



MOBILE FIRE - RESCUE DEPARTMENT FIRE CODE ADMINISTRATION

Sprinkler System NFPA 13R Acceptance Inspection

Facility Name: _____

Facility Address: _____

Building Code Permit Number (if applicable) BLDC 20__ - _____

Reference numbers following checklist statements represent an NFPA code section unless otherwise specified.

1. ____ Approved plans and above-ground piping certification documents are on-site, 8.1.
2. ____ Underground supply testing and flushing are witnessed and underground piping certification is provided, 10.2.
3. ____ Hydro test for a wet system is 200 psi for 2 hrs. and should include the FDC piping.
4. ____ Hydro test for a dry system is 200 psi for 2 hrs.
5. ____ Hydro test for systems with less than 20 heads and no FDC can be tested at 50 psi above the maximum design pressure, 10.2.
6. ____ Backflow prevention device is installed in accordance with its listing and approved plans, and a forward flow test is performed, IFC 903.

Riser Room

7. ____ Water flow drain is routed to the exterior with a turned down elbow. Flow test is performed.
8. ____ Test valve and flow switch are monitored and tested.

9. ____ Paddle-type water flow is not allowed for dry systems.
10. ____ 24-hour monitoring service agency received signals.
11. ____ Water flow alarm is located according to the approved set of plans, is properly signed, and connected to the fire alarm system.
12. ____ Water supply valves are indicating type and supervised.
13. ____ Riser valves signed: main drain, main control, test valves, etc., and pressure gauges are on the supply and system sides of the check valve.
14. ____ A permanent label with hydraulic calculations is attached to the riser.
15. ____ The riser is supported by hanger or attachment, for multistory at the lowest level, alternate levels, at offsets, and at the top.
16. ____ At least 3 spare sprinklers are provided for each type of sprinkler, 11.1.

Fire Department Connection (FDC)

17. ____ FDC is locked capped and permanently signed.
18. ____ FDC has check valve and drip valve.
19. ____ FDC for wet single riser system connects to the system side.
20. ____ FDC is 2½ in. connection and 18 in. to 48 in. above grade.

Sprinklers

21. ____ Sprinkler head locations are the same as the plans.
22. ____ Pendent deflectors are 1 in. to 4 in. from the ceiling unless listing permits otherwise, 6.4.
23. ____ Sidewall deflectors are 4 in. to 6 in. from the ceiling unless listing permits otherwise, 6.4.
24. ____ Sidewall deflectors are at least 5 ft. from a fan, 6.4.
25. ____ Soffits exceeding 8 in. in width from the wall are sprinklered underneath or when sidewall sprinklers are installed and the soffit exceeds 12 in., 6.4.
26. ____ Sprinkler heads have guard if subject to damage.

- 27. ____ Sprinkler heads are not painted or covered.
- 28. ____ Proper type and temperature sprinklers are used.
- 29. ____ Escutcheon plates are installed.

Pipe: Hangers, Seismic, and Penetrations

- 30. ____ Piping layout and size are the same as the plans.
- 31. ____ Minimum clearance around pipes: Holes are 2 in. larger than pipe 1 in. to 3½ in., and 4 in. larger than pipe 4 in. or larger. NFPA 13:
- 32. ____ Flexible couplings may be used for pipe 2½ in. or larger at structural separations, within 2 ft. of expansion joints, within 2 ft. of the top and bottom of all risers, within 1 ft. above and below a floor penetration in multistory buildings, and on both sides of and within 1 ft. of concrete or masonry wall penetrations unless pipe clearance is provided, NFPA 13:
- 33. ____ Lateral sway bracing is installed in accordance with approved plans, NFPA 13:
- 34. ____ If provided, seismic separation assemblies are installed in accordance with the approved plans.
- 35. ____ Longitudinal sway bracing is a maximum of 80 ft. for mains and cross mains, within 40 ft. of the end of the pipe, and check spacing on the plans, NFPA 13:
- 36. ____ Lateral sway bracing is required at a maximum spacing of 40 ft. for all mains and cross mains, check the spacing on the plans, NFPA 13: .
- 37. ____ A 4-way sway brace is provided at least every 25 ft. and at the top of the riser, NFPA 13:
- 38. ____ Longitudinal and lateral bracing is provided for each run of pipe between the changes of direction unless the pipe run is less than 12 ft., NFPA 13:
- 39. ____ Splayed seismic bracing wire, wrap-around u-hooks, or lateral sway bracing used to restrict sprinkler movement that could impact the building, equipment, or finishing materials are located in accordance with the plans, NFPA 13.
- 40. ____ Restraining straps are on all C-clamps and the strap is bolted through if there is not a lip on the beam, NFPA 13.

41. ____ Branch lines have one hanger per section of pipe, NFPA 13.
42. ____ Cross mains have one hanger between each branch line and at the end of the main, 13.
43. ____ Risers in multistory buildings have supports at the lowest level, each alternate level, below offsets, and at the top, NFPA 13.
44. ____ Distance between riser supports is not greater than 25 ft, NFPA 13:

Acceptance Inspection ____ / ____ / 20____ _____
Fire Code Administration Staff Captain