

Directive 2004/54/EC of the European Parliament and of the Council of 29 April 2004 on minimum safety requirements for tunnels in the trans-European road network

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Article 20	This Directive is addressed to the Member States.

ANNEX I

Safety measures as referred to in Article 3

1. Basis for deciding on safety measures
 - 1.1. Safety parameters
 - 1.1.1. Safety measures to be implemented in a tunnel shall be...
 - 1.1.2. The following parameters shall be taken into account:
 - 1.1.3. Where a tunnel has a special characteristic as regards the...
 - 1.2. Minimum requirements
 - 1.2.1. The safety measures required by the following paragraphs shall be...
 - 1.2.2. In order to provide a unified interface in all tunnels...
 - 1.3. Traffic volume

- 1.3.1. Where ' traffic volume ' is mentioned in this Annex,...
- 1.3.2. Where the number of heavy goods vehicles over 3,5 tonnes...
- 2. Infrastructure measures
 - 2.1. Number of tubes and lanes
 - 2.1.1. The main criteria for deciding whether to build a single...
 - 2.1.2. In any case, where, for tunnels at the design stage,...
 - 2.1.3. With the exception of the emergency lane, the same number...
 - 2.2. Tunnel geometry
 - 2.2.1. Special consideration shall be given to safety when designing the...
 - 2.2.2. Longitudinal gradients above 5 % shall not be permitted in...
 - 2.2.3. In tunnels with gradients higher than 3 %, additional and/or...
 - 2.2.4. Where the width of the slow lane is less than...
 - 2.3. Escape routes and emergency exits
 - 2.3.1. In new tunnels without an emergency lane, emergency walkways, elevated...
 - 2.3.2. In existing tunnels where there is neither an emergency lane...
 - 2.3.3. Emergency exits allow tunnel users to leave the tunnel without...
 - 2.3.4. Shelters without an exit leading to escape routes to the...
 - 2.3.5. Emergency exits shall be provided if an analysis of relevant...
 - 2.3.6. In any event, in new tunnels, emergency exits shall be...
 - 2.3.7. In existing tunnels longer than 1 000 metres, with a...
 - 2.3.8. Where emergency exits are provided, the distance between two emergency...
 - 2.3.9. Appropriate means, such as doors, shall be used to prevent...
 - 2.4. Access for emergency services
 - 2.4.1. In twin-tube tunnels where the tubes are at the same...
 - 2.4.2. Wherever geographically possible, crossing of the central reserve (median strip)...
 - 2.5. Lay-bys
 - 2.5.1. For new bi-directional tunnels longer than 1 500 metres where...

- 2.5.2. In existing bi-directional tunnels longer than 1 500 m with...
- 2.5.3. If the construction characteristics of the tunnel do not allow...
- 2.5.4. Lay-bys shall include an emergency station.
- 2.6. Drainage
 - 2.6.1. Where the transport of dangerous goods is permitted, the drainage...
 - 2.6.2. If in existing tunnels that requirement cannot be met or...
- 2.7. Fire resistance of structures
- 2.8. Lighting
 - 2.8.1. Normal lighting shall be provided so as to ensure appropriate...
 - 2.8.2. Safety lighting shall be provided to allow a minimum visibility...
 - 2.8.3. Evacuation lighting, such as evacuation marker lights, at a height...
- 2.9. Ventilation
 - 2.9.1. The design, construction and operation of the ventilation system shall...
 - 2.9.2. A mechanical ventilation system shall be installed in all tunnels...
 - 2.9.3. In tunnels with bi-directional and/or congested unidirectional traffic, longitudinal ventilation...
 - 2.9.4. Transverse or semi-transverse ventilation systems shall be used in tunnels...
 - 2.9.5. For tunnels with bi-directional traffic, with a traffic volume higher...
- 2.10. Emergency stations
 - 2.10.1. Emergency stations are intended to provide various items of safety...
 - 2.10.2. Emergency stations can consist of a box on the sidewall...
 - 2.10.3. Emergency stations shall be provided near the portals and inside...
- 2.11. Water supply
- 2.12. Road signs
- 2.13. Control centre
 - 2.13.1. A control centre shall be provided for all tunnels longer...
 - 2.13.2. Surveillance of several tunnels may be centralised at a single...

