

DESCRIPTION

NoiseBreak™ acoustic batts, is a high performance acoustic insulation from ECOWOOL Insulation, manufactured in partnership with PGF Insulation. It is designed to provide excellent sound comfort to your homes and offices.

Our NoiseBreak™ range consists of various thicknesses and dimensions to suit typical timber or steel framed studs, satisfying a broad spectrum of building requirements.

APPLICATION

NoiseBreak™ is a high density acoustic insulation specially engineered to integrate with walls for residential and commercial use. The premium performance from NoiseBreak™ will provide the user with a plush living condition by reducing loud noises to a comfortable level, both internal and external. Whether the internal and external walls are separating a bedroom from a bathroom; living area from an entertainment room, or between floors they need to function at a defined and accepted acoustic level.

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 Insulation's NoiseBreak™ product range 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.

HEALTH AND SAFETY

NoiseBreak™ is manufactured using bio-soluble formulation. Bio-soluble fibers have been extensively researched and shown to pose no long term health risks. PGF Insulation has assessed against the National Occupational Health and Safety Commission (NOHSC) approved criteria for classifying hazardous substances NOHSC:1008 (2004) and NoiseBreak™ insulation is not classified as hazardous.

AS/NZS 4859.1:2018 COMPLIANT

Our NoiseBreak™ product range has received Third Party Product Certification that they comply with AS/NZS 4859.1. 2018. This independent assurance gives you peace of mind that you are fulfilling all your obligations as required under the Building Code of Australia.

GLOBAL GRRENTAG PRODUCT

ECOWOOL products are certified with the GreenRate Level A Certificate, a globally recognized mark of sustainability. This certification ensures our products meet high environmental standards, promoting eco-friendly construction and healthier buildings.

BIOSOLUBILITY

Ecowool NoiseBreak™ acoustic batts are manufactured with bio-soluble fibers creating a low allergen 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.



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 wall 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 drywall partition systems in residential or commercial buildings.

SensiTouch Technology. innovative new binder incorporates a natural anti-formaldehyde ingredient and is low in volatile organic compounds, making for a safer and more pleasant installation. Tested in accordance with ISO 16000-9:2006.

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. When tested in accordance with ASTM C1104, this product has been determined to be <0.02% by volume

Maximum service temperature. Maximum service temperature of 350°C.



FIRE SAFETY PROPERTIES

NoiseBreak™ acoustic batts 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. NoiseBreak™ acoustic batts are non-combustible when tested in accordance with :

- o 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 4859.1:2018/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 Range' for more information on the thermal resistance values.

ACOUSTIC PERFORMANCE

With a high nominal density of 24–32kg/m³, NoiseBreak™ batts are highly effective at minimizing sound transfer through both internal and external walls. Insulating internal walls, such as those around theatre rooms, bathrooms, laundries, and kitchens, is particularly beneficial. Please refer to the table on 'Acoustic Performance' below for more information on the NRC values.

PRODUCT WARRANTY

This product is covered by a 70 year product warranty. For full details, please go to www.pgfindulation.com.au. Terms & Conditions apply

SPECIFICATION NOTES

The insulation material shall be NoiseBreak™ having a material R-value; $R_{\text{specify R-Value}}$ at thickness_(mm) as manufactured by PGF Insulation. For installation specification refer to the relevant Ecowool Insulation installation guideline.

PRODUCT RANGE

R-value (m²K W)	Thickness (mm)	Length (mm)	Width (mm)	Area Per Pack (m²)	Product Codes
R1.7	60	1.16	430	6.48	605001
R1.7	60	1.16	580	8.75	605002
R2.0	70	1.16	430	4.99	605003
R2.0	70	1.16	580	6.73	605004
R2.5	90	1.16	430	4.49	605005
R2.5	90	1.16	580	6.06	605006
R2.7	90	1.16	430	3.99	605007
R2.7	90	1.16	580	4.71	605008
R3.1	110	1.16	430	3.49	605009
R3.1	110	1.16	580	4.71	605010

ACOUSTIC PERFORMANCE

Product	Thickness (mm)	Sound Absorption Coefficients at Frequencies (Hz) of	125	250	500	1000	2000	4000	NRC	Flow Resistivity (Rayl/m)	α_w
R1.7	60		0.3	0.75	0.9	0.95	1.0	0.95	0.90	13700	1.0
R2.0	70		0.45	0.9	1.0	1.0	0.95	0.95	0.95	13700	1.0
R2.5	90		0.7	1.1	1.1	1.0	0.95	0.95	1.05	13700	1.0
R2.7	90		0.85	1.15	1.1	1	0.95	0.95	1.05	22300	1.0
R3.1	110		1	1.25	1.1	1	0.95	0.95	1.10	13700	1.0

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 25th October 2024.