



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

SOUND CONTROL
&
HIGH DENSITY 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 sound control solution that utilizes an innovative bio-based binder, made mostly with rapidly renewable plant-based materials. It continues to offer high performance noise reduction 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™ sound control insulation is made of long, resilient glass fibers bonded with our bio-based binder. A wide range of noise-reduction products are available to provide sound control for both vertical and horizontal applications. JM sound control batts provide maximum sound control effectiveness if installed completely filling the wall cavity. 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 sound control, as well as basement wall insulation.

INSTALLATION

JM sound control 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.

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

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

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 - SOUND CONTROL BATTS

| PROD CODE | DESCRIPTION | WIDTH (mm) | LENGTH (mm) | BAG PIECES | BAG m ² | EST/COV m ² | |
|-----------|--------------------------|------------|-------------|------------|--------------------|------------------------|--|
| S04123 | 14kg/m ³ x 75 | 430 | 1160 | 24 | 11.97 | 13.44 | |
| S04124 | 14kg/m ³ x 75 | 580 | 1160 | 24 | 16.15 | 18.13 | |
| EXBT14 | 14kg/m ³ x 75 | 450 | 1200 | 24 | 12.96 | 14.55 | |
| EXBT15 | 14kg/m ³ x 75 | 600 | 1200 | 24 | 17.28 | 19.41 | |
| EXBT16 | 14kg/m ³ x 90 | 430 | 1160 | 20 | 9.98 | 11.20 | |
| EXBT17 | 14kg/m ³ x 90 | 580 | 1160 | 20 | 13.46 | 15.11 | |

PRODUCT CHARACTERISTICS - HIGH DENSITY BATTS

| PROD CODE | DESCRIPTION | WIDTH (mm) | LENGTH (mm) | BAG PIECES | BAG m ² | EST/COV m ² | |
|-----------|-------------|------------|-------------|------------|--------------------|------------------------|--|
| S79111 | R2.0 x 75HD | 430 | 1160 | 20 | 9.98 | 11.20 | |
| S79112 | R2.0 x 75HD | 580 | 1160 | 20 | 13.46 | 15.11 | |
| S79103 | R2.5 x 90HD | 430 | 1160 | 14 | 6.98 | 7.84 | |
| S79104 | R2.5 x 90HD | 580 | 1160 | 14 | 9.42 | 10.58 | |

* R-Value (m² K/W at 23 Degrees Celcius)

* We recommend you use high density gypsum plasterboard in conjunction with our high density batts.

* 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.