Tentative Interim Amendment

NFPA® 13

Standard for Installation of Sprinkler Systems

2025 Edition

Reference: 19.2.3.2.5, Table 19.2.3.2.5(new) and 19.2.3.2.5.1
TIA 25-5
(SC 25-12-7 / TIA Log #1860)

Pursuant to Section 5 of the NFPA *Regulations Governing the Development of NFPA Standards*, the National Fire Protection Association has issued the following Tentative Interim Amendment to NFPA 13, *Standard for the Installation of Sprinklers Systems*, 2025 edition. The TIA was processed by the Technical Committee on Sprinkler System Discharge Criteria, and the Correlating Committee on Automatic Sprinkler Systems, and was issued by the Standards Council on December 2, 2025, with an effective date of December 22, 2025.

1. Revise paragraph 19.2.3.2.5 and add Table 19.2.3.2.5 to read as follows:

19.2.3.2.5* Sprinklers for Ceiling Heights Over 30 ft (9.1 m). Where sprinklers are installed in areas with ceiling heights greater than 30 ft (9.1 m) above the finished floor, the requirements of Section 19.2 shall apply except as modified by 19.2.3.2.5 and Table 19.2.3.2.5.

Table 19.2.3.2.5 Summary of Requirements for Ceiling Heights over 30 ft (9.1 m)

Ceiling Height		Occupancy Hazard	Sprinkler Coverage	Minimum Sprinkler K-factor		Sprinkler Response	Sprinkler Orientation	Minimum Sprinkler Density		Increase to Design Area Obtained from Table 19.2.3.1.1
ft	m			US	metric			gpm/ft²	mm/min	
Over 30 and up to 40	Over 9.1 and up to 12.2	OH1	Standard or extended	5.6	80	SR or QR	Upright or pendent	Per Table 19.2.3.1.1		30% increase
		OH2	Standard	11.2	160	QR	Upright or pendent	0.37	15.1	None
			Extended	11.2	160	SR or QR	Upright	0.37	15.1	None
				25.2	360	SR or QR	Upright or pendent	0.37	15.1	None
		EH1 and EH2	Standard	16.8	240	SR	Upright or pendent	0.45	18.3	None
			Extended	25.2	360	SR	Upright or pendent	0.45	18.3	None
Over 40	12.2	OH1	Standard or extended	5.6	80	SR or QR	Upright or pendent	Per Table 19.2.3.1.1		30% increase
		OH2	Standard	11.2	160	QR	Upright or pendent	0.45	18.3	30% increase

			Extended	11.2	160	SR or QR	Upright	0.45	18.3	30% increase
				25.2	360	SR or QR	Upright or pendent	0.45	18.3	None
		EH1 and EH2	Standard	16.8	240	SR	Upright or pendent	0.45	18.3	None
			Extended	25.2	360	SR	Upright or pendent	0.45	18.3	None

2. Revise paragraph 19.2.3.2.5.1 and renumber associated Annex to read as follows:

19.2.3.2.5.1 General Sprinkler Characteristics for Ceiling Heights over 30 ft (9.1 m).

(A)* Sidewall sprinklers shall not be permitted for use in Ordinary Hazard Group 1 and higher occupancy hazards where the ceiling height is greater than 30 ft (9.1 m). *[See 10.3.2(3).]*

~~**(A)**~~**(B)*** Sprinklers having a nominal K-factor less than K-11.2 (K-160) shall not be permitted for use in Ordinary Hazard Group 2 and higher occupancy hazards where the ceiling height is greater than 30 ft (9.1 m). *(See 9.4.5.)*

~~**(B)**~~**(C)*** Extended-coverage pendent sprinklers having a nominal K-factor of K-22.4 (K-320) or less shall not be permitted for use in Ordinary Hazard Group 2 and higher occupancy hazards where the ceiling height is greater than 30 ft (9.1 m). *(See 11.2.1.1.)*

~~**(C)**~~**(D)*** Standard-response standard-coverage sprinklers shall not be permitted for use in Ordinary Hazard Group 2 occupancies where the ceiling height is greater than 30 ft (9.1 m) ~~40 ft (12.2 m)~~. *(See 10.2.5.)*

A.19.2.3.2.5.1(A) The large-scale fire testing applicable to the requirements of this section did not include the use of sidewall sprinklers. As a result, sidewall sprinklers are not currently allowed for the protection of Ordinary Hazard Group 1 or greater occupancy hazards where the ceiling height exceeds 30 ft (9.1 m).

A.19.2.3.2.5.1~~(A)~~(B) The large-scale fire testing applicable to the requirements of this section demonstrated that sprinklers with a K-factor of K-8.0 (K-115) were not effective in providing fire control for a simulated Ordinary Hazard Group 2 occupancy with the ceiling height greater than 30 ft (9.1 m), whereas sprinklers with a minimum K-factor of K-11.2 (K-160) were effective at providing fire control. As a result, sprinklers with a K-factor less than K-11.2 (K-160) are not currently allowed for the protection of Ordinary Hazard Group 2 or greater occupancy hazards where the ceiling height exceeds 30 ft (9.1 m).

A.19.2.3.2.5.1~~(B)~~(C) The large-scale fire testing applicable to the requirements of this section did not include the use of extended-coverage sprinklers with a K-factor of less than K-25.2 (K-360). Testing at FM Global, however, has demonstrated that upright extended-coverage sprinklers with a K-factor of K-11.2 (K-160) and K-14.0 (K-200) can be effective for Ordinary Hazard Group 1 and 2 occupancies where the ceiling height is greater than 30 ft (9.1 m), whereas the testing at FM Global did not demonstrate this for the pendent version of these extended-coverage sprinklers. As a result, pendent extended-coverage sprinklers with K-factors of K-22.4 or less are not currently allowed for the protection of Ordinary Hazard Group 2 or greater occupancy hazards where the ceiling height exceeds 30 ft (9.1 m).

A.19.2.3.2.5.1~~(C)~~(D) The large-scale fire testing applicable to the requirements of this section demonstrated that for standard-coverage sprinklers, the use of quick-response sprinklers provided an acceptable level of fire control for simulated Ordinary Hazard Group 2 occupancy hazards. As a result, quick-response standard-coverage sprinklers with K-factors of K-11.2 (K-160) or greater are required for the protection of Ordinary Hazard Group 2 occupancy hazards where the ceiling height exceeds 30 ft (9.1 m).

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