

## Pre-insulated Uponor AquaPEX® (ASHRAE 90.1-2013)

Submittal Information  
Revision C: Sept. 17, 2018

### Project information

Job name:	
Location:	Part no. ordered:
Engineer:	Date submitted:
Contractor:	Submitted by:
Manufacturer's representative:	Approved by:

### Technical data

Service pipe:	Crosslinked polyethylene PEX-a Engel method pipe encased in polyethylene-foam insulation; PEX 5106
Insulation:	Polyethylene foam
Thermal conductivity:	0.25 Btu.in/sq.ft.h.degF
Operating condition limits: (hydrostatic ratings)	200°F (93°C) at 80 psi (551 kPa) 180°F (82°C) at 100 psi (689 kPa) 73.4°F (23°C) at 160 psi (1,103 kPa) ½"-2" Uponor AquaPEX® White only: 120°F (49°C) at 130 psi (896 kPa)
Linear expansion rate:	1.10"/10°F/100' (27.94mm/5.56°C/30.48m)



### Product information and application use

Pre-insulated Uponor AquaPEX® (ASHRAE 90.1-2013) features flexible PEX pipe encased in polyethylene-foam insulation to insulate potable-water lines and meet ASHRAE 90.1-2013 energy-code requirements. The product is approved for use in hot and cold domestic potable water systems, residential fire safety and hydronic heating and cooling systems containing no ferrous corrodible components or where ferrous components are isolated from the piping. The product is also approved for direct burial in soil provided it is not exposed to groundwater. Uponor recommends adding ½" of insulation to accommodate for foam compression in direct-burial applications.

✓ Description	Part no.	O.D.	Heat loss (at 70° Delta T)	R-Value	Coil size (O.D. x Width)	Weight (lb./coil)
½" Pre-insulated Uponor AquaPEX with 1" insulation, 100-ft. coil	F6150500	2.59"	6.3 BTU/hr/ft	7.5	45" x 9"	11.0 lbs.
¾" Pre-insulated Uponor AquaPEX with 1" insulation, 100-ft.	F6150750	3.08"	7.1 BTU/hr/ft	7.9	43" x 13.5"	22.0 lbs.
1" Pre-insulated AquaPEX with 1" insulation, 100-ft. coil	F6151000	3.09"	8.8 BTU/hr/ft	6.4	45" x 13.5"	30.2 lbs.
1¼" Pre-insulated AquaPEX with 1" insulation, 100-ft. coil	F6151250	3.34"	10.0 BTU/hr/ft	6.1	52" x 9"	39.2 lbs.
1½" Pre-insulated AquaPEX with 1½" insulation, 75-ft. coil	F6161500	4.93"	7.0 BTU/hr/ft	11.2	54" x 13.5"	49.5 lbs.
2" Pre-insulated AquaPEX with 1½" insulation, 75-ft. coil	F6162000	5.27"	8.6 BTU/hr/ft	9.9	58" x 13.5"	74.3 lbs.

### Installation

Approved fitting system is ProPEX®. <sup>1</sup> Refer to the ProPEX Connections Instructional Guide, Uponor Piping Pocket Guide, Plumbing Design Assistance Manual (PDAM), Complete Design Assistance Manual (CDAM), Hydronic Piping Design Assistance Manual (HPDAM) or AquaSAFE™ Residential Fire Sprinkler Installation Guide for more information.

### Listings<sup>2</sup>

cNSFus-fs<sup>3</sup>; cNSFus-pw; cQAlus<sup>5</sup>; UL; CSA; PPI TR-4; ICC-ES; IAPMO; BMEC; CCMC

### Codes

ICC; IPC; IMC; IRC; UPC; UMC; NSPC; HUD; UFGS; NPC of Canada; NBC of Canada

### Standards

ANSI/NSF 14; ANSI/NSF 61; ASTM F876; ASTM F877; ASTM F1960; ASTM F2023; ASTM E119/UL 263; CAN/ULC S101; ASTM E814/ULC S115; AWWA C904<sup>4</sup>; CSA B137.5; CSA B214; UL 1821<sup>3</sup>; ULC/ORD-C199P<sup>3</sup>

### Related applications

PEX-a plumbing systems  
AquaSAFE fire safety systems  
Radiant heating and cooling systems  
Hydronic piping systems

### Contact information

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<sup>1</sup>ProPEX® is a registered trademark of Uponor, Inc. ProPEX™ is a trademark of Uponor Ltd.; <sup>2</sup>Visit listing agency's website for complete information; <sup>3</sup>For ¾", 1" and 1¼" pipe only; <sup>4</sup>For ¾" pipe and larger; <sup>5</sup>See listings/standards for un-insulated Uponor AquaPEX.