

DESCRIPTION

Ecowool acoustic partition, our new generation range of glass mineral wool insulation, manufactured by PGF Insulation are intended for both thermal and acoustic insulation application. They are manufactured using recycled glass and with SensiTouch Technology, employs a binder which incorporates a natural anti-formaldehyde ingredient, and has no harmful chemicals. The Ecowool insulation that is available in both batt and roll 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 utilizes 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.

AS/NZS 4859.1:2018 COMPLIANT

All Ecowool products have 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

SUSTAINABLE PRODUCT

Ecowool Insulation is committed to providing environmentally sustainable products. Ecowool acoustic partition 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 partition 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 friction-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.



ADVANTAGES

Soft to touch and less itchy. Specifically engineered to produce a softer feel and less itchy product compared to conventional glasswool.

Firm Friction Fit. The rigidity of the acoustic batts and rolls 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.

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 ASTM D 5116-06.

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. 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 450°C.



ADDITIONAL PRODUCT DATA	
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 : <ul style="list-style-type: none"> AS/NZS1530 Part 1: 1994
SURFACE BURNING CHARACTERISTICS	Meets the surface burning characteristics and limited combustibility of the following standard: <ul style="list-style-type: none"> 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 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 and rolls act as a natural and effective sound barrier. They minimize sound transfer and achieve excellent Rw ratings. Please contact one of our PGF Insulation representatives for further information relating to the acoustic performance
BIOSOLUBILITY	Ecowool is 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.
VOLATILE ORGANIC COMPOUNDS (VOC) CONTENT	Ecowool Insulation products have a very low VOC at just <1%.. This makes for a safer and more pleasant installation process.
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 ECOWOOL acoustic partition batts. R___m ² K/W___x ___x___mm (specify material R-value, width, length, thickness) as manufactured by PGF Insulation.

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 23rd August 2022.

ECOWOOL ACOUSTIC PARTITION RANGE

Our Ecowool Acoustic Partition range is designed for both thermal and acoustic insulation application and is available in batts and rolls:

BATTS

Density (kg/m ³)	Thickness (mm)	R- Value (m ² K/W)	Width (mm)	Length (mm)	Piece Per Pack	Packs Per Bale	Area Per Pack (m ²)	Product Codes
11	50	R1.2	450	1200	28	8	15.12	606002
11	50	R1.2	600	1200	28	8	20.16	606005
11	75	R1.8	450	1200	20	8	10.80	606010
11	75	R1.8	600	1200	20	8	14.40	606013
11	90	R2.1	600	1200	16	8	11.52	606017
11	110	R2.5	450	1200	14	8	7.56	606059
11	110	R2.5	600	1200	14	8	10.08	606060
14	50	R1.3	450	1200	22	8	11.88	606021
14	50	R1.3	600	1200	22	8	15.84	606024
14	75	R1.9	450	1200	15	8	8.10	606029
14	75	R1.9	600	1200	15	8	10.80	606032
14	90	R2.2	450	1200	12	8	6.48	606035
14	90	R2.2	600	1200	12	8	8.64	606036
24	50	R1.4	450	1200	13	8	7.02	606039
24	50	R1.4	600	1200	13	8	9.36	606040
24	75	R2.1	450	1200	9	8	4.86	606043
24	75	R2.1	600	1200	9	8	6.48	606044
24	90	R2.6	600	1200	8	8	5.76	606046
24	100	R2.8	450	1200	7	8	3.78	606047
24	100	R2.8	600	1200	7	8	5.04	606048
32	25	R0.7	600	1200	8	20	14.40	606064
32	50	R1.5	600	1200	10	8	7.20	606050
32	75	R2.2	600	1200	7	8	5.04	606052
32	90	R2.7	450	1200	6	8	3.24	606053
32	90	R2.7	600	1200	6	8	4.32	606054
32	100	R3.0	450	1200	5	8	2.70	606055
32	100	R3.0	600	1200	5	8	3.60	606056

ROLLS

20	25	R0.7	1200 (600+600)	21600	1	6	25.92	616011
24	25	R0.7	1200 (600+600)	18900	1	7	22.68	616002

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