

UMBI®

Metal Building Insulation for Lamination

Formaldehyde-free™

Johns Manville has revolutionized the building insulation industry by introducing an entire line of Formaldehyde-free™ fiber glass building insulation. JM Formaldehyde-free™ insulation provides the same high-quality thermal and acoustical properties as conventional JM fiber glass – just without the formaldehyde-based binder. Why? Because it's a smart thing to do for our customers and the environment. Formaldehyde has traditionally been used as part of the binder in fiber glass insulation. Although there is no health risk with the traditional product, formaldehyde at higher levels may cause irritation and sensitivity. JM Formaldehyde-free™ building insulation utilizes an innovative new acrylic binder that eliminates binder-related formaldehyde emissions during manufacturing and, once installed, will not off-gas formaldehyde in the indoor environment. No formaldehyde means fewer things to worry about. Visit us at www.jm.com for more information.

Product Description

UMBI is a high-quality, highly resilient, Formaldehyde-free™ fiber glass blanket insulation designed for lamination to a wide choice of custom vapour-retarding facings. Laminated UMBI offers excellent insulating value along with a vapour retarder, noise reduction and an attractive appearance.

Performance Advantages

- Formaldehyde-free™ – will not off-gas formaldehyde in the indoor environment
- Thermal Efficiency – provides effective resistance to heat transfer with R-values up to RSI-3.6 (R-20.8)
- Sound Control – reduces transmission of sound through exterior and interior walls and floor/ceiling assemblies
- Fire-resistant and Noncombustible – (see Specification Compliance)
- Moisture Control – vapour-retarder facing resists water vapour transmission



- Light-reflective – depends upon facing; contact your Johns Manville laminator/distributor for information
- Non-corrosive – does not accelerate corrosion of pipes, wiring or metal studs
- Durable – unaffected by moisture, oil, grease and most acids. It will not rot, mildew or otherwise deteriorate.
- Resilient – bonded glass fibers will not pull apart during normal applications and resist settling, breakdown and sagging from vibration
- Flexible – forms readily around corners and curved surfaces

Available Forms

- Pre-cut blanket

Applications

- Metal frame construction – roof and wall applications in both new and existing metal buildings

Technical Information

R-value (Pre-Lamination)		Thickness (Pre-Lamination)		R-value (Post-Lamination)		Thickness (Post-Lamination)		Roll Width		Roll Length	
m ² •°C/W	hr•ft ² •°F/Btu	(mm)	(in)	m ² •°C/W	hr•ft ² •°F/Btu	(mm)	(in)	(m)	(in)	(m)	(ft)
1.5	8.6	66	2.6	1.2	7.0	48	1.9	1.22	48	33.5	110
2.1	12.0	91	3.6	1.8	10.0	70	2.75	1.22	48	24.4	80
2.4	13.8	104	4.1	2.1	12.0	84	3.3	1.22	48	20.1	66
2.8	15.9	119	4.7	2.5	14.0	99	3.9	1.22	48	17.1	56
3.3	18.8	142	5.6	2.9	16.5	117	4.6	1.22	48	14.6	48
3.9	22.2	165	6.5	3.5	20.0	142	5.6	1.22	48	12.2	40

Specification Compliance

CAN/ULC-S702, Type 1
 CAN/ULC-S102; Flame Spread 25 or less, Smoke Developed 50 or less

UMBI®

Metal Building Insulation for Lamination

Installation

UMBI is a very versatile insulation. It can be faced with a variety of vapour retarders, or used unfaced as a filler blanket. Its versatility allows the building systems industry to utilize UMBI for a broad range of roof and wall applications.

JM insulation cuts easily with an ordinary utility knife, and friction fits by simply pressing in place between studs or joists in standard pre-engineered metal framing.

Packaging

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

Recommended Storage and Transport

Store insulation indoors. Keep insulation clean and dry at all times. When transporting, cover completely with a waterproof tarpaulin as necessary.

Limitations of Use

Check applicable building codes.

Short Form Specification

All laminated insulation specified herein will consist of ____ faced UMBI insulation with an RSI-value (R) of ____ manufactured by Johns Manville Canada, Inc., Innisfail, Alberta. It shall be noncombustible in accordance with CAN 4-S114 and smoulder-resistant in accordance with CAN/ULC-S129, and contain 50% recycled glass.



Contains 50% Recycled Bottle Glass

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.



Johns Manville

Johns Manville Canada, Inc.
4704 58 Street
Innisfail, Alberta T4G 1A2
(800) 654-3103
www.jm.com

The physical and chemical properties of UMBI® Metal Building Insulation for Lamination 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. Numerical flame spread and smoke developed ratings are not intended to reflect hazards presented by these or any other materials under actual fire conditions. Check with the Regional Sales Office nearest you to assure current information. **All Johns Manville products are sold subject to Johns Manville's standard Terms and Conditions including Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville standard Terms and Conditions, Limited Warranty and Limitation of Remedy, and information on other Johns Manville thermal insulations and systems, call (800) 654-3103.**