

PLUMBING PRODUCTS LISTING PROGRAM

Class: Fire Protection – Pipe and Fittings

Customer: UPONOR, INC.
Location: Apple Valley, Minnesota

Listing No. P321-4
Effective Date: May 21, 2015
Last Revised: March 9, 2016
Expires: No Expiration
Website: www.uponor-usa.com

Product: UPONOR AquaSAFE™ Pipe and Fitting System

Standard(s): UL 1821 “Thermoplastic Sprinkler Pipe and Fittings for Fire Protection Service”.
 ULC/ORD C199P “Combustible Piping for Sprinkler Systems”

Component(s):	Component:	Nominal Pipe Size:
	UPONOR AquaPEX™ PEX piping (white)	½", ¾", 1", 1 ¼", 1 ½" & 2" 13, 19, 25, 32, 38, 51 mm
	ProPEX™ EP Coupling	½", ¾", 1", 1 ¼", 1 ½" & 2" 13, 19, 25, 32, 38, 51 mm
	ProPEX™ Brass Coupling	½", ¾", 1", 1 ¼", 1 ½" & 2" 13, 19, 25, 32, 38, 51 mm
	ProPEX™ EP Elbow	½", ¾", 1", 1 ¼", 1 ½" & 2" 13, 19, 25, 32, 38, 51 mm
	ProPEX™ Brass Elbow	½", ¾", 1" 13, 19, 25 mm
	ProPEX™ EP Tee	½", ¾", 1", 1 ¼", 1 ½" & 2" 13, 19, 25, 32, 38, 51 mm
	ProPEX™ Brass Tee	½", ¾", 1", 1 ¼", 1 ½" & 2" 13, 19, 25, 32, 38, 51 mm
	ProPEX™ Brass Sweat Adapter	½", ¾", 1", 1 ¼", 1 ½" & 2" 13, 19, 25, 32, 38, 51 mm
	ProPEX™ Brass Male Thread Adapter	½", ¾", 1", 1 ¼", 1 ½" & 2" 13, 19, 25, 32, 38, 51 mm
	ProPEX™ Brass Female Thread Adapter	½", ¾", 1", 1 ¼", 1 ½" & 2" 13, 19, 25, 32, 38, 51 mm
	ProPEX™ Fire Sprinkler Adapter	¾", 1" 19, 25 mm
	ProPEX™ EP Reducing Coupling	1" x ¾", 1-1/4" x ¾", 1-1/4" x 1" 25 x 19, 32 x 19, 32 x 25 mm
	ProPEX™ EP Reducing Tee	¾" x ¾" x 1", 1" x ¾" x ¾", 1" x ¾" x 1" 19 x 19 x 25, 25 x 19 x 19, 25 x 19 x 25 mm
		1" x 1" x ¾", 1-1/4" x 1" x ¾", 1-1/4" x 1" x 1" 25 x 25 x 19, 32 x 25 x 19, 32 x 25 x 25 mm
		1-1/4" x 1-1/4" x ¾", 1-1/4" x 1-1/4" x 1" 32 x 32 x 19, 32 x 32 x 25 mm
	ProPEX™ EP Flow-through Multiport Tee (2 outlets)	¾" x ¾" 19 x 19 mm
	ProPEX™ EP Flow-through Multiport Tee (3 outlets)	¾" x ¾", 1" x ¾" 19 x 19, 25 x 19 mm
	ProPEX™ EP Flow-through Multiport Tee (4 outlets)	¾" x ¾", 1" x 1", 1" x ¾" 19 x 19, 25 x 25, 25 x 19 mm
	ProPEX™ EP Flow-through Multiport Tee (6 outlets)	¾" x ¾", 1" x 1", 1" x ¾" 19 x 19, 25 x 25, 25 x 19 mm

- Sprinklers:** All automatic sprinklers must be listed by an approved agency to ANSI/UL 1626, "Residential Sprinklers for Fire Protection Service" for use in the noted assemblies of this listing.
- Maximum System Pressure:** 130 psi
- Marking(s):** All PEX pipe, connectors, and other accessories (if sufficient space is available) shall be permanently marked with the following content where visible after installation:
- Manufacturers name or trademark
 - Model Name
 - Standard: UL 1821; ULC/ORD 199P
 - Nominal Size
 - QAI Logo with 'c' and 'us' indicator
 - Manufacturing Traceability Label - Production date code
- Limitations:** Installation in accordance with ANSI/NFPA 13D "Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes" is required.

APPROVED INSTALLATIONS

Assembly 1: Exposed Wood Joist Ceiling Assemblies

UPONOR AquaSAFE™ can be installed and left exposed in wood joist ceiling assemblies where the following conditions are met:

1. Joists are of dimensional lumber, engineered wood, wood I-joist or open web wood joists (wood floor trusses).
2. Joist are of depths from 6 – 16 inches (152 – 204 mm).
3. Joist are of spacing from 12 – 24 inches (305 – 610 mm) on center.
4. Joists can be exposed after installation.
5. Metal pipe hangers spaced at maximum 24 inches (610 mm) on center are used.
6. Listed residential automatic sprinklers of maximum activation temperature rating of 155°F (68°C).

Assembly 2: Exposed Finished Ceiling Assemblies

UPONOR AquaSAFE™ can be installed exposed across finished ceiling assemblies where the following conditions are met:

1. Ceiling is finished with one of the following approved membranes:
 - i. Minimum 3/8 inch (9.5 mm) thickness code complying gypsum wallboard or;
 - ii. Suspended membrane ceiling with lay-in panels or tiles having a minimum weight of 0.35 lb/ft² (1.76 kg/m²) when installed with metallic support grids, or;
 - iii. ½ inch (13 mm) code complying plywood or solid sheathing.
2. Metal pipe hangers spaced at maximum 24 inches (610 mm) on center are used.
3. Listed residential automatic sprinklers of maximum activation temperature rating of 155°F (68°C)

PEX pipe and fittings are not intended for use in areas where the maximum ambient temperature exceeds 120°F. If the ambient temperature is expected to exceed this limitation, refer to the Installation and Design Manual for additional information on methods to reduce the pipe exposure temperatures.

This system is not intended for outdoor application.

Installation and Design Manual: Special installation and design criteria relative to pipe-hanger spacing, piping and sprinkler restraint, sprinkler temperature rating, piping location, testing location, testing procedures and friction loss characteristics are specified in the UPONOR AquaSAFE™ System Installation Guide (dated May 2015).

Note: *These products are subjected to limitations as specified above and must be installed in accordance with the manufacturers' instructions. Authorities having jurisdiction should be consulted regarding allowable applications. See manufacturer's listings for other standards listed under QAI certification programs.*

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