



**SLOVENSKI STANDARD**  
**SIST EN 15312:2007/oprA1:2009**  
**01-julij-2009**

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Df cglhc`XcglhdbUj Y bUa Ybg\_UýdcfHbUcdfYa U!`NU hYj Yžj \_`f bc`n`j Ufbcghcž]b  
dfYg\_i gbY`a YhcXY

Free access multi-sports equipment - Requirements, including safety, and test methods

Frei zugängliche Multisportgeräte - Anforderungen einschließlich Sicherheit und Prüfverfahren

Equipements sportifs en accès libre - Exigences, y compris de sécurité, et méthodes d'essais

**Ta slovenski standard je istoveten z: EN 15312:2007/prA1**

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**ICS:**

97.220.40	Oprema za športe na prostem in vodne športe	Outdoor and water sports equipment
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<b>SIST EN 15312:2007/oprA1:2009</b>	<b>en,fr,de</b>
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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**EN 15312:2007**

**prA1**

April 2009

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ICS 97.220.40

English Version

## Free access multi-sports equipment - Requirements, including safety, and test methods

Equipements sportifs en accès libre - Exigences, y compris de sécurité, et méthodes d'essais

Frei zugängliche Multisportgeräte - Anforderungen einschließlich Sicherheit und Prüfverfahren

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 136.

This draft amendment A1, if approved, will modify the European Standard EN 15312:2007. 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 Management Centre has the same status as the official versions.

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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.

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

**Management Centre: Avenue Marnix 17, B-1000 Brussels**

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## Foreword

This document (EN 15312:2007/prA1:2009) has been prepared by Technical Committee CEN/TC 136 “Sports, playground and other recreational facilities and equipment”, the secretariat of which is held by DIN.

This document is currently submitted to the CEN Enquiry.

## EN 15312:2007/prA1:2009 (E)

**1 Modification to the Foreword**

*1<sup>st</sup> paragraph: Replace title of CEN/TC 136 with "Sports, playground and other recreational facilities and equipment".*

**2 Modification to Clause 1**

*4<sup>th</sup> paragraph: Replace "EN 12572" by "EN 12572-1, EN 12572-2 and EN 12572-3".*

**3 Modifications to Clause 2**

*Replace "EN 636-3, Plywood – Specifications – Part 3: Requirements for plywood for use in exterior conditions" by "EN 636, Plywood – Specifications".*

*Replace " prEN 1176-1:2006, ..." by "EN 1176-1:2008, ...".*

*Delete "EN 1991-1-2, ...".*

*Add "EN 1991-1-5, Eurocode 1: Actions on structures - Part 1-5: General actions - Thermal actions".*

*Delete "EN 12572-1, ...".*

**4 Modifications to 4.1**

*1<sup>st</sup> paragraph: Replace "should" by "shall".*

*Replace the 6<sup>th</sup> paragraph by the following:*

"In the choice of a material or substance for equipment, consideration should be given to the eventual disposal of the material or substance having regard to any possible environmental toxic hazard. Special attention should be given to surface coatings to avoid potential toxic hazards."

*Delete 7<sup>th</sup> paragraph "Special attention..."*

**5 Modification to 4.4.2.1.3**

*Replace "1)" and "2)" by "a)" and "b)".*

*2<sup>nd</sup> dash: Replace the existing text by the following:*

— "Range 2: (template centre line from horizontal to + 45°); when the template apex contacts the base of the opening, the depth of the opening shall be less than the 'A' portion of the template. If the depth of the opening is greater than the 'A' portion of the template all parts of the opening above the 'A' portion shall also allow insertion of the shoulder section of the template or probe n°3."

**6 Modifications to 4.4.2.2**

*Add first sentence "Equipment should be constructed to that the following hazardous situations, which might cause entrapment are not created:"*

a): **Replace** text by the following: "gaps in which fingers can be trapped whilst the remainder of the body is moving or continues in forced movement;"

**Delete** the following sentence after c) "in which this type of entrapment can be encountered, are not created."

2<sup>nd</sup> paragraph: **Replace** "1 200 mm" by "1 000 mm".

## 7 Modification to Figure 4

**Add** titles to Figure 4 a), b) and c) as follows: "a) Front view", "b) Back view" and "c) Front view".

## 8 Modifications to 4.11

**Replace** 1<sup>st</sup> paragraph with the following:

"Any part of multi-sports equipment where the user is encouraged to access (e.g. play elements such as ladders, climbing walls, etc....) to an elevated surface above 1 000 mm height is classified as a play structure and shall comply with the requirements 4.2.4 "protection against falling", 4.2.8 "protection against injuries during movement and falling" and 4.2.7.3 "entrapment of clothing/hair" of prEN 1176-1:20086, 4.2.4 "Protection against falling", 4.2.8 "Protection against injuries during movement and falling" and 4.2.7.3 "Entrapment of clothing/hair"."

2<sup>nd</sup> paragraph: **Replace** "2 m" with "2 000 mm".

## 9 Modification to 5.2.1.1

Figure 9: **Add** "Key".

## 10 Modification to 5.2.1.3

2<sup>nd</sup> dash: **Replace** "EN 636-3" by "EN 636".

