

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

OCCUPANCY	SYSTEM REQUIREMENTS	COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
U. OPEN YARD STORAGE OF MATERIALS OTHER THAN FLAMMABLE AND COMBUSTIBLE MATERIALS	1. IF TOTAL OPEN STORAGE YARD IS LESS THAN 2000 m² AND STORING LIGHT HAZARD MATERIALS AS PER SECTION 1.1.23., AND TABLE 9.1.	
	i. Fire extinguishers as per Chapter 4.	
	2. IF TOTAL OPEN STORAGE YARD IS MORE THAN 2000 m² AND STORING LIGHT HAZARD MATERIALS AS PER SECTION 1.1.23., AND TABLE 9.1.	2. IF TOTAL OPEN STORAGE YARD IS MORE THAN 2000 m² AND STORING LIGHT HAZARD MATERIALS AS PER SECTION 1.1.23., AND TABLE 9.1.
	i. Hose Reel System shall be provided throughout the building as per Section 3.3. Dry landing valves are not required. ii. Equipment and cabinet shall be approved for outdoor door application.	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 30 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.
	3. IF TOTAL OPEN STORAGE YARD IS MORE THAN 1000 m² AND STORING MATERIALS OTHER THAN LIGHT HAZARD MATERIALS AS PER SECTION 1.1.23., AND TABLE 9.1.	3. IF TOTAL OPEN STORAGE YARD IS MORE THAN 1000 m² AND STORING MATERIALS OTHER THAN LIGHT HAZARD MATERIALS AS PER SECTION 1.1.23., AND TABLE 9.1.
	i. Hose Reel System shall be provided throughout the building as per Section 3.3. Dry landing valves are not required. ii. The equipment and cabinet shall be approved for outdoor door application.	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 30 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.
	4. IF TOTAL OPEN STORAGE YARD IS MORE THAN 3600 m² AND STORING ANY MATERIALS, OTHER THAN FLAMMABLE AND COMBUSTIBLE MATERIALS	4. IF TOTAL OPEN STORAGE YARD IS MORE THAN 3600 m² AND STORING ANY MATERIALS, OTHER THAN FLAMMABLE AND COMBUSTIBLE MATERIALS
	i. Yard hydrant shall be provided as per Section 3.11 , in loop to cover the entire facility. ii. Trolley type foam extinguishers shall be provided for the outdoor emergencies. iii. The equipment and cabinet shall be approved for outdoor door application. iv. Hose reel system or landing valves shall not be required.	v. The fire pump capacity shall be 500 gpm at a pressure of 6.9 bar available at the most remote hydrant valve. vi. 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.
V. NURSERIES (PLANTS AND VEGETATION)	i. Fire extinguishers as per Chapter 4.	