



SLOVENSKI STANDARD
SIST EN 16232:2013/oprA1:2017
01-maj-2017

Izdelki za otroke - Gugalnice za dojenčke - Dopolnilo A1

Child use and care articles - Infant swings

Artikel für Säuglinge und Kleinkinder - Babyschaukeln

Articles de puériculture - Balancelles suspendues pour enfant

Ta slovenski standard je istoveten z: EN 16232:2013/prA1

ICS:

97.190

Otroška oprema

Equipment for children

SIST EN 16232:2013/oprA1:2017

en,fr,de

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
EN 16232:2013
prA1

March 2017

ICS 97.190

English Version

Child use and care articles - Infant swings

Articles de puériculture - Balancelles suspendues pour
enfant

Artikel für Säuglinge und Kleinkinder - Babyschaukeln

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 252.

This draft amendment A1, if approved, will modify the European Standard EN 16232:2013. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, Former Yugoslav Republic of Macedonia, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents		Page
	European foreword	3
1	Modification to the European foreword	4
2	Modification to Clause 1, Scope	4
3	Modifications to Clause 2, Normative references	4
4	Modification to 4.6, Test probes for finger entrapment	4
5	Modification to Clause 6, Chemical hazards – migration of certain elements	5
6	Modification to Clause 7, Thermal hazards	8
7	Modification to 8.14.3, Test methods	8
8	Modification to 8.3, Entrapment hazards	9
9	Modification to 8.4.1.2.2, Test method for β and δ angles	9
10	Modification to 8.4.1.2.3, Test method for γ angle	9
11	Modification to 8.7, Hazards from entanglement in cords, ribbons and similar parts	10
12	Modification to Clause 9, Product information	11
13	Modification to 9.2.1, General requirements	11
14	Modification to 9.2.2, Requirements for infant swings with electrical components	11
15	Modification to 9.3, Purchase information	11
16	Modification to 9.4.1, General	11
17	Modification to 9.4.2, Warnings	11
18	Modifications to Annex B (informative), A-deviation	11
19	Addition of a new Annex C (normative), Warnings	12
20	Modifications to the final Bibliography	38

European foreword

This document (EN 16232:2013/prA1:2017) has been prepared by Technical Committee CEN/TC 252 "Child use and care articles", the secretariat of which is held by AFNOR.

This document is currently submitted to the CEN Enquiry.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association.

EN 16232:2013/prA1:2017 (E)**1 Modification to the European foreword**

Replace the 2nd paragraph with:

"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 [DAV +6 months] and conflicting national standards shall be withdrawn at the latest by [DAV + 12 months]."

2 Modification to Clause 1, Scope

Replace the whole Scope with the following one:

"This European Standard specifies safety requirements and test methods for chair mounted seats intended to be positioned on an adult chair to raise the sitting position of a child able to sit unaided up to an age of 36 months or a maximum weight of 15 kg.

This European Standard does not apply to cushions, pads and to products only aimed at restraining the child on a chair without raising the child's sitting position."

3 Modifications to Clause 2, Normative references

Add the following references:

"EN 71-2:2011+A1:2014, *Safety of toys — Part 2: Flammability*";

"EN 71-10:2005, *Safety of toys — Part 10: Organic chemical compounds — Sample preparation and extraction*";

"EN 71-11, *Safety of toys — Part 11: Organic chemical compounds — Methods of analysis*";

"EN 622-1, *Fibreboards — Specifications — Part 1: General requirements*";

"EN 717-1, *Wood-based panels — Determination of formaldehyde release — Part 1: Formaldehyde emission by the chamber method*";

"EN ISO 14184-1, *Textiles — Determination of formaldehyde — Part 1: Free and hydrolysed formaldehyde (water extraction method) (ISO 14184-1)*".

Replace "EN 71-3:1994" with "EN 71-3".

Delete:

"EN 1103, *Textiles — Fabrics for apparel — Detailed procedure to determine the burning behaviour*".

