



## Pre-insulated 1/2" PEX-a pipe submittal

Job \_\_\_\_\_

Designer \_\_\_\_\_

Contact \_\_\_\_\_

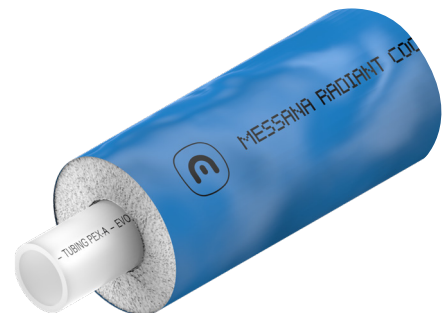
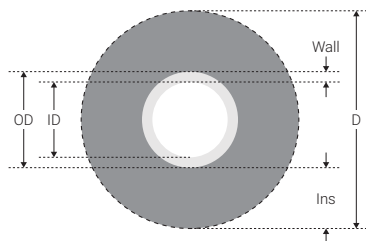
Pre-insulated 1/2" cross-linked polyethylene (PEX-a) pipe with a three layer EVOH oxygen barrier. The pipe comes insulated with a tubular expanded polyethylene foam (EPE) 3/8" (10 mm) thick covered with an extra layer of polyethylene film (PE) to protect the insulation during the installation. The pipe is available in 100 ft (31 mt) boxed coils or in 2.4 mt (approx 8 ft) straight lengths. The maximum temperature and pressure ratings of the tubing are in accordance to ASTM F876 and CSA B137.5. This pipe is specifically designed for radiant heating and cooling systems with insulation to prevent condensation.

### Technical specifications<sup>1</sup>

Model	Pre-insulated 1/2" PEX-a pipe (available in 100ft coils or 8ft straight lengths)	
Part numbers	Coil (100ft) PEXA1/2-100I	Straight length (approx 8ft) PEXA1/2-7.5I
Features	Approved for use with Messana Ray Magic radiant panels EPE insulation with extra protective polyethylene film High-pressure peroxide method for crosslinked polyethylene (PEX-a) Three layer EVHO oxygen diffusion barrier to prevent oxygen to enter the hydronic system Comply with the SDR-9 (Standard Dimension Ratio)	

### Size<sup>2</sup> and weight

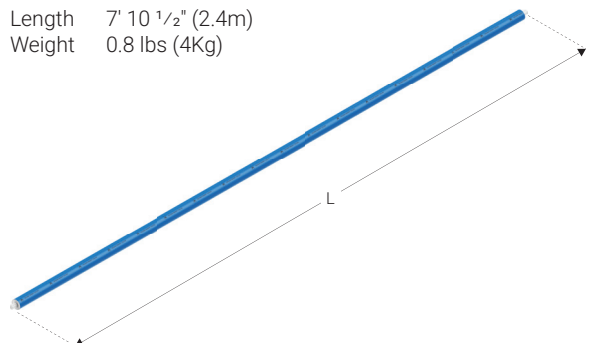
Pipe	
Nominal size	1/2"
OD	0.625" (15.88 mm ± 0.1)
ID	0.485" (12.45)
Wall	0.07" (1.78 mm min, 2.03 mm max)
D	1 3/8" (36 mm)
Ins	3/8" (10 mm)
Weight	0.1 lbs/ft

