+GF+ Uponor

AQUASAFE™ INSPECTION CHECKLIST

Residential Fire Safety Systems

nate	some other accommodation for the flow-restrictive devices?
Project name	
Project number	☐ Yes ☐ No
Project address	If no, contact Uponor Construction Services at design.services@uponor.com or call 888.594.7726.
Installing company name	Is this a well system?
Installing company Alliance member ID	☐ Yes ☐ No
Installing contractor name	If yes, does the well have proper storage? (See well log report.)
Inspector name	☐ Yes ☐ No
AquaSAFE Rough Inspection Checklist	Is the mechanical room sprinkler away from heat sources?
The following checklist is a guideline only and is not intended	☐ Yes ☐ No
to replace National Fire Protection Association (NFPA) 13D and/or P2904 of the International Residential Code (IRC).	Is the crosslinked polyethylene (PEX) tubing in the mechanical room protected by a 30-minute fire-rated material, installed in accordance with Uponor's exposed listing, or is the tubing approved for exposed
Plans	
Does the installer have an AquaSAFE installer card?	installation in fire sprinkler systems?
□ Yes □ No	☐ Yes ☐ No
Does the installer have a copy of the approved set of	Obstructions
plans on the job?	Are sprinklers spaced appropriately to avoid obstructions?
□ Yes □ No	□ Yes □ No
Do the plans match the actual construction?	If no, list obstructions below. (Refer to NFPA 13D, sprinkler technical
□ Yes □ No	bulletins or the system designer to make corrections prior to rough inspection.)
If no, mark the changes and send to Uponor Construction Services at design.services@uponor.com or call 888.594.7726.	1
Mechanical Room/Water Supply	
Does the underground pipe material and diameter from the street	
match the plans?	2
□ Yes □ No	
Does the pressure-gauge reading on the incoming water supply	
match the plans? Be sure to take into consideration pressure- reducing valves (PRVs).	3
□ Yes □ No	
Does the water meter size match the plans?	
□ Yes □ No	
Does the main water source have devices, such as valves, softeners or filters that are not shown on the plans?	
□ Yes □ No	

Special Considerations	If yes, contact Uponor Construction Services at
Are there any unprotected bathrooms?	design.services@uponor.com or 888.594.7726.
□ Yes □ No	Are there additional fittings not shown on the plans?
If yes, are they less than 55 square feet in size?	☐ Yes ☐ No
□ Yes □ No	If yes, note that additional fittings may have altered system performance and hydraulic calculations should be verified prior to rough inspection.
Are there any unprotected closets?	
□ Yes □ No	Are all fittings within the sprinkler loop or grid UL-listed
If yes, are they less than 24 square feet and the walls of noncombustible material ($\frac{1}{2}$ " sheet rock)?	for use in residential fire sprinkler systems?
□ Yes □ No	
Are sprinklers located near heat sources the proper temperature	Sprinkler Spacing and Positioning
rating in accordance with NFPA 13D?	Are the sprinklers spaced in a manner not exceeding the spacing indicated on the plans (spacing between heads and to walls)?
□ Yes □ No	☐ Yes ☐ No
If local code requires sprinkler coverage in unheated areas, are those	Are sprinklers at least 8' apart to avoid cold soldering?
sprinklers adequately insulated to prevent exposure to freezing temperatures (e.g., dry sidewall or pendent sprinkler)?	☐ Yes ☐ No
☐ Yes ☐ No	Are all sprinklers spaced at least 4" away from walls?
If there are fuel-fired appliances in the attic, is sprinkler protection	☐ Yes ☐ No
provided?	Are pendent sprinkler deflectors positioned 1" to 4" from the ceiling
□ Yes □ No	(unless noted otherwise on the plans)?
If yes, see detail page for installation instructions.	☐ Yes ☐ No
Tubing and Fittings	For vaulted ceilings, is at least one sprinkler within 3' from the peak?
Does the tubing print stream have UL 1821 for residential	☐ Yes ☐ No
fire sprinklers?	For vaulted ceilings, is the sprinkler's deflector parallel to the ceiling?
□ Yes □ No	☐ Yes ☐ No
Is the tubing supported 32" horizontally, 4' vertically and	Testing
very 6' when attached to the top of trusses to prevent	Were all flow-restrictive devices installed in the system prior to flow
lateral movement? ☐ Yes ☐ No	testing (i.e., backflow preventers, PRVs, water treatment, etc.)?
	□ Yes □ No
Is all PEX tubing protected by a 30-minute fire barrier (½" sheet rock), or installed in accordance with Uponor's exposed listing requirements?	Are all these flow-restrictive devices shown on the plans (i.e., backflow preventers, PRVs, water treatment, etc.)?
□ Yes □ No	☐ Yes ☐ No
Is there at least one plumbing fixture per floor tied into the	Did the sprinkler meet the required flow during the field flow test?
fire sprinkler loop to ensure adequate circulation?	□ Yes □ No
□ Yes □ No	Is the proper orifice verified for the flow test?
Is the tubing installed below or behind insulation to meet local code	□ Yes □ No
requirements and/or manufacturer recommendations? ☐ Yes ☐ No	For well systems, did the pump start automatically upon sprinkler activation, and was the required amount of flow present?
Does the length of the installed tubing exceed the length	□ Yes □ No
shown on the plans by more than 20%?	Does the system have a water-flow alarm?
□ Yes □ No	□ Yes □ No

