

SVENSK STANDARD SS-EN IEC 81346-2

FastställdUtgåvaSidaAnsvarig kommitté2019-10-2321 (1+94)SEK TK 3

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Struktureringsprinciper och referensbeteckningar – Del 2: Klassificering av objekt och koder för klasser

Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 2: Classification of objects and codes for classes

Som svensk standard gäller europastandarden EN IEC 81346-2:2019. Den svenska standarden innehåller den officiella engelska språkversionen av EN IEC 81346-2:2019.

Nationellt förord

Europastandarden EN IEC 81346-2:2019

består av:

- europastandardens ikraftsättningsdokument, utarbetat inom CENELEC
- IEC 81346-2, Second edition, 2019 Industrial systems, installations and equipment and industrial products Structuring principles and reference designations Part 2: Classification of objects and codes for classes

utarbetad inom International Electrotechnical Commission, IEC.

Tidigare fastställd svensk standard SS-EN 81346-2, utgåva 1, 2010 (engelsk språkversion) och SS-EN 81346-2, utgåva 1, 2010 (svensk språkversion), gäller ej fr o m 2022-07-23.

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EUROPEAN STANDARD NORME EUROPÉENNE EUROPÄISCHE NORM

EN IEC 81346-2

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Supersedes EN 81346-2:2009 and all of its amendments and corrigenda (if any)

English Version

Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations -Part 2: Classification of objects and codes for classes (IEC 81346-2:2019)

Systèmes industriels, installations et appareils, et produits industriels - Principes de structuration et désignations de référence - Partie 2: Classification des objets et codes pour les classes (IEC 81346-2:2019) Industrielle Systeme, Anlagen und Ausrüstungen und Industrieprodukte - Strukturierungsprinzipien und Referenzkennzeichnung - Teil 2: Klassifizierung von Objekten und Kennbuchstaben für Klassen (IEC 81346-2:2019)

This European Standard was approved by CENELEC on 2019-07-23. CENELEC 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.

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European Committee for Electrotechnical Standardization Comité Européen de Normalisation Electrotechnique Europäisches Komitee für Elektrotechnische Normung

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

The text of document 3/1393/FDIS, future edition 2 of IEC 81346-2, prepared by IEC/TC 3 "Information structures and elements, identification and marking principles, documentation and graphical symbols" was submitted to the IEC-CENELEC parallel vote and approved by CENELEC as EN IEC 81346-2:2019.

The following dates are fixed:

- latest date by which the document has to be implemented at national (dop) 2020-04-23 level by publication of an identical national standard or by endorsement
- latest date by which the national standards conflicting with the (dow) 2022-07-23 document have to be withdrawn

This document supersedes EN 81346-2:2009 and all of its amendments and corrigenda (if any).

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CENELEC shall not be held responsible for identifying any or all such patent rights.

Endorsement notice

The text of the International Standard IEC 81346-2:2019 was approved by CENELEC as a European Standard without any modification.

In the official version, for Bibliography, the following notes have to be added for the standards indicated:

IEC 60898 (series)	NOTE	Harmonized as EN 60898 (series)
ISO 12006-2:2015	NOTE	Harmonized as EN ISO 12006-2 ¹ (not modified)

¹ Under preparation. Stage at the time of publication: prEN ISO 12006-2:2019.

Annex ZA

(normative)

Normative references to international publications with their corresponding European publications

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

NOTE 1 Where an International Publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

NOTE 2 Up-to-date information on the latest versions of the European Standards listed in this annex is available here: www.cenelec.eu.

Publication	Year	<u>Title</u>			<u>EN/HD</u>	Year
IEC 81346-1	2009	equipment Structuring	and ind	ustrial produc s and refe		2009

CONTENTS

FOREWORD	3
INTRODUCTION	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Classification principles	7
4.1 General	7
4.2 Relation between classification and composition	
4.3 Classification schemes of this document	
5 Classification scheme for the inherent function of objects	
5.1 General	
5.2 Entry classes	
5.3 Complete classification scheme	
6 Classification of spaces	
7 Classification of objects applicable for infrastructure	
Annex A (informative) Classification criteria for objects	
A.1 General	
A.2 Structure of classes and subclassesA.3 Definition of classes	
Annex B (informative) Object classes related to a generic process	
Annex C (informative) Object classes related to objects in a generic infrastructure	
Annex D (informative) Comparison between Tables 1, 2 and 3 of this document and	.05
Tables 1 and 2 of IEC 81346-2:2009	. 87
Annex E (informative) Basic requirements for the development of IEC 81346-2	.91
Bibliography	. 92
Figure 1 – Illustration of a classification hierarchy and a composition hierarchy	8
Figure A.1 – Illustration of class hierarchy	.83
Figure B.1 – Object classes related to a generic process	.84
Figure C.1 – Object classes related to objects in a generic infrastructure	.86
Table 1 – Entry classes	. 10
Table 2 – First two levels of the classification scheme for inherent function of objects	.11
Table 3 – Complete classification scheme for inherent function of objects	.26
Table 4 – Classification scheme for spaces	.70
Table 5 – Classes of infrastructure objects	
Table 6 – Examples of branch-related classes B to U of Table 5	
Table D.1 – Comparison between Table 1 of the current edition and Table 1 of IEC	
81346-2:2009	. 87
Table D.2 – Comparison between Table 2 and Table 3 of the current edition and Table	
2 of IEC 81346-2:2009	. 87

