



# SLOVENSKI STANDARD

## SIST EN 1466:2015

01-februar-2015

Nadomešča:

SIST EN 1466:2004+A1:2008

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**Izdelki za otroke - Prenosne posteljice in podstavki - Varnostne zahteve in preskusne metode**

Child use and care articles - Carry cots and stands - Safety requirements and test methods

Artikel für Säuglinge und Kleinkinder - Tragetaschen und Ständer - Sicherheitstechnische Anforderungen und Prüfverfahren  
(standards.iteh.ai)

Articles de puériculture - Couffins et supports - Exigences de sécurité et méthodes d'essai

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**Ta slovenski standard je istoveten z: EN 1466:2014**

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**ICS:**

97.190

Otroška oprema

Equipment for children

**SIST EN 1466:2015**

**en,fr,de**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
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Supersedes EN 1466:2004+A1:2007

English Version

Child use and care articles - Carry cots and stands - Safety  
requirements and test methods

Articles de puériculture - Couffins et supports - Exigences  
de sécurité et méthodes d'essai

Artikel für Säuglinge und Kleinkinder - Tragetaschen und  
Ständer - Sicherheitstechnische Anforderungen und  
Prüfverfahren

This European Standard was approved by CEN on 9 August 2014.

CEN 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 CEN-CENELEC Management Centre or to any CEN 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 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.

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

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

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**EN 1466:2014 (E)****Foreword**

This document (EN 1466:2014) has been prepared by Technical Committee CEN/TC 252 "Child use and care articles", the secretariat of which is held by AFNOR.

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 May 2015 and conflicting national standards shall be withdrawn at the latest by November 2015.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 1466:2004+A1:2007.

In comparison with EN 1466:2004+A1:2007, the significant technical changes relate to the following issues:

- determination of a protected volume,
- clarification and updating of:
  - the Scope,
  - internal height of rigid carry cots,
  - entanglement hazards (test for cords, straps and ribbons),
  - test methods for small part,
  - Figures 6 and 10,
- rewriting of the standard following the current hazard based format,
- introduction of requirement for carry cots with restraint system.

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

According to the CEN-CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: 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, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

## 1 Scope

This European Standard specifies safety requirements and test methods for products which are intended for the purpose of carrying a child in a lying position by means of handle(s) and for stands which may be used in conjunction with these products (see C.2).

These products are intended for a child who cannot sit unaided, roll over or push up on its hands and knees, with a maximum weight of 9 kg. Hereafter, in this European Standard these products are called "carry cots" and include all types of carry cot with rigid or soft sides as well as moses baskets and any similar products.

This European Standard has not considered the requirements of children with special needs.

## 2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

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

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

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

## 3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 3.1

#### **carry cot**

product comprising a base, sides, ends and carrying handle(s), within which a child can be laid down and transported by hand

### 3.2

#### **stand**

static structure designed to accommodate and support a carry cot

## 4 General requirements and test conditions (see C.3)

### 4.1 General

The carry cot shall be tested when assembled for normal use in accordance with the manufacturer's instructions.

Any other functions of the product shall comply with relevant European Standards.

### 4.2 Conditioning

Any fabric intended to be washed/cleaned shall be washed/cleaned and dried twice in accordance with the manufacturer's instructions.

**EN 1466:2014 (E)**

Any resulting shrinkage shall not prevent the fabric from being refitted without damaging the seams of the fabric or impairing the performance of the carry cot.

**4.3 Accuracy of test equipment**

Unless otherwise stated the accuracy of the test equipment shall be:

- forces  $\pm 5\%$ ;
- masses  $\pm 0,5\%$ ;
- dimensions  $\pm 0,5\text{ mm}$ ;
- timing  $\pm 1\text{ s}$ ;
- angles  $\pm 0,5^\circ$ .

**4.4 Determination of a protected volume**

The protected volume is determined by:

- the inner upper surface that supports the child; and
- the inner surface of the sides and ends of the carry cots.

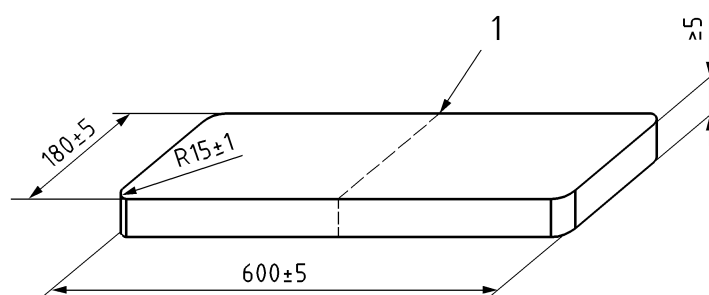
**5 Test equipment****5.1 Test plate**

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<https://standards.iteh.ai/catalog/standards/sist/e6702a8c-9488-4fb7-83e7-1c34058ae374/sist-en-1466-2015>

A rigid steel plate ( $600 \pm 5$ ) mm long and ( $180 \pm 5$ ) mm wide, having a mass of  $9_0^{+0,01}$  kg hinged along the centre line (see Figure 1).

