



Tentative Interim Amendment

NFPA[®] 13

Standard for the Installation of Sprinkler Systems

2019 Edition

Reference: Table 22.5

TIA 19-3

(TIA Log #1415)

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 Sprinkler Systems*, 2019 edition. The TIA was processed by the Technical Committee on Sprinkler System Discharge Criteria, and the Correlating on Automatic Sprinkler Systems, and was issued by the Standards Council on July 17, 2019, with an effective date of August 6, 2019.

A Tentative Interim Amendment is tentative because it has not been processed through the entire standards development procedures. It is interim because it is effective only between editions of the standard. A TIA automatically becomes a public input of the proponent for the next edition of the standard; as such, it then is subject to all of the procedures of the standards development process.

1. Revise Table 22.5 to read as follows (highlighted for easier reading):

Table 22.5 CMSA Sprinkler Design Criteria for Single-, Double-, and Multiple-Row Racks of Group A Plastic Commodities Stored Up ~~to~~ and Including ~~25~~ **35 ft (7.6 11 m)** in Height

Storage Arrangement	Commodity Class	Maximum Storage Height		Maximum Ceiling/Roof Height		K-Factor/ Orientation	Type of System	Number of Design Sprinklers	Minimum Operating Pressure	
		ft	m	ft	m				psi	bar
Cartoned nonexpanded plastics		20	6.1	25	7.6	11.2 (160) Upright	Wet	15	50	3.4
						16.8 (240) Upright	Wet	15	22	1.5
						19.6 (280) Pendent	Wet	15	16	1.1
				30	9.1	11.2 (160) Upright	Wet	30	50	3.4
						16.8 (240) Upright	Wet	20	75	5.2
						19.6 (280) Pendent	Wet	15†	22	1.5
		25	7.6	30	9.1	11.2 (160) Upright	Wet	*	NA	NA
						16.8 (240) Upright	Wet	15†	22	1.5
						19.6 (280) Pendent	Wet	15	16	1.1
						25.2 (360) Pendent	Wet	15	10	0.7

Storage Arrangement	Commodity Class	Maximum Storage Height		Maximum Ceiling/Roof Height		K-Factor/ Orientation	Type of System	Number of Design Sprinklers	Minimum Operating Pressure	
		ft	m	ft	m				psi	bar
		Single-, double-, and multiple-row racks (no open-top containers)	Exposed nonexpanded plastics	25	7.6				35	11
16.8 (240) Upright	Wet					*	NA	NA		
19.6 (280) Pendent	Wet					15	25	1.7		
30	9.1					35	11	19.6 (280) Pendent		
35	10.6			40	12	19.6 (280) Pendent	Wet	15	30	2.1
						25.2 (360) Pendent	Wet	15	23	0.71.6
20	6.1			25	7.6	11.2 (160) Upright	Wet	15	50	3.4
						16.8 (240) Upright	Wet	15	22	1.5
20	6.1			30	9.1	11.2 (160) Upright	Wet	30	50	3.4
						16.8 (240) Upright	Wet	20	75	5.2
25	7.6			30	9.1	11.2 (160) Upright	Wet	15†	22	1.5
						16.8 (240) Upright	Wet	*	NA	NA
25	7.6			35	11	11.2 (160) Upright	Wet	*	NA	NA
						16.8 (240) Upright	Wet	*	NA	NA
						11.2 (160) Upright	Wet	*	NA	NA
						16.8 (240) Upright	Wet	*	NA	NA

NA: Not applicable.

*In-rack sprinklers required. See Chapter 25.

†Limited to single- and double-row racks with minimum 8 ft (2.4 m) aisles.

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Effective Date: August 6, 2019

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

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