

NFPA 13-2019 Edition - Standard for the Installation of Sprinkler Systems

TIA No.: 1415 Reference: Table 22.5

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	
Single-, double-, and multiple-row racks (no open-top containers)	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	
		25	7.6	35	11	11.2 (160) Upright	Wet	*	NA	NA	
						16.8 (240) Upright	Wet	*	NA	NA	
						19.6 (280) Pendent	Wet	15	25	1.7	
						11.2 (160) Upright	Wet	*	NA	NA	
		30	9.1	35	11	19.6 (280) Pendent	Wet	15	25	1.7	
		35	10.6	40	12	19.6 (280) Pendent	Wet	15	30	2.1	
						25.2 (360) Pendent	Wet	15	23	0.7 1.6	
		Exposed 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
							11.2 (160) Upright	Wet	30	50	3.4
				30	9.1	16.8 (240) Upright	Wet	20	75	5.2	
						11.2 (160) Upright	Wet	15†	22	1.5	
						16.8 (240) Upright	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		
11.2 (160) 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		

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.

Substantiation: Table 17.3.2.1 was inadvertently deleted, it was the Committee's intent to merge this table with Table 17.2.2.1 (which is now Table 22.5).

Emergency Nature: The standard contains an error or an omission that was overlooked during the regular revision process. The proposed TIA intends to offer to the public a benefit that would lessen a recognized (known) hazard or ameliorate a continuing dangerous condition or situation.

At present, the standard contains no protection criteria for Group A plastic in excess of 25 ft when using CMSA sprinklers.

NFPA 24-2019 Edition - Standard for the Installation of Private Service Mains and Their Appurtenances

TIA No.: 1425

Reference: 2.3.1, 2.3.2, and Table 10.2.1.1

1. Add to 2.3.1 ASME Publications as follows:

ASME B16.15, Cast Copper Alloy Threaded Fittings: Classes 125 and 250, 2018.

ASME B16.18, Cast Copper Alloy Solder Joint Pressure Fittings, 2018.

ASME B16.22, Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings, 2018.

2. Add to 2.3.2 ASTM Publications as follows:

ASTM A403/A403M, Standard Specification for Wrought Austenitic Stainless Steel Piping Fittings, 2018a.

3. *Revise Table 10.2.1.1 to read as follows:*

Table 10.2.1.1 Fittings Materials Dimensions

Materials and Dimensions	Standard
Cast Iron	
...	
Ductile Iron	
...	
Malleable Iron	
...	
Copper	
<i>Wrought Copper and Copper Alloy Solder-Joint Pressure Fittings</i>	ASME B16.22
<i>Cast Copper Alloy Solder Joint Pressure Fittings</i>	ASME B16.18
Bronze Fittings	
<i>Cast Copper Alloy Threaded Fittings: Classes 125 and 250</i>	ASTM B16.15
Stainless Steel	
<i>Specification for Wrought Austenitic Stainless Steel Piping Fittings</i>	ASTM A403/A403M

Substantiation: This TIA seeks to rectify a discrepancy that was introduced during the Second Draft stage of the revision process, when as per Public Comment No. 11, and Second Revision No. 7, it was requested that the references to steel pipe fittings should be deleted from the table. However, for some reason in the TerraView copy of the table, the provisions for copper and bronze fittings were inadvertently shown in “strikeout text” as well, so now, as published, the table only recognizes cast iron and ductile iron fittings as appropriate for underground piping installations.

Additionally, in Public Comment No. 6, it was proposed to add the references for stainless steel fittings, to correspond with the information shown in NFPA 13 - 2016, Table 6.4.1. This matter was “accepted in principle” by the Technical Committee and it was intended to be reflected in Second Revision No. 7, but mistakenly, it was not included.

The missing information needs to be added to Table, 10.2.1.1, to allow the appropriate fittings to be utilized when copper, bronze or stainless steel pipe is employed in underground piping installations.

Also, please note that since Table 10.2.1.1 is extracted into NFPA 13 - 2019 as Table 6.2.1.1, the missing information needs to be added to NFPA 13, Table 6.2.1.1 as well.

Emergency Nature: The standard contains an error or an omission that was overlooked during the regular revision process. The proposed TIA intends to correct a circumstance in which the revised NFPA Standard has resulted in an adverse impact on a product or method that was inadvertently overlooked in the total revision process or was without adequate technical (safety) justification of the action.

The missing information needs to be added to Table, 10.2.1.1, to allow the appropriate fittings to be utilized when copper, bronze or stainless steel pipe is employed in underground piping installations.