

Table 9.27.: Storage, Warehouse and Industrial Fire Protection Systems		
PREDOMI- NANT OCCUPANCY	SYSTEM REQUIREMENTS	COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
F. SINGLE TENANT WAREHOUSE AND FACTORIES  (LIMITED TO LIGHT HAZARD MATERIALS AS PER SECTION 1.1.23, TABLE 9.1 AND LIGHT HAZARD ACTIVITY AS PER SECTION 1.1.24, TABLE 9.2.)	<ol> <li>IF TOTAL BUILT-UP GROUND FLOOR AREA IS LESS THAN 900 m²</li> <li>Hose Reel System shall be provided throughout the building as per Section 3.3.</li> <li>Dry landing valves and risers shall not be required.</li> <li>IF TOTAL BUILT-UP GROUND FLOOR AREA IS 900 m²—3600 m²</li> <li>Sprinklers shall be provided throughout the facility as per Section 3.5.</li> <li>The sprinkler design density shall be 0.15 gpm with area of sprinkler operation of 1500 ft² (140 m²).</li> <li>Hose Reel System shall be provided throughout the building as per Section 3.3. No dry landing valves required.</li> </ol>	1. IF TOTAL BUILT-UP GROUND FLOOR AREA IS LESS THAN 900 m²  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 45 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.  2. IF TOTAL BUILT-UP GROUND FLOOR AREA IS 900 m²—3600 m²  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 outlet valve.  v. The water tank shall have a capacity of 60 minutes of operation, dedicated direct breeching inlet complete with low water level detection, dedicated direct breeching inlet and instantaneous refilling arrangement.
	<ul> <li>3. IF SUM OF ALL GROUND FLOOR BUILT-UP AREAS IS MORE THAN 3600 m²</li> <li>i. Sprinklers shall be provided throughout the facility as per Section 3.5.</li> <li>ii. Sprinkler design density shall be 0.15 gpm with an area of sprinkler operation of 1500 ft² (140 m²).</li> <li>iii. Yard Fire Hydrants shall be provided as per Section 3.11., in a loop to cover the entire facility.</li> <li>iv. Hose Reel System shall be provided throughout the building as per Section 3.3.</li> <li>v. Wet risers and internal landing valves shall not be required.</li> </ul>	<ul> <li>3. IF SUM OF ALL GROUND FLOOR BUILT         -UP AREAS IS MORE THAN 3600 m<sup>2</sup></li> <li>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 landing valve.</li> <li>vii. 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>

