

ELEKTRILISED MÄNGUASJAD. OHUTUS

Electric toys – Safety

EESTI STANDARDI EESSÕNA**NATIONAL FOREWORD**

See Eesti standard EVS-EN 62115:2005+ A2+A11+A12 sisaldab Euroopa standardi EN 62115:2005 ja selle muudatuste A2:2011, A11:2012 ning A12:2015 ingliskeelset teksti.	This Estonian standard EVS-EN 62115:2005+A2+A11+A12 consists of the English text of the European standard EN 62115:2005 and its amendments A2:2011, A11:2012 ning A12:2015.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
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ICS 13.120, 97.200.50

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EUROPEAN STANDARD

EN 62115

NORME EUROPÉENNE

EUROPÄISCHE NORM

April 2005

ICS 97.200.50; 13.120

Supersedes EN 50088:1996 + amendments

English version

**Electric toys –
Safety**

(IEC 62115:2003 + A1:2004, modified)

Jouets électriques –
Sécurité

(CEI 62115:2003 + A1:2004, modifiée)

Elektrische Spielzeuge –
Sicherheit

(IEC 62115:2003 + A1:2004, modifiziert)

This European Standard was approved by CENELEC on 2004-12-07. 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, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

CENELEC

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

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Foreword

During the Copenhagen meeting in May 2003, the CENELEC Technical Committee TC 61 decided to submit the text of the International Standard IEC 62115:2003, prepared by IEC TC 61, to the Unique Acceptance Procedure together with CENELEC common modifications.

The text of the draft common modifications, circulated in March 2004, included the content of the future amendment 1 to IEC 62115:2003. In view of the publication of this amendment in IEC, the relevant common modifications have been deleted and amendment 1:2004 to IEC 62115:2003 has been included in the European Standard which was approved by CENELEC as EN 62115 on 2004-12-07.

This European Standard replaces EN 50088:1996 + A1:1996 + A2:1997 + corrigenda April 2001 + A3:2002.

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) 2006-01-01
- date on which national standards
conflicting with the EN have to be withdrawn (dow) 2008-01-01

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 Directive 88/378/EEC. See Annex ZZ.

NOTE The following print types are used:

- requirements: in roman type;
- *test specifications: in italic type;*
- notes: in small roman type.

Words in **bold** in the text are defined in Clause 3. When a definition concerns an adjective, the adjective and the associated noun are also in bold.

There are no special national conditions causing a deviation from this European Standard.

There are no national deviations from this European Standard.

Annexes ZA and ZZ have been added by CENELEC.

p NOTE In this document, p is used in the margin to indicate instructions for preparing the printed version.

Endorsement notice

The text of the International Standard IEC 62115:2003 + A1:2004 was approved by CENELEC as a European Standard with agreed common modifications as given below.

COMMON MODIFICATIONS

1 Scope

- p **Replace** "ISO 8124-1" by "EN 71".

2 Normative references

- p **Add:**

EN 71-1:1998, *Safety of toys Part 1: Mechanical and physical properties*

EN 71-3:1994, *Safety of toys Part 3: Migration of certain elements*

- p **Delete** ISO 8124-1 and ISO 8124-3.

3 Definitions

- p **3.5.5 Add** the following note:

NOTE Electronic components do not include resistors, capacitors and inductors.

4 General requirement

- p **Replace** the requirement by:

Toys shall be constructed so that they do not jeopardise the safety and/or health of users or third parties when they are used as intended or in a foreseeable way, bearing in mind the normal behaviour of children.

5 General conditions for the tests

- p **5.15 Replace** by:

5.15 *Before starting the tests, the toy is preconditioned by subjecting it to the tests of the following subclauses of EN 71-1, the batteries in position:*

- 8.5 Drop test, for **toys** having a mass less than 5 kg including batteries, irrespective of the age group;
- 8.21 Static strength test for sit-on or stand-on **toys**;
- 8.22 Dynamic strength test for wheeled ride-on **toys**;
- 8.4.2.1 Tension test, however, the force being 70 N independent of the dimensions and applicable independent of age group;
- 8.4.2.2 Tension test for seams, for toys having textile or other flexible materials covering batteries or other electrical parts.

NOTE Compliance with EN 71-1 is not checked after the preconditioning. However the security of the battery compartment cover is checked (see 14.6 and 14.7)."

6 Criteria for reduced testing

- p 6.1 **Replace** "Clauses 10 to 12" by "Clauses 10, 11.2 and 12".
- p 6.2 **Replace** "Clauses 10, 11" by "Clauses 9 (except 9.3 and 9.6), 10, 11".
- p **Add** the following requirement:

For battery compartments including button cell batteries, 17.1 is always applicable.