RESIDENTIAL FIRE SAFETY SYSTEMS

If yes, was the inspector's drain-and-test connection activated to successfully verify operation of the alarm and/or any other devices attached to the water-flow alarm?	Sprinklers
	Were all sprinklers inspected to ensure they have not been painted, damaged or otherwise hindered from operation?
□ Yes □ No	□ Yes □ No
Did the installer complete and sign the AquaSAFE Flow Test Verification Form?	Where a pump is required to provide water to the system, was a flo test performed from the most hydraulically remote head or was the inspector's test-and-drain connection activated to ensure the pump turns on automatically?
Yes □ No	
AquaSAFE Final Inspection Checklist	☐ Yes ☐ No
The following checklist is a guideline only and is not intended to replace NFPA 13D and/or P2904 of the IRC.	Are all protective caps removed?
	☐ Yes ☐ No
Plans	Are all cover plates and/or escutcheons properly installed?
Does the installer have a copy of the approved set of plans on the job or as-builds reflecting changes from the rough inspection?	□ Yes □ No
□ Yes □ No	Final Flow Test
Were there any outstanding issues from the rough inspection? ☐ Yes ☐ No	Was a complete and successful flow test conducted at rough inspection?
	□ Yes □ No
If yes, were they corrected? ☐ Yes ☐ No	If no, refer to the following questions.
Mechanical Room/Water Supply	Are all required valves for the local jurisdiction (e.g., PRVs, check valves) installed for the flow test?
Is warning signage with homeowner manual installed at the	□ Yes □ No
main shutoff valve or approved location by the authority having jurisdiction (AHJ)?	Did the sprinkler meet the required flow during the field flow test?
□ Yes □ No	☐ Yes ☐ No
Are there any new devices, such as valves, softeners, filters or irrigations systems added to the main water source since rough inspection that are not reflected on the plans or the as-builds?	Is the proper orifice verified for the flow test?
	☐ Yes ☐ No
	For well systems, did the pump start automatically upon sprinkler activation, and was the required amount of flow present?
If yes, does the system have an automatic bypass loop or	☐ Yes ☐ No
some other accommodation for the flow-restrictive devices?	Does the system have a water-flow alarm?
□ Yes □ No	☐ Yes ☐ No
ls a sprinkler cabinet required?	If yes, was the inspector's drain-and-test connection activated to successfully verify operation of the alarm and/or any other devices
□ Yes □ No	
If yes, does the cabinet contain the number of spare sprinklers required by the AHJ?	attached to the water-flow alarm? ☐ Yes ☐ No
	Did the installer complete and sign the AquaSAFE Flow Test Verification Form?
	☐ Yes ☐ No

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