

# NFPA 13 2019 CHAPTER 11 EXTENDED COVERAGE QUICK REFERENCE

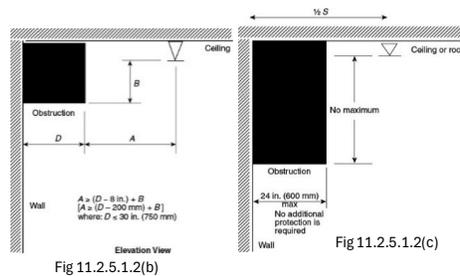
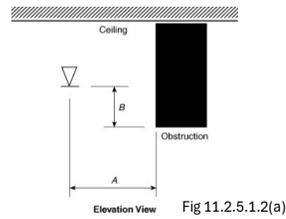
## 11.2 Extended Coverage Upright and Pendent Spray Sprinklers.

### 11.2.5.1.2\*

Sprinklers shall be arranged to comply with one of the following arrangements:

- (1) Sprinklers shall be in accordance with 9.5.5.2, Table 11.2.5.1.2, and Figure 11.2.5.1.2(a).
- (2) Sprinklers shall be permitted to be spaced on opposite sides of obstructions not exceeding 4 ft (1.2 m) in width provided the distance from the centerline of the obstruction to the sprinklers does not exceed one-half the allowable distance permitted between sprinklers.
- (3) Obstructions located against the wall and that are not over 30 in. (750 mm) in width shall be permitted to be protected in accordance with Figure 11.2.5.1.2(b).
- (4) Obstructions located against the wall and that are not over 24 in. (600 mm) in width shall be permitted to be protected in accordance with Figure 11.2.5.1.2(c). The maximum distance between the sprinkler and the wall shall be measured from the sprinkler to the wall behind the obstruction and not to the face of the obstruction.

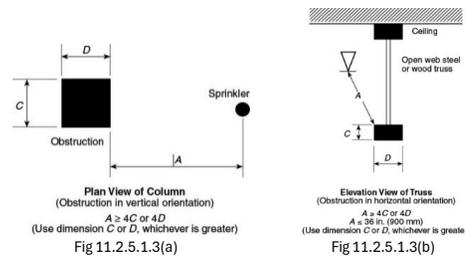
Distance from Sprinklers (A)	Max Distance (B) [in. (mm)]
Less than 1 ft (300 m)	0 (0)
1 ft (300 m) to less than 1 ft 6 in. (450 m)	0 (0)
1 ft 6 in. (450 m) to less than 2 ft (600 m)	1 (25)
2 ft (600 m) to less than 2 ft 6 in. (750 m)	1 (25)
2 ft 6 in. (750 m) to less than 3 ft (900 m)	1 (25)
3 ft (900 m) to less than 3 ft 6 in. (1.1 m)	3 (75)
3 ft 6 in. (1.1 m) to less than 4 ft (1.2 m)	3 (75)
4 ft (1.2 m) to less than 4 ft 6 in. (1.4 m)	5 (125)
4 ft 6 in. (1.4 m) to less than 5 ft (1.5 m)	7 (175)
5 ft (1.5 m) to less than 5 ft 6 in. (1.7 m)	7 (175)
5 ft 6 in. (1.7 m) to less than 6 ft (1.8 m)	7 (175)
6 ft (1.8 m) to less than 6 ft 6 in. (2 m)	9 (225)
6 ft 6 in. (2 m) to less than 7 ft (2.1 m)	11 (275)
7 ft (2.1 m) to less than 7 ft 6 in. (2.3 m)	14 (350)
7 ft 6 in. (2.3 m) to less than 8 ft (2.4 m)	14 (350)



### 11.2.5.2.1.3\*

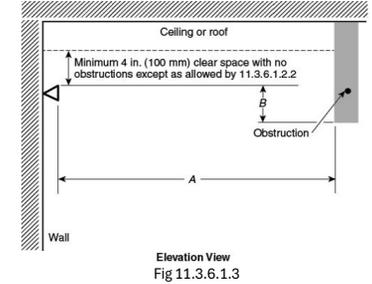
Unless the requirements of 11.2.5.2.1.4 through 11.2.5.2.1.8 are met, sprinklers shall be positioned away from obstructions a minimum distance of three times the maximum dimension of the obstruction (e.g., structural members, pipe, columns, and fixtures) in accordance with Figure 11.2.5.2.1.3(a) and Figure 11.2.5.2.1.3(b).

