
Številni podatki o standardu

Railway applications - Designation system for railway vehicles - Part 1: General principles

Bahnanwendungen - Kennzeichnungssystematik für Schienenfahrzeuge - Teil 1: Grundlagen

Applications ferroviaires - Systeme de classification pour véhicules ferroviaires - Partie 1: Regles générales

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ICS:

01.110	V^@ã}æ[\^ { }æ&æ	Technical product documentation
45.060.01	Železniška vozila na splošno	Railway rolling stock in general

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English Version

Railway applications - Designation system for railway vehicles - Part 1: General principles

Applications ferroviaires - Système de classification pour
véhicules ferroviaires - Partie 1: Règles générales

Bahnanwendungen - Kennzeichnungssystematik für
Schienenfahrzeuge - Teil 1: Grundlagen

This European Standard was approved by CEN on 6 March 2006.

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Foreword

This document (EN 15380-1:2006) has been prepared by Technical Committee CEN/TC 256 "Railway applications", the secretariat of which is held by DIN.

This document shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by October 2006, and conflicting national standards shall be withdrawn at the latest by October 2006.

At the request of DIN, this European Standard has been submitted to the PQ procedure and has been approved as there have been no comparable standards in Europe to date.

The EN 15380 series of standards, *Railway applications – Designation system for railway vehicles* consists of:

- *Part 1: General principles*
- *Part 2: Product groups*
- *Part 3: Designation of installation sites and locations*

This European Standard is based on Part 1 of the DIN 25002 series of standards. After approval, the text of DIN 25002-1 submitted to the PQ procedure was brought into line with the formal requirements of an EN. The resulting editorial amendments have led to slightly modified wordings but they have no effect on the technical content of this document.

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

Introduction

This European Standard has created a uniform, general facility for classifying railway vehicles suitable for all project viewpoints. The following aspects are used as project viewpoints:

- function viewpoint and/or
- product viewpoint and/or
- location viewpoint.

This standard forms the basis for:

- definitions of requirements, tenders, contracts, specifications;
- creation of standard sub-systems;
- design (requirements, specifications);
- demarcation of areas of responsibility;
- product planning support;
- project planning support;
- comparison of different system solutions;
- maintenance and repair specifications;
- reliability studies, data acquisition;
- allocation of equipment to functions;
- designation of functions, products and locations .

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1 Scope

As a railway-specific technical standard, this European Standard specifies the designation system for technical products and technical project documentation. It takes into account the general rules for structuring principles according to EN 61346-1 and designations according to EN 61355.

The European Standard specifies the structure and content of the designation sets required in the technical project documentation.

The designation depends on the aspect used, see Annex C, individually or in designation set combinations, i.e.:

- product groups according to EN 15380-2;
- installation site/location according to EN 15380-3;
- function structure according to DIN 25002-5.

2 Normative references

The following referenced documents are indispensable for the application of this European Standard. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 15380-2, *Railway applications – Designation system for railway vehicles – Part 2: Product groups*

EN 15380-3:2006, *Railway applications – Designation system for railway vehicles – Part 3: Designation of installation sites and locations*

EN 61082-1, *Preparation of documents used in electrotechnology – Part 1: General requirements Amendment A2 (IEC 61082-1:1991)*

EN 61346-1, *Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations - Part 1: Basic rules (IEC 61346-1:1996)*

EN 61346-2:2000, *Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations – Part 2: Classification of objects and codes for classes (IEC 61346-2:2000)*

EN 61355, *Classification and designation of documents for plants, systems and equipment (IEC 61355:1997)*

ISO/IEC 8859-1, *Information technology – 8-bit single-byte coded graphic character sets – Part 1: Latin alphabet No. 1*

DIN 25002-3:2001, *Railway applications – Designation system for rail vehicles – Part 3: Classification of documents¹⁾*

DIN 25002-5, *Railway applications – Designation system for rail vehicles – Part 5: Function groups¹⁾*

1) Available from: Beuth Verlag GmbH, D-10772 Berlin

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 61346-2:2000 and the following apply.

