

PEX tubing connection size

2.72" 3.09" Product Information and Application Use

ensure the proper tools, sealant and instructions are

Refer to the AQUASAFE Installation Handbook for

appropriate sprinkler head installed.

additional information.

used in conjunction with the respective Reliable sprinkler head to provide a multi-purpose fire sprinkler system. AQUASAFE system is installed with the cold side of the Wirsbo AQUAPEX® plumbing system for residential applications. The four-port design eliminates any stagnant loops within the domestic potable water system and provides guaranteed flow to the sprinkler head upon activation. The connections on the four-port fitting are made with the durable Wirsbo ProPEX fitting. The four-port fitting is designed for use only with 1/2" Wirsbo AQUAPEX

# **Accessories**

- Q71600 and Q71800 series sprinkler heads with 0.04 gpm/ft<sup>2</sup> • Q74000 and Q74900 series sprinkler heads with 0.05 gpm/ft<sup>2</sup>
- F1120500: 1/2" AQUAPEX tubing
- Q4690502: 1/2" ProPEX rings Codes and Standards
- UL Standard 1821 ANSI/NSF Standard 14
- ANSI/NSF Standard 61 NFPA 13D
- International Plumbing Code (IPC) Uniform Plumbing Code (UPC)

**Recessed Pendent Sprinklers** A Recessed Pendent Sprinkler is visible in the ceiling and does not use a cover plate. Like the Flat Plate Concealed Sprinkler, these sprinklers activate when they sense temperatures greater than 155°F/68.3°C. Proper

flow rates are verified by Uponor's computer design program.



Figure 3-3: Uponor Recessed Pendent Sprinkler Assembly

Note: Recessed Pendent Sprinkler model F1 RES/49 (SIN R3516), 155°F/68.3°C, 4.9k factor, for minimum densities of 0.05 gpm per square foot, is compliant with all editions of NFPA 13D Standard. Do not store sprinklers in areas that may experience excessive heat (over 100°F/37.7°C).

### **Recessed Horizontal Sidewall Sprinklers** The Recessed Horizontal Sidewall Sprinkler is mounted through the sidewall

of the room, typically between four and six inches below the ceiling. The sprinkler is designed to activate when it senses temperatures greater than 155°F/68.3°C. Proper flow rates are verified by Uponor's computer design program.

**Note:** Recessed Horizontal Sidewall Sprinkler model F1/RES 40/HSW (SIN R3538), 155°F/68.3°C, 4.0k factor, is compliant with all editions of NFPA 13D Standard. Do not store sprinklers in areas that may experience excessive heat (over 100°F/37.7°C).

<u>Description</u> " Copper Manifold, 4 outlets 1" Copper Manifold, 6 outlets 1" Copper Manifold, 8 outlets 1" Copper Manifold, 10 outlet The four-port fitting comes from the manufacturer with the 1" Copper Manifold, 12 outlet • If sprinkler head replacement is required in the field,

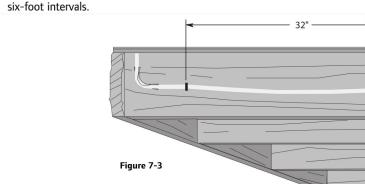
UL 1821

Code Approvals/Standards ANSI/NSF 14 and 61 certified ASTM F 877 ASTM F 1960 **CAN/CSA B137.5** ICBO ER 5142 UPC

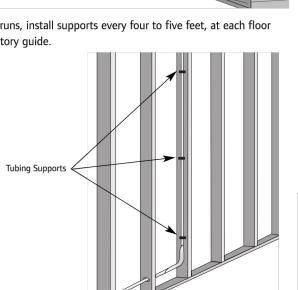
SBCCI (PST and ESI Report No. 9661)

#### Pressure Testing Uponor AQUASAFE **Tubing Support Spacing** Network System Anchor Wirsbo AQUAPEX® tubing securely enough to support the tubing,

Pressure-test Uponor AQUASAFE Network System in accordance with NFPA yet relaxed enough to allow the tubing to expand and contract. 13D Standard, which specifies testing at normal operating water pressure. If 1. Along horizontal runs, install supports every 32 inches. If horizontal runs are continuously supported, place tubing supports at 30 minutes after making all ProPEX connections before pressure testing.



2. Along vertical runs, install supports every four to five feet, at each floor and at a mid-story guide.



#### glass bulb to burst, activating discharge. Figure 8-1 **Note:** Any 450-watt electric heat gun will work **Caution:** To protect the sprinkler from damage due to finishing work, cover the head with the plastic cover provided with the sprinkler. Paint and sheetrock can damage a sprinkler if it is not

If leaky connections are found during pressure tests

in cold weather, use a heat gun to gently warm up

When using the heat gun, protect sprinklers and

cover plates from excessive heat. Temperatures

for 15 seconds. Do not overheat the tubing.

connections around the circumference of the tubing

greater than 155°F/68.3°C will cause the sprinkler's

After all finishing work is complete and sheetrock is in place and painted, attach the Flat Cover Plate of the Concealed Sprinkler or the Recessed Escutcheon Plate of the Recessed Sprinkler. The Flat Cover Plate and Recessed Escutcheon Plate easily slide over the sprinkler using a

manifold has a 1" copper sweat fitting adapter supply connection. All outlets are configured with 1/2" brass

### ProPEX connections. Ordering Information Dimensional Information

<u>ing miormation</u>			Dimensional information				
	Part Number	A	В	С	D	E	Weight
s (1/2")	Q2801050	8.95"	2.40"	1.50"	1/2"	N/A	0.80 lbs
s (1/2")	Q2811050	11.95"	2.40"	1.50"	1/2"	N/A	1.10 lbs
s (1/2")	Q2821050	14.95"	2.40"	1.50"	1/2"	N/A	1.40 lbs
ets (1/2")	Q2831050	17.95"	2.40"	1.50"	1/2"	N/A	1.70 lbs
ets (1/2")	Q2841050	20.95"	2.40"	1.50"	1/2"	N/A	1.90 lbs

# Any product designed to mount one (1) inch copper pipe may be used as a mounting

 Any bend within six (6) inches of the ProPEX connection to the manifold requires the use of a tube talon or bend support. Refer to the Wirsbo AQUAPEX Installation Handbook for additional information.

