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## 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, if any, Fire Protection Systems as per Table 9.30.

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Table 9.23.: Private and Commercial Villa Fire Protection Systems		
OCCUPANCY	SYSTEM REQUIREMENTS	FIRE PUMP AND FIRE WATER TANK CAPACITIES
B. COMMERCIAL VILLA	Though it is not mandatory, it is highly recommended to consider providing automatic sprinklers throughout the villas irrespective of built-up area.	1.a. Domestic type and residential type sprinkler systems shall be permitted.
	2. ALL COMMERCIAL VILLA  DEVELOPMENTS HAVING PLOT AREA  OF 20,000 m <sup>2</sup> OR MORE	2. ALL COMMERCIAL VILLA  DEVELOPMENTS HAVING PLOT AR- EA OF 20,000 m <sup>2</sup> OR MORE
	i. Yard Fire Hydrants shall be provided as per Section 3.11.	<ul> <li>ii. The capacity of the fire pump set shall be 1000 gpm at pressure as required to satisfy 6.9 bar at the most remote hydrant outlet valve.</li> <li>iii. The water tank shall have a capacity of 60 minutes of operation, complete with low water level detection, dedicated direct breeching inlet and instantaneous refilling arrangement.</li> </ul>
	3. IF GROUND FLOOR BUILT-UP AREA OF COMMERCIAL VILLA IS MORE THAN 1500 m <sup>2</sup>	3. IF GROUND FLOOR BUILT-UP AREA OF COMMERCIAL VILLA IS MORE THAN 1500 m <sup>2</sup>
	<ul> <li>i. Sprinklers shall be provided throughout the building including basements (open as well as closed) as per Section 3.5.</li> <li>ii. Hose Reel System shall be provided throughout the basement and ground floor as per Section 3.3.</li> <li>iii. Dry landing valves and risers shall not be required.</li> <li>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.</li> </ul>	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. vii. Where infrastructure yard hydrants are provided, the required villa sprinkler system shall be permitted to be fed by the yard hydrant pumpset and water.
	4. IF BASEMENT FLOOR BUILT-UP AREA IS MORE THAN 1500 m <sup>2</sup>	4. IF BASEMENT FLOOR BUILT-UP AR- EA IS MORE THAN 1500 m <sup>2</sup>
	<ul> <li>i. Sprinklers shall be provided throughout the basements (open as well as closed) as per Section 3.5.</li> <li>ii. Hose Reel System shall be provided throughout the basement and ground floor as per Section 3.3.</li> <li>iii. Dry landing valves and risers shall not be required.</li> <li>iv. For Commercial developments, Fire Pump Room and Fire water tank are</li> </ul>	<ul> <li>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.</li> <li>vi. The water tank shall have capacity of 30 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.</li> </ul>
CDGH_OP_25	developer's responsibility and shall be provided at developer's facility manage-	UAE FIRE & LIFE

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