



Tentative Interim Amendment

NFPA[®] 13

Standard for the Installation of Sprinkler Systems

2019 Edition

Reference: Chapter 25 various

TIA 19-2

(SC 18-8-16 / TIA Log #1384)

Note: Text of the TIA was issued and approved for incorporation into the document prior to printing.

1. Add the following new paragraphs to Chapter 25 to read as follows:

25.2.3.1.3 For design densities of 0.2 gpm/ft² (8.2 mm/min) or less, standard-response CMDA sprinklers with a K-factor of K-5.6 (80) or larger shall be permitted.

25.2.3.1.4 For design densities greater than 0.2 gpm/ft² to 0.34 gpm/ft² (8.2 mm/min to 13.9 mm/min), standard-response CMDA sprinklers with a nominal K-factor of K-8.0 (115) or larger shall be used.

25.2.3.1.5 For design densities greater than 0.34 gpm/ft² (13.9 mm/min), standard-response CMDA sprinklers with a K-factor of K-11.2 (160) or larger that are listed for storage applications shall be used.

25.2.3.1.6 The requirements of 25.2.3.1.4 and 25.2.3.1.5 shall not apply to modifications to existing storage application systems, using sprinklers with K-factors of K-8.0 (115) or less.

25.2.3.1.7 The use of quick-response CMDA sprinklers for storage applications shall be permitted when listed for such use.

25.2.3.1.8 The ceiling sprinkler design figures in 25.2.3 indicate water demands for ordinary-temperature-rated and nominal high-temperature-rated CMDA sprinklers at the ceiling.

25.2.3.1.8.1 The ordinary-temperature ceiling sprinkler design densities correspond to ordinary-temperature-rated sprinklers and shall be used for sprinklers with ordinary- and intermediate-temperature classification.

25.2.3.1.8.2 The high-temperature ceiling sprinkler design densities correspond to high-temperature-rated sprinklers and shall be used for sprinklers having a high-temperature rating.

25.2.3.1.9 Ordinary- and intermediate-temperature CMDA ceiling sprinklers with K-factors of K-11.2 (K-160) or larger, where listed for storage, shall be permitted to use the densities for high-temperature sprinklers.

25.2.3.1.10 Discharge Considerations.

25.2.3.1.10.1 The water supply for ceiling and in-rack sprinklers only shall be determined from the density/area requirements of Chapter 25.

25.2.3.1.10.2 The calculations shall satisfy any single point on appropriate density/area curves.

25.2.3.1.10.3 The design area shall meet the requirements of 27.2.4.2.1.

25.2.3.1.10.4 The minimum design density shall be not less than 0.15 gpm/ft² (6.1 mm/min) after all adjustments are made.

Issue Date: August 14, 2018

Effective Date: September 3, 2018

(Note: For further information on NFPA Codes and Standards, please see www.nfpa.org/docinfo)

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