# Related Applications

AQUAPEX — Hot and Cold Potable Water Caution: Do not paint over the sprinklers and cover plates. Paint may interfere with the heat sensitivity of the sprinkler, and disturbances may damage the sprinkler.

local plumbing code requirements are more stringent, follow local code. Wait

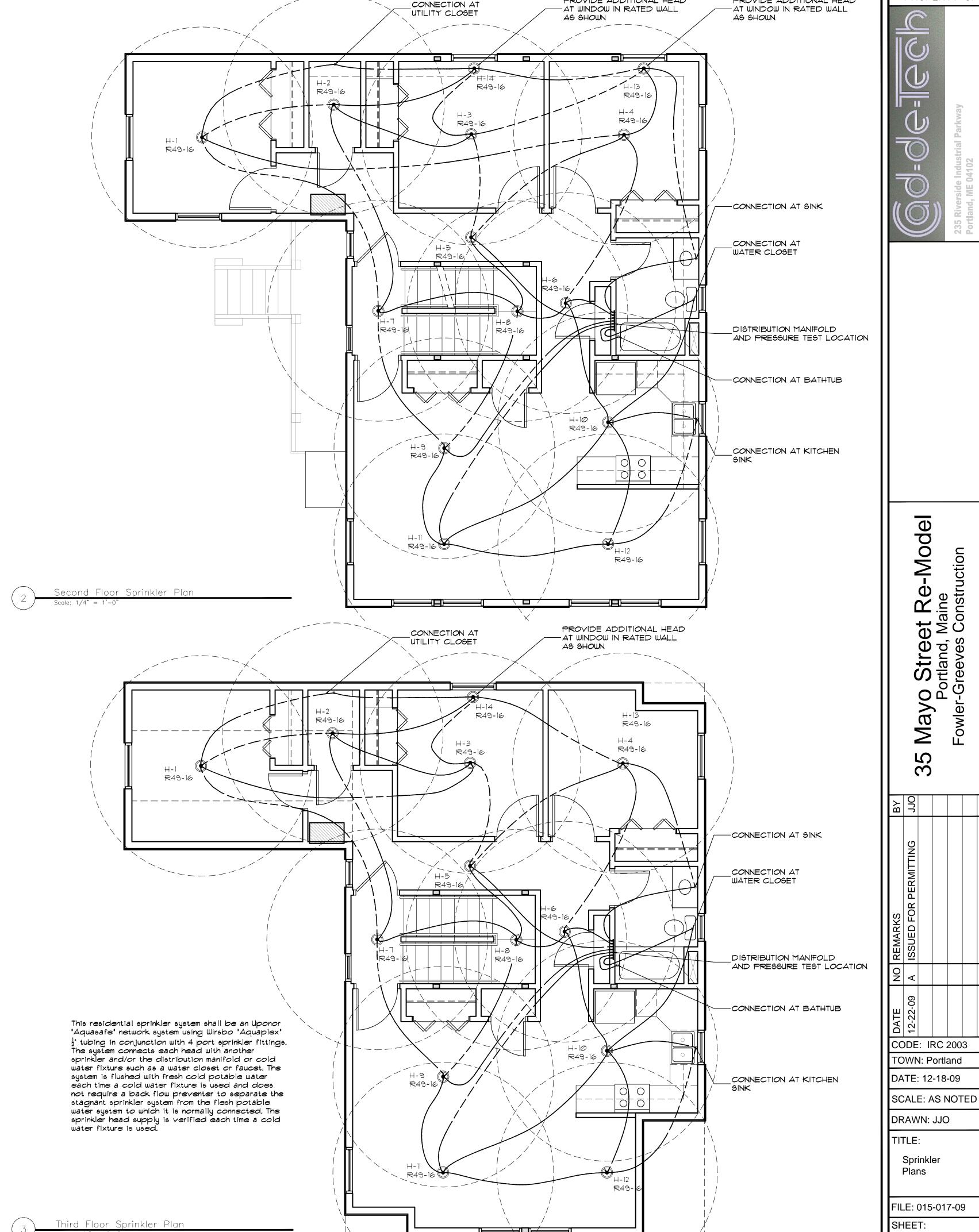
Note: The Uponor AQUASAFE warranty packet contains complete system and warranty information, along with a red label describing the system pressure and flow requirements. Leave the warranty in the home and attach the label to the primary shut-off valve.

# Bypass Instructions

Flow-restricting devices can have a negative effect on the operation of this system. If any potential flow-restricting devices (such as water softeners, water conditioners, etc.) are part of the plumbing system, notify the system designer prior to initial system design. System design can easily be modified to accommodate any flow-restricting devices. Consult the manufacturer for

# **Backflow Prevention Requirements**

Because this is a non-stagnant plumbing system, backflow prevention devices are not required. Check your local code for any additional backflow requirements.



PROVIDE ADDITIONAL HEAD

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May

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CODE: IRC 2003

TOWN: Portland

DATE: 12-18-09

Sprinkler

FILE: 015-017-09

A2.5

Plans

SHEET: