

**Table 9.7: Automatic Sprinkler System Requirements**

ITEMS	REQUIREMENTS
<b>28. SIDEWALL SPRINKLERS</b>	<ul style="list-style-type: none"> <li>xvi. Sprinklers shall be installed under fixed obstructions over 1.2 m wide such as ducts, cable trays, decks, open grate floorings etc.</li> <li>xvii. The minimum clearance between the top of storage and the sidewall sprinkler head shall be not less than 500mm.</li> <li>xviii. Sidewall sprinklers under glass or plastic skylights exposed to the direct rays of the sun shall be of the intermediate-temperature classification.</li> <li>xix. Sidewall sprinklers shall be located so as to minimize obstructions to discharge or additional sprinklers shall be provided to ensure an adequate coverage of the hazard.</li> <li>xx. Sidewall sprinklers shall be installed no closer than 1.2 m. from light fixtures or similar obstructions.</li> </ul>
<b>29. OBSTRUCTIONS</b>	i. The position of various types of sprinklers to avoid obstructions of discharge patterns shall be as per <b>Table 9.7.D.</b>

**Table 9.7.D: Maximum allowable distance of deflector above the obstruction base**

DISTANCE FROM SPRINKLERS TO OBSTRUCTIONS (A)	STANDARD SPRINKLERS (B)	SIDEWALL SPRINKLERS (B)	EXTENDED COVERAGE SPRINKLERS (B)	ESFR SPRINKLERS (B)
1. Less than 300 mm	0 mm	25 mm	0 mm	0 mm
2. 300 mm to less than 450 mm	65 mm	75 mm	0 mm	35 mm
3. 450 mm to less than 600 mm	90 mm	115 mm	25 mm	75 mm
4. 600 mm to less than 750 mm	140 mm	145 mm	25 mm	140 mm
5. 750 mm to less than 900 mm	190 mm	175 mm	25 mm	200 mm
6. 900 mm to less than 1050 mm	240 mm	200 mm	75 mm	250 mm
7. 1050 mm to less than 1200 mm	305 mm	230 mm	75 mm	300 mm
8. 1200 mm to less than 1350 mm	355 mm	250 mm	125 mm	375 mm
9. 1350 mm to less than 1500 mm	420 mm	290 mm	175 mm	450 mm
10. 1500 mm to less than 1700 mm	457 mm	325 mm	175 mm	550 mm
11. 1700 mm to less than 1800 mm	508 mm	350 mm	175 mm	650 mm
12. 1800 mm to less than 2000 mm	600 mm	380 mm	225 mm	775 mm
13. 2000 mm to less than 2100 mm	750 mm	410 mm	275 mm	
14. 2100 mm to less than 2300 mm	875 mm	440 mm	350 mm	
15. 2300 mm to less than 2400 mm			350 mm	
16. 2400 mm to less than 2600 mm			375 mm	
17. 2600 mm to less than 2700 mm			425 mm	
18. 2700 mm to less than 2900 mm			475 mm	
19. 2900 mm to less than 3000 mm			525 mm	