

4.11. Storage, Warehouse and Industrial Facility Fire Protection Systems

4.11.1. Storage, warehouse and industrial facilities shall be provided with Fire protection Systems in compliance with Table 9.27. and auxiliary rooms fire protection systems as per Table 9.30. However, all warehouse and industrial sprinkler protection designers shall first consider and consult the relevant Material Safety Data Sheet (MSDS) before designing and proposing the sprinkler system.

Table 9.27.: Storage, Warehouse and Industrial Fire Protection Systems		
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PREDOMI- NANT	SYSTEM REQUIREMENTS	COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
OCCUPANCY		
A. MULTI TENANT WAREHOUSE	1. IF TOTAL BUILT-UP GROUND FLOOR AREA IS LESS THAN 900 m ² AND EACH INDIVIDUAL UNIT COMPARTMENT AREA IS LESS THAN 230 m ²	1. IF TOTAL BUILT-UP GROUND FLOOR AREA IS LESS THAN 900 m ² AND EACH INDIVIDUAL UNIT COMPARTMENT AR- EA IS LESS THAN 230 m ²
AND FACTORIES FOR RENTAL PURPOSE (LIMITED TO LIGHT	 i. Hose Reel System shall be provided throughout the building as per Section 3.3. ii. Hose Reel System shall be extended to mezzanine levels, if any. iii. Dry landing valves and risers shall not be required. 	 iv. 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. v. The water tank shall have a capacity of 30 minutes of operation, complete with low water level detection and instanta-
HAZARD MATERIALS AS PER SECTION	2. IF TOTAL BUILT-UP GROUND FLOOR AREA IS MORE THAN 900 m² OR ANY INDIVIDUAL UNIT COMPARTMENT AREA IS 230 m² –UP TO 900 m² i. Sprinklers shall be provided throughout	neous refilling arrangement. 2. IF TOTAL BUILT-UP GROUND FLOOR AREA IS MORE THAN 900 m² OR ANY INDIVIDUAL UNIT COMPARTMENT AR- EA IS 230 m²-UP TO 900 m²
1.1.23, TABLE 9.1 AND LIGHT HAZARD ACTIVITY AS PER SECTION 1.1.24,	the facility as per Section 3.5. ii. The sprinkler design density shall be 0.15 gpm with area of sprinkler operation of 1500 ft² (140 m²). iii. Hose Reel System shall be provided throughout the building as per Section 3.3. iv. Dry landing valves and risers shall not be	 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 45 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.
TABLE 9.2.)	required. 3. IF INDIVIDUAL COMPARTMENT OR UNIT AREA IS MORE THAN 900 m ²	3. IF INDIVIDUAL COMPARTMENT OR UNIT AREA IS MORE THAN 900 m ²
	 i. Sprinklers shall be provided throughout the facility as per Section 3.5. ii. The sprinkler design density shall be 0.15 gpm with area of sprinkler operation of 1500 ft² (140 m²). iii. Hose Reel System shall be provided throughout the building as per Section 3.3. 	 iv. The capacity of the fire pump set shall be 250 gpm 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, dedicated 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. Sprinkler design density shall be 0.15 gpm with area of sprinkler operation of 1500 ft² (140 m²). 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 	 vi. The capacity of the fire pump set shall be 750 gpm at a pressure as required to satisfy 6.9 bar at the most remote Hydrant valve. vii. The water tank shall have capacity of 60 minutes of operation, complete with low water level detection, dedicated direct breeching inlet and instantaneous refilling arrangement.
CDGH-OP-25 Se	3.3. v. Wet risers and internal landing valves ptemsคลุปสาดูt be required. Page 724 of 1348	UAE FIRE & LIFE SAFETY CODE OF PRACTICE UNITO AAA EMIRATES MINISTER OF INTERIOR