

FM's Suggested additions and edits to Consultant Standard Fire Protection Specification

Please review the follow and edit your standard fire sprinkler specification to include these items. The red is wording that may be typical additions to standard language:

Part 1- General Requirements:

Performance requirements:

The Sprinkler system design shall be per the applicable local codes and FM Global standards, and be approved by the authorities having jurisdiction as well as FM Global, the Owner's property insurance carrier. The design and installation shall comply with FM Global Property Loss Prevention Sheets 2-0 and 3-26.

Submittals:

Please include the requirement for submittal of the drawings and hydraulic calculations to the owner, AHJ and FM Global. Include a requirement for electronic copies of all final drawings & calculations for the Owner's records.

Quality Assurance:

Include the following requirements:

- Materials and details of the installation shall conform to FM Global standards, FM Global's Data Sheets and Approval Guide, available from FM Global or the District's website at <http://www.maricopa.edu/facilitiesplanning/contcons/index.htm>
- All equipment shall be UL Listed and FM Approved.

Part 2- Products:

All equipment should be FM Approved equipment as appropriate. Be sure to note this as "UL Listed **and** FM Approved", not or.

Sprinkler pipe shall comply with FM Global Property Loss Prevention Data Sheet 2-0.

Part 3- Execution:

Add a specific requirement:

"Deviations from approved working plans for piping require written approval from authorities having jurisdiction **and owner's insurance carrier**. File written approval with Architect and Owner before deviating from approved working plans."

Add to each section that references an NFPA standard for the installation, that the work shall comply with the requirements in NFPA-13 **and FM Loss Prevention Data Sheets 2-0 and 3-26**"

At the Piping Material Schedule, FM typically sees all piping 2 in. and smaller being Schedule 40 and all larger pipe as Schedule 10. With the corrosion problems (leaks, MIC) in the Phoenix area, more FM clients now using Schedule 40 throughout their systems.

Combustibles should not be introduced until full sprinkler protection is placed into service.

For remodeling/renovation where modifications are being made to an existing system:

Notify the college Director of Facilities and FM Global Customer Service Desk when the automatic sprinkler control valves are shut in an existing building, regardless of the duration. The FM Global Red Tag Permit System should be used to supervise all fire protection valve closures. It will provide a quick review of the precautions needed during a fire protection impairment, and will also provide a followup to ensure that full protection is restored as soon as possible.