Dimensions in millimetres

**Key**

1 hinge line

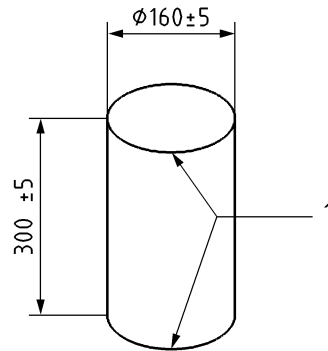
**Figure 1 — Test plate**



## 5.2 Test mass

A rigid cylinder ( $160 \pm 5$ ) mm in diameter and ( $300 \pm 5$ ) mm in height, having a mass of  $9_0^{+0,01}$  kg and with its centre of gravity in the centre of the cylinder. All edges shall have a radius of ( $5 \pm 1$ ) mm (see Figure 2).

Dimensions in millimetres



### Key

1 radius  $r = (5 \pm 1)$  mm

**Figure 2 — Test mass**  
(standards.iteh.ai)

## 5.3 Test probes

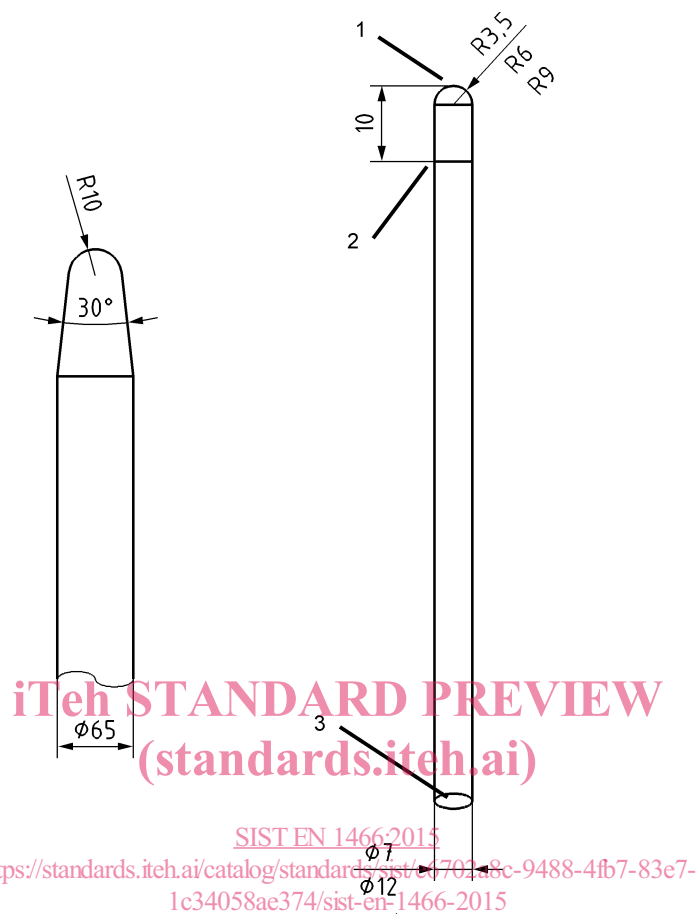
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Probes made from plastics or other hard, smooth material of diameters ( $7_{-0,1}^{+0,05}$ ) mm and ( $12_{-0}^{+0,1}$ ) mm, with a full hemispherical end (see Figure 3a)).

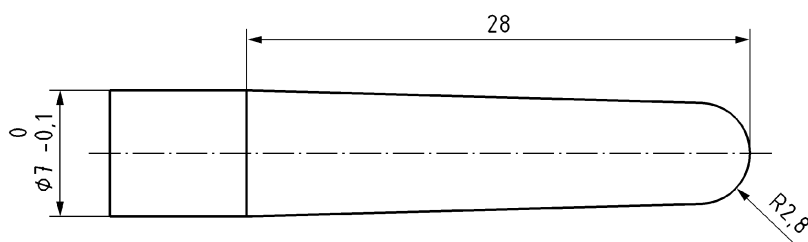
Probe for assessing mesh made from plastics or other hard, smooth material (see Figure 3b)) which shall be capable of being mounted on a force measuring device, so that the conical end can be presented to the opening being assessed.

Probe made from plastic or other hard, smooth material of diameter ( $65_{-0}^{+0,1}$ ) mm. One end shall be conical with an angle of  $30^\circ$  with a radius of 10 mm at the end (see Figure 3a)).

