Table 9.7: Automatic Sprinkler System Requirements

ITEMS	REQUIREMENTS
24. SPRINKLER ZONING AND AREA LIMITATIONS	i. The maximum floor area on any one floor to be protected by sprinklers supplied by any one sprinkler system riser or combined system riser shall be 4831 m^2 for Light and Ordinary Hazard. Separate Alarm Check Valve (ACV) shall be used for each 4831 m^2 sprinkler zones in light and ordinary hazards.. ii. The maximum floor area on any one floor to be protected by sprinklers supplied by any one sprinkler system riser or combined system riser shall be 3720 m^2 for Extra Hazard and Storage occupancies. Separate Alarm Check Valve (ACV) shall be used for each 3720 m^2 sprinkler zones in extra hazards.. iii. The floor area occupied by mezzanines shall not be included in the area limits.
25. PROTECTION AREA PER SPRINKLER	i. The protection area of coverage per sprinkler (A_s) shall be determined as S X L, $A_s=S \times L$. a. Where S is along the branch line, the distance between sprinklers (or to wall or obstruction in the case of the end sprinkler on the branch line) upstream and downstream. Choose the larger of either twice the distance to the wall or the distance to the next sprinkler on the same branch. b. Where L is between the branch lines, perpendicular distance to the sprinkler on the adjacent branch line (or to a wall or obstruction in the case of the last branch line) on each side of the branch line on which the subject sprinkler is positioned. Choose the larger of either twice the distance to the wall or obstruction or the distance to the next sprinkler on the adjacent branch.

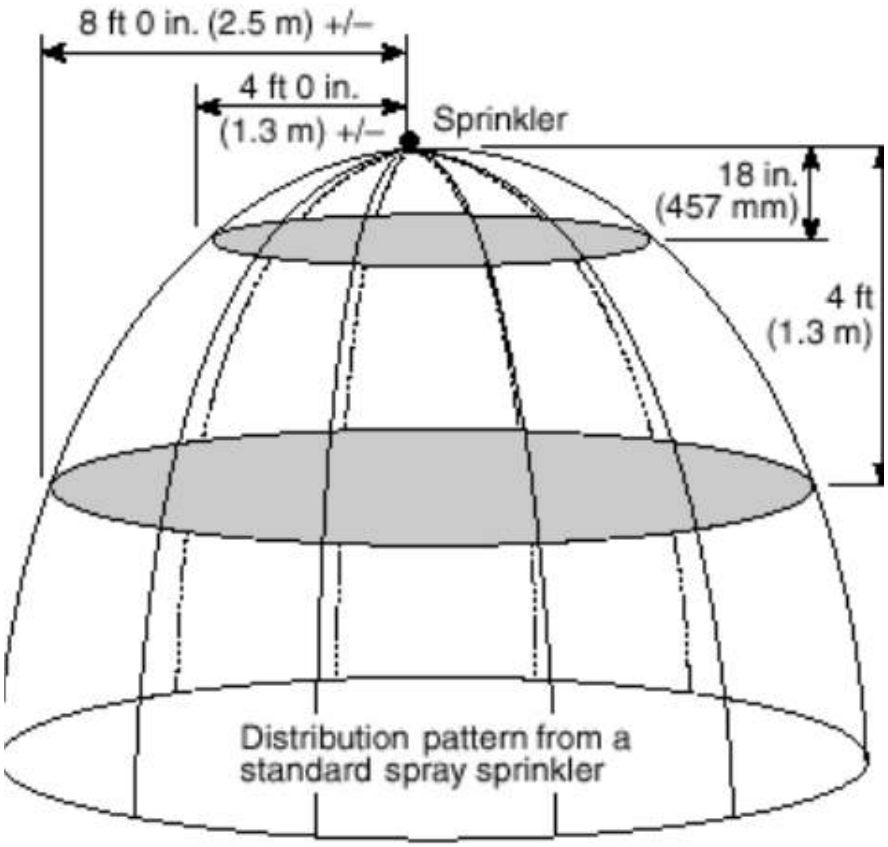

Figure 9.19.: Protection Area per Sprinkler Head, $A_s=SxL$.