



EZ PERMIT STANDARD
SPRINKLER RELOCATION (NFPA 13)

For the Relocation of Sprinkler Heads
 Revised 11/18 (16-NFPA 13)

EZ Permit Standard: Sprinkler Head Relocation

EZ Permit Standard shall not relieve FSS Contractor from complying with all applicable provisions of 2016 NFPA, Standard 13.

Obtain permits for the relocation of sprinkler heads in accordance with the provisions of 2016 NFPA, Standard 13 without submitting plans by meeting the Conditions and Design Limitations below. Any deviations from this permit standard will result in permit revocation.

Conditions

- Heads may be relocated for accommodation of new partition layouts and reconfirmation of rooms for smooth, flat ceiling surfaces (**not applicable** to sloped surfaces).
- Work shall be done by licensed fire suppression contractor.
- Installation of new feed main, new cross mains, new sprinkler heads are **not applicable** to EZ permit process.
- Application of EZ Permit Standard shall be limited to Light and Ordinary Group 1 Hazard applications **only**.
- EZ permit process **shall not** permit the conversion of existing light hazard systems to quick response or residential sprinklers unless already in place.

Construction & Relocation Requirements

- Minimum spacing between sprinklers: Regular Coverage – 6-ft O.C.; Extended Coverage – 8-ft O.C.
- Sprinklers permitted to be installed in accordance to manufacturer’s listing.
- Relocation of sprinkler heads in suspended acoustic ceiling shall meet ASTM C635, ASTM C636/C636M Standards
- Distance of heads from continuous obstructions **shall not** exceed limits of [2016 NFPA 13, Figure/Table 8.6.5.1.2(a)] for pendent/upright sprinklers, and [2016 NFPA 13, Figure/Table 8.7.5.1.3] for sidewall sprinklers.
- Minimum clearance between deflector and the top of storage shall be 18 in. or greater.

Pendent/Upright Deflectors

- Permitted offset from ceiling between 1-in. to 12-in.
- To be located 3-ft minimum from ceiling obstructions, i.e. ceiling fans, light fixtures, etc.

Sidewall Sprinkler Deflectors

- Permitted offset from ceiling between 4-in. to 6-in.
- To be located 4-ft minimum from ceiling obstructions, i.e. ceiling fans, light fixtures, etc.

Piping Support Hangers [*Hangers to be installed as per 2016 NFPA 13 standards*]

- Sprinkler piping to be supported independently of ceiling sheathing
- Flexible sprinkler drops shall be properly braced in the ceiling system in accordance with the manufacturer’s instructions. Additional hangers are required where flexible length exceeds 6 feet.
- Attachment of branch line hangers to metal deck limited to support of max. pipe diameter of 1 in.
- Clearance distance between a hanger and the centerline of an upright sprinkler shall be no less than 3 in.
- Min. number of hangers: One (1) per section of pipe
- Hanger maximum spacing: 12 ft. for sprinkler spacing < 6 ft. [Not to exceed limits of 2016 NFPA 13, Table 9.2.2.1(a)]
- Non-metallic pipe to comply with individual product listing for hanger distances, including, but not limited to CPVC.
- Sprigs 4 ft. or longer shall be restrained against lateral movement.

Unsupported Lengths to be as required in 2016 NFPA 13 [*From End-Sprinkler to Last Hanger On Line*]

- 1-in diameter: 36” [18” for copper tube]
- 1.25-in diameter: 48” [24” for copper tube]
- 1.5-in diameter or greater: 60” [30” for copper tube]
- For maximum pressures exceeding 100 psi: 12” for steel pipe, 6” for copper pipe
- Exceeded limits of unsupported lengths shall have pipe ends extended and supported with additional hangers.

Unsupported Arm-over Lengths to be as required in 2016 NFPA 13 [*Max. Cumulative Horizontal Length to Sprinkler*]

- 24” for steel, 12” for copper pipe
- For maximum pressures exceeding 100 psi: 12” for steel pipe, 6” for copper pipe

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Table 8.6.5.1.2 Positioning of Sprinklers to Avoid Obstructions to Discharge (SSU/SSP)