4 Modification to 4.6, Test probes for finger entrapment

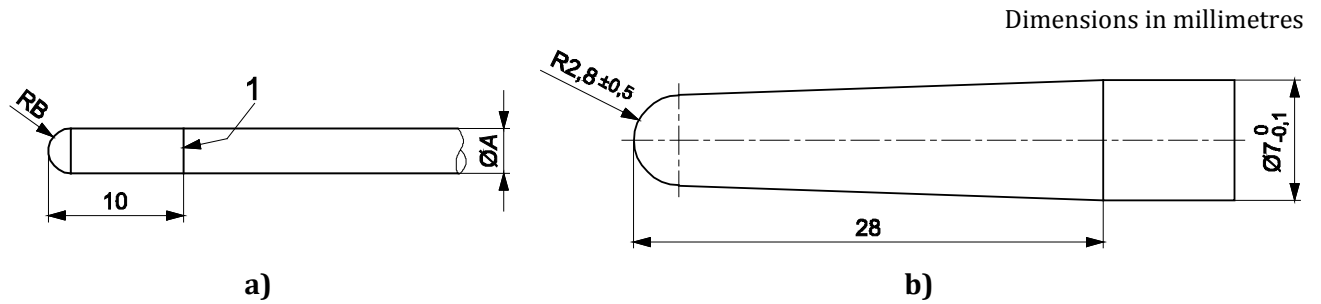
Replace the whole subclause with the following one:

"

4.6 Test probes for finger entrapment**4.6.1 Finger probes with hemispherical end**

Probes (see Figure 5) made from plastics or other hard, smooth material of diameters $\left(7_{-0,1}^0\right)$ mm and $\left(12_{0}^{+0,1}\right)$ mm with a full hemispherical end that can be mounted on a force-measuring device.

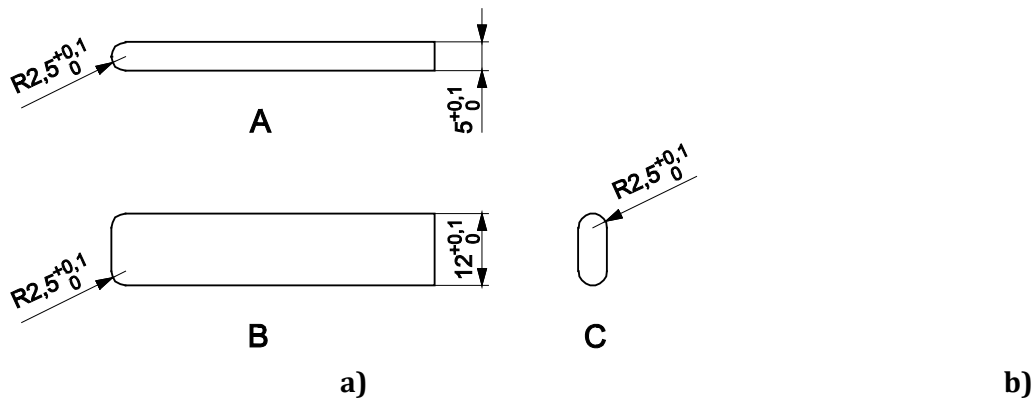
Probe for mesh made from plastics or other hard, smooth material, with a full hemispherical end and dimensions as stated in Figure 5, that can be mounted on a force-measuring device.

**Key**

Probe type	7 mm probe	12 mm probe	Mesh probe
Diameter A	$\left(7_{-0,1}^0\right)$	$\left(12_{0}^{+0,1}\right)$	$\left(7_{-0,1}^0\right)$
Diameter B	---	---	$\left(5,6_{-0,1}^0\right)$
Radius RB	half of diameter A	half of diameter A	half of diameter B
1	line scribed around circumference showing depth of penetration		

Figure 5 — Test probes with hemispherical end**4.6.2 Shape assessment probe**

Probe made from plastics or other hard, smooth material with the dimensions shown in Figure 6.

**Key**

- A front view
- B top view
- C side view
- D 3D view

Figure 6 — Shape assessment probe**5 Modification to Clause 6, Chemical hazards - migration of certain elements**

Replace Clause 6 with the following one:

"

EN 16232:2013/prA1:2017 (E)

"

6 Chemical hazards**6.1 General**

If testing is required, a separate unconditioned sample shall be used for the tests in Clause 6.

6.2 Migration of certain elements (see A.2)

The migration of elements from materials on exterior surfaces shall not exceed the limits listed in Table 1.