3.1

subclass

part of a class in a designation set; combination of data positions in the designation hierarchy

[EN 61346-2:2000]

3.2

installation

combination of technical devices; installations can be divided into subinstallations

3.3

installation complex

consists of several equivalent installations or installations working together

NOTE For the purposes of this standard, this always means the complete railway vehicle ready for operation

3.4

installation site

topographic position of vehicle units, structural units and combined assemblies in a closed train composition

3.5

object

smallest entity treated that is designated in a technical product that fulfils a task (e.g. lifting, lowering, measuring, controlling) together with other products. For the purposes of this standard, this does not mean tools, clamp meters, machine tools or inventory, for example

3.6

data position

position for writing down an alphabetical, numerical or special character

3.7

location

information on the spatial position of an object, of a structural unit, of a technical device in a combination group, e.g. axle, driver's desk

3.8

functional assignment for railway vehicles

linking of related functions between the installation complexes of a rail transport system

3.9

common assignment for railway vehicles

combination of all installation complexes to form one rail transport system

3.10

class

part of a designation set; combination of subclasses in the designation hierarchy

3.11

classification character

subdivides classes for better comprehension

3.12
code letter

an alphabetical character (Latin upper case letters excluding I and O) used for classification

3.13
designation

designation set or combination of several designation sets used for the coded representation of designation tasks and certain information

3.14
designation set

a classified combination of correlated information

3.15
railway vehicle

track-bound vehicle guided and borne on rails

NOTE Trolley buses are regarded as railway vehicles.

3.16
rail transport system

land-bound transport system for conveying passengers and goods between fixed locations with fixed, movable and logistical devices (see common assignment)

3.17
technical device

structural and/or functional combination of objects for fulfilling a technical task

3.18
subinstallation

part of an installation

3.19
prefix sign

identifies (names) the smallest designated entity treated

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4 General principles of the designation system

4.1 General

The basic principles for the designation of functions, products and locations shall be taken into account according to EN 61346-1.

4.2 Structuring of the designation

These designations are structured according to the following criteria:

- function-oriented structure (=);
- product-oriented structure (-);
- location-oriented structure (+).

The structures have equal status and are independent of each other. The designation corresponds to the task set. The designation can be used singly or in a combination. However, it is not necessary always to use all possible designations.

The prefix sign "&" according to EN 61355 is used for designating the document type. Prefix signs for other designation tasks are given in EN 61346-2.

5 Rules for the structure of designation sets

The following rules apply based on EN 61346-1 and EN 61346-2

Rule 1: The designation sets are identified by prefix signs, with their own data positions.

Rule 2: The designation sets are subdivided into classes. These consist of one or more subclasses. Within one designation set, the entities decreasing in interest are designated from left to right.

Rule 3: Each subclass consists of a maximum of three data positions not all of which, however, have to be written, depending on the case. Within a subclass, only alphabetical (A) or numerical (N) characters are permitted.

Rule 4: Only Latin upper cases letters from A to Z excluding "I" and "O" are permitted as alphabetical data positions. For numerical data positions, Arabic numerals are used.

Rule 5: Subclasses at the beginning and/or end of a designation set can be omitted. The rules on this are specified in this technical standard.

Rule 6: Certain designation sets are subdivided between classes by the classification character "." with its own data position. If the designation set is subdivided by the classification character "." (ASCII Code 46 according to ISO/IEC 8859-1), rule 5 applies for the parts of the designation set to the left and right of the classification character.

NOTE The combination of designation sets and the method of writing the characters are described in clause 7.

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6 Structure and content of the designation sets

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6.1 General

The structure and content of the designation sets are illustrated in the following subclauses. For the individual designation sets, the structure specified for railway vehicles is illustrated in each case with the number of the subclasses and data positions used.

NOTE See Annexes B and C.

6.2 Function aspect

6.2.1 "Function-oriented structure" designation set

This designation set is used to designate functional relationships between the functional agents of a railway vehicle; a new draft is in preparation. The structure is shown in Figure 1.