

## COMPANY

Johns Manville, a Berkshire Hathaway company, was founded in 1858. Our ownership by Berkshire Hathaway, one of the most admired companies in the world and one of the most financially secure, allows JM to invest for the future. This enables JM to continue delivering the broadest range of insulation products in the industry and offering innovative solutions that meet your needs.

## DESCRIPTION

Microlite® "L" blanket insulation is a certified Formaldehyde-free™ thermal and acoustical fiberglass 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" insulation is a NAIMA 202-96® (Rev. 2000) Certified Fiberglass 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. Microlite "L" is available in wide unfaced rolls suitable for lamination. Check with your laminator/distributor for available facings.

## USE

**New Construction and Retrofit:** pre-engineered metal buildings – roof and walls

## INSTALLATION

Microlite "L" is typically installed between or over the purlins and girts. Microlite "L" may be used in both single and double layer metal building systems and will recover to desired thickness when used with various vapor retarders. Actual recovered thickness will depend on the lamination process. Each Microlite "L" roll is ink-jet labeled with the R-value on the top surface of each roll.

## PACKAGING

Microlite "L" insulation is compression-packaged for savings in storage and freight costs.

## DESIGN CONSIDERATIONS

Microlite "L" is an unfaced fiber glass blanket designed for lamination of various facings for moisture control and provides a desirable finished surface. Microlite "L" complies with NAIMA 202-96® (Rev. 2000) standards to ensure post-lamination R-values. Microlite "L" is available in R-10,11,13,19, 25 and 30.

## LIMITATIONS OF USE

Check applicable building codes.

## 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.



## PERFORMANCE ADVANTAGES

**Formaldehyde-free:** will not off-gas formaldehyde in the indoor environment.

**Thermally Efficient:** provides effective resistance to heat transfer with R-values up to R-30 (RSI 5.29).

**Sound Control:** reduces transmission of sound through roofs and walls of metal buildings.

**Fire Resistant and Noncombustible:** See Standards and Codes.

**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.

## ENERGY AND ENVIRONMENT



*\*GREENGUARD certification is not intended for residential environments. Instead, the certification is intended only for buildings meeting ASHRAE 62.1-2007 commercial building ventilation rates. This certification is proof that the product meets the GREENGUARD Environmental Institute's indoor air quality standards and product emission standards for VOCs.*

## APPLICABLE STANDARDS & BUILDING CODE CLASSIFICATION

MICROLITE "L" INSULATION
International Building Code (IBC), All Types
Certified Fiber Glass Metal Building Insulation: NAIMA 202-96® (Rev. 2000)
Surface Burning Characteristics, Flame Spread 25 or less, Smoke Developed 50 or less: ASTM E84
Noncombustible: ASTM E136

## STANDARD SIZES\*\*

SPECIFICATION COMPLIANCE	R-VALUE (POST-LAMINATION)		THICKNESS (POST-LAMINATION)***		ROLL SIZE					
	hr•ft <sup>2</sup> •°F/Btu	(m <sup>2</sup> •K/W)	in	(mm)	WIDTH in (mm)				LENGTH ft (m)	
ASTM C991 Microlite "L" Type 1	30	(5.29)	8.7	(221)	36 (914)	48 (1219)	60 (1524)	72 (1829)	27	(8.2)
	25	(4.40)	7.5	(191)	36 (914)	48 (1219)	60 (1524)	72 (1829)	30	(9.1)
	19	(3.35)	5.60	(142)	36 (914)	48 (1219)	60 (1524)	72 (1829)	50	(15.2)
	13	(2.29)	3.85	(98)	36 (914)	48 (1219)	60 (1524)	72 (1829)	75	(22.9)
	11	(1.94)	3.30	(84)		48 (1219)	60 (1524)	72 (1829)	75	(22.9)
	10	(1.76)	3.30	(84)	36 (914)	48 (1219)	60 (1524)	72 (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.

## SOUND ABSORPTION

ASTM C423 Testing with Facing Toward Sound Source (ASTM E795 Type "A" Mounting)

### NOISE REDUCTION COEFFICIENT (NRC)

Rounded Average of the Sound Absorption Coefficients of Four Key Frequencies

TYPE	FACED BLANKET			
	UNFACED	VINYL	FSK	PSK
R-30	1.15	0.95	0.85	0.90
R-25	1.10	0.90	0.80	0.85
R-19	1.10	0.90	0.85	0.90
R-13	1.05	0.85	0.75	0.85
R-11	1.00	0.85	0.75	0.80
R-10	1.00	0.85	0.75	0.80

### SOUND ABSORPTION AVERAGE (SAA)

Average of the Sound Absorption Coefficients of the 12 Middle Frequencies

TYPE	FACED BLANKET			
	UNFACED	VINYL	FSK	PSK
R-30	1.12	0.93	0.86	0.90
R-25	1.11	0.89	0.82	0.85
R-19	1.11	0.92	0.83	0.90
R-13	1.04	0.86	0.77	0.82
R-11	1.00	0.83	0.78	0.80
R-10	0.99	0.84	0.75	0.81

Details of absorption by octave frequency available by request.