Dimensions in millimetres



a) Test probes



b) Test probe for checking meshes

**Key**

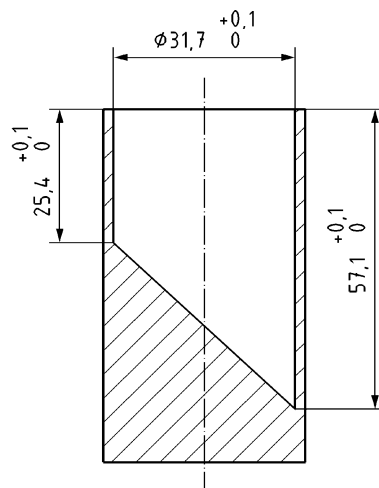
- 1 hemispherical end
- 2 scribed line around circumference
- 3 7 mm and 12 mm

**Figure 3 — Test probes**

### 5.4 Small parts cylinder

Cylinder having dimensions as shown in Figure 4.

Dimensions in millimetres



**Figure 4 — Small parts cylinder**  
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### 5.5 Test bar A

A metal bar having a cross section of 40 mm × 40 mm with edges having a radius of 5 mm.

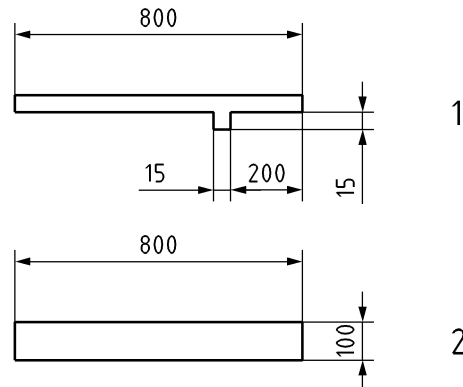
### 5.6 Test bar B

A metal bar having a length at least the length of the carry cot, a cross section of (25 × 25) mm and with a mass of 750 g.

### 5.7 Datum board

A rigid plate as shown in Figure 5.

Dimensions in millimetres

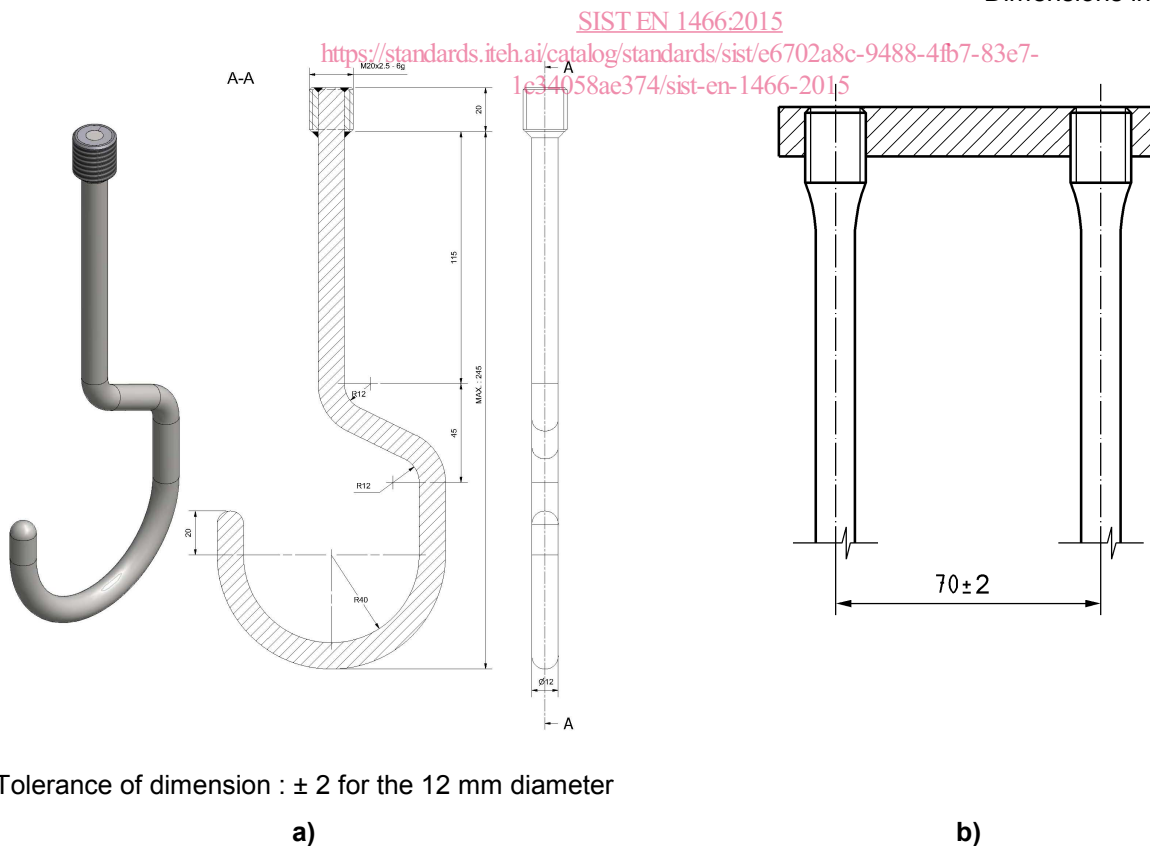
**Key**

- 1 front view mass: 1,5 kg  
2 top view

**Figure 5 — Datum board****5.8 Metal hooks**

The distance between the central axis of two hooks shall be  $(70 \pm 2)$  mm (see Figure 6).

