

## 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 for the railways.

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 India 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 party (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 India covers an 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 India - Inspired by Knowledge .

### 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 a cause of the fire
- Examinations of electrical equipment of materials
- Fire tests within the framework of 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

## Benefit to customers

- 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 ERA-recognition
- Assessors with EBA-recognition
- Accredited inspection body according to DIN EN ISO/IEC 17020 (DAkkS) and NABCB/IAF
- Notified Body (NoBo) (LUX)
- Designated Body (DeBo)
- Interims DeBo (DE)
- Associated partner of the German notified body

## TÜV India Private Limited

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## About Us:

TÜV India Pvt. Ltd. (TÜV NORD GROUP) is a customer-focused, innovative, and independent, technical, quality & safety services organization, dedicated to providing future-proof solutions through technological excellence for the success of its customers with the highest level of integrity. With a presence at over 40 strategic locations in India; a branch office in Sri Lanka and Bangladesh; state-of-the-art laboratories at Pune, Bengaluru, Noida and Jamnagar; 100 important countries worldwide and through digital means, we are always connected to you, our esteemed customer, anywhere, anytime.

We are proud to provide increasing levels of services to the best known, largest global and national companies as well as medium and small industries in diverse sectors like Oil & Gas, Petrochemical, Nuclear, Renewables, Infrastructure, Food, Power, Manufacturing, Chemicals, Pharma, Paper, Automobiles, Railways, Aerospace, Defence, IT, Health, Hospitality, Retail, etc.

Over 1400 competent and experienced TÜV India experts spread across India and over 14000 TÜV NORD experts all over the world, enthusiastically support our clients by providing value-added services in Industry Inspection, European / International Approvals, Management System & IT Certification, Sustainability, Energy Audit, Water Audit, Carbon Services, Building Infrastructure & PMC, Renewable Energy, Food & Packaging Testing, Food Certification & Inspection; Testing of restricted and banned chemicals in Automotive and Electrical & Electronics components and other regulated industries, Product Testing – Electricals, Electronics and Industrial Machinery; Product Certification; Petroleum, Chemicals & Gas Cargo Inspection; Petroleum, Chemicals & Gas Testing; Railway Technology; Engineering, Safety Studies, and knowledge enhancing training programs under TÜV India Training Academy.

