

Submittal Data Sheet



| Part # | Description |
|-----------|---------------|
| See below | AluLaser Plus |

Project Information

Job Name:

Location:

Date Submitted:

Engineer:

Submitted by:

Contractor:

Approved by:

Manufacturer's Representative:

Application

Hydronic radiant heating and snow melting systems utilizing water or a water/glycol mix as the heat transfer media.

Supply and return piping for baseboard heating systems with a maximum operating temperature of 200°F.

Product Information

Roth AluLaser Plus is a five layer PERT-AL-PERT oxygen barrier tubing.

The five-layer pipe consists of a layer of ultrasonically welded aluminum, a natural oxygen barrier, encapsulated between two layers of DOWLEX™ 2344 Polyethylene Copolymer Resin (PE-RT - Polyethylene of raised temperature) and two layers of adhesive.

Technical Information

Manufactured and tested according to the following standards:

ASTM F1282 - Standard Specification for Polyethylene/Aluminum/Polyethylene (PE-AL-PE) Composite Pressure Pipe of Raised Temperature

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:

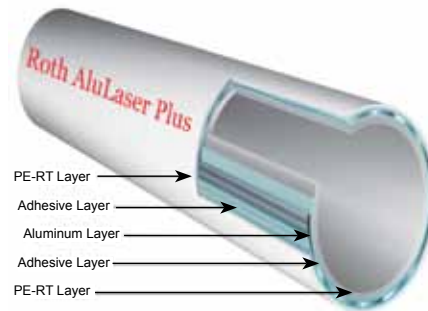
180°F @ 100psig; 73°F @ 200psig

82°C @ 6.89 bar; 23°C @ 13.79 bar

Thermal Conductivity - 0.26 Btu/h/ft/°F

Linear Expansion Rate - 0.17"/10°F/100ft

- 4.3mm/5.56°C/30.48m



Part Numbers

| X | Part # | Description | I.D. (O.D.) | Fluid Content per 100' (gal.) | Weight per coil |
|---|------------|---------------------|-------------|-------------------------------|-----------------|
| | 2347130200 | 3/8" Coil x 200' | .35 (.47) | 0.50 | 9 lbs |
| | 2347130600 | 3/8" Coil x 600' | .35 (.47) | 0.50 | 25 lbs |
| | 2347150300 | 1/2" Coil x 300' | .48 (.63) | 0.90 | 19 lbs |
| | 2347151000 | 1/2" Coil x 1000' | .48 (.63) | 0.90 | 70 lbs |
| | 2347190300 | 5/8" Coil x 300' | .62 (.79) | 1.50 | 31 lbs |
| | 2347191000 | 5/8" Coil x 1000' | .62 (.79) | 1.50 | 100 lbs |
| | 2347220300 | 3/4" Coil x 300' | .79 (.99) | 2.50 | 45 lbs |
| | 2347221000 | 3/4" Coil x 1000' | .79 (.99) | 2.50 | 77 lbs |
| | 2347280100 | 1" Coil x 100' | 1.02 (1.27) | 4.30 | 25 lbs |
| | 2347280020 | 1" x 20' (7 Sticks) | 1.02 (1.27) | 4.30 | 35 lbs |

Approved Fitting Systems:

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

Effective Date: November 2011

Contact Information

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