

Railway applications - Technical drawings - Part 4: Data exchange

Technical drawings - Railway applications - Part 4:
Data exchange

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 15016-4:2006 sisaldab Euroopa standardi EN 15016-4:2006 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 30.03.2006 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 15016-4:2006 consists of the English text of the European standard EN 15016-4:2006.</p> <p>This document is endorsed on 30.03.2006 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p>Käsitlusala:</p> <p>This European Standard specifies the basis of an administrative process for exchange of data such as technical drawings, design parts lists (see EN 15016-2) and other related technical documents for railway applications.</p>	<p>Scope:</p> <p>This European Standard specifies the basis of an administrative process for exchange of data such as technical drawings, design parts lists (see EN 15016-2) and other related technical documents for railway applications.</p>
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ICS 01.100.01, 45.020

Võtmesõnad:

ICS 01.100.01; 45.020

English Version

Technical drawings - Railway applications - Part 4: Data exchange

Applications ferroviaires - Dessins techniques - Partie 4:
Echange des données

Technische Zeichnungen - Bahnanwendungen - Teil 4:
Datenaustausch

This European Standard was approved by CEN on 21 December 2005.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of 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 United Kingdom.



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Foreword

This European Standard (EN 15016-4:2006) 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 August 2006, and conflicting national standards shall be withdrawn at the latest by August 2006.

This European Standard has been prepared under a mandate M/024 given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

This European Standard has been prepared under Mode 4 co-operation with CENELEC/TC9X. In the event of an amendment being required to this European Standard, the co-op TC shall be consulted before proceeding to amend this European Standard.

Particular considerations were made to standardize the computerised transfer of the content of the documents, its output on conventional information carrier and its reproduction without loss of quality. Remarks in International Standards with regard to document handling are respected and supported by this European Standard and if necessary adopted or completed to the well-established procedures in the European railway business.

This standard "Technical drawings — Railway applications" consists of the following parts:

- EN 15016-1: General principles
- EN 15016-2: Parts lists
- EN 15016-3: Handling of modifications of technical documents
- EN 15016-4: Data exchange

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 United Kingdom.

Introduction

In railway business, the customer very often requires, as part of a contract, technical documents in a certain form. In order to support co-operation and effective exchange of information between customers, suppliers and partners, it is necessary to have the document requirements precisely defined.

This European Standard refers to EN, ISO or IEC standards dealing with data fields. In cases where ISO or IEC standards are not sufficiently precise, this European Standard gives specific details. These additions to EN, ISO and IEC standards facilitate the exploitation and the administration of the data exchange.

These requirements have been drawn up in order to accommodate:

- the large variety of users;
- ease of transfer of documents;
- any specific series of documentation related to the railway material they define.

Special consideration has been given to those producing drawings by computer or micro-copying and their reproduction without loss of quality.

NOTE The range of documents covers documents such as specifications, conditions for acceptance or further technical specifications that may not be graphically represented. This is meant to highlight the difference between "graphical representation" and "verbal description".

1 Scope

This European Standard specifies the basis of an administrative process for exchange of data such as technical drawings, design parts lists (see EN 15016-2) and other related technical documents for railway applications.

This European Standard applies to all railway organisations and parties concerned with the exchange of technical documents like drawings, parts lists and related technical documents that are officially numbered. Furthermore, it applies to suppliers preparing these documents on behalf of the railway companies or railway network users.

The basic requirements apply to all drawings, parts lists and related technical documents independently of the type of data e.g. graphical information (images), database types or types of data carriers.

These rules are applied by all railway companies and railway industry in the countries of the European Union (EU). Alternatively, the application of these rules can be agreed between contract partners who are settled in the EU and partners who are not settled in the EU by means of a contract and/or mutual agreement.

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 15016-2, *Technical drawings — Railway applications — Part 2: Parts lists*

EN 15016-3, *Technical drawings — Railway applications — Part 3: Handling of modifications of technical documents*

EN 61346-1:1996, *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 61355:1997, *Classification and designation of documents for plants, systems and equipment* (IEC 61355:1997)

EN 82045-2:2005, *Document management — Part 2: Metadata elements and information reference model* (IEC 82045-2:2004)

EN ISO 5457:1999, *Technical product documentation — Sizes and layout of drawing sheets* (ISO 5457:1999)

ISO 639-1, *Codes for the representation of names of languages — Part 1: Alpha-2 code*

ISO/IEC 6523-1:1998, *Information technology — Structure for the identification of organizations and organization parts — Part 1: Identification of organization identification schemes*

ISO/IEC 8859-1:1998, *Information technology — 8-bit single-byte coded graphic character sets — Part 1: Latin alphabet No. 1*

ISO 8601:2004, *Data elements and interchange formats — Information interchange — Representation of dates and times*