EcoWool Datasheet

'The Friendlier Batts'

DESCRIPTION

ECOWOOL, the formaldehyde free range of glass mineral wool insulation, manufactured for Termico by PGF Insulation, employs an exciting new binder that is free of formaldehyde, phenol or any other artificial chemicals. Once installed, **ECOWOOL** acts as a highly effective barrier to heat flow, keeping your building cool during hot weather. It combines cost efficiency with the highest standard of insulation performance when installed in either wood, cement board or steel stud partition and in ceiling system applications.

FORMALDEHYDE FREE

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 higher levels may cause irritation and sensitivity. **ECOWOOL** formaldehyde free insulation utilizes an innovative new binder that eliminates binder-related formaldehyde emissions during manufacturing. The formaldehyde free insulation product was tested in Air Quality Services and the product emission for formaldehyde & VOCs passed the GREENGUARD Children & Schools Criteria.

APPLICATIONS

Application focused, **ECOWOOL** is designed specifically for press-fit installation without the need for stapling or fastening. It can be fitted between timber or steel studs in a wall cavity and ceiling system applications. They resist vibration or shakedown and fit readily around uneven surfaces.

The Advantages of EcoWool

Improves Indoor Air Quality

Improves Indoor Air Quality. Formaldehyde free binder reduces the overall formaldehyde exposure. Formaldehyde free insulation means a better smelling indoor environment and less formaldehyde in the air.

Retains shape and form

The **ECOWOOL** batt has the advantage of being incredibly soft to the touch but retains its form and shape better than other soft touch batts in the market place. This is a definite advantage when installing to walls and ceilings.

Sustainable Product

Satisfying the growing indoor air quality (IAQ) needs, uses no ozone depleting products (ODP) in manufacture and has low volatile organic compounds (VOCs) content.

Optimal fibre diameter

Optimal fibre diameter produces more air chamber thus enhancing the insulating performance.

Better fibre network

Fine, longer and evenly distributed fibre network helps in creating better tensile strength allowing the insulation to demonstrate superior durability, flexibility and feeling much softer.

Less dusty and less itchy

Specifically engineered to produce a comfortable and less dusty insulation. The insulation creates a pleasant work experience by reducing the tingling feeling during installation.

Mould Resistant

Does not encourage growth of mould, fungus or bacteria.

Biosolubility

ECOWOOL is produced using bio-soluble fibres. Bio-soluble fibres have been extensively researched and shown to pose no long term health risks.

Corrosiveness

Chemically inert. Will not cause or accelerate corrosion of steel, stainless steel, copper or aluminum due to its specifically inorganic and mineral composition.

Reduce Sound Transmission

Exceptional sound absorbing properties, designed to reduce transmission of unwanted noise, **ECOWOOL** is ideal for drywall partition systems for rooms and offices in residential, commercial and industrial buildings.

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FIRE PROPERTIES

Tested in accordance with (plain/unfaced):

- B.S. 476: Part 4 Non-combustibility test for materials
- B.S. 476: Part 6 Fire propagation
- B.S. 476: Part 7 Surface spread of flame
- BOMBA Class 'O'

FIRE HAZARD PROPERTIES (AS/NZS 1530.3)

- Ignitability: 0
- Spread of flame: 0
- Heat Evolved: 0
- Smoke Developed: 1

SURFACE BURNING CHARACTERISTICS

Meets the surface burning characteristics and limited combustibility of the followings standards (plain/unfaced):

- ASTM E84

THERMAL CONDUCTIVITY

Tested and complies with ASTM C518 at 23°C mean temperature. Please refer to the product range table for more information on the thermal resistance values. **ECOWOOL complies with AS/NZS 4859:1 – 2002 "Material used in the thermal insulation of a building", and the Building Code of Australia (BCA).**

ACOUSTICAL PERFORMANCE

Eco Wool acts as a baffle to reduce sound transmission both from outside and inside sources. It is tested and complies with ASTM C423. Type 'A' mounting. Please contact Termico Insulation sales representative for more information,

INDIVIDUAL VOLATILE ORGANIC COMPOUNDS (VOCS) EMISSION

Eco Wool is safe to use due to the low VOC content. Tested in accordance with ASTM D 5116. Please contact Termico Insulation for more information.

ecowool

sustainable | recycled | ecofriendly

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CEILING BATTS

R-Value (m^2K/W)	Thickness (mm)	Width (mm)	Length (mm)	Pieces per Pack	m^2/Pack
R2.5	115	580	1160	19	12.78
R2.5	115	430	1160	19	9.48
R3.0	140	580	1160	16	10.76
R3.0	140	430	1160	19	9.48
R3.5	160	580	1160	12	8.07
R3.5	160	430	1160	14	6.98
R4.1	188	580	1160	10	6.73
R4.1	188	430	1160	12	5.99
R5.0	230	580	1160	8	5.38
R5.0	230	430	1160	8	3.99
*R6.0	270	580	1160	6	4.04
*R6.0	270	430	1160	6	2.99

*R6 is Ecowool Classic & contains PF

ACOUSTIC BATTS

Density (kg/m^2)	Thickness (mm)	Estimated R-Value (m^2K/W)	Width (mm)	Length (mm)	Pieces per Pack	m^2/Pack
11	50	R1.2	600	1160	26	18.10
11	75	R1.8	600	1160	22	15.31
14	75	R1.9	600	1160	16	11.14
16	75	R2.0	580	1160	14	9.42
16	75	R2.0	430	1160	20	9.98
20	90	R2.5	580	1160	10	6.73
20	90	R2.5	430	1160	12	5.99
32	90	R2.7	580	1160	6	4.04
32	90	R2.7	430	1160	8	3.99

WALL BATTS

R-Value (m^2K/W)	Thickness (mm)	Width (mm)	Length (mm)	Pieces per Pack	m^2/Pack
R1.5	75	580	1160	26	17.49
R1.5	75	430	1160	34	16.96
R2.0	90	580	1160	20	13.46
R2.0	90	430	1160	24	11.97
R2.0 (HD)	75	580	1160	14	9.42
R2.0 (HD)	75	430	1160	20	9.98
R2.5 (HD)	90	580	1160	10	6.73
R2.5 (HD)	90	430	1160	12	5.99
R2.7 (HD)	90	580	1160	6	4.04
R2.7 (HD)	90	430	1160	8	3.99

For more information please feel free to contact us during office hours or email us with your enquiry to admin@termico.com.au

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