



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 81714-2:2007

ICS 01.080.50

**DESIGN OF GRAPHICAL SYMBOLS FOR
USE IN THE TECHNICAL DOCUMENTATION
OF PRODUCTS -- PART 2: SPECIFICATION
FOR GRAPHICAL SYMBOLS IN A
COMPUTER SENSIBLE FORM, INCLUDING
GRAPHICAL SYMBOLS FOR A
REFERENCE LIBRARY, AND
REQUIREMENTS FOR THEIR
INTERCHANGE (IEC 81714-2:2006 (EQV))**

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*This Irish Standard was
published under the authority
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comes into effect on:
4 May 2007*

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EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

EN 81714-2

March 2007

ICS 01.080.50

Supersedes EN 81714-2:1998

English version

**Design of graphical symbols
for use in the technical documentation of products -
Part 2: Specification for graphical symbols
in a computer sensible form, including graphical symbols
for a reference library, and requirements for their interchange
(IEC 81714-2:2006)**

Création de symboles graphiques
utilisables dans la documentation
technique de produits -
Partie 2: Spécification
pour symboles graphiques
sous forme adaptée à l'ordinateur,
y compris les symboles pour bibliothèque
de références et exigences relatives
à leur échange
(CEI 81714-2:2006)

Gestaltung von graphischen Symbolen
zur Anwendung in der technischen
Produktdokumentation -
Teil 2: Spezifikation für graphische
Symbole in rechnerinterpretierbarer Form
einschließlich graphischer Symbole
für eine Referenzbibliothek
und Anforderungen
für ihren Datenaustausch
(IEC 81714-2:2006)

This European Standard was approved by CENELEC on 2006-10-01. 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.

Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CENELEC 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 CENELEC member into its own language and notified to the Central Secretariat has the same status as the official versions.

CENELEC members are the national electrotechnical committees of Austria, Belgium, Bulgaria, Cyprus, the Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, the Netherlands, Norway, Poland, Portugal, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland and the United Kingdom.

CENELEC

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

Central Secretariat: rue de Stassart 35, B - 1050 Brussels

Foreword

The text of the International Standard IEC 81714-2:2006, prepared by IEC TC 3, Information structures, documentation and graphical symbols, in cooperation with ISO subcommittee SC 1, Basic conventions, of ISO technical committee 10, Technical product documentation, was submitted to the formal vote and was approved by CENELEC as EN 81714-2 on 2006-10-01 without any modification.

This European Standard supersedes EN 81714-2:1998.

The main changes with respect to EN 81714-2:1998 are as follows:

Subclauses 6.16, 6.18 and Annex D contain the major changes; other changes are basically updates.

The following dates were fixed:

- latest date by which the EN has to be implemented
at national level by publication of an identical
national standard or by endorsement (dop) 2007-10-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2009-10-01

Annex ZA has been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 81714-2:2006 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:

| | | |
|--------------|------|---|
| ISO 10303-1 | NOTE | Harmonized as ENV ISO 10303-1:1995 (not modified). |
| ISO 10303-11 | NOTE | Harmonized as ENV ISO 10303-11:1995 (not modified). |
| ISO 10303-21 | NOTE | Harmonized as ENV ISO 10303-21:1995 (not modified). |
| IEC 60445 | NOTE | Harmonized as EN 60445:2000 (not modified). |

Annex ZA (normative)

Normative references to international publications with their corresponding European publications

The following referenced documents are indispensable for the application 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 When an international publication has been modified by common modifications, indicated by (mod), the relevant EN/HD applies.

| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-----------------|---|-----------------------------|----------------------------|
| IEC 60617 | Data-base | Graphical symbols for diagrams | - | - |
| IEC 61082-1 | - ¹⁾ | Preparation of documents used in electrotechnology - Part 1: Rules | EN 61082-1 | 2006 ²⁾ |
| IEC 61286 (mod) | 2001 | Information technology - Coded graphic character set for use in the preparation of documents used in electrotechnology and for information interchange | EN 61286 | 2002 |
| IEC 61346-1 | 1996 | Industrial systems, installations and equipment and industrial products - Structuring principles and reference designations - Part 1: Basic rules | EN 61346-1 | 1996 |
| IEC 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 | EN 61346-2 | 2000 |
| IEC 61360-1 A1 | 2002 2003 | Standard data element types with associated classification scheme for electric components - Part 1: Definitions - Principles and methods | EN 61360-1 A1 | 2002 2004 |
| IEC 61360-4 | - ¹⁾ | Standard data element types with associated classification scheme for electric components - Part 4: IEC reference collection of standard data element types and component classes | EN 61360-4 + corr. December | 2005 ²⁾ 2005 |
| IEC 61666 | 1997 | Industrial systems, installations and equipment and industrial products - Identification of terminals within a system | EN 61666 | 1997 |

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

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| <u>Publication</u> | <u>Year</u> | <u>Title</u> | <u>EN/HD</u> | <u>Year</u> |
|--------------------|-------------|---|-------------------|-------------|
| IEC 61966-2-1 | 1999 | Multimedia systems and equipment - Colour measurement and management - Part 2-1: Colour management - Default RGB colour space - sRGB | EN 61966-2-1 | 2000 |
| IEC 81714-3 | 2004 | Design of graphical symbols for use in the technical documentation of products - Part 3: Classification of connect nodes, networks and their encoding | - | - |
| ISO/IEC 646 | 1991 | Information technology - ISO 7-bit coded character set for information interchange | - | - |
| ISO/IEC 7942-1 | 1994 | Information technology - Computer graphics and image processing - Graphical Kernel System (GKS) - Part 1: Functional description | EN ISO/IEC 7942-1 | 1995 |
| ISO/IEC 9592-1 | 1997 | Information technology - Computer graphics and image processing - Programmer's Hierarchical Interactive Graphics System (PHIGS) - Part 1: Functional description | - | - |
| ISO 128-20 | 1996 | Technical drawings - General principles of presentation - Part 20: Basic conventions for lines | EN ISO 128-20 | 2001 |
| ISO 128-21 | 1997 | Technical drawings - General principles of presentation - Part 21: Preparation of lines by CAD systems | EN ISO 128-21 | 2001 |
| ISO 639-1 | 2002 | Codes for the representation of names of languages - Part 1: Alpha-2 code | - | - |
| ISO 3098-0 | 1997 | Technical product documentation - Lettering - Part 0: General requirements | EN ISO 3098-0 | 1997 |
| ISO 3098-5 | 1997 | Technical product documentation - Lettering - Part 5: CAD lettering of the Latin alphabet, numerals and marks | EN ISO 3098-5 | 1997 |
| ISO 3166-1 | 1997 | Codes for the representation of names of countries and their subdivisions - Part 1: Country codes | EN ISO 3166-1 | 1997 |
| ISO 6428 | 1982 | Technical drawings - Requirements for microcopying | EN ISO 6428 | 1999 |
| ISO 6523-1 | 1998 | Information technology - Structure for the identification of organizations and organization parts - Part 1: Identification of organization identification schemes | - | - |
| ISO 10303-201 | 1994 | Industrial automation systems and integration - Product data representation and exchange - Part 201: Application protocol: Explicit draughting | ENV ISO 10303-201 | 1995 |

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