



Errata

NFPA 13

Standard for the Installation of Sprinkler Systems

2010 Edition

Reference: 8.15.1.1, 8.15.5.6, 11.3.1.2.2, Table 17.2.2.1, Figure 17.2.1.2.1(c), A.10.8.2 and Annex E

Errata No.: 13-10-1

The Committee on Sprinkler System Installation Criteria, notes the following errors in the 2010 edition of NFPA 13, *Standard for the Installation of Sprinkler Systems*.

1. Revise 8.15.1.1 to read as follows:

8.15.1.1 Concealed Spaces Requiring Sprinkler Protection. Concealed spaces of exposed combustible construction shall be protected by sprinklers except in concealed spaces where sprinklers are not required to be installed by 8.15.1.2.1 through 8.15.1.2.4~~6~~ 18 and 8.15.6.

(Editorial correction necessary to include two new sections.)

2. Revise Paragraph 8.15.5.6 as follows:

8.15.5.6 Sprinklers shall be installed at the top and bottom of elevator hoistways where elevators ~~that~~ utilize polyurethane-coated steel belts or other similar combustible belt material.

(Error occurred in recording the committee action on Proposal 13-196. Revision necessary for clarity.)

3. Revise Paragraph 11.3.1.2.2 to change the reference from “22.4.4.6.1” to “22.4.4.6”.

(Error occurred in recording the committee action on Comment 13-199. Revision necessary for clarity.)

4. Revise Table 17.2.2.1 by adding asterisks as follows:

Table 17.2.2.1 Continued

Storage Arrangement	Commodity Class	Maximum Storage Height		Maximum Ceiling/Roof Height		K-Factor/Orientation	Type of System	Number of Design Sprinklers	Minimum Operating Pressure	Hose Stream Allowance	Water Supply Duration (hours)
		ft	m	ft	m						
Single, double, and multiple-row racks without solid shelves (no open-top containers)	Exposed unexpanded plastics	20	6.1	25	7.6	11.2 (160) Upright	Wet	15	50 psi (3.5 bar)	500 gpm (1900 L/min)	1½
						16.8 (240) Upright	Wet	15	22 psi (1.5 bar)		1½
		20	6.1	30	9.1	11.2 (160) Upright	Wet	30	50 psi (3.5 bar)		2
							Wet	20	75 psi (5.2 bar)		2
						16.8 (240) Upright	Wet	15*	22 psi (1.5 bar)		1½
							Wet	15*	22 psi (1.5 bar)		1½
		25	7.6	30	9.1	11.2 (160) Upright	Wet	15 + 1 level of in-rack	50 psi (3.5 bar)		1½
						16.8 (240) Upright	Wet	15*	22 psi (1.5 bar)		1½
		25	7.6	35	10.6	11.2 (160) Upright	Wet	30 + 1 level of in-rack	50 psi (3.5 bar)		2
							Wet	20 + 1 level of in-rack	75 psi (5.2 bar)		2
						16.8 (240) Upright	Wet	30 + 1 level of in-rack	22 psi (1.5 bar)		2
							Wet	20 + 1 level of in-rack	35 psi (2.4 bar)		2

*Minimum 8 ft (2.4 m) aisle.

(This is based on Committee Action on Comment 13-224.)

5. Revise Figure 17.2.1.2.1(c) Footnote 2 as follows:

2. Ceiling-only protection is not permitted for this storage configuration except where K-11.2 or larger spray sprinklers listed for storage use are installed. In-rack sprinklers are not required, provided the ceiling sprinkler discharge criterion is increased to 0.6 gpm/ft² (24 mm/min) over 2000 ft² (186 m²).

(This is based on Proposal 13-412.)

6. Revise A.10.8.2 sixth and seventh paragraphs as follows:

A similar approach can be used to design bearing blocks to resist the thrust forces at locations such as tees and dead ends. Typical values for conservative horizontal bearing strengths of various soil types are listed in Table A.10.8.2(c).

In lieu of the values for soil bearing strength shown in Table A.10.8.2(c), a designer might choose to use calculated Rankine passive pressure (P_p) or other determination of soil-bearing strength based on actual soil properties.

7. Revise Formulas in Annex E as follows:

E.3

Delete this formula

$$F_p = \frac{0.4a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)} \left(1 + 2\frac{z}{h}\right) = \frac{0.4(2.5)S_{DS}W_p}{\left(\frac{4.5}{1.5}\right)} \left(1 + 2\frac{h}{h}\right) = (1.0)S_{DS}W_p$$

Replace with this:

$$F_p = \frac{0.4a_p S_{DS} W_p}{\left(\frac{R_p}{I_p}\right)} \left(1 + 2\frac{z}{h}\right) = \frac{0.4(2.5)S_{DS}W_p}{\left(\frac{4.5}{1.5}\right)} \left(1 + 2\frac{h}{h}\right) = (1.0)S_{DS}W_p$$

Delete this formula:

$$-S_{ps} = \frac{2}{3}S_s F_a$$

Replace with this:

$$-S_{DS} = \frac{2}{3}S_s F_a$$

Delete this formula:

$$C_p = 0.7S_{ps} = \frac{2}{3}(0.7S_s F_a) = 0.467S_s F_a$$

Replace with this:

$$C_p = 0.7S_{DS} = \frac{2}{3}(0.7S_s F_a) = 0.467S_s F_a$$

(This error occurred during the editorial revisions and transferring the documents between formats.)

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(Note: Electronic products and pamphlet reprints may have this errata incorporated. For current information about the NFPA Codes and Standards, including this errata, please see www.nfpa.org/codelist)