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TAKISTUSTETA TEEDELE

Railway Applications - Design for PRM Use -
Requirements on Obstacle Free Routes for
Infrastructure

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

See Eesti standard EVS-EN 16587:2017 sisaldab Euroopa standardi EN 16587:2017 ingliskeelset teksti.	This Estonian standard EVS-EN 16587:2017 consists of the English text of the European standard EN 16587:2017.
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English Version

Railway applications - Design for PRM Use - Requirements on obstacle free routes for infrastructure

Applications ferroviaires - Conception destinée à
l'usage par les PMR - Exigences relatives aux
cheminements libres d'obstacles pour l'infrastructure

Bahnanwendungen - Gestaltung für die Nutzung durch
PRM - Anforderungen an die Infrastruktur für
hindernisfreie Wege

This European Standard was approved by CEN on 23 January 2017.

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European foreword

This document (EN 16587:2017) 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of an identical text or by endorsement, at the latest by December 2017, and conflicting national standards shall be withdrawn at the latest by December 2017.

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 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.

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, 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.

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 European Standard describes the specific 'Design for PRM Use' requirements for obstacle-free routes applying to infrastructure and the assessment of those requirements. The following applies to this European 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 European Standard defines elements which are universally valid for obstacle-free routes. The definitions and requirements of this European Standard should be used for infrastructure applications;
- This European Standard only refers to aspects of accessibility for PRM passengers, it does not define general requirements and general definitions;
- This European Standard assumes that the infrastructure is in the defined operating condition;
- Where minimum or maximum dimensions are quoted these are absolute NOT nominal requirements.

This European Standard contains requirements relating to 'Obstacle-free routes'.

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 81-70, *Safety rules for the construction and installations of lifts - Particular applications for passenger and good passengers lifts - Part 70: Accessibility to lifts for persons including persons with disability*

EN 115-1, *Safety of escalators and moving walks — Part 1: Construction and installation*

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*

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

EN 16585-1:2017, *Railway Applications — Design for PRM Use — Equipment and Components On Board Rolling Stock — Part 1: Toilets*

EN 16586-2, *Railway Applications — Design for PRM Use — Accessibility of Persons with Reduced Mobility to Rolling Stock — Part 2: Boarding Aids*

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

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

ISO 23599, *Assistive products for blind and vision-impaired persons — Tactile walking surface indicators*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 16584-1 and the following apply.

3.1

obstacle-free route

link between two or more public areas dedicated to the transport of passengers that can be navigated independently by all persons with disabilities and reduced mobility

Note 1 to entry: In order to achieve this, the route can be divided to better meet the needs of all persons with disabilities and reduced mobility. The combination of all the parts of the obstacle-free route constitutes the route accessible for all persons with disabilities and reduced mobility.

3.2

step free route

division of an obstacle-free route that meets the needs of mobility impaired persons by avoiding changes in level or, when they cannot be avoided, are bridged via ramps or lifts

3.3

weather protection

protection against the effects of weather

Note 1 to entry: The level of weather protection is regulated by national rules.

4 Symbols and abbreviations

Table 1 — Abbreviations

Abbreviation	Designation
EN	European Standard (Euronorm)
PRM	Persons with disabilities and persons with reduced mobility
TSI	Technical Specification for Interoperability
UIC	Union Internationale des Chemins de Fer

Table 2 — Symbols

Symbol	Designation	Unit
km	Length	kilometre
mm	Length	millimetre
N	Force	Newton