

Fire Sprinkler/Standpipe Submittal Requirements

The following information must be submitted to and approved by the Forsyth County Fire Department prior to any installation per section 901.2 of the North Carolina State Fire Prevention Code and the Forsyth County Fire Marshal's Office:

1. A completed Forsyth County Fire Department permit application along with a fee of \$120.
2. A scaled and detailed floor plan with the system designer indicated and the date of design. If the plans are for the installation of a sprinkler or standpipe system in a high-rise building, the plans must be sealed by a North Carolina registered Professional Engineer (PE). The scale must be clearly indicated on the plans. An elevation view must also be included.
3. The designer's North Carolina Fire Sprinkler License number and NICET Level must be clearly indicated on the plans.
4. The square footage of each risers' protection area and clear notations of any non-sprinkled areas must be indicated.
5. Descriptions and specifications for all the systems components including pipe sizes and sprinkler heads.
6. Hydraulic calculations for the system. This shall include hydraulic calculations for any modifications to a previously hydraulically calculated system.
7. Type of system being installed. (Ex. – Class I Standpipe, NFPA 13 Wet-pipe Sprinkler)
8. Fire Department Connection (FDC) location. The FDC must be Winston-Salem thread pattern and be within 100 feet of a public fire hydrant, as a fire apparatus would normally lay supply hose.
9. Standpipe hose thread patterns must be National Standard 2 ½ and National Standard 1 ½. The protection zone is a maximum of 120 feet from the standpipe hose connection as measured around any obstructions.
10. A scaled site plan must be included indicating the FDC location and all on-site fire hydrants. The building and all fire apparatus access roadways must also be indicated.

Codes used in the review: North Carolina State Fire Prevention
North Carolina State Building
Applicable National Fire Protection Association

Standards

- ◆ Additional information may be required prior to approval of the submitted plans. The above requested information is not all-inclusive.