Raudteealased rakendused. Raudteeveeremi tuleohutus. Osa 5: Tuleohutusnõuded elektriseadmetele, kaasa arvatud trollibusside, rööbasbusside ja magnethõljukrongide elektriseadmed

Railway applications - Fire protection on railway vehicles - Part 5: Fire safety requirements for electrical equipment including that of trolley buses, track guided buses and magnetic levitation vehicles



EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 45545-5:2013 sisaldab	
Euroopa standardi EN 45545-5:2013 ingliskeelset	consists of the English text of the European standard
teksti.	EN 45545-5:2013.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
, and a second s	Date of Availability of the European standard is
Euroopa standardi rahvuslikele liikmetele	01.03.2013.
kättesaadavaks 01.03.2013.	
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ICS 13.220.20, 45.060.01

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EUROPEAN STANDARD

EN 45545-5

NORME EUROPÉENNE EUROPÄISCHE NORM

March 2013

ICS 13.220.20; 45.060.01

Supersedes CLC/TS 45545-5:2009

English version

Railway applications - Fire protection on railway vehicles -

Part 5: Fire safety requirements for electrical equipment including that of trolley buses, track guided buses and magnetic levitation vehicles

Applications ferroviaires Protection contre les incendies dans les véhicules ferroviaires Partie 5: Exigences de sécurité incendie pour l'équipement électrique, y compris celui des trolleybus, des autobus guidés et des véhicules à sustentation magnétique

Bahnanwendungen Brandschutz in Schienenfahrzeugen Teil 5: Brandschutzanforderungen an die
elektrische Ausrüstung einschließlich der
von Oberleitungsbussen, spurgeführten
Bussen und Magnetschwebefahrzeugen

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Foreword

This document (EN 45545-5:2013) has been prepared by the CEN/CENELEC Joint Working Group "Fire protection for railway applications" of CEN/TC 256 "Railway applications" and CENELEC/TC 9X "Electrical and electronic applications for railways".

The following dates are fixed:

latest date by which this document has	(dop)	2013-12-10
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This document supersedes CLC/TS 45545-5:2009.

This document has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive 2008/57/EC.

For relationship with EU Directive 2008/57/EC, see informative Annex ZZ, which is an integral part of this document.

This series of European standards Railway applications — Fire protection on railway vehicles consists of:

- Part 1: General;
- Part 2: Requirements for fire behaviour of materials and components;
- Part 3: Fire resistance requirements for fire barriers:
- Part 4: Fire safety requirements for railway rolling stock design;
- Part 5: Fire safety requirements for electrical equipment including that of trolley buses, track guided buses and magnetic levitation vehicles;
- Part 6: Fire control and management systems;
- Part 7: Fire safety requirements for flammable liquid and flammable gas installations.

Introduction

This European Standard has been developed from existing fire safety regulations for railway vehicles from the International Union of Railways (UIC) and different European countries.

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345 will take in. In using the operation and design categories defined in EN 45545-1, the requirements laid down in the different parts of EN 45545 will take into account the current operating conditions for European public rail transport.

1 Scope

This Part of EN 45545 specifies the fire safety requirements for electrical equipment on railway vehicles, including that of trolley buses, track guided buses and magnetic levitation vehicles.

The measures and requirements, specified in this European Standard meet the objective of protecting passengers and staff in railway vehicles in the event of a fire on board by:

- lowering the risk of starting a fire both during operation and as a result of technical defect and/or malfunction of the electrical equipment,
- ensuring that electrical emergency equipment continues to be functional until evacuation is complete (see EN 45545-6).

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 45545-1:2013, Railway applications — Fire protection on railway vehicles — Part 1: General

EN 45545-2:2013, Railway applications — Fire protection on railway vehicles — Part 2: Requirements for fire behavior of materials and components

EN 45545-3:2013, Railway applications — Fire protection on railway vehicles — Part 3: Fire resistance requirements for fire barriers

EN 45545-4, Railway applications — Fire protection on railway vehicles — Part 4: Fire safety requirements for rolling stock design

EN 45545-6, Railway applications — Fire protection on railway vehicles — Part 6: Fire control and management systems

EN 50124-1, Railway applications — Insulation coordination — Part 1: Basic requirements — Clearances and creepage distances for all electrical and electronic equipment

EN 50125-1, Railway applications — Environmental conditions for equipment — Part 1: Equipment on board rolling stock

EN 50153, Railway applications — Rolling stock — Protective provisions relating to electrical hazards

EN 50343. Railway applications — Rolling stock — Rules for installation of cabling

EN 61140, Protection against electric shock — Common aspects for installation and equipment (IEC 61140)

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 45545-1:2013 apply.

4 General requirements

The electrical design requirements used for railway vehicles are supplemented by the design requirements of this European Standard.