HOW DO WE DETERMINE COVERAGE AREA?

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

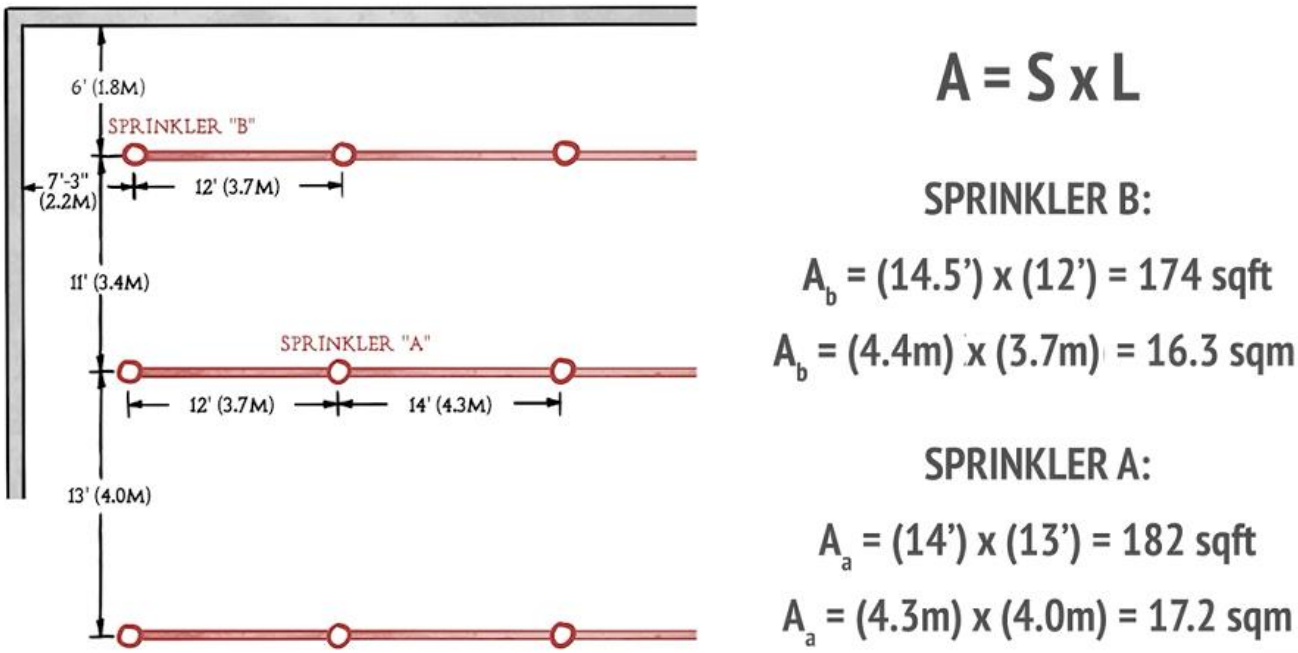
SUMMARY

The **Coverage Area** is one of the key rules that we follow for sprinkler spacing. **How is Coverage Area calculated**?

- NFPA 13 defines the Coverage Area as: **A = S x L**, where "A" is the Coverage Area, "S" is the greater of sprinkler-to-sprinkler spacing or twice the sprinkler-to-wall distance, along the branchline, and "L" is the greater of sprinkler-to-sprinkler spacing or twice the sprinkler-to-wall distance in the other direction.
- Coverage Area under the Small Room Rule is calculated differently: just the size of the room divided by the number of sprinklers.

What is the **Maximum Allowable Coverage Area**?

- In NFPA 13, the maximum coverage area is found in the spacing tables within the chapters specific to each type of sprinkler.
- For Standard Spray Uprights and Pendents, Light Hazard, for example, the maximum allowable Coverage Area is found in Table 10.2.4.2.1(a).



Example Calculation of Coverage Area using A = S x L

CODE/STANDARD REFERENCES

NFPA 13 – 2022: 9.5.2.1 Coverage Area Formula and Definition
NFPA 13 – 2022: Table 10.2.4.2.1 Sprinkler Spacing Tables for Standard Spray Uprights & Pendents

VIDEO LINK

www.meyerfire.com/university/coverage-area-for-standard-uprights-pendents

GET MORE LIKE THIS

This page is from MeyerFire University. Get updates & more here:
Join MeyerFire University | Course & Video Catalog | Video Library

FX108.72H ©MEYERFIRE DECEMBER 2022
PUBLISHED 2022 | NEXT UPDATE COMING 2025

MeyerFire University