4.8. Parking Facilities Fire Protection Systems

4.8.1. Parking facilities shall be provided with fire protection systems in compliance with Table 9.24. and Auxiliary Rooms Fire Protection Systems as per Table 9.30.

Table 9.24.: Parking Facility Fire Protection Systems		
OCCUPANCY	SYSTEM REQUIREMENTS	FIRE PUMP AND FIRE WATER TANK CAPACITIES
A. PARKING GROUP A, ENCLOSED PARKING STRUCTURE	1. IF BUILT-UP GROUND FLOOR AREA IS UP TO 900 M² AND STRUCTURE HEIGHT IS UP TO 15 M (LOWRISE) i. A dry riser + Hose Reel System shall be provided throughout the building as per Section 3.2. and Section 3.3. ii. Dry risers shall be interconnected at the highest level.	1. IF BUILT-UP GROUND FLOOR AREA IS UP TO 900 M² AND STRUCTURE HEIGHT IS UP TO 15 M (LOWRISE) iii. The capacity of the fire pump set shall be 50 gpm at a pressure as required to satisfy 4.5 bar at the most remote Hose reel outlet valve. iv. The water tank shall have a capacity of 30 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.
	2. IF BUILT-UP GROUND FLOOR AREA IS 901 M ² TO 3600 M ² AND STRUCTURE HEIGHT IS UP TO 15 M (LOWRISE)	2. IF BUILT-UP GROUND FLOOR AREA IS 901 M ² TO 3600 M ² AND STRUC- TURE HEIGHT IS UP TO 15 M (LOWRISE)
	 i. Sprinklers shall be provided throughout the parking structure as per Section 3.5. ii. Auxiliary rooms and various areas of the building shall be protected as per Table 9.30. iii. A dry riser + Hose Reel System shall be provided throughout the building as per Section 3.2. and Section 3.3. iv. Dry risers shall be interconnected at the highest level. 	 v. The capacity of the fire pump set shall be 300 gpm at a pressure as required to satisfy 4.5 bar at the most remote Hose valve. vi. The water tank shall have a capacity of 30 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.
	3. IF BUILT-UP GROUND FLOOR AREA IS MORE THAN 3600 M ² OR STRUCTURE HEIGHT EXCEEDS 15 M (MIDRISE AND ABOVE)	3. IF BUILT-UP GROUND FLOOR AREA IS MORE THAN 3600 M ² OR STRUC- TURE HEIGHT EXCEEDS 15 M (MIDRISE AND ABOVE)
	 i. Sprinklers shall be provided throughout the Parking structure as per Section 3.5. ii. Auxiliary rooms and various areas of the building shall be protected as per Table 9.30. iii. A wet riser System shall be provided throughout the building as per Section 3.4. iv. Wet risers shall be interconnected at the highest level. 	 v. The capacity of the fire pump set shall be 750 gpm if there are 2 standpipes, 1000 gpm if there are more than 3 standpipes at a pressure as required to satisfy 6.9 bar at the most remote landing valve. vi. The water tank shall have capacity of 60 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.

