



BSI Standards Publication

Railway applications — Design for PRM use — General requirements

Part 1: Contrast

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National foreword

This British Standard is the UK implementation of EN 16584-1:2025. It supersedes BS EN 16584-1:2017, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee RAE/1/-/15, Railway Applications - People with Reduced Mobility.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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

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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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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of an identical text or by endorsement, at the latest by April 2026, and conflicting national standards shall be withdrawn at the latest by April 2026.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.

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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.

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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”.

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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.