

Table 9.28.: Tunnel Fire Protection Systems

OCCUPANCY	SYSTEM REQUIREMENTS	COMBINED FIRE PUMP SET AND FIRE WATER TANK CAPACITIES
B. ROAD/RAIL TUNNELS	<p><u>3. IF LENGTH OF THE TUNNEL IS MORE THAN 1000 m</u></p> <ul style="list-style-type: none"> i. An automatic deluge Water Spray system as per Section 3.8. OR an automatic water mist system, as per Section 3.10, shall be provided. ii. A Class III wet riser System shall be provided throughout the building as per Section 3.4. iii. Breeching inlets shall be provided at both openings of the tunnel. 	<p><u>3. IF LENGTH OF THE TUNNEL IS MORE THAN 1000 m</u></p> <ul style="list-style-type: none"> iii. The capacity of the fire pump set shall be sufficient to satisfy minimum of 2 adjacent deluge water spray system zones at a pressure as required to satisfy 6.9 bar at the most remote landing valve. iv. Where water mist is provided, the capacity of the fire pump set for water mist system shall be for a period of 1 hour and shall be as per the manufacturer's specifications and approved design and installation guideline. v. The water tank shall have a capacity of 60 minutes of operation, complete with low water level detection and instantaneous refilling arrangement.

