

4.6. Mall Fire Protection Systems

Table 9.22.: Mall Fire Protection Systems

PRE DOMINANT OCCUPAN- CY	SYSTEM REQUIREMENTS	COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
<p>B. OPEN MALL</p> <p>THE REQUIREMENT IS ONLY FOR OPEN CIRCULATION AREA AND NOT FOR TEN- ANT SPACES. TENANT SPACES SHALL COMPLY WITH OTHER APPLICABLE SECTIONS AS PER OCCUPANCY TYPES</p> <p>COMBINED FIRE PUMP SET AND FIRE WATER TANK FOR BOTH OPEN MALL CIRCULATION AREA AND THE TENANT BUILDING INTERNAL FIRE PROTECTION SYSTEM SHALL BE PERMITTED</p>	<p><u>1. IF TOTAL PLOT AREA IS UP TO 900 M²</u></p> <ul style="list-style-type: none"> i. Hose Reel System, exterior type, shall be provided throughout the open circu- lation area, along the fire access road, as per Section 3.3. ii. Dry landing valves and risers shall not be required. <p><u>2. IF TOTAL PLOT AREA IS MORE THAN 900 M² UPTO 2000 M²</u></p> <ul style="list-style-type: none"> i. Exterior Wet riser System shall be pro- vided throughout the open circulation area, along the fire access road and such that all tenant buildings are within 30 m of the hose outlet, as per Section 3.4. ii. Dry landing valves and risers shall not be required. iii. Minimum of 2 breeching inlets shall be provided at two separate locations along the fire access road. <p>OR</p> <ul style="list-style-type: none"> i. Yard Fire Hydrants shall be provided as per Table 9.22.B.3. ii. Wet risers shall not be required. iii. Yard hydrants, wet risers or hose reel system shall not be required where in- frastructure yard hydrants are available within 120 m of every exterior part of the tenant buildings. Tapping from ex- isting yard hydrant network shall be permitted to extend the yard hydrants to comply with coverage requirements. <p><u>3. IF PLOT AREA IS MORE THAN 2000 M²</u></p> <ul style="list-style-type: none"> i. Yard Fire Hydrants shall be provided as per Section 3.11. ii. Yard hydrants or wet risers shall not be required where infrastructure yard hy- drants are available within 120 m of every exterior part of the tenant build- ings. iii. Minimum of 2 breeching inlets shall be provided at two separate locations along the fire access road. iv. Wet risers and dry landing valves shall not be required. 	<p><u>1. IF TOTAL PLOT AREA IS UP TO 900 M²</u></p> <ul style="list-style-type: none"> iii. The capacity of the fire pump set shall be 50 gpm at a pressure as required to satisfy 4.5 bar at the most remote Hose reel outlet valve.. iv. The water tank shall have capacity of 30 minutes of operation, complete with low water level detection and instantaneous refilling arrangement. <p><u>2. IF TOTAL PLOT AREA IS MORE THAN 900 M² UPTO 2000 M²</u></p> <ul style="list-style-type: none"> iv. The capacity of the fire pump set shall be 750 gpm at a pressure as required to satisfy 6.9 bar at the most remote landing valve. v. The water tank shall have capacity of 60 minutes of operation, complete with low water level detection, dedi- cated direct breeching inlet and in- stantaneous refilling arrangement. vi. Where yard hydrant is considered, the capacity of the fire pump set shall be 1000 gpm at a pressure as required to satisfy 6.9 bar at the most remote hydrant outlet. vii. The water tank shall have capacity of 60 minutes of operation, complete with low water level detection, dedi- cated direct breeching inlet and in- stantaneous refilling arrangement. <p><u>3. IF PLOT AREA IS MORE THAN 2000 M²</u></p> <ul style="list-style-type: none"> v. The capacity of the fire pump set shall be 1000 gpm at a pressure as required to satisfy 6.9 bar at the most remote landing valve. vi. The water tank shall have capacity of 60 minutes of operation, complete with low water level detection, dedi- cated direct breeching inlet and in- stantaneous refilling arrangement.