Table 1 — Limits for heavy metals migration

Element	mg/kg
Aluminium	70 000
Antimony	560
Arsenic	47
Barium	18 750
Boron	15 000
Cadmium	17
Chromium (III)	460
Chromium (VI)	0,2
Cobalt	130
Copper	7 700
Lead	160
Manganese	15 000
Mercury	94
Nickel	930
Selenium	460
Strontium	56 000
Tin	180 000
Organic tin	12
Zinc	46 000

When testing is performed, the method described in EN 71-3 shall be used.

Materials on the back of the backrest and the surface under the sitting surface are excluded from these requirements.

6.3 Formaldehyde (see A.2)

Accessible textile components shall not contain free and hydrolysed formaldehyde in excess of 30 mg/kg.

When testing is performed, the method described in EN ISO 14184-1 shall be used.

Resin-bonded wood components shall not release formaldehyde in excess of 0,124 mg/m³ (class E1 according to EN 622-1).

When testing is performed, the method described in EN 717-1 shall be used.

6.4 Colorants and primary aromatic amines (see A.2)

When tested in accordance with EN 71-10:2005, Annex A, if the colour fastness to sweat of accessible textile components is lower than 3-4 on the grey scale as defined in EN 20105-A03, the part shall be tested for colorants and primary aromatic amines with the methods described in EN 71-10 and EN 71-11 and the limits in Table 2 and Table 3 shall be fulfilled.

Table 2 — Colourants limits

Colour Index Generic Name (CIGN)	Colour Index Constitution Number (CICN)	CAS Number	Limit
Disperse Blue 1	64500	2475-45-8	Action limit
Disperse Blue 3	61505	2475-46-9	Action limit
Disperse Blue 106	111935	12223-01-7	Action limit
Disperse Blue 124	111938	61951-51-7	Action limit
Disperse Yellow 3	11855	2832-40-8	Action limit
Disperse Orange 3	11855	730-40-5	Action limit
Disperse Orange 37/76/59	11132	12223-33-5 13301-61-6	Action limit
Disperse Red 1	11110	2872-52-8	Action limit
Solvent Yellow 1	11000	60-09-3	Action limit
Solvent Yellow 2	11020	60-11-7	Action limit
Solvent Yellow 3	11160	97-56-3	Action limit
Basic Red 9	42500	569-61-9	Action limit
Basic Violet 1	42535	8004-87-3	Action limit
Basic Violet 3	42555	548-62-9	Action limit
Acid Red 26	16150	3761-53-3	Action limit
Acid Violet 49	42640	1694-09-3	Action limit

Table 3 — Primary aromatic amines limits

Compound	CAS number	Limit
Benzidine	92-87-5	Action limit
2-Naphthylamine	91-59-8	Action limit
4-Chloroaniline	106-47-8	Action limit
3,3'-Dichlorobenzidine	91-94-1	Action limit
3,3'-Dimethoxybenzidine	119-90-4	Action limit
3,3'-Dimethylbenzidine	119-93-7	Action limit
o-Toluidine	95-53-4	Action limit
2-Methoxyaniline (o-Anisidine)	90-04-0	Action limit
Aniline	62-53-3	Action limit

6 Modification to Clause 7, Thermal hazards

Replace the whole clause with the following:

"

7 Thermal hazards (see A.3)

7.1 Requirement

When tested in accordance with 7.2, there shall be no surface flash and the rate of spread of flame shall not exceed 50 mm/s.

A separate sample, conditioned according to 5.1, may be used for these tests.

7.2 Test method

To verify the surface flash effect apply the test flame defined in EN 71-2:2011+A1:2014, 5.5 for $(3 \pm 0,5)$ s to the infant swing in different places likely to cause surface flash.

To verify rate of spread of flame apply the test flame defined in EN 71-2:2011+A1:2014, 5.4."

7 Modification to 8.14.3, Test methods

Replace "Table 1" with "Table 4" in the table title and in the 2nd paragraph.

8 Modification to 8.3, Entrapment hazards

Replace the whole subclause with the following:

"

8.3 Entrapment hazards

8.3.1 Requirement

When tested in accordance with 8.3.2, there shall be no completely bounded openings, within the protected volume, between 7 mm and 12 mm unless the depth is less than 10 mm or unless the shape assessment probe (see 4.6) enters when tested in accordance with 8.3.2.

