CondenShield BLANKET
TECHNICAL DATA SHEET

Ecowool CondenShield BLANKET
Ecowool CondenShield blanket is a light weight, reflective foil faced insulation blanket, designed for fire safety, thermal and acoustic insulation application. Our Ecowool CondenShield blanket provides an effective solution to control temperature and will assist in meeting energy efficiency requirements as set out in the Building Code of Australia.

Ecowool CondenShield blanket is designed to be used in both residential and commercial metal, and under concrete slabs/soffits. The blanket effectively slows the transfer of heat into and out of your home while also absorbing outside noise, while the reflective foil shields against radiant heat from entering the roof cavity and also controls condensation.

KEY PERFORMANCE

THERMAL INSULATION	Keeping your home warmer in winter and cooler and summer
ACOUSTIC INSULATION	Exceptional sound-absorbing properties, specially designed to reduce transmission of unwanted noise
FIRE PROTECTION	Made from non-combustible glass mineral wool and complies with BCA flammability index requirement of ≤ 5
CONDENSATION CONTROL	Reduces the risk of condensation formations which can cause damage to plasterboard ceiling and mould growth

ADVANTAGES

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.

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.

Absorbs disturbing sound. Exceptional sound-absorbing properties, specially designed to reduce transmission of unwanted noise through roof and partition wall 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.

Optimal fibre diameter. Optimal fibre diameter ranging produces more air chamber which enables the insulation to provide a better and enhanced performance.

Corrosiveness. Chemically inert. Hydrogen on concentration at pH9. 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.

Mould growth. Does not encourage growth of mould, fungus, bacteria or rodents. Tested in accordance with ASTM C1338-08.

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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 CondenShield Blanket is made from nearly 80% recycled glass and locally sourced raw materials, the insulation blanket is perfectly in tune with sustainability and environmental concerns.

BUSHFIRE ATTACK LEVEL (BAL)
- BAL (Bushfire Attack Level) Compliant as per AS 3949 BAL Low–40
- Glasswool component meets AS/NZS1530.1 for Non-Combustibility
- Reflective Foil facing component meets AS/NZS 1530.2 flammability index requirement of ≤5
- Meets AS/NZS 1530.3 (0,0,0,2)

FIRE SAFETY PROPERTIES
The glass wool for Ecowool CondenBreak blanket achieved the following Early Fire Hazard Performance Indices of; Ignitability Index 0, Spread of Flame Index 0, Heat Evolved Index 0, Smoke Developed Index 0-1, in accordance with AS/NZS 1530.3 : 1999.

Note: only applicable for the glass wool

THERMAL PERFORMANCE
The thermal resistance value was determined at mean temperature of 23˚C as per AS/NZS 4859.1:2018. 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 'Product Available' for more information on the thermal resistance value.

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 CondenShield Blanket acts as a natural and effective sound barrier. It minimizes sound transfer and achieves excellent Rw ratings. Please contact one of our PGF Insulation representatives for further information relating to the acoustic performance.

R-value (m^2K W)	Thickness (mm)	Width (mm)	Length (m)	Area Per Pack (m^2)	Product Code
CondenShield 60 R 1.3	60	1200	15	18.0	631031
CondenShield 80 R1.8	80	1200	15	18.0	344502
CondenShield 100 R2.5	100	1200	10	12.0	344506
CondenShield 150 R3.7	150	1200	5	6.0	631025

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.

SPECIFICATION NOTES
Insulation material shown on drawings or specified herein shall be of Ecowool CondenShield Blanket, Material R-value of R _____ m^2K/W (specify Material R-value) at a nominal thickness of _____mm (specify nominal thickness).

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