Dimensions in millimetres



Tolerance of dimension :  $\pm 2$  for the 12 mm diameter

a)

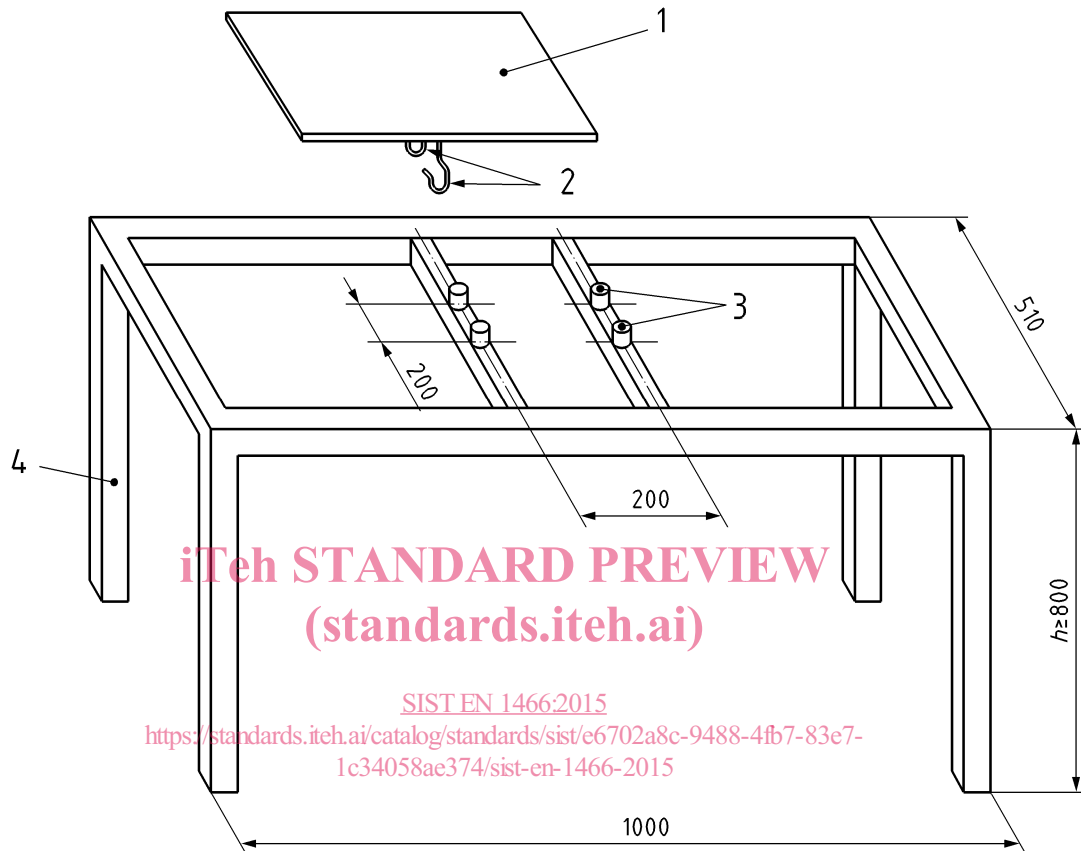
b)

**Figure 6 — Metal hooks**

## 5.9 Apparatus for dynamic strength test

As shown in Figure 7.

Dimensions in millimetres



### Key

- 1 metal plate:  $(300 \pm 5)$  mm  $\times$   $(300 \pm 5)$  mm and thickness 6 mm
- 2 metal hooks (see Figure 6) rigidly fixed to the metal plate
- 3 stops: of 15 mm high, 30 mm diameter and 70 shore A hardness which are screwed on the rigid frame
- 4 rigid frame made of steel square tube at least  $(30 \pm 5)$  mm  $\times$   $(30 \pm 5)$  mm and thickness 1,5 mm

Figure 7 — Apparatus for dynamic strength test

## 6 Material hazard

### 6.1 Hazards due to organic materials

Any organic materials shall be free from decay and insect attack when assessed by visual inspection.

### 6.2 Chemical hazards

The migration of elements from materials on exterior surfaces in the protected volume shall comply with EN 71-3.