2.14. Monitoring systems

2.14.1. Video monitoring systems and a system able to automatically detect...

2.14.2. Automatic fire-detection systems shall be installed in all tunnels which...

2.15. Tunnel-closing equipment

2.15.1. In all tunnels longer than 1 000 metres, traffic signals...

2.15.2. Inside all tunnels longer than 3 000 metres, with a...

2.16. Communication systems

2.16.1. Radio re-broadcasting equipment for emergency service use shall be installed...

2.16.2. Where there is a control centre, it must be possible...

2.16.3. Shelters and other facilities where evacuating tunnel users must wait...

2.17. Power supply and electrical circuits

2.17.1. All tunnels shall have an emergency power supply capable of...

2.17.2. Electrical, measurement and control circuits shall be designed in such...

2.18. Fire resistance of equipment

2.19. Table displaying informative summary of minimum requirements

3. Measures concerning operations

3.1. Operating means

3.2. Emergency planning

3.3. Works in tunnels

3.4. Management of accidents and incidents

3.5. Activity of the control centre

3.6. Tunnel closure

3.7. Transport of dangerous goods

3.8. Overtaking in tunnels

3.9. Distances between vehicles and speed

4. Information campaigns

ANNEX II

Approval of the design, safety documentation, commissioning of a tunnel, modifications and periodic exercises

1. Approval of the design
 - 1.1. The provisions of this Directive shall be applied from the...
 - 1.2. Before any construction work begins, the Tunnel Manager shall compile...
 - 1.3. The design, as appropriate, shall be approved by the responsible...
2. Safety documentation
 - 2.1. The Tunnel Manager shall compile safety documentation for each tunnel...
 - 2.2. The safety documentation shall describe the preventive and safeguard measures...
 - 2.3. In particular, the safety documentation for a tunnel at the...
 - 2.4. The safety documentation for a tunnel which is at the...
 - 2.5. The safety documentation for a tunnel which is in operation...
3. Commissioning
 - 3.1. The initial opening of a tunnel to public traffic shall...
 - 3.2. This procedure also applies to the opening of a tunnel...
 - 3.3. The Tunnel Manager shall transmit the safety documentation mentioned in...
 - 3.4. The Tunnel Manager shall forward this safety documentation to the...
4. Modifications
 - 4.1. For any substantial modification in the structure, equipment or operation,...
 - 4.2. The Tunnel Manager shall inform the Safety Officer of any...
 - 4.3. The Safety Officer shall examine the consequences of the modification...
5. Periodic exercises

ANNEX III

Signing for tunnels

1. General requirements
 - 1.1. Road signs shall be used to designate the following safety...

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- 1.2. Radio:
- 1.3. Signs and markings shall be designed and positioned so that...
- 2. Description of signs and panels
 - 2.1. Tunnel sign
 - 2.2. Horizontal signing
 - 2.3. Signs and panels for signing of facilities
 - Emergency stations
 - Lay-bys
 - Emergency exits
 - Lane signals

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- (1) [^{X1}OJ C 220, 16.9.2003, p. 26.]
- (2) [^{X1}OJ C 256, 24.10.2003, p. 64.]
- (3) [^{X1}Opinion of the European Parliament of 9 October 2003 (not yet published in the Official Journal), Council Common Position of 26 February 2004 (OJ C 95 E, 20.4.2004, p. 31) and Position of the European Parliament of 20 April 2004 (not yet published in the Official Journal).]
- (4) [^{X1}OJ L 228, 9.9.1996, p. 1. Decision as last amended by the 2003 Act of Accession.]
- (5) [^{X1}OJ L 184, 17.7.1999, p. 23.]

Editorial Information

- X1** Substituted by [Corrigendum to Directive 2004/54/EC of the European Parliament and of the Council of 29 April 2004 on minimum safety requirements for tunnels in the trans-European road network \(Official Journal of the European Union L 167 of 30 April 2004\)](#).