

SIDEWALL SPACING RULES

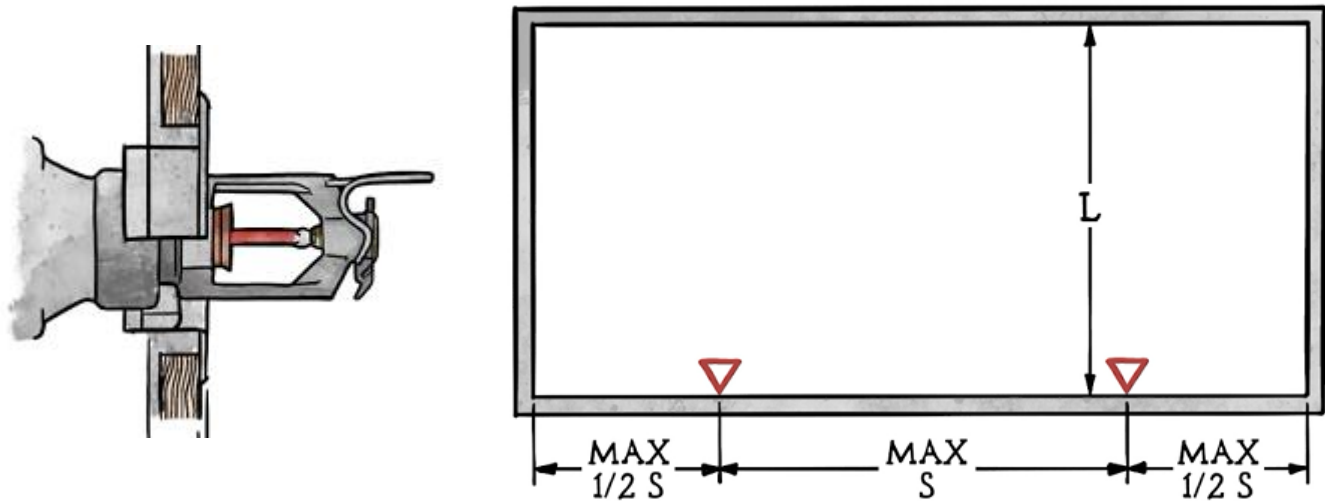
LAYOUT FOR STANDARD SPRAY SPRINKLERS SERIES BY MEYERFIRE UNIVERSITY | DECEMBER 2022

SUMMARY

Sidewall sprinkler spacing is defined with three key measurements:

- **Length (L):** The distance from the wall behind a sidewall to the opposite wall. If there is a sidewall on the opposite side, then this is measured to the midpoint between the sprinklers.
- **Width (S):** This is the distance between sprinklers along the same wall, or twice the distance from the sprinkler to an adjacent wall.
- **Coverage Area (A):** This is determined by multiplying length by width, as $A = S \times L$. Limits for Coverage Area depend on the hazard and combustibility of the ceiling.

NFPA 13 holds limits for maximum length (throw) for a sidewall, maximum distance (Width, S) between sprinklers along the same wall, minimum distance (Width, S) along the same wall, maximum distance to an adjacent wall ($1/2$ of S), and minimum distance to an adjacent wall.



Spacing Measurements for Sidewall Sprinklers

CODE/STANDARD REFERENCES



NFPA 13 – 2022: 10.3.2 Where Sidewall Sprinklers are Allowed to be Installed

NFPA 13 – 2022: 10.3.3.2 Maximum Coverage Area, and Spacing Rules, for Standard Spray Sidewall Sprinklers

VIDEO LINK

www.meyerfire.com/university/spacing-rules-for-sidewalls

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