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LIIKUMISVÕIMEGA ISIKUTE KASUTATAVAD  
RAKENDUSED. ÜLDNÕUDED. OSA 1: KONTRASTSUS

Railway applications - Design for PRM use - General  
requirements - Part 1: Contrast

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 16584-1:2025 sisaldab Euroopa standardi EN 16584-1:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 01.10.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 16584-1:2025 consists of the English text of the European standard EN 16584-1:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 01.10.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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ICS 11.180.01, 45.020

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EUROPEAN STANDARD

EN 16584-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 16584-1:2017

English Version

## Railway applications - Design for PRM use - General requirements - Part 1: Contrast

Applications ferroviaires - Conception destinée à l'usage par les PMR - Exigences générales - Partie 1: Contraste

Bahnanwendungen - Gestaltung für die Nutzung durch PRM - Allgemeine Anforderungen - Teil 1: Kontrast

This European Standard was approved by CEN on 30 June 2025.

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

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## European foreword

This document (EN 16584-1:2025) 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of an identical text or by endorsement, at the latest by April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.

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 16584-1:2017.

In comparison with the previous edition, the following technical modifications have been made:

- the document template has been updated;
- the document has been revised generally for document references and editorial issues with grammar;
- scope modified;
- normative references updated;
- terms and definitions revised;
- 5.1 removed references to annexes covering EC verification and testing requirements;
- 5.2.6 Platform danger area and edge of platform – Note 1 changed to be a bullet point, Note 2 moved from 7) to 5);
- 5.2.7 End of Platform – addition of 'contrast requirement for the barrier shall be assessed according to free-standing device';
- 5.3.4 Interior doors – text modified;
- 5.3.6.2 - text amended and additional Figures added;
- 5.3.11 Boarding aids – text changed from 'up-stand' to 'tapered lip';
- Annex D "EC verification - Interoperability constituents" removed;
- Annex E "Summary of testing requirements" removed;
- Subsequent Annexes renumbered;
- Annex ZA updated;
- Bibliography updated.

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.

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

This document is part of a suite of four 'Design for PRM use' standards that have in total nine parts:

EN 16584 is a standard that covers both infrastructure and rolling stock — Railway applications — Design for PRM use — General requirements:

- Part 1: Contrast (EN 16584-1);
- Part 2: Information (EN 16584-2);
- Part 3: Optical and friction characteristics (EN 16584-3).

EN 16585 is a standard that covers rolling stock — Railway applications — Design for PRM use — Equipment and components on board rolling stock:

- Part 1: Toilets (EN 16585-1);
- Part 2: Elements for sitting, standing and moving (EN 16585-2);
- Part 3: Clearways and internal doors (EN 16585-3).

EN 16586 is a standard that covers rolling stock — Railway applications — Design for PRM use — Accessibility of persons with reduced mobility to rolling stock:

- Part 1: Steps for access and egress (EN 16586-1);
- Part 2: Boarding aids (EN 16586-2).

EN 16587 is a standard that covers infrastructure — Railway applications — Design for PRM use — Requirements for obstacle-free routes for infrastructure.

These standards aim to clarify the requirements (with clear and consistent terms and definitions) and to define the associated criteria and, where appropriate, methodologies to allow a clear pass/fail assessment".

## 1 Scope

This document describes the specific 'Design for PRM use' requirements applying to both infrastructure and rolling stock and the assessment of those requirements. The following applies to this document:

The definitions and requirements describe specific aspects of 'Design for PRM use' required by persons with disabilities and persons with reduced mobility as defined in the PRM TSI.

This document defines elements that are universally valid for board-free travelling relating to visual contrast. The definitions and requirements of this document cover the infrastructure and rolling stock applications.

This document only refers to aspects of accessibility for PRM passengers; it does not define non-PRM related requirements and definitions.

This document assumes that the infrastructure or rolling stock is in its defined operating condition.

Where minimum or maximum dimensions are quoted these are absolute NOT nominal requirements.

The 'General requirements' standard is written in three parts:

This document is Part 1 and contains:

- contrast.

Part 2 contains:

- spoken information;
- written information;
- tactile information;
- pictograms;
- audible signals.

Part 3 contains:

- lighting;
- low reflective properties;
- transparent obstacles;
- slip resistance.

## 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 10088-2:2024, *Stainless steels - Part 2: Technical delivery conditions for sheet/plate and strip of corrosion resistant steels for general purposes*

EN 13272-1:2019, *Railway applications - Electrical lighting for rolling stock in public transport systems - Part 1: Heavy rail*

EN 16584-2:2025, *Railway applications — Design for PRM use — General requirements — Part 2: Information (Basel)*

EN 16584-3:2025, *Railway applications — Design for PRM use — General requirements — Part 3: Optical and friction characteristics*

EN 16586-1:2025, *Railway applications — Design for PRM use — Accessibility of persons with reduced mobility to rolling stock — Part 1: Steps for access and egress*

EN 16587:2025, *Railway applications — Design for PRM use — Requirements for obstacle-free routes for infrastructure*

ISO 17398:2004, *Safety colours and safety signs — Classification, performance and durability of safety signs*

ISO 21542:2021, *Building construction — Accessibility and usability of the built environment*

ISO 3864-1:2011, *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs and safety markings*

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

### 3.1

#### **bezel**

raised area that surrounds a pressel as part of a pushbutton

### 3.2

#### **boarding aid**

device (fixed or portable) that bridges the gap between rolling stock and platform to allow a PRM to board or alight from a train

Note 1 to entry: This includes manual, semi-automatic or automatic ramps, lifts and other devices.