

Table 9.27.: Storage, Warehouse and Industrial Fire Protection Systems		
PREDOMI- NANT	SYSTEM REQUIREMENTS	COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
OCCUPANCY		
M. WAREHOUSE PLASTIC, RUBBER,	1. IF TOTAL BUILT-UP GROUND FLOOR AREA OF THE COMPARTMENT IS LESS THAN 230 m ²	1. IF TOTAL BUILT-UP GROUND FLOOR AREA OF THE COMPARTMENT IS LESS THAN 230 m ²
	 i. Hose Reel System shall be provided throughout the building as per Section 3.3. ii. Dry landing valves and risers shall not be required. 	 iii. The fire pump capacity shall be 50 gpm at a pressure of 4.5 bar available at the remote Hose reel valve. iv. The water tank shall have a capacity of 60 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.
	2. IF TOTAL BUILT-UP GROUND FLOOR AREA OF THE COMPARTMENT IS 230 m ² —900 m ²	2. IF TOTAL BUILT-UP GROUND FLOOR AREA OF THE COMPARTMENT IS 230 m ² —900 m ²
	 i. Sprinklers shall be provided throughout the facility as per Section 3.5. ii. The sprinkler design density shall be as per storage height and storage arrangement, in accordance with 9.7.X., 9.7.DD.,and 9.7.EE. iii. Hose Reel System shall be provided throughout the building as per Section 3.3. Dry landing valves are not required. 	 iv. The capacity of the fire pump set shall be as per storage height and storage arrangement, in accordance with 9.7.X., 9.7.DD., and 9.7.EE. at a pressure as required to satisfy 4.5 bar at the most remote Hose reel valve. v. The water tank shall have a capacity of 60 minutes of operation, complete with low water level detection, direct breeching inlet and instantaneous refilling arrangement.
	3. IF TOTAL BUILT-UP GROUND FLOOR AREA IS 901 m ² - 3600 m ²	3. IF TOTAL BUILT-UP GROUND FLOOR AREA IS 901 m ² - 3600 m ²
	 i. Sprinklers shall be provided throughout the facility as per Section 3.5. ii. The sprinkler design density shall be as per storage height and storage arrangement, in accordance with 9.7.X., 9.7.DD.,and 9.7.EE. iii. Hose Reel System shall be provided throughout the building as per Section 3.3. Dry landing valves are not required. 	 iv. The capacity of the fire pump set shall be as per storage height and storage arrangement, in accordance with 9.7.X., 9.7.DD.,and 9.7.EE. at a pressure as required to satisfy 4.5 bar at the most remote hose reel valve. v. The water tank shall have a capacity of 90 minutes of operation, complete with low water level detection, direct breeching inlet and instantaneous refilling arrangement.
	4. IF SUM OF ALL GROUND FLOOR BUILT-UP AREAS IS MORE THAN 3600 m ²	4. IF SUM OF ALL GROUND FLOOR BUILT -UP AREAS IS MORE THAN 3600 m ²
	 i. Sprinklers shall be provided throughout the facility as per Section 3.5. ii. The sprinkler design density shall be as per storage height and storage arrangement, in accordance with 9.7.X., 9.7.DD., and 9.7.EE. iii. Yard Fire Hydrants shall be provided as per Section 3.11., in a loop to cover the entire facility. iv. Hose Reel System shall be provided throughout the building as per Section 3.3. v. A dry riser and wet riser System shall 	vi. The capacity of the fire pump set shall be as per storage height and storage arrangement, in accordance with 9.7.X., 9.7.DD.,and 9.7.EE. at a pressure as required to satisfy 6.9 bar at the most remote Hydrant valve. vii. The water tank shall have a capacity of 90 minutes of operation, complete with low water level detection, direct breeching inlet and instantaneous refilling arrangement.
	not be required.	UAE FIRE & LIFE

