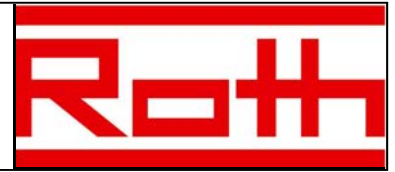


Submittal Data Sheet

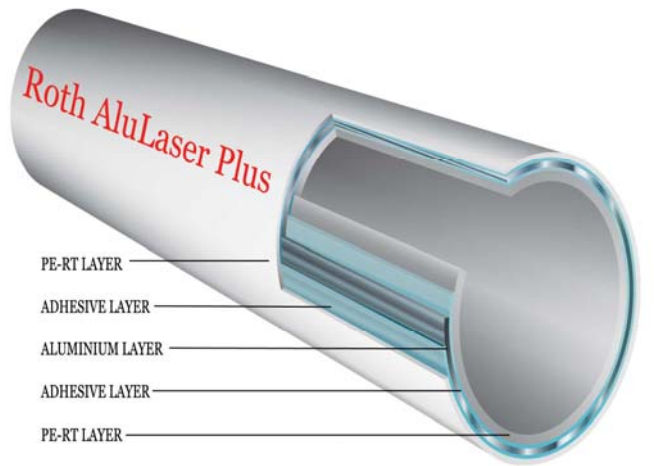


Roth Part #	Item Description	Manufacturer
Various	AluLaser Plus	Roth Industries

Job _____ Engineer _____
 Contractor _____ Representative _____

Application:
 Hydronic radiant heating and snow melting systems utilizing water or a water/glycol mix as the heat transfer media.
 May also be used as transfer lines for baseboard heating systems with a maximum operating temperature of 200°F.

Description:
 AluLaser Plus is a five layer PERT-AL-PERT oxygen barrier pipe.
 The five-layer pipe consists of a layer of ultrasonically welded aluminum, a natural oxygen barrier, encapsulated between two layers of PE-RT and two layers of adhesive.



Part #	Description	I.D. (O.D.) In.	Volume gal / ft	Weight Per Coil
<input type="checkbox"/> 2347130200	3/8" Coil x 200'	.35 (.47)	.005	9 lbs
<input type="checkbox"/> 2347130600	3/8" Coil x 600'	.35 (.47)	.005	25 lbs
<input type="checkbox"/> 2347150300	1/2" Coil x 300'	.48 (.63)	.009	18 lbs
<input type="checkbox"/> 2347151000	1/2" Coil x 1000'	.48 (.63)	.009	35 lbs
<input type="checkbox"/> 2347190300	5/8" Coil x 300'	.62 (.79)	.015	57 lbs
<input type="checkbox"/> 2347191000	5/8" Coil x 1000'	.62 (.79)	.015	120 lbs
<input type="checkbox"/> 2347220300	3/4" Coil x 300'	.79 (.99)	.025	36 lbs
<input type="checkbox"/> 2347221000	3/4" Coil x 1000'	.79 (.99)	.025	48 lbs
<input type="checkbox"/> 2347280100	1" Coil x 100'	.79 (.99)	.043	134 lbs
<input type="checkbox"/> 2347280020	1" Bag of 7 Sticks x 20'	1.02 (1.27)	.043	34 lbs

Manufactured and tested according to the following standards:

- ASTM F1282** - Standard Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe
- NSF/ANSI Standard 14** - Plastic Piping System Components and Related Materials - Certified for radiant floor applications. (NSF-rfh)
- PPI TR-3** - Standard Grade Hydrostatic Ratings
 160 psi @ 73.4°F, 100 psi @ 180°F
 80 psi @ 200°F

Approved fitting systems:
 AluLaser Plus pipes are joined using press fittings or manifold compression fittings tested and certified for radiant floor applications. (NSF-rfh)

Technical Specifications:
 Thermal Conductivity - 0.26 Btu/h/ft/°F
 Linear Expansion - .17"/10°F/100ft

Effective Date: November 2011

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