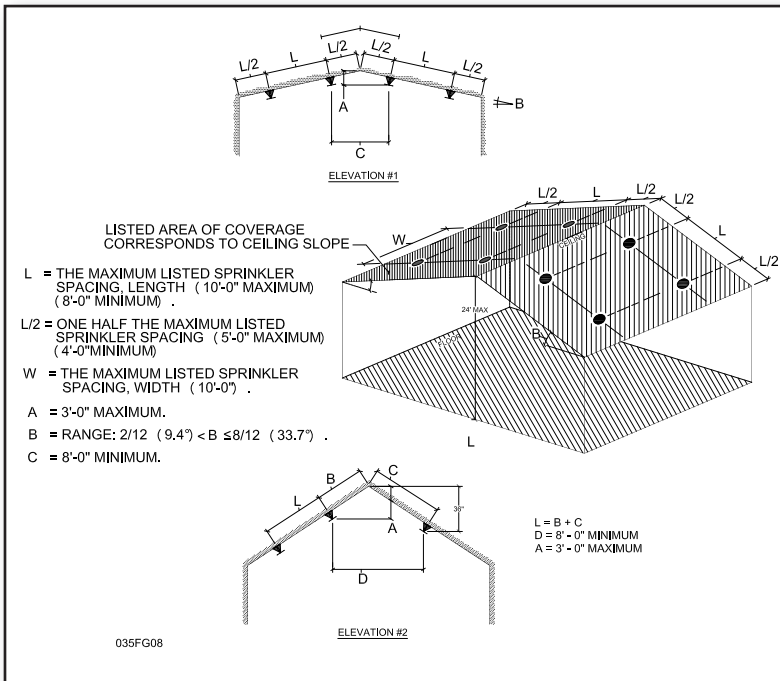


The Design Criteria for Sloped & Sloped Beamed Ceilings in NFPA 13D One and Two Family Dwellings & Manufactured Homes Has Changed.



A Tentative Interim Amendment (TIA No.1028R) to NFPA 13D for 2010 has been issued by the NFPA Standards Council.

Testing supported by The Fire Protection Research Foundation indicates that residential sprinklers listed for applications with smooth, flat ceilings can meet the stated purpose in NFPA 13D standards when installed on a sloped or sloped and beamed ceiling.

Sloped and Sloped/Beamed Ceilings, under certain conditions, can now be protected with residential sprinklers based upon a maximum two (2) sprinkler demand that has the same flow rate as the sprinklers smooth, flat ceiling listing.

The TIA No.1028R revises NFPA 13D - 2010 edition sections 8.1.2, 8.1.3, A.8.1.2, and A.8.1.3. Please read and adhere to these sections for the complete new design criteria.

A brief recap:

The sprinklers in the design area shall be all of the sprinklers in a compartment, up to a maximum of two, which require the greatest demand for:

- Smooth, flat ceilings to a maximum 24 feet in height.
- Smooth, ceilings (with no beams) sloped up to 8/12 and a maximum ceiling height of 24' above the floor.
- A ceiling with beams up to 14" deep sloped up to 8/12 and a maximum ceiling height of 24' above the floor. Pendent sprinklers shall be installed under the beams and the compartment cannot exceed 600 square feet.
- A ceiling with beams of any depth sloped up to 8/12 and a maximum ceiling height of 24' above the floor. Sidewall or pendent sprinklers shall be installed in each pocket formed by the beams and the compartment cannot exceed 600 square feet.

All Reliable residential sprinklers can be used for these applications based upon the spacing, flow, and pressure as listed for smooth and flat ceilings. (See Bulletins: 135, 006, 033 and 032).

This TIA is for 13D applications only. Changes to 13R will be in the 2013 Edition. Our special 10' x 10' spacing listings for sloped ceilings are still advantageous for 13R installations. (See Table 9, Bulletin 035).

For any questions, please contact [Technical Services](#) at 1-800-55-RASCO.