



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

RESIDENTIAL
BATTS

PRODUCT DATA SHEET FOR AUSTRALIA AND NEW ZEALAND

COMPANY

Johns Manville is committed to creating more comfortable, healthier and energy-efficient indoor environments throughout the world. We revolutionized the building insulation industry by pioneering the development of Formaldehyde-free™ glass wool building insulation over a decade ago. We continue to build on our legacy of innovation with a new Formaldehyde-free™ glass wool insulation solution that utilizes an innovative bio-based binder, made mostly with rapidly renewable plant-based materials. It continues to offer excellent thermal and acoustical performance as well as improved handling, easier cutting and less dust than our previous product. At JM, we believe that in every detail, materials matter.

DESCRIPTION

JM Formaldehyde-free™ thermal and acoustical insulation is made of long, resilient glass fibers bonded with our bio-based binder. A wide range of thermal resistance R-values is available to provide thermal control for both vertical and horizontal applications. JM insulation is available unfaced in Australia and New Zealand.

USE

JM Formaldehyde-free™ thermal and acoustical insulation can be used in a wide variety of timber-frame, engineered-wood and steel-frame construction applications, including:

New Construction: residential homes and commercial buildings' interior and exterior walls, floors and ceilings for thermal and sound control, as well as basement wall insulation.

Retrofit: adding insulation to attics, crawl spaces and above suspended ceilings.

INSTALLATION

JM insulation cuts easily with an ordinary utility knife and installs easily by simply pressing in place between studs or joists in standard framing.

PACKAGING

JM insulation is compression-packaged for savings in storage and freight costs.

SPECIFICATION COMPLIANCE

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 or New Zealand building codes for specific building and insulation requirements.

Refer to JM guide specifications for further design considerations and required installation instructions.

LIMITATIONS OF USE

Check applicable building 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 R6.0.

Sound Control: reduces transmission of sound through exterior and interior walls and floor or ceiling assemblies.

Fire Resistant and 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 within the wall cavity, settle or break down during normal applications.

INTERNATIONAL APPROVALS OR RECOGNITION





PRODUCT CHARACTERISTICS - RESIDENTIAL BATTS

PROD CODE	DESCRIPTION	WIDTH (mm)	LENGTH (mm)	BAG PIECES	BAG m ²	EST/COV m ²	
S79085	R1.5 x 75mm	430	1160	42	20.95	23.53	
S79086	R1.5 x 75mm	580	1160	42	28.26	31.73	
S79087	R2.0 x 90mm	430	1160	27	13.47	15.12	
S79088	R2.0 x 90mm	580	1160	32	21.53	24.18	
S04121	R2.5 x 125mm	430	1160	20	9.98	11.20	
S79106	R2.5 x 125mm	580	1160	20	13.46	15.11	
S79077	R3.2 x 160mm	430	1220	18	9.44	10.60	
S79078	R3.2 x 160mm	580	1220	18	12.74	14.30	
S79079	R3.5 x 171mm	430	1160	16	7.98	8.96	
S79080	R3.5 x 171mm	580	1160	16	10.76	12.09	
S79083	R4.0 x 195mm	430	1160	18	8.98	10.08	
S79084	R4.0 x 195mm	580	1160	18	12.11	13.60	
S79110	R5.0 x 260mm	430	1160	11	5.49	6.16	
S79107	R5.0 x 260mm	580	1160	11	7.40	8.31	
S04119	R6.0 x 275mm	430	1160	9	4.49	5.04	
S04120	R6.0 x 275mm	580	1160	9	6.06	6.80	

* R-Value (m² 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 fire performance of your glass-fibre insulation, at 16.8 kg/m³ 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/m³ 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.

Visit our website at www.JM.com | Contact your Australian and New Zealand local distributor.

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. All Johns Manville products are sold subject to Johns Manville's Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy or for information on other Johns Manville thermal and acoustical insulation and systems, visit the website.
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