

Fire Safety



Numerous fire protection requirements have already found their way into national and European regulations. The aspects of fire protection and evacuation are of particular significance in the railways sector.

This applies to approval processes for rolling stock and also for planning approvals for buildings and structures such as railway stations, underground stations and tunnels. TÜV NORD experts approved by the German Federal Authority for railways (EBA) have many years of experience in fire-related assessment of rolling stock and buildings.

Specialist fire protection experts can support operators, manufacturers and planners from the design phase up to approval and can also provide essential help in determining the cause if an incident should occur.

TÜV NORD has its own test laboratory for fire protection, recognised by the EBA, where the necessary fire testing of vehicle components along with original fire and proof tests according to the Detection Technology Working Group (ARGE) regulations can be carried out.

When drawing up fire protection concepts, it should also be possible to include unusual design requests within a safe framework which will gain the approval of the relevant authorities. TÜV NORD covers the entire range of testing services - for railway control systems, transport chains in the freight sector, and for conventional up to high-speed rolling stock.

TÜV NORD - Making our world safer.

Our services

Building structures/Infrastructure

- Drafting of fire protection concepts and documents (based on several regulations), e.g. fire brigade plans
- Review of fire protection concepts and design documents according to VV Bau
- Conformity assessment according to TSI requirements
- Site supervision and project management
- Checking of fire protection engineering

Fire simulation and evacuation calculation

- Computer simulation of the spread of fire and smoke in buildings
- Dimensioning of components in case of fire
- Consideration of characteristics of thermal materials
- Smoke tests to check building design and implementation

Fire investigations

- Visits to site of fire to isolate the place of origin
- Documentation and securing of evidence which indicates the cause of the fire
- Examination of materials of electrical equipment
- Fire tests for incident reconstruction

Examination of fire protection technology

- Fire extinguishing equipment
- Smoke and heat extraction and dissipation equipment
- Smoke protection pressure equipment
- Ventilation equipment
- Fire detection and alarm equipment
- Electrical installations

The benefit to you:

- One single partner for all specialist technical disciplines
- Independent assessments suitable for the particular purpose
- Protection of people and the environment
- Consideration of the necessary fire safety from the cost point of view
- Creation of prerequisites for the recognition of your claims for compensation in case of fire

Our expertise:

- Independence and neutrality
- Specialist independent experts with long-standing experience
- Assessors with EBA-recognition
- Accredited inspection body according to DIN EN ISO/IEC 17020 (DAkkS)
- Notified Body (NoBo)
- Designated Body (DeBo)
- Assessment Body (AsBo)
- Partner of country and municipal authorities (Landeseisenbahnaufsicht (LfB, TAB))
- Associated partner of the German notified body

We look forward to sharing our expertise with you.
Why not contact us.

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