

Sprinkler count for rectangular room

EN 12845 / NFPA 13

Divides the room area by the maximum coverage area per sprinkler for the selected hazard class, then rounds up. Real layout may need more heads near walls and obstructions.

Formula

$$N = \text{ceil}(L \times W / A_{\text{max}})$$

Inputs

- Room length (m) — default 12
- Room width (m) — default 8
- Max coverage per head (m²) — default 12