

Multi-layer Composite (MLC) Tubing

Submittal Information
Revision B: April 3, 2009

Project Information

Job Name:

Location:

Part No. Ordered:

Engineer:

Date Submitted:

Contractor:

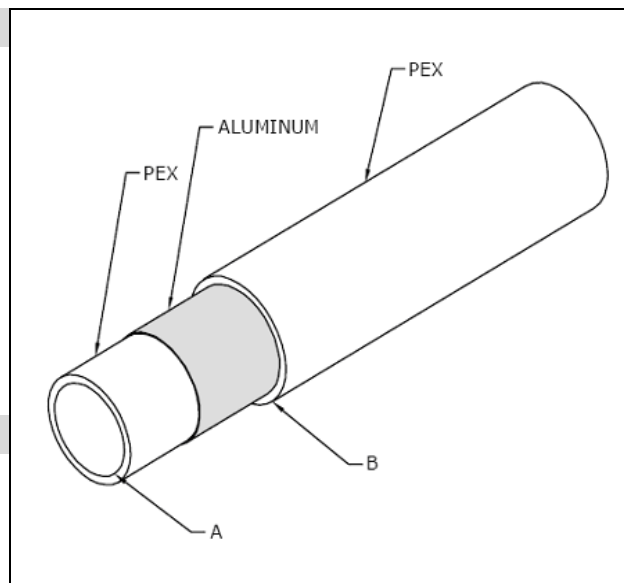
Submitted By:

Manufacturer's Representative:

Approved By:

Technical Data

Material:	PEX, Aluminum
Tubing Roughness:	2.76E-4"
Thermal Conductivity:	0.23 BTU/h/ft/°F
Thermal Expansion Coefficient:	1.38E-5/°F
Operating Temperature (Maximum long term):	203°F (95°C)
Operating Temperature (Maximum short term):	230°F (110°C)
Operating Pressure (Maximum long term):	145 psi
Linear Expansion Rate:	0.3"/18°F (8°C)/100'
Standard Grade Hydrostatic Ratings:	200°F (93°C) at 100 psi 140°F (60°C) at 160 psi 73°F (23°C) at 200 psi



Product Information and Application Use

Multi-layer Composite (MLC) tubing consists of interior aluminum tubing lined with inner- and outer-layers of PEX. MLC tubing offers 100% oxygen diffusion. The stay-in-place rigid feature of the tubing works great for hydronic baseboard, radiators, unit heaters, air handlers or manifold connections.

Note: MLC tubing is used in hydronic heating and cooling installations only.

✓ Description	Part Number	A	B	Minimum Bend Radius	Weight
½" MLC Tubing, 300-ft. coil	D1250500	0.490"	0.636"	3.20"	22.0 lbs.
½" MLC Tubing, 1,000-ft. coil	D1220500	0.490"	0.636"	3.20"	75.0 lbs.
⅝" MLC Tubing, 300-ft. coil	D1250625	0.627"	0.793"	4.00"	33.0 lbs.
⅝" MLC Tubing, 1,000-ft. coil	D1220625	0.627"	0.793"	4.00"	110.0 lbs.
¾" MLC Tubing, 100-ft. coil	D1140750	0.792"	0.990"	5.00"	17.0 lbs.
¾" MLC Tubing, 300-ft. coil	D1250750	0.792"	0.990"	5.00"	51.0 lbs.
¾" MLC Tubing, 500-ft. coil	D1240750	0.792"	0.990"	5.00"	85.0 lbs.
1" MLC Tubing, 100-ft. coil	D1141000	1.014"	1.266"	6.00"	29.0 lbs.
1" MLC Tubing, 300-ft. coil	D1251000	1.014"	1.266"	6.00"	87.0 lbs.

Installation

Refer to the Uponor Radiant Installation Handbook for installation details.

Standards

ASTM F1281

Codes

N/A

Listings

ICC ESR 1402; ICC; IPC

Related Applications

Radiant Heating and Cooling Systems
Snow and Ice Melting Systems
Permafrost Protection Systems
Turf Conditioning Systems

Contact Information

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