

Table 10.25.: Tunnel Smoke Management System Requirements

LOCATION	SYSTEM REQUIREMENTS
2. RAIL TUNNEL	<p>1. RAIL TUNNELS HAVING TOTAL LENGTH OF LESS THAN 90 m.</p> <ul style="list-style-type: none"> i. Natural ventilation in accordance with either Section 2.11. OR Section 2.15. shall be acceptable. ii. Natural ventilation utilizing the tunnel openings shall be acceptable. iii. A jet fan or mechanical ventilation system shall not be mandatory. <p>2. RAIL TUNNELS HAVING TOTAL LENGTH OF MORE THAN 90 m.</p> <ul style="list-style-type: none"> i. A jet fan system, in accordance with Section 2.14. shall be provided for the entire tunnel. OR a mechanical smoke purging system using dedicated ducting shall be provided in accordance with Section 2.13. ii. Other systems or combinations of systems shall be permitted, where justified by an engineering analysis and CFD modeling.
3. SERVICE TUNNEL	<p>1. SERVICE OR CABLE TUNNELS OF ANY LENGTH.</p> <ul style="list-style-type: none"> i. A mechanical ventilation system in accordance with Section 2.17., shall be provided. ii. Natural ventilation utilizing the tunnel openings shall be acceptable, where the tunnel length is less than 90 m. iii. A jet fan system, in accordance with Section 2.14. OR a mechanical smoke purging system using dedicated ducting, in accordance with Section 2.13. OR other systems or combinations of systems shall be permitted, where justified by an engineering analysis and CFD modeling.

