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

PREDOMINANT OCCUPANCY	SYSTEM REQUIREMENTS	COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
K. WAREHOUSE **IDLE WOODEN AND PLASTIC PALLETS**	**1. IF TOTAL BUILT-UP GROUND FLOOR AREA IS LESS THAN 900 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. **2. IF TOTAL BUILT-UP GROUND FLOOR AREA IS 900 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 arrangement, in accordance with **Table 9.7.G., P.7.H., 9.7.I., Table 9.7.J., Table 9.7.K., Table 9.7.L.** iii. Hose Reel System shall be provided throughout the building as per **Section 3.3.** Dry landing valves shall not be required. **3. 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 arrangement, in accordance with **Table 9.7.G., P.7.H., 9.7.I., Table 9.7.J., Table 9.7.K., Table 9.7.L.** 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 not be required.	**1. IF TOTAL BUILT-UP GROUND FLOOR AREA IS LESS THAN 900 m^2** iii. The fire pump capacity shall be 50 gpm at pressure of 4.5 bar available at the remote Hose reel valve. iv. Water tank shall have 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 m^2 - 3600 m^2** iv. The capacity of the fire pump set shall be as per storage height and arrangement, in accordance with **Table 9.7.G., P.7.H., 9.7.I., Table 9.7.J., Table 9.7.K., Table 9.7.L.,** at pressure as required to satisfy 4.5 bar at the most remote hose reel valve. v. 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. **3. IF SUM OF ALL GROUND FLOOR BUILT-UP AREAS IS MORE THAN 3600 m^2** vi. The capacity of the fire pump set shall be as per storage height and arrangement, in accordance with **Table 9.7.G., P.7.H., 9.7.I., Table 9.7.J., Table 9.7.K., Table 9.7.L.,** at 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.