7 Marking and instructions

- p 7.1 In the second sentence of the second paragraph, **replace** "may" by "shall".
- In Note 1, **replace** "ISO 8124-1" by "EN 71-1".
- p 7.4 **Delete** the dashed item "- the types of batteries that may be used".

9 Heating and abnormal operation

- p 9.4 **Add** to the last sentence: "*and only inserted through holes where one pole can be seen from the outside*".

14 Construction

- p 14.2 **Delete** the second sentence of the second paragraph.

17 Screws and connections

- p 17.1 In the first line of Table 1, **replace** " $\leq 2,8$ " by " $2,8^a$ " and add the corresponding note to the table:

^a Screws having a diameter less than 2,8 mm are not tested.

20 Radiation, toxicity and similar hazards

- p In the second paragraph and in the note, **replace** "ISO 8124-3" by "EN 71-3".

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>
–	–	Safety of toys Part 1: Mechanical and physical properties	EN 71-1	1998
–	–	Safety of toys Part 3: Migration of certain elements	EN 71-3	1994
IEC 60068-2-75	– ¹⁾	Environmental testing Part 2-75: Tests - Test Eh: Hammer tests	EN 60068-2-75	1997 ²⁾
IEC 60083	– ¹⁾	Plugs and socket-outlets for domestic and similar general use standardized in member countries of IEC	–	–
IEC 60086-2	– ¹⁾	Primary batteries Part 2: Physical and electrical specifications	EN 60086-2	2001 ²⁾
IEC 60320-1	– ¹⁾	Appliance couplers for household and similar general purposes Part 1: General requirements	EN 60320-1	2001 ²⁾
IEC 60384-14	– ¹⁾	Fixed capacitors for use in electronic equipment Part 14: Sectional specification: Fixed capacitors for electromagnetic interference suppression and connection to the supply mains	–	–
IEC 60417-1	– ³⁾	Graphical symbols for use on equipment Part 1: Overview and application	–	–
IEC 60529	1989	Degrees of protection provided by enclosures (IP Code)	EN 60529 + corr. May	1991 1993

¹⁾ Undated reference.

²⁾ Valid edition at date of issue.

³⁾ Superseded by IEC 60417 database.

<u>Publication</u>	<u>Year</u>	<u>Title</u>	<u>EN/HD</u>	<u>Year</u>
IEC 60695-2-2	1991	Fire hazard testing Part 2: Test methods Section 2: Needle-flame test	EN 60695-2-2	1994
IEC 60695-2-11	– ¹⁾	Part 2-11: Glowing/hot-wire based test methods - Glow-wire flammability test method for end-products	EN 60695-2-11	2001 ²⁾
IEC 60695-2-13	– ¹⁾	Part 2-13: Glowing/hot-wire based test methods - Glow-wire ignitability test method for materials	EN 60695-2-13	2001 ²⁾
IEC 60695-10-2	– ¹⁾	Part 10-2: Abnormal heat - Ball pressure test	EN 60695-10-2	2003 ²⁾
IEC 60695-11-10	– ¹⁾	Part 11-10: Test flames - 50 W horizontal and vertical flame test methods	EN 60695-11-10	1999 ²⁾
IEC 60730-1 (mod)	1999	Automatic electrical controls for household and similar use Part 1: General requirements	EN 60730-1 A11 A12	2000 2002 2003
IEC 60738-1	– ¹⁾	Thermistors - Directly heated positive step-function temperature coefficient Part 1: Generic specification	EN 60738-1	1999 ²⁾
IEC 60825-1	1993	Safety of laser products Part 1: Equipment classification, requirements and user's guide	EN 60825-1 + corr. February	1994 1995
A1	1997		A1	2002
A2	2001		A2	2001
corr. 1	2002		+ corr. April	2004
IEC 61032	1997	Protection of persons and equipment by enclosures - Probes for verification	EN 61032	1998
IEC 61058-1 (mod)	2000	Switches for appliances Part 1: General requirements	EN 61058-1	2002 ⁴⁾
IEC 61558-2-7 (mod)	– ¹⁾	Safety of power transformers, power supply units and similar Part 2-7: Particular requirements for transformers for toys	EN 61558-2-7 A11	1997 ²⁾ 2002
ISO 7000	– ¹⁾	Graphical symbols for use on equipment - Index and synopsis	–	–
ISO 9772	– ¹⁾	Cellular plastics - Determination of horizontal burning characteristics of small specimens subjected to a small flame	–	–

⁴⁾ EN 61058-1 includes A1:2001 to IEC 61058-1:2000.