

Table 9.29.: Various Locations and Extension of Fire Protection Systems				
LOCATION/ HAZARD	SYSTEM REQUIREMENTS			
K. ROOF	 Building roofs having LPG tanks, roof spaces used for restaurant seating, assembly and as sheesha bars shall be provided with a wet riser System as per Section 3.4. The building wet riser with hose reel shall be extended to such roofs. 			
L. GARBAGE CHUTE	 A garbage chute shaft shall be provided with one sprinkler head at the top of the shaft, one sprinkler head at alternating floors and one sprinkler head at the lowest level, as per Section 3.5. 			
M. CEILINGS EXCEEDING 10 M IN HEIGHT	 i. Where building ceiling height exceeds 10 m in height, sprinklers shall be provided in accordance with Section 3.5 and Table 9.29.A. High Ceiling Sprinkler Protection. ii. The sprinklers for high ceiling protection shall be extended coverage, 160°F (70°c), listed and approved for such applications. iii. The requirements of Table 9.29.A. High Ceiling Sprinkler Protection, is a minimum guideline. Other design criteria recommended by approved and listed manufacturer's detailed design guideline specifically for high ceiling sprinkler protection shall be permitted. 			

Table 9.29.A.: High Ceiling Sprinkler Protection Design Criteria				
HAZARD	CEILING HEIGHT 10 m TO 13.5 m	CEILING HEIGHT 13.5 m TO 18 m	CEILING HEIGHT 18 m TO 30 m	
1. LIGHT HAZARD	K-factor- K11.2 (K160)	K-factor- K11.2 (K160)	K-factor- K25.2 (K360)	
	Min Pressure 12 psi (0.8 bar)	Min Pressure 18 psi (1.2 bar)	Min Pressure 7 psi (0.5 bar)	
	Min No of Sprinklers- 06	Min No of Sprinklers 04	Min No of Sprinklers 12	
	Design Density gpm/ft ² (mm/m ²) 0.20 (8.0)	Design Density gpm/ft ² (mm/m ²) 0.20 (8.0)	Pump Capacity Without hydrant- 1000 gpm	
	Design area ft ² (m ²) 2500 (230)	Design area ft ² (m ²) 2500 (230)	With hydrants-1250 gpm	
	Pump Capacity Without hydrant-750 gpm With hydrants-1000 gpm	Pump Capacity Without hydrant-750 gpm With hydrants-1000 gpm		
2. ORDINARY HAZARD	K-factor- K11.2 (K160)	K-factor- K11.2 (K160)	K-factor- K25.2 (K360)	
	Min Pressure 12 psi (0.8 bar)	Min Pressure 18 psi (1.2 bar)	Min Pressure 7 psi (0.5 bar)	
	Min No of Sprinklers 06	Min No of Sprinklers 04	Min No of Sprinklers 12	
	Design Density gpm/ft² (mm/m²) 0.20 (8.0)	Design Density gpm/ft ² (mm/m ²) 0.20 (8.0)	Pump Capacity Without hydrant- 1000 gpm	
	Design area ft ² (m ²) 2500 (230)	Design area ft ² (m ²) 2500 (230)	With hydrants-1250 gpm	
	Pump Capacity Without hydrant-750 gpm With hydrants-1000 gpm	Pump Capacity Without hydrant-750 gpm With hydrants-1000 gpm		

