

CDGH-OP-25 | September 2000 gired.

Table 9.27.: Storage, Warehouse and Industrial Fire Protection Systems **OCCUPANCY** SYSTEM REQUIREMENTS COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES 1. IF TOTAL BUILT-UP FLOOR AREA OF THE IF TOTAL BUILT-UP FLOOR AREA OF **R. WAREHOUSE COMPARTMENT IS LESS THAN 230 m** THE COMPARTMENT IS LESS THAN 230 **FOR INDOOR** m² STORAGE OF i. Hose Reel System shall be provided **FLAMMABLE** throughout the building as per Section 3.3. ii. The fire pump capacity shall be 50 gpm ii. Dry landing valves and risers shall not be at pressure of 4.5 bar available at the **AND COM**required. most remote hose reel valve. **BUSTIBLE** iii. The water tank shall have capacity of LIQUIDS 45 minutes of operation, complete with low water level detection and instanta-**AND** neous refilling arrangement. **AEROSOLS** 2. IF TOTAL BUILT-UP FLOOR AREA OF THE IF TOTAL BUILT-UP FLOOR AREA OF **COMPARTMENT IS** THE COMPARTMENT IS 231 m²—900 231 m²—900 m³ m² i. Sprinklers shall be provided throughout iv. The capacity of the fire pump set shall the facility as per Section 3.5. or Foam be as per storage configuration and Sprinklers shall be provided throughout as storage arrangement, in accordance with 9.7.HH. 9.7.II. 9.7.JJ. and 9.11.B per Section 3.9. ii. The design criteria shall be as per storage at a pressure as required to satisfy 4.5 height and storage arrangement, in acbar at the most remote Hose reel valve. cordance with Table 9.7.HH, 9.7.II, 9.7.JJ, v. The water tank shall have a capacity of **9.11.B**, and in-rack arrangement as per 120 minutes of operation, complete Table 9.7.KK with low water level detection, direct iii. Hose Reel System shall be provided breeching inlet and instantaneous rethroughout the building as per Section 3.3. filling arrangement. Dry landing valves shall not be required. vi. The foam solution reserve shall be for 15 minutes operation. 3. IF TOTAL BUILT-UP FLOOR AREA IS 3. IF TOTAL BUILT-UP FLOOR AREA IS 901 m² - 3600 m² 901 m² - 3600 m² i. Sprinklers shall be provided throughout iv. The capacity of the fire pump set shall the facility as per Section 3.5. or foam be as per storage configuration and sprinkler shall be provided throughout as storage arrangement, in accordance per Section 3.9. with **9.7.HH. 9.7.II. 9.7.JJ. 9.11.B.,** at a ii. The design criteria shall be as per storage pressure as required to satisfy 6.9 bar height and storage arrangement, in acat the most remote hose reel valve. cordance with Table 9.7.HH, 9.7.II, 9.7.JJ, The water tank shall have a capacity of **9.11.B.**, and in-rack arrangement as per 120 minutes of operation, complete Table 9.7.KK with low water level detection, direct iii. Hose Reel System shall be provided breeching inlet and instantaneous rethroughout the building as per Section 3.3. filling arrangement. Dry landing valves shall not be required. vi. The foam solution reserve shall be for 15 minutes operation. 4. IF SUM OF ALL GROUND FLOOR BUILT-UP 4. IF SUM OF ALL GROUND FLOOR BUILT-AREAS IS MORE THAN 3600 m² UP AREAS IS MORE THAN 3600 m² Sprinklers shall be provided throughout The capacity of the fire pump set shall the facility as per **Section 3.5.** or Foam be as per storage configuration and Sprinkler shall be provided throughout as storage arrangement, in accordance with 9.7.HH. 9.7.II. 9.7.JJ. 9.11.B., at a per Section 3.9. ii. The design criteria shall be as per storage pressure as required to satisfy 6.9 bar height and storage arrangement, in acat the most remote Hydrant Valve. cordance with Table 9.7.HH, 9.7.II, 9.7.JJ, vii. The water tank shall have a capacity **9.11.B., 9.** and in-rack arrangement as per of 120 minutes of operation, complete Table 9.7.KK with low water level detection, direct iii. Yard Fire Hydrants shall be provided as per breeching inlet and instantaneous reection 3.11., in a loop to cover the entire filling arrangement. facility. Where foam sprinklers are providviii. The foam solution reserve shall be for ed, hydrant system shall also incorporate 15 minutes operation. foam discharge. 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 **UAE FIRE & LIFE**

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