

Table 9.7: Automatic Sprinkler System Requirements

ITEMS	REQUIREMENTS
28. SIDEWALL SPRINKLERS	<ul style="list-style-type: none"> i. Sidewall sprinkler heads shall be installed along a wall side, a side of a beam or beneath the flat smooth ceiling where upright or pendent sprinklers with open piping may not be desirable due to aesthetics issues. ii. Sidewall sprinklers shall be installed such that their deflectors are aligned parallel to the ceiling or roof. iii. Sidewall sprinkler shall be installed on the ramps, for the protection of any office or room where there is no false ceiling and open piping is not desirable due to aesthetic issues. iv. Quick / fast response type sprinklers shall be installed in the light hazard areas. v. The recessed / concealed pendent sprinklers shall be installed as per the installation guidelines recommended by the original equipment manufacturer. vi. Sidewall sprinkler protective caps and straps shall be removed immediately after the commissioning of the sprinkler system. vii. Sidewall sprinklers shall be fitted with a protective guard where there are possibilities for accidental damage of sprinkler bulbs. viii. The distance between a side wall sprinkler deflector and the ceiling shall be not less than 100 mm and shall be not more than 150 mm. However in non combustible ceiling areas the distance between the side wall sprinkler deflector and the ceiling shall be permitted to be 150mm to 300mm and 300mm to 450 mm if the sprinklers are listed for such use as per original equipment manufacturers technical data sheets. ix. Where soffits used for the installation of sidewall sprinklers exceed 203 mm in width or projection from the wall, additional sprinklers shall be installed below the soffit. x. The minimum distance between the sprinkler and the adjacent sprinkler shall be not less than 1.8 m. xi. In light hazard occupancies, the maximum distance between the standard sidewall sprinkler and the adjacent standard sprinkler shall be not more than 4.25 m. and the room width shall be not more than 3.6 m. Where the extended coverage upright sprinklers are used, the maximum spacing between sprinklers along the wall and room width shall be not more than its approval listing as per the original equipment manufacturers technical data sheet. xii. In ordinary hazard occupancies, the maximum distance between the standard sidewall sprinklers to the adjacent standard sprinkler shall be not more than 3 m. and the room width shall be not more than 3 m. Where the extended coverage upright sprinklers are used, the maximum spacing between sprinklers along the wall and room width shall be not more than its approval listing as per the Original equipment manufacturers technical data sheet. xiii. The minimum distance between a sidewall sprinkler to a wall shall be not less than 100mm. xiv. The maximum distance between a standard sidewall sprinkler and a wall shall be not more than 2.125 m. in light hazard and shall be not more than 1.5 m. in ordinary hazard or $\frac{1}{2}$ of the spacing between the sprinkler. xv. There should not be any continuous or non-continuous obstructions such as columns, beams, truss webs and chords, pipes, ducts and other fixtures that could prevent discharge pattern below the sprinkler head which is less than or equal to 500 mm.