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Railway applications 0
Testing of rolling stock after completion of construction and before entry into service

Som svensk standard gäller europastandarden EN 50215:1999. Den svenska standarden innehåller den officiella engelska språkversionen av EN 50215:1999.

ICS 29.280; 45.060.10

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EUROPEAN STANDARD **EN 50215**

NORME EUROPÉENNE

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ICS 29.280; 45.060.10

English version

Railway applications
Testing of rolling stock after completion of construction and before entry into service

Applications ferroviaires
Essais sur matériel roulant après achèvement et avant mise en service

Bahnanwendungen
Prüfung von Bahnfahrzeugen nach Fertigstellung und vor Indienststellung

This European Standard was approved by CENELEC on 1999-04-01. CENELEC members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

European Committee for Electrotechnical Standardization
Comité Européen de Normalisation Electrotechnique
Europäisches Komitee für Elektrotechnische Normung

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Ref. No. EN 50215:1999 E

Foreword

This European Standard was prepared by SC 9XB, Electromechanical material on board rolling stock, of Technical Committee CENELEC TC 9X, Electrical and electronic applications for railways.

The text of the draft was submitted to the formal vote and was approved by CENELEC as EN 50215 on 1999-04-01

The following dates were fixed:

- latest date by which the EN has to be implemented at national level by publication of an identical national standard or by endorsement (dop) 2000-04-01
- latest date by which the national standards conflicting with the EN have to be withdrawn (dow) 2002-04-01

Annexes designated „informative“ are given for information only.

In this standard, annexes A and B are informative.

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Introduction

This European Standard has been produced with the objective of providing the criteria for validating the conformance of complete railway vehicles against specified requirements to generate confidence on the part of the purchaser.

This European Standard deals with the tests intended solely to validate the conformance of the railway vehicles with the functional specifications of the purchaser.

> NOTE : The authorisation process for use is given by the relevant authority and is subject to conformance with additional requirements not covered by this standard.
>
> In the new context of the infrastructure owner being independent from the railway operator, the purchaser may have to prove by technical demonstration and tests that his rolling stock conforms with the requirements of the infrastructure owner. As the conformance tests depend on the fixed installations of the infrastructure owner (e.g. safety related systems, etc.), they cannot be standardised.

The document has used IEC 61133 as its base but the form and structure has been amended to facilitate the production of validation documentation to demonstrate conformance to assist the process of finalising a contract for complete railway vehicles.

Greater confidence will be generated if the manufacturer has a quality assurance system in conformance with recognised standards such as EN ISO 9001, EN ISO 9002 and EN ISO 9003.

The criteria expressed in this document are generic and may have to be supplemented for particular or special applications by other European Standards for railway vehicles.

1 Scope

This European Standard specifies general criteria to demonstrate by testing that complete railway vehicles conform with standards or other normative documents.

This European Standard, as a whole or in part, applies to all railway vehicles except special purpose vehicles such as track-laying machines, ballast cleaners and personnel carriers. The extent of application of the standard for particular vehicles will be specifically mentioned in the contract.

NOTE: The parts of the standard which are applicable will depend on the type of vehicle (e.g. passenger, freight, powered trailer, etc.).

In so far as this European Standard is applicable it may be used for the following:

- generator sets mounted on a vehicle provided for auxiliary purposes;
- the electrical transmission used on trolley buses or similar vehicles;
- control and auxiliary equipment of vehicles with non-electrical propulsion systems;
- vehicles guided, supported or electrically propelled by systems which do not use the adhesion between wheel and rail.

2 Normative references

This European Standard incorporates by dated or undated references, provisions from other publications. These normative references are cited at the appropriate place in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN ISO 9001	Quality systems - Model for quality assurance in design/development, production, installation and servicing
EN ISO 9002	Quality systems - Model for quality assurance in production, installation and servicing
EN ISO 9003	Quality systems - Model for quality assurance in final inspection and test
EN 50153	Railway applications - Rolling stock - Protective provisions relative to electrical hazards
EN 50121-3-1*)	Railway applications – Electromagnetic compatibility -- Part 3-1: Rolling Stock - Train and complete vehicle
EN 50121-3-2*)	Railway applications - Electromagnetic compatibility -- Part 3-2: Rolling Stock - Apparatus
EN 50126	Railway applications - The specification and demonstration of Reliability, Availability, Maintainability and Safety (RAMS)
EN 50128*)	Railway applications - Software for railway control and protective systems
EN 50155	Railway applications - Electronic equipment used on rolling stock
EN 50163	Railway applications - Supply voltages of traction systems
EN 50207*)-	Railway applications - Electronic power convertors for rolling stock

*) in preparation