

## For Residential or Commercial Radiant Heating, Cooling, and Snow Melt Applications

Job Name \_\_\_\_\_

Contractor \_\_\_\_\_

Job Location \_\_\_\_\_

Approval \_\_\_\_\_

Engineer \_\_\_\_\_

Contractor's P.O. No. \_\_\_\_\_

Approval \_\_\_\_\_

Representative \_\_\_\_\_

# RadiantPERT™ Tubing

Sizes: 3/8" (9.5 mm)  
1/2" (12.7 mm)  
5/8" (15.9 mm)  
3/4" (19.1 mm)  
1" (25.4 mm)

Watts Radiant's RadiantPERT is a 5-layer PE-RT (polyethylene raised temperature) tubing used for radiant heating, cooling, snow melting, and distribution piping. RadiantPERT is manufactured with an integral ethylene vinyl alcohol (EVOH) DIN Standard O2 barrier that limits oxygen diffusion through the walls of the tubing to less than 0.10g/m<sup>3</sup>/day at 104°F (40°C) water temperature. 5 layer RadiantPERT offers a protective PE-RT layer to the EVOH.

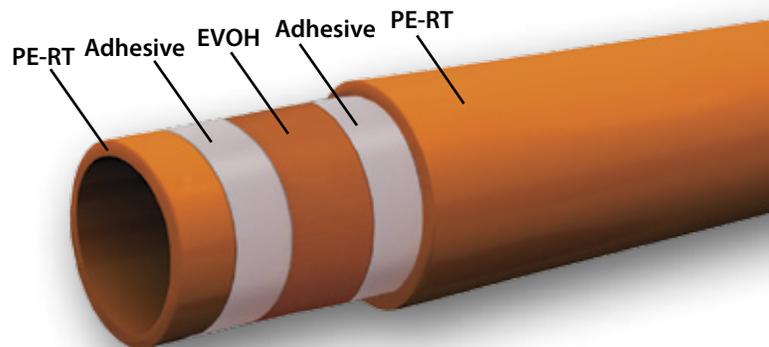
## Specifications

Operating Temperature & Pressure	
Max. Temperature	Max. Pressure
180°F (82.2°C)	80 psi (5.5 bar)
73.4°F (22.7°C)	160 psi (11.0 bar)

System shall be installed using Watts Radiant RadiantPERT tubing. All connections shall be made using Watts Radiant's CinchClamp, CrimpRing, or Compression fittings of corresponding size and in accordance with all corresponding installation guidelines.

## Installation

RadiantPERT must be installed in accordance with all Watts Radiant installation procedures, including information provided in Watts Radiant's RadiantPEX®, RadiantPERT & RadiantPEX-AL™ Installation Manual.



## Codes Listings and Standards

- RadiantPERT is certified to ASTM F2623 for Polyethylene of Raised Temperature (PE-RT) SDR 9 Tubing by NSF and CSA
- RadiantPERT is PPI TR-4 listed at 73°F and 180°F
- RadiantPERT is tested and listed to Standard NSF-14(rfh)
- RadiantPERT is certified to the Uniform Mechanical Code by NSF



## RadiantPERT Tubing Specifications

Qty	Model #	Description in. (mm)	Nominal I.D. in. (mm)	Nominal O.D. in. (mm)	Stick and Coil Lengths ft. (m)	Min. Bend Radius in. (mm)	Fluid Capacity (Gal/100')
	PTO32061	3/8 (9.5) RadiantPERT	0.35 (8.89)	.5 (12.7)	600 (182.9)	2.5 (63.5)	0.53 (2.4 l)
	PTO32081	1/2 (12.7) RadiantPERT	0.475 (12.06)	.625 (15.87)	300 (91.4) / 1000 (304.8)	3.125 (79.37)	0.96 (4.4 l)
	PTO32101	5/8 (15.9) RadiantPERT	0.574 (14.57)	.750 (19.04)	500 (152.4) / 1200 (362.8)	3.75 (95.25)	1.39 (6.3 l)
	PTO32121	3/4 (19.1) RadiantPERT	0.671 (17.04)	.875 (22.22)	20 (6.09) / 300 (91.4) / 500 (152.4) / 1200 (362.8)	4.375 (111.12)	1.89 (8.6 l)
	PTO32161	1 (25.4) RadiantPERT	0.863 (21.92)	1.125 (28.57)	20 (6.09) / 300 (91.4)	5.625 (142.87)	3.12 (14.2 l)

## ⚠ CAUTION

This Engineering Sheet is not intended to provide full installation instructions and safety information. In order to avoid property damage or injury, please refer to the complete installation manual and product safety information provided with the product.

**WattsRadiant™**  
Floor Heating & Snow Melting

A Watts Water Technologies Company

Watts Radiant product specifications in U.S. customary units and metric are approximate and are provided for reference only. For precise measurements, please contact Watts Radiant Technical Service. Watts Radiant reserves the right to change or modify product design, construction, specifications, or materials without prior notice and without incurring any obligation to make such changes and modifications on Watts Radiant products previously or subsequently sold.



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