

4.6. Mall Fire Protection Systems

Table 9.22.: Mall Fire Protection Systems

PREDOMINANT OCCUPANCY	SYSTEM REQUIREMENTS	COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
C. MIXED MALL (MERCANTILE DEVELOPMENTS WHERE COVERED MALL AND OPEN MALL ARE MIXED AND INTERMINGLE)	1. IRRESPECTIVE OF AREA OR FLOORS <ol style="list-style-type: none"> Sprinklers shall be provided throughout the enclosed buildings, retails, restaurants and service blocks including basements and podiums (open as well as closed) as per Section 3.5. Auxiliary rooms and various areas of the building shall be protected as per Table 9.30. A wet riser System shall be provided throughout the building as per Section 3.4. Wet risers shall be interconnected at the highest level. Yard Fire Hydrants shall be provided as per Section 3.11. Yard hydrants shall not be required where infrastructure yard hydrants are available within 120 m of every exterior part of the mall. Tapping from existing yard hydrant network shall be permitted to extend the yard hydrants to comply with coverage requirements. In this scenario, requirements of Table 9.22.3.xii. and xiii shall apply. A minimum of 2 breaching inlets shall be provided at two separate locations along the fire access road. Every tenant space shall be provided with an isolation valve to enable the isolation of the tenant areas from rest of the Mall, during repairs, renovation or maintenance. Enclosed supermarket storage areas, Hypermarket storage areas, large clothing storage areas and such enclosed storage hazards shall be provided with ESFR sprinklers as per relevant codes of this chapter. 	1. IRRESPECTIVE OF AREA OR FLOORS <ol style="list-style-type: none"> Where a fire pump set is combined and serves yard hydrants and internal building systems, the capacity of the fire pump set shall be 2000 gpm (irrespective of number of standpipes) at a pressure as required to satisfy 6.9 bar at the most remote landing valve. Where a fire pump set serves yard hydrants and internal building systems, the combined water tank shall have a capacity of 60 minutes of operation, complete with low water level detection and instantaneous refilling arrangement. Where a fire pump set serves only internal building systems, the capacity of the fire pump set shall be 1500 gpm (irrespective of number of standpipes) at a pressure as required to satisfy 6.9 bar at the most remote landing valve. Where a fire pump set serves only internal building systems, the water tank shall have a capacity of 60 minutes of operation, complete with low water level detection, dedicated direct breaching inlet and instantaneous refilling arrangement. Multiple breaching inlets shall be provided across the mall and along the fire access road.