- (A) The maximum clear distance required shall be 36 in. (900 mm).
- (B) The maximum clear distance shall not be applied to obstructions in the vertical orientation (e.g., columns).

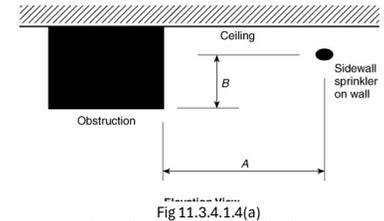


## 11.3\* Extended Coverage Sidewall Spray Sprinklers.

Distance from Sidewall (A)	Maximum (B) [in. (mm)]
8 ft (2.4 m) to less than 10 ft (3.0 m)	1 (25)
10 ft (3.0 m) to less than 11 ft (3.4 m)	2 (50)
11 ft (3.4 m) to less than 12 ft (3.7 m)	3 (75)
12 ft (3.7 m) to less than 13 ft (4.0 m)	4 (100)
13 ft (4.0 m) to less than 14 ft (4.3 m)	6 (150)
14 ft (4.3 m) to less than 15 ft (4.6 m)	7 (175)
15 ft (4.6 m) to less than 16 ft (4.9 m)	9 (225)
16 ft (4.9 m) to less than 17 ft (5.2 m)	11 (275)
17 ft (5.2 m) or greater	14 (350)

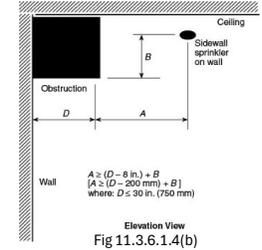


Distance from Sidewall (A)	Maximum (B) [in. (mm)]
Less than 1 ft 6 in. (450 mm)	0 (0)
1 ft 6 in. (450 mm) to less than 3 ft (900 mm)	1 (25)
3 ft (900 mm) to less than 4 ft (1.2 m)	3 (75)
4 ft (1.2 m) to less than 4 ft 6 in. (1.4 m)	5 (125)
4 ft 6 in. (1.4 m) to less than 6 ft (1.5 m)	7 (175)
6 ft (1.5 m) to less than 6 ft 6 in. (2.0 m)	9 (225)
6 ft 6 in. (2.0 m) to less than 7 ft (2.1 m)	11 (275)
7 ft (2.1 m) to less than 7 ft 6 in. (2.3 m)	14 (350)

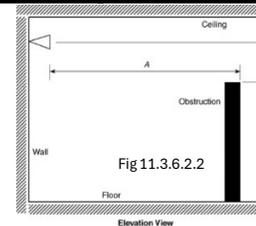
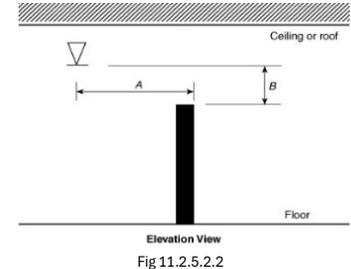


### 11.3.4.1.4

Sidewall spray sprinklers shall be permitted to be installed on opposing or adjacent walls, provided no sprinkler is located within the maximum (listed coverage) protection area of another sprinkler.



Horizontal Distance (A)	Maximum (B) (in.(mm))
6 in. (150 mm) or less	3 (75)
More than 6 in. (150 mm) to 9 in. (225 mm)	4 (100)
More than 9 in. (225 mm) to 12 in. (300 mm)	6 (150)
More than 12 in. (300 mm) to 15 in. (375 mm)	8 (200)
More than 15 in. (375 mm) to 18 in. (450 mm)	9 1/2 (240)
More than 18 in. (450 mm) to 24 in. (600 mm)	12 1/2 (315)
More than 24 in. (600 mm) to 30 in. (750 mm)	15 1/2 (390)
More than 30 in. (750 mm)	18 (450)



This does not cover all obstruction rules, for complete rules for obstruction please refer to the appropriate chapter referenced above