic batts. R \_\_\_\_ m<sup>2</sup>K/W \_\_\_\_ x \_\_\_\_ x \_\_\_\_mm (specify material R-Value, width, length, thickness) as manufactured by PGF Insulation.

### PRODUCTS AVAILABLE

Density(kg/m <sup>3</sup> )	Thickness (mm)	R- Value (m <sup>2</sup> K/W)	Width (mm)	Length (mm)	Piece Per Pack	Packs Per Bale	Area Per Pack (m <sup>2</sup> )
11	50	R1.2	600	1160	30	8	20.88
11	50	R1.2	450	2700	20	8	24.30
11	50	R1.2	600	2700	20	8	32.40
11	75	R1.8	600	1160	22	8	15.31
11	75	R1.8	450	2700	14	8	17.01
11	75	R1.8	600	2700	14	7	22.68
11	110	R2.5	600	1160	14	8	9.74
14	50	R1.3	450	1160	24	8	12.53
14	50	R1.3	600	1160	24	8	16.70
14	75	R1.9	450	1160	16	8	8.35
14	75	R1.9	600	1160	16	8	11.14
14	90	R2.2	580	1160	14	8	9.42
16	75	R2.0	600	1160	14	8	9.42
16	75	R2.0	430	1160	20	8	9.98
18	25	R0.7	600	21600	2	6	25.92
18	90	R2.5	580	1160	11	8	7.46
18	90	R2.5	430	1160	11	8	5.49
24	50	R1.4	600	1160	13	8	9.36
30	90	R2.7	580	1160	7	8	4.71
30	90	R2.7	430	1160	8	8	3.99
32	90	R2.7	600	1160	6	8	4.32

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of glass mineral 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 1<sup>st</sup> October 2018.