



SLOVENSKI STANDARD

SIST EN 45545-4:2024

01-maj-2024

Železniške naprave - Požarna zaščita na železniških vozilih - 4. del: Zahteve požarne varnosti za konstrukcijo železniških vozil

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

Bahnanwendungen - Brandschutz in Schienenfahrzeugen - Teil 4: Brandschutzanforderungen an die konstruktive Gestaltung von Schienenfahrzeugen

Applications ferroviaires - Protection contre les incendies dans les véhicules ferroviaires - Partie 4: Exigences de sécurité incendie pour la conception des véhicules ferroviaires

Ta slovenski standard je istoveten z: **EN 45545-4:2024**

[SIST EN 45545-4:2024](https://standards.sist.net/sist/en/45545-4/2024)

ICS:

13.220.20	Požarna zaščita	Fire protection
45.060.01	Železniška vozila na splošno	Railway rolling stock in general

SIST EN 45545-4:2024

en,fr,de

EUROPEAN STANDARD

EN 45545-4

NORME EUROPÉENNE

EUROPÄISCHE NORM

March 2024

ICS 13.220.20; 45.060.01

Supersedes EN 45545-4:2013

English Version

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

Applications ferroviaires - Protection contre les incendies dans les véhicules ferroviaires - Partie 4 : Exigences de sécurité incendie pour la conception des véhicules ferroviaires

Bahnanwendungen - Brandschutz in Schienenfahrzeugen - Teil 4: Brandschutzanforderungen an die konstruktive Gestaltung von Schienenfahrzeugen

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.

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 CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.

[SIST EN 45545-4:2024](https://standards.iteh.ai/catalog/standards/sist/9def4407-31d7-4483-abcc-9abe4fc688a0/sist-en-45545-4-2024)

<https://standards.iteh.ai/catalog/standards/sist/9def4407-31d7-4483-abcc-9abe4fc688a0/sist-en-45545-4-2024>



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents	Page
European foreword	3
Introduction	5
1 Scope.....	6
2 Normative references.....	6
3 Terms and definitions.....	6
4 Fire protection measures.....	7
4.1 General.....	7
4.2 Minimizing the risk of a fire starting.....	7
4.2.1 General preventive measures	7
4.2.2 Catering and cooking areas.....	8
4.2.3 Luggage storage inside passenger areas	8
4.2.4 Visibility in passenger areas.....	8
4.2.5 Litter bins, ash trays and refuse containers.....	8
4.3 Evacuation and escape.....	9
4.3.1 Passenger emergency exits	9
4.3.2 Evacuation measures.....	10
4.3.3 Escape measures	11
4.3.4 Functions of systems for running capability.....	12
4.3.5 Emergency signs.....	12
4.3.6 Emergency lighting.....	12
5 Evaluation of conformity.....	12
Annex A (informative) Design guidance	13
A.1 General preventive measures	13
A.2 General design features.....	13
A.3 Seats.....	13
A.4 Air conditioning and ventilation systems.....	14
A.5 Heaters.....	14
A.6 Protection against sparks	14
Annex ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive (EU) 2016/797 aimed to be covered	15
Bibliography	17

European foreword

This document (EN 45545-4:2024) 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 45545-4:2013.

The main changes from EN 45545-4:2013 are:

- new requirements on 4.2.3;
- suppression of 4.2.6;
- new requirements on 4.3.2.1;
- new requirements on 4.3.3.1;
- addition of 4.3.5 and 4.3.6.

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; [2024](https://standards.iteh.ai/catalog/standards/sist/9def4407-31d7-4483-abcc-9abe4fc688a0/sist-en-45545-4-2024)
- 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.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

EN 45545-4:2024 (E)

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.

iTeh Standards
(<https://standards.iteh.ai>)
Document Preview

[SIST EN 45545-4:2024](#)

<https://standards.iteh.ai/catalog/standards/sist/9def4407-31d7-4483-abcc-9abe4fc688a0/sist-en-45545-4-2024>