



National Standards Authority of Ireland
Údarás um Chaighdeáin Náisiúnta na hÉireann

IRISH STANDARD

I.S. EN 61310-1:2008

ICS 13.110

**"SAFETY OF MACHINERY - INDICATION,
MARKING AND ACTUATION -- PART 1:
REQUIREMENTS FOR VISUAL, ACOUSTIC
AND TACTILE SIGNALS" (IEC 61310-1:2007
(EQV))**

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I.S. EN 61310-1:2008

EUROPEAN STANDARD

EN 61310-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

February 2008

ICS 13.110

Supersedes EN 61310-1:1995

English version

**Safety of machinery -
Indication, marking and actuation -
Part 1: Requirements for visual, acoustic and tactile signals
(IEC 61310-1:2007)**

Sécurité des machines -
Indication, marquage et manoeuvre -
Partie 1: Exigences pour les signaux
visuels, acoustiques et tactiles
(CEI 61310-1:2007)

Sicherheit von Maschinen -
Anzeigen, Kennzeichen und Bedienen -
Teil 1: Anforderungen an sichtbare,
hörbare und tastbare Signale
(IEC 61310-1:2007)

This European Standard was approved by CENELEC on 2007-12-01. 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

I.S. EN 61310-1:2008

EN 61310-1:2008

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Foreword

The text of document 44/540/FDIS, future edition 2 of IEC 61310-1, prepared by IEC TC 44, Safety of machinery - Electrotechnical aspects, was submitted to the IEC-CENELEC parallel vote and was approved by CENELEC as EN 61310-1 on 2007-12-01.

This European Standard supersedes EN 61310-1:1995.

EN 61310-1:2007 includes the following significant technical changes with respect to EN 61310-1:1995:

- adapted to the basic standards EN 60073, IEC 60417, ISO 3864-1, ISO 7000 and ISO 7010.

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) 2008-09-01
- latest date by which the national standards conflicting
with the EN have to be withdrawn (dow) 2010-12-01

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and covers essential requirements of EC Directives MD (98/37/EC) and MD (2006/42/EC). See Annex ZZ.

Annexes ZA and ZZ have been added by CENELEC.

Endorsement notice

The text of the International Standard IEC 61310-1:2007 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 80416 | NOTE | Harmonized in EN 80416 series (not modified). |
| IEC 61310-3 | NOTE | Harmonized as EN 61310-3:2008 (not modified). |
| ISO 9241-3 | NOTE | Harmonized as EN 29241-3:1993 (not modified). |
| ISO 12100-1 | NOTE | Harmonized as EN ISO 12100-1:2003 (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 60073 | 2002 | Basic and safety principles for man-machine interface, marking and identification - Coding principles for indicators and actuators | EN 60073 | 2002 |
| IEC 60204-1 (mod) | 2005 | Safety of machinery - Electrical equipment of machines - Part 1: General requirements | EN 60204-1 | 2006 |
| IEC 60417 | Data base | Graphical symbols for use on equipment | – | – |
| ISO 3864-1 | 2002 | Graphical symbols - Safety colours and safety signs - Part 1: Design principles for safety signs in workplaces and public areas | – | – |
| ISO 7000 | 2004 | Graphical symbols for use on equipment - Index and synopsis | – | – |
| ISO 7010 | 2003 | Graphical symbols - Safety colours and safety signs - Safety signs used in workplaces and public areas | – | – |
| ISO 7731 | 2003 | Ergonomics - Danger signals for public and work areas - Auditory danger signals | EN ISO 7731 | 2005 |
| ISO 13850 | – ¹⁾ | Safety of machinery - Emergency stop - Principles for design | EN ISO 13850 | 2006 ²⁾ |

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

Annex ZZ
(informative)

Coverage of Essential Requirements of EC Directives

Annex ZZA
(informative)

Coverage of Essential Requirements of Directive 98/37/EC

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers the following essential requirements out of those given in Annex I of the EC Directive 98/37/EC, amended by Directive 98/79/EC:

- ER 1.7.0;
- ER 1.7.1.

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directive concerned.

WARNING: Other requirements and other EC Directives may be applicable to the products falling within the scope of this standard.

Annex ZZB
(informative)

Coverage of Essential Requirements of Directive 2006/42/EC

This European Standard has been prepared under a mandate given to CENELEC by the European Commission and the European Free Trade Association and within its scope the standard covers the following essential requirements out of those given in Annex I of the EC Directive 2006/42/EC:

- ER 1.7.1;
- ER 1.7.1.1;
- ER 1.7.1.2.

Compliance with this standard provides one means of conformity with the specified essential requirements of the Directive concerned.

WARNING: Other requirements and other EC Directives may be applicable to the products falling within the scope of this standard.

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