

## Table 9.27.: Storage, Warehouse and Industrial Fire Protection Systems

Table 3.27 Storage, warehouse and madstriar me i rotection systems		
PREDOMI- NANT OCCUPANCY	SYSTEM REQUIREMENTS	COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
N. WAREHOUSE TIRES	1. IF TOTAL BUILT-UP FLOOR AREA OF THE COMPARTMENT IS LESS THAN 230 m <sup>2</sup>	1. IF TOTAL BUILT-UP FLOOR AREA OF THE COMPARTMENT IS LESS THAN 230 m <sup>2</sup>
	<ul> <li>i. Hose Reel System shall be provided throughout the building as per and Section 3.3.</li> <li>ii. Dry landing valves and risers shall not be required.</li> </ul>	<ul> <li>iii. The fire pump capacity shall be 50 gpm at a pressure of 4.5 bar available at the remote Hose reel valve.</li> <li>iv. The water tank shall have a capacity of 45 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.</li> </ul>
	2. IF TOTAL BUILT-UP FLOOR AREA OF THE COMPARTMENT IS 230 m <sup>2</sup> —900 m <sup>2</sup>	2. IF TOTAL BUILT-UP FLOOR AREA OF THE COMPARTMENT IS 230 m <sup>2</sup> —900 m <sup>2</sup>
	<ul> <li>i. Sprinklers shall be provided throughout the facility as per Section 3.5.</li> <li>ii. The sprinkler design density shall be as per storage height and storage arrangement, in accordance with Table 9.7.FF.</li> <li>iii. Hose Reel System shall be provided throughout the building as per Section 3.3. Dry landing valves are not required.</li> </ul>	<ul> <li>iv. The capacity of the fire pump set shall be as per storage height and storage arrangement, in accordance with Table 9.7.FF. at a pressure as required to satisfy 4.5 bar at the most remote Hose reel valve.</li> <li>v. The water tank shall have a capacity of 60 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.</li> </ul>
	3. IF TOTAL BUILT-UP FLOOR AREA IS 901 m <sup>2</sup> - 3600 m <sup>2</sup>	3. IF TOTAL BUILT-UP FLOOR AREA IS 901 m <sup>2</sup> - 3600 m <sup>2</sup>
	<ul> <li>i. Sprinklers shall be provided throughout the facility as per Section 3.5.</li> <li>ii. The sprinkler design density shall be as per storage height and storage arrangement, in accordance with Table 9.7.FF.</li> <li>iii. Hose Reel System shall be provided throughout the building as per Section 3.3. Dry landing valves are not required.</li> </ul>	<ul> <li>iv. The capacity of the fire pump set shall be as per storage height and storage arrangement, in accordance with Table 9.7.FF. at a pressure as required to satisfy 4.5 bar at the most remote hose reel valve.</li> <li>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.</li> </ul>
	4. IF SUM OF ALL GROUND FLOOR BUILT-UP AREAS IS MORE THAN 3600 m <sup>2</sup>	4. IF SUM OF ALL GROUND FLOOR BUILT- UP AREAS IS MORE THAN 3600 m <sup>2</sup>
	<ul> <li>i. Sprinklers shall be provided throughout the facility as per Section 3.5.</li> <li>ii. The sprinkler design density shall be as per storage height and storage arrangement, in accordance with Table 9.7.FF.</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. A dry riser and wet riser System shall not be required.</li> </ul>	vi. The capacity of the fire pump set shall be as per storage height and storage arrangement, in accordance with <b>Table 9.7.FF.</b> 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.