

SANTA ROSA FIRE DEPARTMENT FIRE PREVENTION BUREAU STANDARD

July 1, 2010



FIRE SPRINKLER SYSTEMS NFPA 13

PURPOSE

This standard outlines the general requirements for the installation and maintenance of Commercial (NFPA 13) Fire Sprinkler Systems. Information contained herein applies to typical instances and may not address all circumstances.

CODE REFERENCES

2007 California Building Code (CBC)
2007 California Fire Code (CFC) Chapter 9
NFPA 13, 2002

PERMIT(S) REQUIRED

A Fire Sprinkler System Installation permit is required. Categories and fee amounts are found at: <http://ci.santa-rosa.ca.us/doclib/Documents/IB%20018.pdf>

REFERENCES

- 1) Plan Review Checklist - Fire Sprinkler Installation NFPA 13
- 2) Inspection Checklist – Fire Sprinkler Installation NFPA 13

PERMIT INFORMATION

Fire Sprinkler Systems shall be designed and installed in accordance with NFPA 13, 2002.

Working plans shall be submitted for approval to the Santa Rosa Fire Department before any equipment involving seven (7) or more sprinklers is installed. A completed Permit and Plan Review Application Form and appropriate fees shall be submitted along with not less than three (3) sets of plans and calculations as required. A Santa Rosa Business Tax Certificate, current contractor's license and proof of Worker's Compensation Insurance shall be provided or shall be on file at the time of application.

Any deviation from plans as submitted during the installation requires Fire Department approval.

Plans shall include the information specified below. Failure to provide all of the required information may result in the plans being rejected. Rejected plans will be returned with a Plan Review Correction Form. Review the form and make the required additions/ changes which shall be clouded for identification. Provide a legend to describe the addition or change. Please allow ten (10) working days for review of submitted plans.

Working plans shall be drawn to an indicated scale, on sheets of uniform size, with a plan of each floor and shall show the following data:

- Name of owner and occupant

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- Location, including street address
- North arrow
- Ceiling construction
- Full height cross section (s) for clarity as needed including ceiling and roof construction
- Location of fire walls
- Location of partitions
- Occupancy of each area or room
- Location and size of concealed spaces, attics, closets and bathrooms
- Any small enclosures in which no sprinklers are to be installed
- Size of city water main in street, pressure, and whether dead-end or circulating and, if dead-end, direction and distance to nearest circulating main, and city main test results, including elevation of test hydrant
- Make, manufacturer, type, temperature rating and nominal orifice size of sprinklers

REQUIRED INSPECTIONS

- 1) **Weld and Piping Inspection** – Pipe must be on the ground and set for inspection (not bundled):
 - a. Inspection of welds and welders stamps that are next to all welds.
 - b. Ensure all of the coupons are removed from the holes in the weld-o-lets.
- 2) **Overhead Hydrostatic & Rough-In Inspection**– The system shall be pressurized at 200 psi for two hours with no drop in pressure while piping and bracking is inspected.
- 3) **Fire Sprinkler Final** - A main Drain, Inspector Test and final walk-through of sprinkler coverage shall be performed.
 - a. The main drain valve shall be opened and remain open until the pressure stabilizes.
 - b. The contractor shall complete the Installation and Materials Certification from the appendix of NFPA 13.

Inspections shall be scheduled a minimum of 48 hours in advance. Directions for scheduling are found at:
<http://ci.santa-rosa.ca.us/news/Pages/AutomatedFireInspectionRequestSystem.aspx>