

4.27 Listed Flexible Sprinkler Hose Fittings (2016)

Reference: 2016 NFPA 13, Section 9.2.1.3.3

Purpose: To establish requirements for the use of listed flexible sprinkler hose fittings/assemblies and its anchoring components, intended for use in installations connecting the sprinkler piping to sprinkler, that are not specifically addressed in the currently adopted NFPA 13.

NOTE: THE ADDITION, REMOVAL, OR RELOCATION OF ANY FIRE SPRINKLER OR SYSTEM COMPONENTS REQUIRES A BUILDING PERMIT. HYDRAULIC CALCULATIONS MAY BE REQUIRED.

The use of flexible sprinkler hose fittings are allowed as long as the assembly components are listed and installed in accordance with the requirements of the listing, including the manufacturer's installation instructions. Hydraulic Calculations may be required. Additionally, flexible fittings used in San Francisco shall be listed by the California State Fire Marshal.

NFPA 13. Compliance with Sections 9.2.1.3.3.1 through 9.2.1.3.3.4 is required:

Section 9.2.1.3.3.2: When installed and supported by suspended ceilings, the ceiling shall meet ASTM C 635, Standard Specification for the Manufacture, Performance, and Testing of Metal Suspension Systems for Acoustical Tile and Lay-In Panel Ceilings, and shall be installed in accordance with ASTM C 636, Standard Practice for Installation of Metal Ceiling Suspension Systems for Acoustical Tile and Lay-In Panels.

Section 9.2.1.3.3.3: Where flexible sprinkler hose fittings exceed 6 ft. in length and are supported by a suspended ceiling, a hanger(s) attached to the structure shall be required to ensure that the maximum unsupported length does not exceed 6 ft.

The suspended ceiling anchoring components shall be attached to the ceiling support with tamper resistant self-tapping zip screws.

SPECIAL REQUIREMENTS:

1) Submitted plans utilizing listed flexible sprinkler hose fittings installed and supported by suspended ceilings shall include a stamped and signed letter from a licensed structural engineer, stating:

a) That the specified ceiling meets ASTM C 635 and C 636*

***NOTE: 3rd party test inspection is not required if the building inspector can verify to the District Fire Inspector's satisfaction, that the ceiling does indeed meet ASTM C 635 & ASTM C 636**

2) After installation and prior to final inspection, a special inspection report shall be submitted to the department of building inspection in accordance with the 2016 SFBC, Section 1704a to ensure that the suspended ceiling complies with ASTM C 635 and ASTM C 636. A courtesy copy of this report shall be provided to the district fire inspector PRIOR TO SIGN-OFF OF THE SYSTEM.