Distance from Sprinklers to Side of Obstruction (A)	Maximum Allowable Distance of Deflector Above Bottom of Obstruction (in.) (B)
Less than 1 ft	0
1 ft to less than 1 ft 6 in.	2½
1 ft 6 in. to less than 2 ft	3½
2 ft to less than 2 ft 6 in.	5½
2 ft 6 in. to less than 3 ft	7½
3 ft to less than 3 ft 6 in.	9½
3 ft 6 in. to less than 4 ft	12
4 ft to less than 4 ft 6 in.	14
4 ft 6 in. to less than 5 ft	16½
5 ft to less than 5 ft 6 in.	18
5 ft 6 in. to less than 6 ft	20
6 ft to less than 6 ft 6 in.	24
6 ft 6 in. to less than 7 ft	30
7 ft to less than 7 ft 6 in.	35

For SI units, 1 in. = 25.4 mm; 1 ft = 0.3048 m.
 Note: For (A) and (B), refer to Figure 8.6.5.1.2(a).

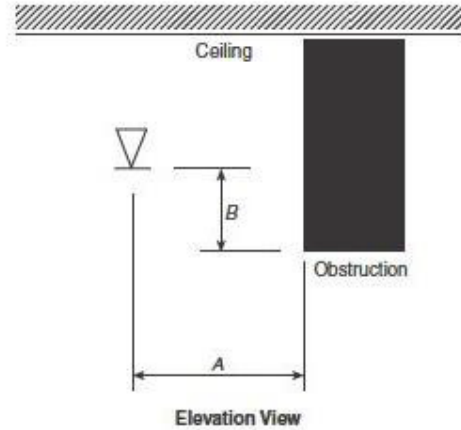


FIGURE 8.6.5.1.2(a) Positioning of Sprinklers to Avoid Obstructions to Discharge (SSU/SSP).

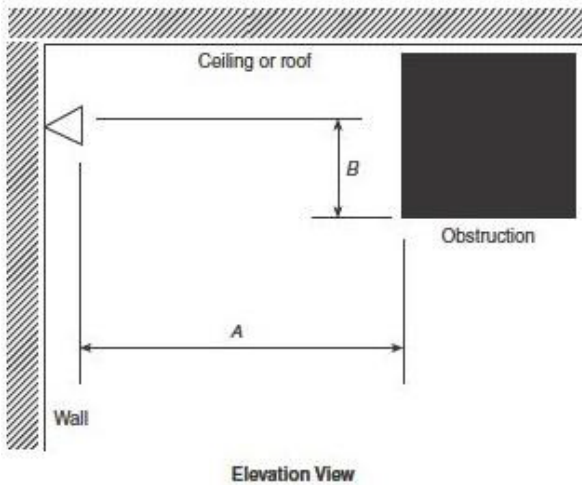


FIGURE 8.7.5.1.3 Positioning of Sprinklers to Avoid Obstructions (Standard Sidewall Spray Sprinklers).

Table 8.7.5.1.3 Positioning of Sprinklers to Avoid Obstructions (Standard Sidewall Spray Sprinklers)

Distance from Sidewall Sprinkler to Side of Obstruction (A)	Maximum Allowable Distance of Deflector Above Bottom of Obstruction (in.) (B)
Less than 4 ft	Not allowed
4 ft to less than 5 ft	1
5 ft to less than 5 ft 6 in.	2
5 ft 6 in. to less than 6 ft	3
6 ft to less than 6 ft 6 in.	4
6 ft 6 in. to less than 7 ft	6
7 ft to less than 7 ft 6 in.	7
7 ft 6 in. to less than 8 ft	9
8 ft to less than 8 ft 6 in.	11
8 ft 6 in. or greater	14

For SI units, 1 in. = 25.4 mm; 1 ft = 0.3048 m.
 Note: For (A) and (B), refer to Figure 8.7.5.1.3.

Table 9.2.2.1(a) Maximum Distance Between Hangers (ft-in.)

	Nominal Pipe Size (in.)											
	¾	1	1¼	1½	2	2½	3	3½	4	5	6	8
Steel pipe except threaded												
lightwall	N/A	12-0	12-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0	15-0
Threaded lightwall steel pipe	N/A	12-0	12-0	12-0	12-0	12-0	12-0	N/A	N/A	N/A	N/A	N/A
Copper Tube	8-0	8-0	10-0	10-0	12-0	12-0	12-0	15-0	15-0	15-0	15-0	15-0
CPVC	5-6	6-0	6-6	7-0	8-0	9-0	10-0	N/A	N/A	N/A	N/A	N/A
Ductile Iron Pipe	N/A	N/A	N/A	N/A	N/A	N/A	15-0	N/A	15-0	N/A	15-0	15-0

NA: Not Applicable

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