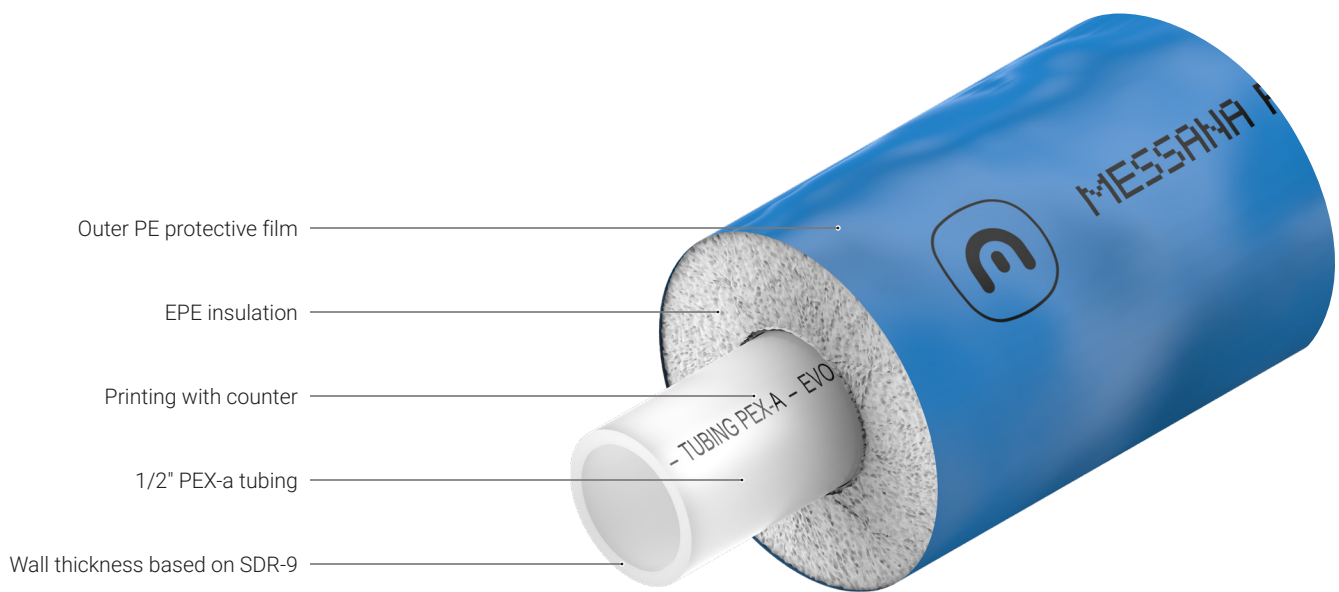


Coil	
Length	100 ft (30.5 m)
OD	29" (74 cm)
ID	16" (40 cm)
H	6" (16 cm)
Weight	10 lbs (4.5Kg)



Straight Length	
Length	7' 10 1/2" (2.4m)
Weight	0.8 lbs (4Kg)





**Color** Natural color tubing with blue insulation PE protective film



**Certifications** Meets or exceeds the requirements of ASTM F876/877, F1960 - CSA B137.5 - NSF 14, 61

**Expansion ratio** 1.1" of linear expansion for 100ft of tubing at a 10° F temperature rise

**Bending radius** Minimum recommended bending radius is 8 x OD: 5" (128 mm)

<b>Pressure drop</b>	GPM	0.5	2	3	4	5	6	6
	psi per 100 ft	0.51	1.70	5.30	11.0	18.4	27.4	39.1

**Insulation** EPE Polyethylene foam 3/8" (10 mm) in thickness in compliance with ASTM84. Additional outer PE protective layer

**Printing** PEX-a tubing (size 4 mm)  
 MESSANA RADIANT COOLING – TUBING PEX-A – EVOH OXYGEN BARRIER – ASTM F876/877, F1960 – CSA B137.5 – NSF 14, 61 – 100 FT [mm/dd/yy] [hour] [line] [counter] []  
 Insulation (size 6 mm)  
 MESSANA RADIANT COOLING

<b>Packaging</b>	<b>Coil</b>		<b>Straight Length</b>	
	Type	Carton Box	Type	Bag
	WxDxH	30 x 30 x 6 <sup>3</sup> / <sub>8</sub> inches (760x760x160 mm)	Height	7" (18 cm)
	Weight	12lbs (5.5 kg)	Weight	16 lbs
	Coils per box	1	Straights per bag	18
	Type	Pallet		
	WxDxH	31 <sup>1</sup> / <sub>2</sub> x 31 <sup>1</sup> / <sub>2</sub> x 100 inches (800 x 800 x 2540 mm)		
	Weight	196 lbs (89Kg)		
	Box per pallet	15		

**Warranty** This pipe is an OEM product manufactured for Messana Inc. under its specifications. The original manufacturer guarantees its pipes against defective materials and manufacturing defects for 10 years. For more information read the PEX-a pipe warranty terms available online at radiantcooling.com.

**Notes**

1. Size, weights and technical characteristics may vary without prior notice.
2. Measurements in inches are converted from mm and approximated to the nearest 1/8" fraction.