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Standards

Irish Standard
I.S. EN 45545-3:2013

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

I.S. EN 45545-3:2013

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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

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Foreword

This document (EN 45545-3:2013) 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of an identical text or by endorsement, at the latest by September 2013, and conflicting national standards shall be withdrawn at the latest by March 2016.

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

This document supersedes CEN/TS 45545-3:2009.

This document has been prepared under a mandate given to CEN 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 ZA, 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.*

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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.

1 Scope

This part of EN 45545 specifies the fire resistance requirements and testing methods for fire barriers for railway vehicles.

The objective of the measures and requirements, specified in this part of EN 45545, is to protect passengers and staff in railway vehicles in the event of a developing fire on board.

It is not within the scope of this part of EN 45545 to describe measures that ensure the preservation of the railway vehicles in the event of a fire.

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 1363-1:2012, *Fire resistance tests — Part 1: General requirements*

EN 1364-1, *Fire resistance tests for non-loadbearing elements — Part 1: Walls*

EN 1364-2, *Fire resistance tests for non-loadbearing elements — Part 2: Ceilings*

EN 1634-1, *Fire resistance and smoke control tests for door, shutter and operable window assemblies and elements of building hardware — Part 1: Fire resistance tests for doors, shutters and operable windows*

EN 13501-2, *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, *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, *Reaction to fire tests for products — Non-combustibility test (ISO 1182)*

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

EN ISO 13943:2010, *Fire safety — Vocabulary (ISO 13943:2008)*

ISO 834-1, *Fire-resistance tests — Elements of building construction — Part 1: General requirements*

3 Terms and definitions

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

4 Application of fire barriers

Railway vehicles shall be equipped with fire barriers at the locations specified in Table 1.

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