When tested in accordance with 8.3.2, there shall be no openings in mesh, within the protected volume, that allow the test probe for mesh (see 4.6) to penetrate to the 7 mm diameter section.

The test shall be carried out with the product in any intended position of use.

This requirement does not apply to the restraint system.

8.3.2 Test method

Check whether the 7 mm probe (see 4.6), with an applied force of up to 30 N, enters 10 mm or more into any accessible completely bounded opening in any possible orientation.

If the 7 mm probe enters 10 mm or more, then the 12 mm probe (see 4.6) shall also enter 10 mm or more with an applied force of up to 5 N.

If the 7 mm probe enters with an applied force of up to 30 N but the 12 mm probe does not enter 10 mm or more with an applied force of up to 5 N, check whether the 12 mm shape assessment probe (see 4.6) enters with an applied force of up to 5 N.

Check whether the test probe for mesh (see 4.6), with an applied force of up to 30 N, penetrates accessible openings in mesh up to the 7 mm diameter section."

9 Modification to 8.4.1.2.2, Test method for β and δ angles

Add the following paragraph at the end of the subclause before the figure:

"Some angle measuring devices give a single reading that is the result of the combination of γ and δ angles; in such cases, the measuring device shall be used in such a way not to mix γ and δ angles."

10 Modification to 8.4.1.2.3, Test method for γ angle

Add the following paragraph at the end of the subclause before the figure:

"Some angle measuring devices give a single reading that is the result of the combination of γ and δ angles; in such cases, the measuring device shall be used in such a way not to mix γ and δ angles."

11 Modification to 8.7, Hazards from entanglement in cords, ribbons and similar parts

Replace the whole subclause with the following one:

"

8.7 Entanglement hazards (see A.4.3)

8.7.1 Requirements

These requirements apply to cords, ribbons and similar parts within the protected volume. Restraint system is excluded from these requirements.

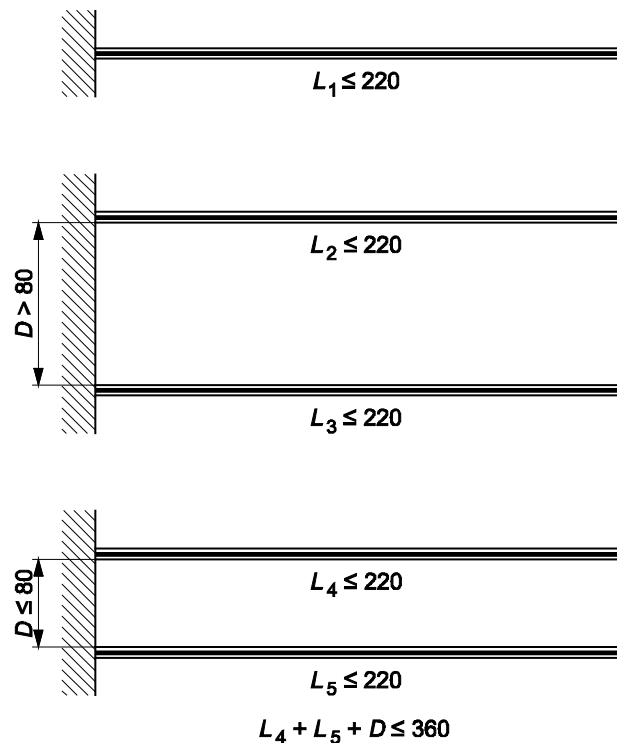
Cords, ribbons and similar parts shall have a free length not exceeding 220 mm when tested in accordance with 8.7.2.

Where cords, ribbons and similar parts are attached to the infant swing together or within 80 mm of each other, any single cord shall have a free length not exceeding 220 mm and the combined length from one loose end to the end of another loose end shall not exceed 360 mm (see Figure 17), when tested in accordance with 8.7.2.

Loops shall have a peripheral dimension not exceeding 360 mm, when tested in accordance with 8.7.2.

Monofilament threads shall not be used.

Dimensions in millimetres



Key

L Length

D Distance

Figure 17 — Examples of measuring cords, ribbons or similar parts