# Formaldehyde-Free™ Glass Wool Insulation Enhanced with Bio-Based Binder

**THERMACON FORMALDEHYDE FREE ROOFING BLANKET**

**PRODUCT DATA SHEET FOR THERMACON FORMALDEHYDE FREE ROOFING BLANKET**

## COMPANY

Thermacon Insulation is committed to providing premium products and creating more comfortable, healthier and energy efficient indoor environments. Knauf Insulation revolutionized the building insulation industry by pioneering the development of Formaldehyde-free ™ insulation over a decade ago, they continue to build on their legacy of innovation with a new Formaldehyde-free ™ insulation solution that utilizes an innovative bio-based binder, made mostly with rapidly renewable plant based materials. It offers excellent thermal and acoustical performance as well as improved handling, easier cutting and less dust than traditional Glasswool products.

## DESCRIPTION

Thermacon Formaldehyde Free roofing blanket consists of Knauf Insulation's Formaldehyde-free™ bulk insulation adhered to a range of light, medium and heavy duty reinforced laminating foils. It is available in a range of thicknesses to meet BCA energy efficiency standards for residential and commercial projects It comes with a 150mm overlap of foil for easy installation and as specified can be sealed with double sided tape or foil tape.

## USE

Thermacon Formaldehyde Free roofing blanket is designed to provide excellent thermal and acoustical benefits, and helps reduce condensation under metal roofing . It can be used in a wide variety of timber frame or steel frame construction applications. The product performs best when the insulation recovers to it's nominal thickness and R-Value.

## INSTALLATION

Thermacon Formaldehyde Free roofing blanket cuts easily with an ordinary utility knife and installs easily on your residential or commercial roofing projects.

## PACKAGING

Thermacon Formaldehyde Free roofing blanket is packaged in poly bags.

## SPECIFICATION COMPLIANCE

| | |
|---|---|
| AS/NZS 4200.1 | Compliance of Facing |
| AS/NZS 4859.1 | For Thermal Performance |
| AS1530.1/1994 | Non-combustible |
| AS1530.3/1994 | 0;0;0;1 |
| ASTM C665 | Type I |
| ASTM E136 | Noncombustible |
| ASTM C1104 | Water Vapor Absorption = Less than 0.5% by weight |
| ASTM C665 | Noncorrosive |
| ASTM C1338 | Does not support microbial growth |

## DESIGN CONSIDERATIONS

Check your local Australian building codes for specific building and insulation requirements.

## LIMITATIONS OF USE

Check applicable codes.

## PERFORMANCE ADVANTAGES

**Formaldehyde-free:** Will not off-gas formaldehyde in the indoor environment. Less irritant than conventional Glasswool. Will not cause allergies.

**Thermal Efficiency:** provides effective resistance to heat transfer with Thermal Resistance Values up to R3.7.

**Sound Control:** reduces transmission of noise through exterior roofing and wall cladding.

**Condensation Control:** Helps reduce condensation occurrance under metal roofs and walls.

**Fire Resistant & Noncombustible:** see Specification Compliance.

**Durable Inorganic Glass:** will not rot, mildew or deteriorate and is noncorrosive to pipes, wiring and metal studs.

**Superior Performance:** bonded glass fibres are dimensionally stable and will not slump, settle or break down during normal applications.

**Bio-Soluble Formulation:** Knauf Insulation fibres Glass recently passed the European Union's fibre bio persistence test. The glass fibres have been tested at the Research and Consulting Company (RCC Switzerland) in compliance with EU protocol (published in EC/TM/26 rev. 6, 1997).

## INTERNATIONAL APPROVALS OR RECOGNITION

SCScertified INDOOR AIR QUALITY Indoor Advantage | Building Materials GOLD

CERTIFIED EcoLogo™

SCS certified AVERAGE 35% POST CONSUMER RECYCLED CONTENT

energy ENERGY STAR PARTNER

GREENGUARD

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## PRODUCT CHARACTERISTICS - THERMACON FORMALDEHYDE FREE ROOFING BLANKET

PRODUCT CHARACTERISTICS*

| Blanket R-values ($m^2k/W$) | Nominal Thickness | Dimensions W x L (m) | Area per Roll ($m^2$) |
|---|---|---|---|
| R-1.3 | 55 mm | 1.2 x 15 | 18 |
| R-1.8 | 75 mm | 1.2 x 15 | 18 |
| R-2.5 | 105mm | 1.2 x 11 | 13.2 |
| R-3.0 | 120 mm | 1.2 x 14.5 | 17.4 |
| R-3.6 | 145 mm | 1.2 x 10 | 12 |
| R-3.7 | 130mm | 1.2 x6.5 | 7.8 |

Cut to size available pending volumes and time frames. Light duty, medium duty, and heavy duty aluminium facings available.

Properly insulating a structure using Knauf Insulation building insulation helps preserve our environment by reducing energy consumption for heating and cooling, reducing the pollution resulting from fuel burning, reducing the emission of hazardous air pollutants during manufacturing and reducing waste through the utilization of recycled materials.

Visit our website at **www.thermacon.com.au**

Technical specifications as shown in this literature are intended to be used as general guidelines only. The physical and chemical properties of thermal and acoustical glass wool insulation for wood, engineered wood, and steel frames 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. Check with the sales office nearest you for current information.

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