INTERNATIONAL ELECTROTECHNICAL COMMISSION

INDUSTRIAL SYSTEMS, INSTALLATIONS AND EQUIPMENT AND INDUSTRIAL PRODUCTS – STRUCTURING PRINCIPLES AND REFERENCE DESIGNATIONS –

Part 2: Classification of objects and codes for classes

FOREWORD

- 1) The International Electrotechnical Commission (IEC) is a worldwide organization for standardization comprising all national electrotechnical committees (IEC National Committees). The object of IEC is to promote international co-operation on all questions concerning standardization in the electrical and electronic fields. To this end and in addition to other activities, IEC publishes International Standards, Technical Specifications, Technical Reports, Publicly Available Specifications (PAS) and Guides (hereafter referred to as "IEC Publication(s)"). Their preparation is entrusted to technical committees; any IEC National Committee interested in the subject dealt with may participate in this preparatory work. International, governmental and non-governmental organizations liaising with the IEC also participate in this preparation. IEC collaborates closely with the International Organization for Standardization (ISO) in accordance with conditions determined by agreement between the two organizations.
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International Standard IEC 81346-2 has been prepared by IEC technical committee 3: Information structures and elements, identification and marking principles, documentation and graphical symbols, in cooperation with ISO technical committee 10: Technical product documentation.

It is published as a double logo standard.

It has the status of a horizontal standard in accordance with IEC Guide 108.

This second edition cancels and replaces the first edition published in 2009. This edition constitutes a technical revision.

This edition includes the following significant technical changes with respect to the previous edition:

a) The entry classes of the classification scheme have been defined to reflect the "inherent function" of the object classified;

- 4 -

- b) The classes are defined to align with the principles of ISO 22274 and ISO 704;
- c) A three-level classification scheme has been defined, which provides a greater flexibility for the designer in some technical fields;
- d) Classes are defined by their definition and provided with a preferred term. Examples are provided if needed;
- e) A separate classification scheme for spaces has been provided.

The text of this International Standard is based on the following documents:

FDIS	Report on voting	
3/1393/FDIS	3/1402/RVD	

Full information on the voting for the approval of this International Standard can be found in the report on voting indicated in the above table.

This document has been drafted in accordance with the ISO/IEC Directives, Part 2.

A list of all parts in the IEC 81346 series, published under the general title *Industrial systems*, *installations and equipment and industrial products* – *Structuring principles and reference designations*, can be found on the IEC website.

The committee has decided that the contents of this document will remain unchanged until the stability date indicated on the IEC website under "http://webstore.iec.ch" in the data related to the specific document. At this date, the document will be

- reconfirmed,
- withdrawn,
- replaced by a revised edition, or
- amended.

IMPORTANT – The 'colour inside' logo on the cover page of this publication indicates that it contains colours which are considered to be useful for the correct understanding of its contents. Users should therefore print this document using a colour printer.

INTRODUCTION

The aim of this document is to establish classification schemes for objects with assigned letter codes for the defined classes, which can be applied throughout all technical areas, e.g. electric, mechanical, process and civil engineering as well as all branches of industry, e.g. energy, chemical, construction, automotive, shipbuilding and marine. The letter codes are intended for use with the rules for the construction of reference designations in accordance with IEC 81346-1 and other parts of the ISO/IEC 81346 series. The letter codes can also be used "stand-alone" as a generic type designation where a type of component is to be indicated, for example in specifications.

The classification scheme in Clause 5 of this document is an enumerative and faceted classification scheme with the inherent function as the entry class. It is made in accordance with the rules in ISO 704 and the guidelines in ISO 22274.

At the entry level, as shown in Table 1, the inherent function is used to narrow down the areas of applicability of the individual classes to a manageable size. For the sub-divisions of the entry classes, faceted approaches are applied to specify the nature of the concepts contained in the leaf classes.

By applying this method, this document provides stable class codes for objects (including systems and system elements), which are independent of how the objects are used or applied in any design during the entire lifecycle.

Any class is defined by its definition only. Users should select the appropriate class for their object to be classified based on the definition, and not rely upon the class name or the examples.

INDUSTRIAL SYSTEMS, INSTALLATIONS AND EQUIPMENT AND INDUSTRIAL PRODUCTS – STRUCTURING PRINCIPLES AND REFERENCE DESIGNATIONS –

Part 2: Classification of objects and codes for classes

1 Scope

This part of IEC 81346 establishes classification schemes with defined object classes and their associated letter codes, and is primarily intended for use in reference designations and for designation of generic types.

The classification schemes are applicable for objects in all technical disciplines and all branches of industry.

This document is a horizontal publication also intended for use by technical committees in preparation of publications related to reference designations in accordance with the principles laid down in IEC Guide 108.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

IEC 81346-1:2009, Industrial systems, installations and equipment and industrial products – Structuring principles and reference designations – Part 1: Basic rules