4.7. Villa Fire Protection Systems

4.7.1. Private and Commercial Villas shall be provided with Fire protection Systems in compliance with Table 9.23. and Auxiliary Rooms Fire Protection Systems, if any, shall be as per Table 9.30.

Table 9.23.: Private and Commercial Villa Fire Protection Systems		
OCCUPANCY	SYSTEM REQUIREMENTS	FIRE PUMP AND FIRE WATER TANK CAPACITIES
A. PRIVATE VILLA	Though it is not mandatory, it is highly recommended to consider providing automatic sprinklers throughout private villas irrespective of built-up area.	 1.a. Domestic type and residential type sprinkler systems, with domestic water tank are acceptable. 1.b. Fire Pump and/or Fire water tank shall be permitted to be installed on the roof, if structure is capable of accommodating such additional load.
	 2. IF GROUND FLOOR BUILT-UP AREA IS MORE THAN 1500 m² i. Sprinklers shall be provided throughout the building including basements (open as well as closed) as per Section 3.5. ii. Hose Reel System shall be provided throughout the basement and ground floor as per Section 3.3. iii. Dry landing valves and risers shall not be required. iv. For Commercial developments, Fire Pump Room and Fire water tank are developer's responsibility and shall be provided at developer's facility management service block or areas. 	2. IF GROUND FLOOR BUILT-UP AREA IS MORE THAN 1500 m ² v. The capacity of the fire pump set shall be 250 gpm at pressure as required to satisfy 4.5 bar at the most remote Hose reel outlet valve. vi. The water tank shall have capacity of 30 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.
	 3. IF BASEMENT FLOOR BUILT-UP AREA IS MORE THAN 1500 m² i. Sprinklers shall be provided throughout the basements (open as well as closed) as per Section 3.5. ii. Hose Reel System shall be provided throughout the basement and ground floor as per Section 3.3. iii. Dry landing valves and risers shall not be required. iv. For Commercial developments, Fire Pump Room and Fire water tank are developer's responsibility and shall be provided at developer's facility management service block or areas. 	 3. IF BASEMENT FLOOR BUILT-UP AREA IS MORE THAN 1500 m² v. The capacity of the fire pump set shall be 250 gpm at pressure as required to satisfy 4.5 bar at the most remote Hose reel outlet valve. vi. The water tank shall have capacity of 30 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.

