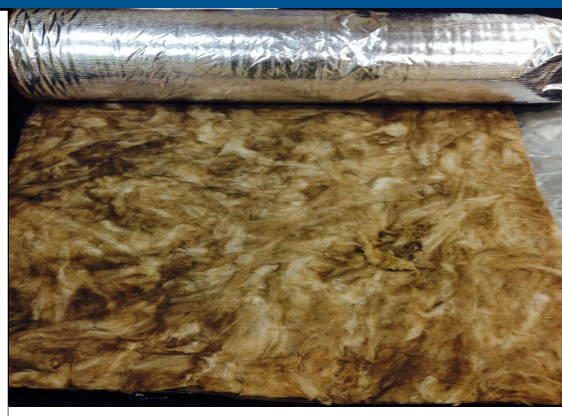
Formaldehyde-Free™ Glass Wool Insulation Enhanced with Bio-Based Binder

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. Johns Manville revolutionized the building insulation industry by pioneering the development of Formaldehyde-free TM insulation over a decade ago, they continue to build on their legacy of innovation with a new Formaldehyde-free TM Glasswool 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 their previous product.

DESCRIPTION

Thermacon Formaldehyde Free roofing blanket consists of Johns Manville 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 should be sealed with a foil or double sided tape when required.

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 AL. Foil
AS/NZS 4859.1	For Thermal Performance
AS1530.1/1994	Non-combustible as per CSIRO report F-11-054 from 22 September 2011
AS1530.3/1994	0;0;0;1 (as per CSIRO report F-11-054 from 22 September 2011)*
ASTM C665	Type I
ASTM E136	Noncombustible
ASTM E84	Flame Spread = 10 / Smoke Developed = 10
ASTM C1104	Water Vapor Absorption = Less than 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.

Thermal Efficiency: provides effective resistance to heat transfer with Thermal Resistance Values up to R2.5.

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 fibers are dimensionally stable and will not slump, settle or break down during normal applications.

Bio-Soluble Formulation: Johns Manville's 901 fibers Glass recently passed the European Union's fiber biopersistence test. The glass fibers have been tested at the Research and Consulting Company (RCC Switzerland) in compliance with EU protocol (published in EC/TM/26 rev. 6, 1997).

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PRODUCT CHARACTERISTICS - THERMACON FORMALDEHYDE FREE ROOFING BLANKET

PRODUCT CHARACTERISTICS*

Blanket R-values (m^2k/W)	Nominal Thickness	Nominal Density (Kg/m^3)	Dimensions W x L (m)	Area per Roll (m^2)
R-1.3	55 mm	11.5	1.2 x 20	24
R-1.5	75 mm	10.9	1.2 x 17.5	21
R-1.8	75 mm	12.1	1.2 x 15	18
R-2.5	100 mm	13.4	1.2 x 11	13.2

Cut to size available pending volumes and timeframes. Light duty, medium duty, and heavy duty aluminum facings available.

* R-Value (m^2 K/W at 23 Degrees Celcius)

* ASTM E 136-09 is a very similar test to that of AS 1530.1-1994, using very similar equipment, having the same temperature exposure and very similar performance requirements. The values presented in Report Number F-11-054 would not deem the product combustible according to the test criteria specified in Clause 3.4 of AS 1530.1-1994. Both ASTM E 136-09 and AS 1530.1-1994 are much more severe than AS/NZS 1530.3-1999. Any product that has even a small amount of combustible content will deem the product combustible according to AS 1530.1. A product that is not deemed combustible according to AS 1530.1 will not ignite when subjected to the test regime of AS/NZS 1530.3. It will also emit very little smoke, as a consequence of no significant pyrolysing constituents present in the product. Consequently, this Division would expect the product to achieve test indices of 0;0;0;1 or better when tested in accordance with AS/NZS 1530.3-1999. Based on the performance of your glass-fibre insulation, at 16.8 kg/m^3 density, when tested to ASTM E 136-09, it is the opinion of this Division that your "Johns Manville Formaldehyde-free Fiber Glass Insulation", at a density of 16.8 kg/m^3 or less, would not be deemed combustible if subjected to the test conditions of AS 1530.1-1994, and would achieve test indices of 0;0;0;1 or better when tested in accordance with AS/NZS 1530.3-1999.

Properly insulating a structure using Johns Manville 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. Look for the cross and globe emblem on Johns Manville building insulation, which indicates independent certification by Scientific Certification Systems, Inc of 25% or more recycled glass content.

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

UL GREENGUARD GOLD

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