



Montgomery County Fire Marshal's Office

501 N Thompson, Suite #102 · Conroe, TX 77301 · P. (936) 538-8288 · F. (936) 538-8277



<http://www.co.montgomery.tx.us/fire> · fire.codes@mctx.org

Montgomery County Fire Marshal's Office Standards for

Fire Department Connection (FDC)

Fire Department Connection Placement

All Fire Department Connection locations shall be submitted for review to the Local Fire Department. Montgomery County Fire Marshal's Office will give final approval of the placement.

Knox FDC Caps with Swivel Guard

All FDC inlets shall be protected with a Knox FDC cap with swivel guard. The Knox product number for this requirement is #3041. Please contact the local fire department to install caps prior to the final inspection.

Connection requirements by system type

NFPA 13 -

All sprinkler systems complying with NFPA 13: Standards for the Installation of Sprinkler Systems. The Fire Department Connection shall be installed according to NFPA 13 and manufacturers recommendations. Montgomery County AHJ requirements for Fire Department Connections(s), FDC, shall consist of two **(2) - 2 ½ in.** (65mm) connections using NH internal threaded swivel fittings with "2.5 – 7.5 NH standard thread," as specified in NFPA 1963, Standard for Fire Hose Connections. Fire Department connection shall be equipped with Knox locking caps with swivel protection, properly secured and arranged for easy removal by fire departments.

NFPA 13R –

All sprinklers systems complying with NFPA 13R: Standards for the Installation of Sprinkler Systems in Residential Occupancies up to and Including Four Stories in Height. The Fire Department Connection shall be installed according to NFPA 13R and manufacturing recommendations. Montgomery County Fire Marshal's Office requirements for Fire Department Connections(s), FDC is required on all Residential Occupancies that exceed 2,000 ft² or are more than a single story.

Residential Occupancies under 25,000 Sq. Ft. area. - FDC shall consist of one **(1) - 2 ½ in.** (65mm) connections using NH internal threaded swivel fittings with "2.5 – 7.5 NH standard thread," as specified in NFPA 1963, Standard for Fire Hose Connections. FDC shall be equipped with Knox locking caps with swivel protection, properly secured and arranged for easy removal by fire departments.

Residential Occupancies over 25,001 Sq. Ft. area. - FDC shall consist of two **(2) - 2 ½ in.** (65mm) connections using NH internal threaded swivel fittings with "2.5 – 7.5 NH standard thread," as specified in NFPA 1963, Standard for Fire Hose Connections. FDC shall be equipped with Knox locking caps with swivel protection, properly secured and arranged for easy removal by fire departments.



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NFPA 13D –

All sprinkler system complying with NFPA 13D: Standards for the Installation of Sprinkler Systems in One- and Two-Family Dwellings and Manufactured Homes. No Fire Department Connection is required; if the system was hydrostatically tested for leakage at normal system operating pressure.

Signage Requirements

All Fire Department Signs shall be approved through the Montgomery County Fire Marshal's Office Plan's Review Department prior to sign being placed.

Fire Department Signs shall be constructed of 1/16 metal or greater; the overall sign detention will vary depending on wording and additional requirements. Sign shall be placed at a minimum of 72 inches above finished grade unless otherwise instructed from bottom of sign. FDC that are on buildings, signs shall be placed on building shall be screwed into the building material with appropriate screws on all four corners. FDC that are remote from building, signs shall be placed three feet behind FDC on a metal pole and secured with at least two screws or U-bolts. All signs wording shall be white in color on a red background.

Single FDC

Single FDC for a Building no more than one per property (wall mounted)

- FDC – Six inch letters



Single FDC for multiple buildings or tenants



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Single FDC for multiple buildings, multiple tenants using single FDC, multiple FDC for one site, or multiple FDC's on building (strip center) (remote or wall mounted located "discernible line of sight of building for known building")

- FDC – six inch letters
- What the FDC is for – lease spaces (A101 – A106, Suite 101 ONLY), building (Building A, #1, Garage, etc.), or multiple buildings that tie into single FDC (Building 2 and Garage) - (2 inch letters)
- Auto Sprinkler / Standpipe (for single FDC controlling both, must state this on sign if controlling both) – (2 inch letters)
- "Working Pressure 150 P.S.I." – Typical working pressure or non-typical working pressure if stated otherwise for system demand (white on red 1 inch letters)





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Unique FDC

Unique FDC – when it is necessary per MCFMO; out of discernible line of site, needed per our specifications, or multiple FDC's clustered together for multiple buildings

- FDC – six inch letters
- Address and or name of building – 123 Fake St., The use of names should be restricted to limited situations where the name of the building is not expected to change any time in the future, such as schools or hospitals. - (2 inch letters)
- What the FDC is for – lease spaces (A101 – A106, Suite 101 ONLY), building (Building A, #1, Garage, etc.) , or multiple buildings that tie into single FDC (Building 1 and Garage) - (2 inch letters)
- Auto Sprinkler / Standpipe (for single FDC controlling both, must state this on sign if controlling both) – (2 inch letters)
- IF NEEDED: “High Rise Buildings” as defined per code – what floors are controlled per riser/ what floors have PRV's (2 inch letters)
- IF NEEDED: Any other information specified by MCFMO, this can be a substitute for line 3 or just additional information (Floors 1 – 5 Auto. Sprinkler / Wet Standpipe, Floors 6 – 12 Wet Standpipe ONLY) (Office – Auto. Sprinkler ONLY, Garage - Dry Standpipe ONLY) (2 inch letters)
- “Working Pressure 150 P.S.I.” – Typical working pressure or non-typical working pressure if stated otherwise for system demand (1 inch letters)