## 11 Modifications to 5.4.1

**Replace** 1<sup>st</sup> paragraph, 2<sup>nd</sup> paragraph and Note by the following:

"When goals or other elements up to the height of 3 m are fitted with nets, these shall be designed in such a way that they can not be climbed easily by users. The upper section of the net shall be designed in such a way to prevent the user from sitting in this area.

Square meshes shall not have a horizontal size of more than 50 mm horizontal spacing. Meshes with no horizontal elements (e.g. diamond net) shall not have more 100 mm, measured from centre to centre.

NOTE Mesh sizes and types are defined in EN 1263-1."

1<sup>st</sup> dash: **Replace** "1 800 N" with "1 080 N".

## 12 Modification to 5.5.1.2.2

Title and 1<sup>st</sup> paragraph: **Replace** R(r)epeated..." by "V(v)ery intense forceful...".

## EN 15312:2007/prA1:2009 (E)

**13 Modification to 5.6**

**Replace** "When a multi-function net and posts (e.g. for playing tennis, volley-ball...)..." by "When a multi-function playing net and posts (e.g. for playing tennis, volley-ball, etc.)..."

**14 Modification to 6.2.3 and 6.2.4**

**Replace** "(60 ± 5) s" by "(65 ± 5) s".

**15 Modifications to Clause 7**

3<sup>rd</sup> dash: **Replace** "(temperature,...)" by "(e.g.: temperature)".

4<sup>th</sup> dash: **Delete** ",...".

**16 Modification to Clause 9**

3<sup>rd</sup> dash: **Replace** "EN 15312:2006" by "EN 15312:200X".

**17 Modification to A.2.2**

Table A.1: **Replace** Table A.1 by the following:

Number of users $n$	Mass of $n$ users $G_n$ kg	Dynamic factor $C_{dyn}$	Total vertical user load $F_{tot;v}$ $N$	Vertical load per $F_{1,v}$ user $N$
1	69,5	2,00	1 391	1 391
2	130	1,50	1 948	974
3	189	1,33	2 516	839
5	304	1,20	3 648	730
10	588	1,10	6 468	647
15	868	1,07	9 259	617
20	1 146	1,05	12 033	602
25	1 424	1,04	14 810	592
30	1 700	1,03	17 567	586
40	2 252	1,025	23 083	577
50	2 801	1,02	28 570	571
60	3 350	1,017	34 058	568
$\infty$		1,00		538

NOTE At infinity the vertical load per user equals the average mass.



## 18 Modification to Annex D

Replace Annex D by the following:

### "D.1 General

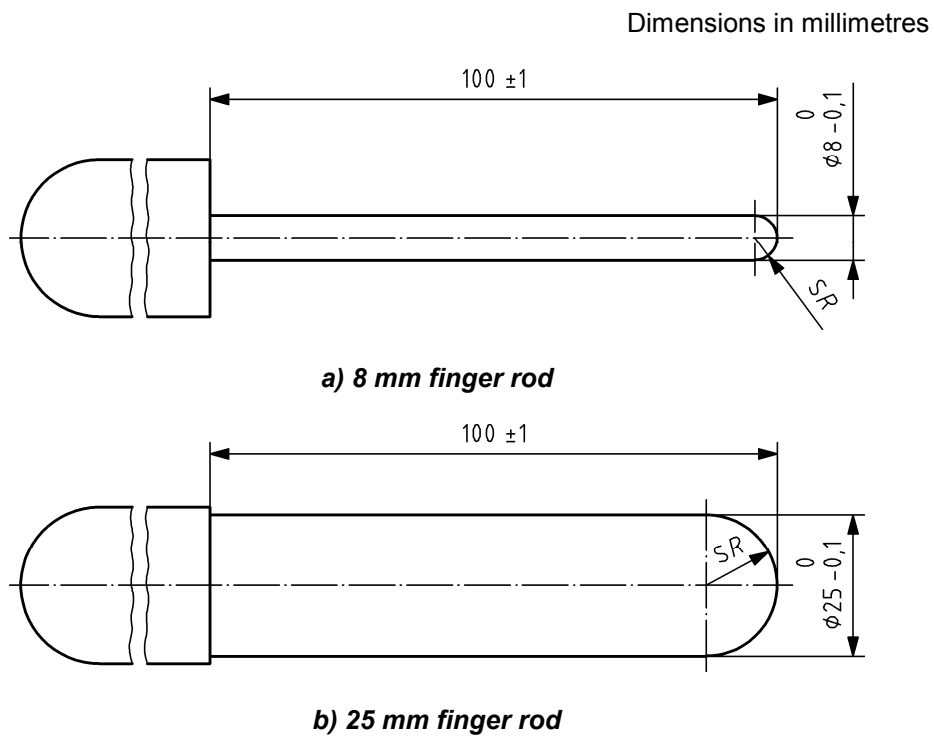
Unless stated otherwise, tolerances on measurements in this annex are as follows:

- $\pm 1$  mm for dimensions; and
- $\pm 1^\circ$  for angles.

### D.2 Finger entrapment

#### D.2.1 Apparatus

Finger rods, as illustrated in Figure D.1.



#### Key

SR spherical radius

Figure D.1 — Finger rods

#### D.2.2 Procedure

Apply the 8 mm diameter finger rod to the minimum cross section of the opening and, if the rod does not pass through, rotate it as illustrated in Figure D.2.

Record and report if the rod passes through the opening and if it locks in any position when moved through the conical area shown in Figure D.2.