

ECOWOOL BLANKET



DESCRIPTION

ECOWOOL blanket is a specifically designed glass mineral wool for thermal and acoustical insulation for roofing application. The new generation of glass mineral wool has been engineered to provide the highest level of thermal and acoustic performance for building occupants to achieve the optimum level of indoor comfort deserved.

Once installed, the high performance insulation blanket acts as a highly effective barrier to heat flow, keeping your building cool during hot weather and conserving the cool air indoors.

APPLICATIONS

Application focused, it combines cost efficiency with the highest standard of insulation performance when installed under metal deck roofs or clay tiles roofs.

ADVANTAGES

Optimal fibre diameter. Optimal fibre diameter ranging from 4-5microns produces more air chamber which enables the insulation to provide a better and enhanced 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 Growth. Does not encourage growth of mould, fungus, bacteria or rodents.

Absorbs Disturbing Sound. Exceptional sound-absorbing properties. Specially designed to reduce rain noise through roofs in industrial, residential and commercial buildings. The acoustic performance of the insulation material can reduce substantial amount of rain noise compared to a metal roof with no insulation. It will also stop noise from the rapid expansion of metal deck roofs under the sun.

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

Alkalinity. pH 9.

Exceptional Vapour Retarder. Factory laminated facing material offers low permeance properties which allows excellent long-term vapour sealing. A properly installed insulation blanket will help minimize concerns with concealed condensation.

FIRE PROPERTIES

Tested in accordance with:

- 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"

SURFACE BURNING CHARACTERISTICS

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

- ASTM E84
- NFPA 90A and NFPA 90B

Read This Before You Buy

Insulation's effectiveness is measured in R-Value. R stands for the insulation's resistance to heat flow; heat escapes from your building and heated air enters your building. The higher the R-Value, the greater the resistance to heat flow and the greater your potential for saving energy, natural resources and money. Compare insulation R-Values before you buy.

R-Value = Thickness / K-Value



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EARLY FIRE HAZARDS

Does not ignite, evolve heat, spread flame or develop smoke when tested in accordance with Australia Standard 1530 : Part 3-1982.

Index	Unfaced	Faced
Ignitability Index	0	0
Heat Evolved Index	0	0
Spread of Flame Index	0	0
Smoke Developed Index	0 ~ 1	0 ~ 1

THERMAL CONDUCTIVITY

Tested and complies with ASTM C518 at 23°C mean temperature. Please refer to the table on product available for more information on the thermal resistance values.

Density	K- Value (W/m K)
10kg/m ³	0.0436
12kg/m ³	0.0422
14kg/m ³	0.0373
16kg/m ³	0.0370
18kg/m ³	0.0360
20kg/m ³	0.0350
24kg/m ³	0.0344
32kg/m ³	0.0333
48kg/m ³	0.0312

ACOUSTICAL PERFORMANCE

Not only an effective thermal insulation, ECOWOOL blanket 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.

TYPE	Center Frequency (Hz)						
	125	250	500	1000	2000	4000	NRC
10kg/m ³	0.46	0.62	0.88	0.87	0.86	0.97	0.80
16kg/m ³	0.23	0.31	0.58	0.80	0.87	0.95	0.65
14kg/m ³	0.39	0.68	1.06	1.03	0.91	0.98	0.91
24kg/m ³	0.36	0.64	1.04	1.06	1.05	1.10	0.95
26kg/m ³	0.19	0.35	0.71	0.86	0.94	0.97	0.70
48kg/m ³	0.38	0.72	1.11	1.07	1.04	1.07	1.00

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of sound control thermal and acoustical fibre glass 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.

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PRODUCTS AVAILABLE

Type	Thickness (mm)	Width (m)	Length (m)
10kg/m ³	50, 75, 100	1.2	30, 15, 10
12kg/m ³	50, 75, 100	1.2	20, 12, 10
14kg/m ³	100	1.2	7.5
16kg/m ³	50, 75, 100	1.2	15, 10, 7.5
18kg/m ³	25	1.2	30
20kg/m ³	25	1.2	30
24kg/m ³	25, 50, 75	1.2	34, 12, 7.5
32kg/m ³	25, 50, 75	1.2	20, 10, 5
48kg/m ³	25, 50	1.2	15, 7.5

AVAILABLE FORM

Unfaced or Plain – designed for predictable thermal insulation performance with the added benefit of being an effective sound absorption material.

SHORT FORM SPECIFICATION

All glass mineral wool insulation shown on drawings or specified herein shall be ECOWOOL BLANKET with density of _____ kg/m³ (10kg/m³,12kg/m³,14kg/m³,16kg/m³,18kg/m³, 20kg/m³,24 kg/m³,32 kg/m³,48 kg/m³) thickness of _____ mm (25mm, 50mm, 75mm, 100mm, 110mm, 120mm).

Thermal resistance "R-Value" of the insulation shall be R _____.

Also available in a full range of formaldehyde free insulation - BROWNIE