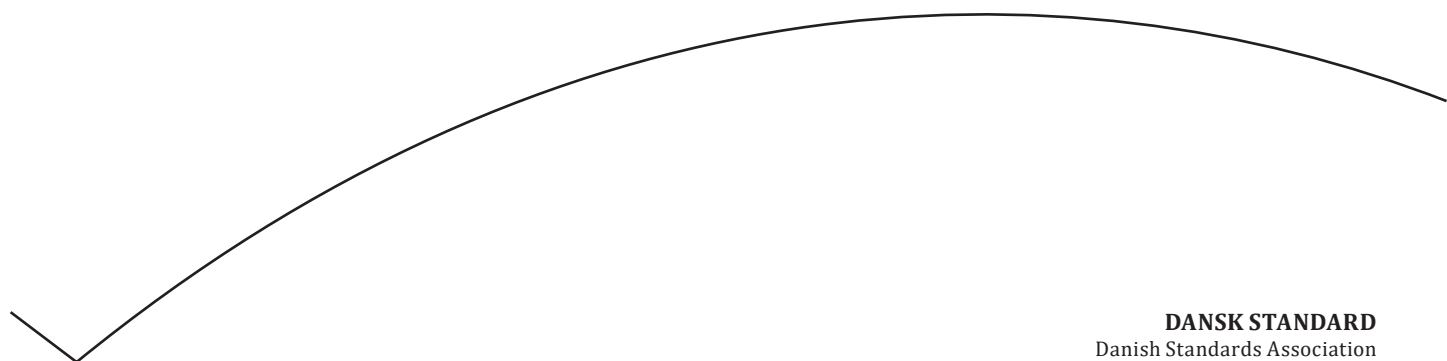


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Jernbaner – Brandbeskyttelse om bord på jernbanekøretøjer – Del 3: Krav til brandbarrierers brandmodstandsevne

Railway applications – Fire protection on railway vehicles –
Part 3: Fire resistance requirements for fire barriers



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EUROPÄISCHE NORM

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ICS 13.220.20; 45.060.01

Supersedes EN 45545-3:2013

English Version

Railway applications - Fire protection on railway vehicles - Part 3: Fire resistance requirements for fire barriers

Applications ferroviaires - Protection contre les
incendies dans les véhicules ferroviaires - Partie 3 :
Exigences de résistance au feu des barrières au feu

Bahnanwendungen - Brandschutz in
Schienenfahrzeugen - Teil 3: Feuerwiderstand
von Feuerschutzabschlüssen

This European Standard was approved by CEN on 22 October 2023.

CEN 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 CEN-CENELEC Management Centre or to any CEN member.

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European foreword

This document ([EN 45545-3:2024](#)) has been prepared by Technical Committee CEN/TC 256 “Railway applications”, the secretariat of which is held by DIN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by August 2024, and conflicting national standards shall be withdrawn at the latest by August 2024.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes [EN 45545-3:2013](#).

The main changes from [EN 45545-3](#) are:

- Modification of the scope;
- Modification of dated references;
- Renumbering of [5.1](#) due to deletion of previous 5.1.1, 5.1.2, 5.1.3 and 5.1.4;
- Modification of [5.5](#);
- Modification of [Table 1](#);
- Modification of [5.6.3](#);
- Modification of [5.6.4](#);
- Modification of [Table 2](#);
- Modification of [A.5](#);
- Modification of [A.10](#);
- Addition of [Annex B](#) with elements of previous 5.5.2.

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.

This document has been prepared under a standardization request addressed to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

For the relationship with EU Legislation, see informative [Annex ZA](#), which is an integral part of this document.

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According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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Introduction

[EN 45545-3](#) has been developed from existing fire safety regulations for railway vehicles from the International Union of Railways (UIC) and different European countries.

In using the operation and design categories defined in [EN 45545-1](#), the requirements laid down in this part take into account the current operating conditions for European public rail transport.

Railway applications – Fire protection on railway vehicles –

Part 3: Fire resistance requirements for fire barriers

1 Scope

This document specifies the fire resistance requirements and testing methods for fire barriers for railway vehicles.

The objective of the measures and requirements, specified in this document, is to protect passengers and staff in railway vehicles in the event of a developing fire on board.

Use of a Fire Containment and Control System, where permitted as an alternative to a fire barrier, is not in the scope of this document. It is not within the scope of this document to describe measures that ensure the preservation of the railway vehicles in the event of a fire.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

[EN 1363-1:2020](#), *Fire resistance tests — Part 1: General requirements*

[EN 1364-1:2015](#), *Fire resistance tests for non-loadbearing elements — Part 1: Walls*

[EN 1364-2:2018](#), *Fire resistance tests for non-loadbearing elements — Part 2: Ceilings*

[EN 1634-1:2014+A1:2018](#), *Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware — Part 1: Fire resistance test for door and shutter assemblies and openable windows*

[EN 13501-2:2016](#), *Fire classification of construction products and building elements — Part 2: Classification using data from fire resistance tests, excluding ventilation services*

[EN 45545-1:2013](#), *Railway applications — Fire protection on railway vehicles — Part 1: General*

[EN 45545-5:2013+A1:2015](#), *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*

[EN ISO 1182:2020](#), *Reaction to fire tests for products — Non-combustibility test (ISO 1182:2020)*

[EN ISO 1716:2018](#), *Reaction to fire tests for products — Determination of the gross heat of combustion (calorific value) (ISO 1716:2018)*

[EN ISO 13943:2017](#), *Fire safety — Vocabulary (ISO 13943:2017)*