



Johns Manville

Microlite® “L”

Formaldehyde-free™ Thermal and Acoustical Metal Building Insulation

Product Description

Microlite® “L” is a Formaldehyde-free™ thermal and acoustical fiber glass blanket insulation, specifically designed for lamination to a wide choice of custom vapor-retarding facings. The unique JM manufacturing process provides the Microlite “L” blanket with uniformity that gives the fiber glass blanket a smooth laminating surface.

Microlite “L” blanket insulation is bonded with JM’s acrylic Formaldehyde-free™ binder system. The naturally white insulation wool reduces the irritation and dust associated with traditional fiber glass products. Microlite “L” is a NAIMA 202-96® Certified Fiber Glass Metal Building Insulation produced in a special manufacturing process to give it the structural integrity it needs to recover thickness after lamination, shipping and installation.

Available Forms

- **Rolls** – can be cut to fit any size wall cavity and are easily installed in any part of a building – especially long unobstructed areas such as attics or crawl spaces.

Available Facings

Check with your laminator/distributor for available facings.

Applications

New Constructions and Retrofit

- Metal buildings - roof and wall applications.

Packaging

Microlite “L” 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.

Specification Compliance

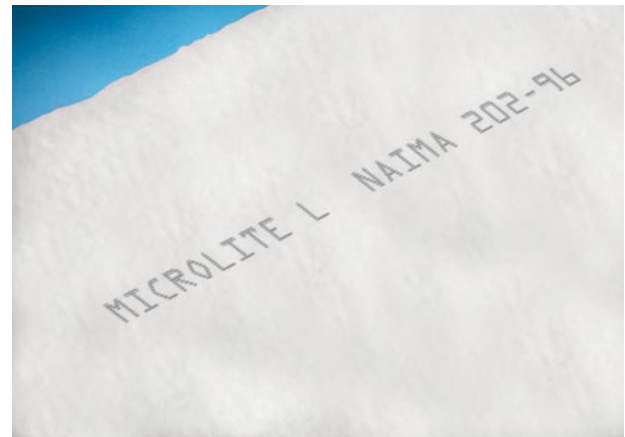
- ASTM C 991, Type I (Type II when faced)
- ASTM E 136 (wool only) and NAIMA Standard 202-96® (Rev. 2000)
- ASTM E 84 Flame Spread Classification of 25/50 or less flame spread/smoke developed

Short Form Specification

All laminated insulation specified herein will consist of _____ Faced Microlite “L” Formaldehyde-free™ Fiber Glass Insulation with an R-value of _____ manufactured by Johns Manville. Microlite “L” will be manufactured in accordance with ASTM Specification C 991, Type II with the exception of width tolerance; and ASTM E 136, wool only. This product will have a FHC rating of 25/50 in accordance with ASTM Specification E 84 and bear UL labels. Microlite “L” will bear the NAIMA 202-96® (Rev. 2000) Standard identification.

Limitations of Use

Check applicable building codes.



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Formaldehyde-free™ Thermal and Acoustical Metal Building Insulation

Building Code Compliance and Fire Hazard Classification*

	ICBO	SBCCI	BOCA	Flame Spread	Smoke Developed
Microlite “L”	All Types	All Types	All Types	25	50

*Per ASTM E 84.

Available Forms*

R-value (Post-Lamination) (hr•ft ² •°F)/Btu	m ² •K/W	Thickness (Post-Lamination)** McPherson		Roll size Width (in)	(mm)	Length	
		(in)	(mm)			(ft)	(m)
19	3.35	5.60	142	36, 48, 60, 72	914, 1219, 1524, 1829	50	15.2
13	2.29	3.85	98	36, 48, 60, 72	914, 1219, 1524, 1829	75	22.9
11	1.94	3.30	84	48, 60, 72	1219, 1524, 1829	75	22.9
10	1.76	2.95	75	36, 48, 60, 72	914, 1219, 1524, 1829	100	30.5

* Consult your local sales representative or product availability chart for other available sizes and R-values (RSI-values).

** Pre-lamination thickness and R-value available on product label.

Note On Moisture Control For Metal Buildings

As metal buildings become more airtight for greater thermal efficiency, the moisture vapor that is present is less likely to migrate from the interior to the outside. With an increasing temperature differential between the roof sheet and building interior, some moisture may penetrate the insulation’s vapor retarder and condense on the roof sheet and purlins. All metal buildings should have vapor retarders with sufficient perm ratings to minimize moisture transmission. However, no vapor retarder can completely eliminate the movement of water vapor. Other techniques, such as dehumidification and building designs that reduce moisture generation, are important to prevent moisture-control problems. The single most effective way to control moisture in metal buildings is ventilation. Adequate natural or mechanically powered ventilation of interior areas and any air space above the insulation is essential.

Sound Absorption (ASTM C 423, with Type “A” Mounting) Noise Reduction Coefficient (NRC)

Type	Unfaced	Faced Blanket		
		Vinyl	FSK	PSK
R-19	1.20	0.85	0.85	0.95
R-13	1.15	0.90	0.85	0.95
R-11	1.15	0.85	0.90	0.90
R-10	1.10	0.85	0.85	0.95

Details of absorption by octave frequency available by request.



Johns Manville

Insulation Systems

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MBI-200 6-07 (Replaces 12-02)

The physical and chemical properties of Microlite® “L” 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 this 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 Limited Warranty and Limitation of Remedy. For a copy of the Johns Manville Limited Warranty and Limitation of Remedy, and information on other Johns Manville thermal insulations and systems, call 1-800-654-3103.**

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