

Železnice Konštrukčné riešenie pre osoby so zníženou pohyblivosťou Všeobecné požiadavky Časť 3: Optické a protišmykové vlastnosti

STN EN 16584-3

28 0411

Railway applications - Design for PRM use - General requirements - Part 3: Optical and friction characteristics

Táto norma obsahuje anglickú verziu európskej normy. This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 06/17

Obsahuje: EN 16584-3:2017

STN EN 16584-3: 2017

EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN 16584-3

January 2017

ICS 11.180.01; 45.020

English Version

Railway applications - Design for PRM use - General requirements - Part 3: Optical and friction characteristics

Applications ferroviaires - Conception destinée à l'usage par les PMR - Exigences générales - Partie 3 : Caractéristiques optiques et de friction

Bahnanwendungen - Gestaltung für die Nutzung durch PRM - Allgemeine Anforderungen - Teil 3: Optische Eigenschaften und Rutschfestigkeit

This European Standard was approved by CEN on 10 September 2016.

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

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Contents Page			
European foreword3			
1	Scope	5	
2	Normative references	6	
3	Terms and definitions	6	
4	Symbols and abbreviations	8	
5	Requirements and assessment	8	
5.1	General		
5.2	Infrastructure		
5.2.1	Obstacle free route		
5.2.2 5.2.3	Floor surfaces Transparent obstacles		
5.2.3 5.2.4	Lighting		
5.2.5	Visual information: signposting, pictograms, dynamic information		
5.2.6	Platform danger area and edge of platform		
5.2.7	Level track crossings		
5.3	Rolling stock		
5.3.1	Interior doors		
5.3.2	Lighting	11	
5.3.3	Access/egress steps	11	
5.4	Boarding aids (ramps, lifts, movable steps and bridging plates) for infrastructure and rolling stock	11	
6	Assessment methodologies	12	
6.1	Slip resistance test	12	
6.1.1	Principle	12	
6.1.2	Preparation and procedure		
6.1.3	Expression of results		
6.1.4	Test Report		
6.1.5	Friction test piece	13	
Annex A (normative) EC verification			
A.1	Interoperability constituents		
A.1.1	Conformity assessment		
A.1.2	Application of modules	15	
A.2	Subsystems	16	
A.2.1	EC verification (general)	16	
A.2.2	Procedures for EC verification of a subsystem (modules)	16	
Annex	B (normative) Summary of testing requirements	18	
Annex C (informative) Colour temperature for lighting20			
Annex	ZA (informative) Relationship between this European Standard and the Essential Requirements of EU Directive 2008/57/EC aimed to be covered	21	
Bibliography22			

European foreword

This document (EN 16584-3:2017) 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 July 2017, and conflicting national standards shall be withdrawn at the latest by July 2017.

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

- The EN 16584 series 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).
- The EN 16585 series 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).
- The EN 16586 series 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.

EN 16584-3:2017 (E)

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.

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

1 Scope

This European standard 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 standard:

- 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 standard defines elements that are universally valid for obstacle free travelling including lighting, contrast, tactile feedback, transmission of visual and acoustic information. The definitions and requirements of this standard cover the infrastructure and rolling stock applications.
- This standard only refers to aspects of accessibility for PRM passengers it does not define non PRM related requirements and definitions.
- This standard 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:

_	Part 1 contains:
	— contrast.
_	Part 2 contains:
	spoken information;
	written information;
	tactile information;
	— pictograms.
_	This document is Part 3 and contains:

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

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 1838, Lighting applications — Emergency lighting

EN 12464 (series), Light and lighting — Lighting of work places

EN 13272:2012, Railway applications — Electrical lighting for rolling stock in public transport systems

EN 16584-1, Railway applications — Design for PRM use — General Requirements — Part 1: Contrast

EN 16584-2, Railway applications — Design for PRM use — General Requirements — Part 2: Information

prEN 16587:2013, Railway applications — Design for PRM use — Requirements for Obstacle Free Routes for Infrastructure

EN ISO 2813, Paints and varnishes - Determination of gloss value at 20°, 60° and 85° (ISO 2813)

ISO 4649, Rubber, vulcanized or thermoplastic — Determination of abrasion resistance using a rotating cylindrical drum device

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

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