



EDINA BUILDING SAFETY POLICY/INFORMATION <sub>1</sub>			
subject Fire Department Connections		2020 MSFC 912 NFPA 13 (2016) code reference	
department Fire Department		approval <i>Tom M. Schmitz</i>	
policy number SP-014-F <sub>2</sub>	revision date 04/29/2021	effective date 1/1//2015	page number 1 of 2
1. All Building Safety sheets adopted by Fire Department and Inspections Department. 2. Sheet numbers with B suffix developed by Inspections Dept. Sheet numbers with F suffix developed by Fire Dept.			



**Purpose:** Provide guidance to building owners, property managers, or architects for designing and installing fire department connections and signs as required by building and fire codes.

**Scope:** All new and existing buildings with fire sprinkler or standpipe systems and exterior Fire Department Connections (FDC).

**I.1. General Requirements**

- I.1.1. FDC installations shall follow NFPA 13 (2016), 2020 MSFC and 2020 IBC standards.
- I.1.2. FDCs may be either exterior wall mounted or remote of the building mounted 18”- 48” AFF (placement subject to approval by AHJ).
- I.1.3. NFPA 13 sprinkler systems and all standpipe system FDCs shall be 2 ½” (inch) and designed to meet fire flow requirements of the building (see chart below).
- I.1.4. All Fire Department Connections must be no more than 50 feet from a fire apparatus access road and no more than 100 feet from an accessible fire hydrant.
- I.1.5. All Fire Department Connections must be within 50 feet of the main entrance, be fully visible, and immediately accessible by fire personnel (placement subject to approval by AHJ).
- I.1.6. All new fire department connections shall be provided with locking caps in accordance with 2020 MSFC 912.4.1. Existing facilities with missing caps shall install locking caps. The only acceptable locking cap is the KNOX FDC cap. Caps may be ordered by visiting <http://www.knoxbox.com/store/Knox-FDC-Caps-and-Plugs.cfm>
- I.1.7. All FDCs shall be protected from impact damage.
- I.1.8. An external horn/strobe shall be located 96” AFF directly above fire sprinkler FDCs and signal upon water flow.
- I.1.9. An identification sign shall be installed at each fire department connection:
  - I.1.9.1. Sign stock shall be reflectorized aluminum.
  - I.1.9.2. All lettering shall be white reflective lettering on red reflective background.
  - I.1.9.3. “FDC” lettering shall be a minimum 6 inches in height
  - I.1.9.4. System type lettering shall be 1 ½ inches in height with a ¼ inch paint stroke
    - I.1.9.4.1. System types as follows:
      - I.1.9.4.2. "Auto Sprinkler" for fire sprinkler system
      - I.1.9.4.3. "Deluge System" for deluge system
      - I.1.9.4.4. "Dry Standpipe" for dry standpipe system
      - I.1.9.4.5. "Wet Standpipe" for wet standpipe system
      - I.1.9.4.6. "Combination Standpipe" for combination wet standpipe and fire sprinkler system
  - I.1.9.5. Sign shall be mounted by the following:
    - I.1.9.5.1. On a sign post with the bottom of the sign a minimum 5 feet from grade, or
    - I.1.9.5.2. Attached to the structure minimum 5 feet directly above the fire sprinkler connection.



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I.2. FDC inlet table:

System	FDC inlet(s)	FDC signage
NFPA 13-D	Not required	Not required
NFPA 13-R	One 2 ½” inlet for each 250 GPM system demand	Required
NFPA 13	Two 2 ½” inlets minimum plus additional inlet(s) for each 250 gpm above 500 gpm.	Required
Standpipe (wet, dry, combination)	Two 2 ½” inlets minimum plus additional inlet(s) for each 250 gpm above 500 gpm.	Required

I.3. Examples of Signage (for illustration only):

