

Table 20.5.: Marinas Fire Protection Systems

OCCUPANCY	SYSTEM REQUIREMENTS	COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
3. TERMINAL YARD	<ul style="list-style-type: none"> i. Yard hydrant system shall be provided along the wharves and piers as per Chapter 9. Section 3.11. ii. No area shall be in excess of 60 m from a yard hydrant. iii. Hydrant network shall be looped in accordance with Chapter 9. Section 3.11. iv. There shall be a minimum of 4 breeching inlets distributed along the fire access road, feeding the looped hydrant network. v. Trolley type foam fire extinguishers shall be provided along the piers and wharves at 120 m intervals. vi. The equipment and cabinet shall be approved for outdoor application. 	<ul style="list-style-type: none"> i. The capacity of the fire pump set for hydrant system shall be 1000 gpm at a pressure as required to satisfy 6.9 bar at the most remote hydrant valve. ii. The water tank shall have a capacity of 120 minutes of operation, with supplementary refilling arrangement for additional 120 minutes, complete with low water level detection and instantaneous refilling arrangement.
4. TERMINAL BUILDINGS 5. REPAIR AND MAINTENANCE BUILDINGS	<p><u>1. BUILDINGS STORING BOATS ON RACKS OR BUILDINGS HAVING A BUILT UP-AREA OF MORE THAN 465 m²</u></p> <ul style="list-style-type: none"> i. Automatic sprinklers shall be provided in all buildings as per Chapter 9. Section 3.5. ii. The sprinkler design density shall be 0.30 gpm with area of sprinkler operation of 2500 ft² (232 m²). iii. Wet riser + Hose reel system shall be provided throughout the building, as per Chapter 9. Section 3.4. where yard hydrant system is not provided. <p><u>2. BUILDINGS HAVING A BUILT UP-AREA OF MORE THAN 3600 m²</u></p> <ul style="list-style-type: none"> i. Automatic sprinklers shall be provided in all buildings as per Chapter 9. Section 3.5. ii. The sprinkler design density shall be 0.30 gpm with area of sprinkler operation of 2500 ft² (232 m²). iii. Yard hydrant system shall be provided along the wharves and piers as per Chapter 9. Section 3.11. iv. Wet riser system or hose reel system shall not be required. 	<p><u>1. BUILDINGS STORING BOATS ON RACKS OR BUILDINGS HAVING A BUILT UP-AREA OF MORE THAN 465 m²</u></p> <ul style="list-style-type: none"> i. The capacity of the fire pump set shall be 1000 gpm at pressure as required to satisfy 4.5 bar at the most remote hose reel outlet valve. ii. 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. <p><u>2. BUILDINGS HAVING A BUILT UP-AREA OF MORE THAN 3600 m²</u></p> <ul style="list-style-type: none"> i. The capacity of the fire pump set shall be 1250 gpm at pressure as required to satisfy 6.9 bar at the most remote hydrant outlet valve. ii. The water tank shall have a capacity of 90 minutes of operation, complete with low water level detection, dedicated direct breeching inlet and instantaneous refilling arrangement.