



Industrie Service

**Choose certainty.  
Add value.**

## Acceptance testing of trams and metro systems

A Product Information Sheet by the Lift and Machinery Business Area

### **What are acceptance tests?**

Acceptance testing covers measurements, function tests and other checks aimed at verifying that the vehicle complies with the reviewed type documentation and can safely be operated. The focus lies on safe and compliant operation for passenger transport.

### **Our services**

- Review of technical documentation for aspects related to design and construction, fire safety, mechanical engineering, electrical engineering and software
- Evaluation of risk assessments
- Comparative analysis addressing manufacturer certificates
- Measurement of mechanical strain, door closing pressure, pressure levels, electrical insulation, earthing, EMC, noise emissions, ventilation
- Testing of complex control functions
- Visual examination of workmanship
- Assessment of the man-machine interface

### **Your benefits**

#### **Passenger safety**

For us, passenger safety comes first. Achievement of a safety level over and above the legally prescribed safety standards need not impact on cost-effectiveness. By recognising weaknesses at an early stage and implementing appropriate intervention, our experts prevent high consequential costs and schedule delays. Our experts focus in particular on the requirements of people with restricted mobility or visual impairment and on the safety of children and the elderly.

#### **Legal certainty and technical expertise**

TÜV SÜD Industrie Service GmbH has been providing expert and test services for the rolling stock and operating systems of trams, underground trains and special metro systems for 40 years. Our interdisciplinary team of experts (mechanical engineering, electrical engineering, civil engineering, software, fire safety, acoustics, EMC etc.)



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has been officially approved for complex systems and looks back on long-standing experience in their assessment. Our experts not only assess compliance with technical standards, but also attend advanced training, participate in international conferences and seminars and are pro-actively involved in standardisation committees on an ongoing basis. Given this, they are deeply familiar with the state of the art. The wide public awareness and excellent international reputation of the TÜV SÜD brand also ensure that our reports and certificates meet with a high level of acceptance by authorities in Germany and abroad.

#### **Cost effectiveness**

Acceptance testing aims to ensure safe and compliant, but also cost-effective, operation. In this context, all relevant systems must

comply with high reliability, availability, maintenance and safety (RAMS) requirements. The practice-focused assessment of our technical experts prevents consequential costs and failures and ensures the sustained value of your investments.

#### **Cost transparency and planning certainty**

Thanks to our long-standing experience, we can provide accurate and detailed forecasts concerning the time needed and the costs involved, and thus provide you with planning certainty.

Should you wish further information, do not hesitate to contact us. We provide international services.

#### **TÜV SÜD.**

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