

**Carlsbad Fire Department  
Fire & Life Safety Division**

**Guideline for  
Automatic Fire Sprinkler Systems  
One- and Two-Family Dwellings  
NFPA 13D**



Approved and Authorized By:  
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Issued: February 1, 2023

# **Guideline for One- and Two-Family Dwelling Fire Sprinkler Systems NFPA 13D**

## **PURPOSE**

The intent of this guideline is to provide information necessary to ensure that the design and installation of automatic sprinkler systems in one- and two-family dwellings comply with applicable provisions set forth by 2022 California Fire Code (CFC), 2022 California Building Code, 2022 California Residential Code, and 2022 NFPA 13D, as adopted by the State of California, and locally adopted ordinances enforced by the city of Carlsbad, Office of the Fire Marshal (CFD).

## **SCOPE**

This guideline provides specific requirements for the installation of automatic fire sprinkler systems, within one- and two-family dwellings.

## **SUBMITTAL REQUIREMENTS**

### **1. General Requirements**

- A. Submit three (3) sets of legible, scaled plans with one (1) set of current and complete technical data sheets/manufacture's specifications to Carlsbad Fire & Life Safety Division.
- B. Plans shall be submitted for approval to the City of Carlsbad before any equipment is installed or remodeled.
- C. Plans shall be drawn in accordance with NFPA 13D.

### **2. Place the following notes verbatim on the plan**

- A. Scope of work.
- B. One set of approved sprinkler plans with hydraulic calculations shall be retained at the job site at all times.
- C. The system shall be designed and installed in accordance with 2022 NFPA 13D and amendments as adopted by the local jurisdiction or California Residential Code.
- D. Applicable edition of the Building and Fire Code shall be stated on plans.
- E. Documentation shall be provided upon request to demonstrate that the water supply, listed devices, and sprinkler coverage comply with the requirements of NFPA 13D.
- F. All valves shall have permanently affixed signs that designate their function.
- G. If waterflow alarms are provided, the water flow switch shall be connected to the service panel on an uninterruptable house circuit and labeled.

- H. If waterflow detection devices are installed, these devices, including the associated alarm circuits, shall be flow tested through the inspector's test connection and shall result in an audible alarm on the premises in accordance with 2022 NFPA 13D section 11.2.3.1.
- I. Water meter shall be installed prior to final.
- J. City of Carlsbad inspection required at both rough and final prior to occupancy being granted.
- K. Systems shall be tested at a minimum of street pressure in accordance with 2022 NFPA 13D section 11.2.1.1.
- L. All sprinkler piping shall remain uncovered until inspected by City of Carlsbad.
- M. Call Inspection Scheduling line at (442) 339-2660 to schedule all inspections at least 48 hours in advance.