

# Submittal Data Sheet



Part #	Description
See below	X-PERT S5 Tubing

## 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 180°F.



## Product Information

Roth X-PERT S5 is a five layer polyethylene of raised temperature (PE-RT) oxygen barrier tubing.

The five-layer pipe consists of an oxygen barrier layer of ethylene vinyl alcohol polymer (EVOH) encapsulated between two layers of DOWLEX™ 2344 Polyethylene Copolymer Resin and two layers of adhesive.

## Technical Information

Manufactured and tested according to the following standards:

ASTM F2623 - Standard Specification for Polyethylene of Raised Temperature (PE-RT) SDR 9 Tubing

ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Material

ULC CAN-S102-2 - Standard Method of Test for Surface Burning Characteristics of Building Materials and Assemblies

DIN 4726 - Oxygen Diffusion

PPI TR-3 - Standard Grade Hydrostatic Ratings:

180°F @ 100psig; 73°F @ 200psig

82°C @ 6.89 bar; 23°C @ 13.79 bar

ICC-ES PMG-1129 - Compliance to IRC, IMC and IAPMO UMC codes. Compliance to ASTM F 2623-2008 and NSF 14-2010a standards

Thermal Conductivity - 0.237 Btu/h/ft/°F

Linear Expansion Rate - 1.1"/10°F/100ft

- 27.94mm/5.56°C/30.48m

A White Paper providing a technical assessment of the suitability of Roth's 5-layer X-PERT S5 brand PE-RT pipe for use in the North American hydronic heating market and comparison of standards and performance characteristics with PEX tubing is available on the website.

## Part Numbers

X	Part #	Description	I.D. (O.D.)	Fluid Content per 100' (gal.)	Weight per coil
	2352129000	3/8" Coil x 300'	.360 (.500)	0.53	12.6 lbs
	2352129300	3/8" Coil x 1000'	.360 (.500)	0.53	42.0 lbs
	2352159000	1/2" Coil x 300'	.485 (.625)	0.96	16.2 lbs
	2352159300	1/2" Coil x 1000'	.485 (.625)	0.96	54.0 lbs
	2352159301	1/2" Coil x 2000'	.485 (.625)	0.96	108.0 lbs
	2352199100	5/8" Coil x 500'	.584 (.750)	1.39	38.0 lbs
	2352199300	5/8" Coil x 1500'	.584 (.750)	1.39	114.0 lbs
	2352229000	3/4" Coil x 100'	.681 (.875)	1.89	10.3 lbs
	2352229301	3/4" Coil x 300'	.681 (.875)	1.89	30.9 lbs
	2352229100	3/4" Coil x 600'	.681 (.875)	1.89	51.5 lbs
	2352229999	3/4" Coil x 800'***	.681 (.875)	1.89	82.4 lbs
	2352229300	3/4" Coil x 1000'	.681 (.875)	1.89	103.0 lbs
	2352289000	1" Coil x 100'	.875 (1.125)	3.12	16.7 lbs
	2352299100	1" Coil x 500'	.875 (1.125)	3.12	83.5 lbs

\*\* - Custom Length Coil

Approved Fitting Systems:

May be joined using insert fittings and clamps certified to ASTM F-877, F-1807, F-2159 or F-2098.

Roth tested and proved compatible with cold expansion fittings with PEX reinforcing rings and/or metal compression rings.

Effective Date: April 2012

## Contact Information

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