



# SLOVENSKI STANDARD

## oSIST prEN 1466:2020

01-januar-2020

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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 Prüfungen

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

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Ta slovenski standard je istoveten z: **prEN 1466**

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#### ICS:

97.190

Otroška oprema

Equipment for children

**oSIST prEN 1466:2020**

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN 1466**

January 2020

ICS 97.190

Will supersede EN 1466:2014

English Version

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

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

Artikel für Säuglinge und Kleinkinder - Tragetaschen und Ständer für den häuslichen Gebrauch - Sicherheitstechnische Anforderungen und Prüfungen

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

If this draft becomes a European Standard, 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.

This draft European Standard 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.

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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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COMITÉ EUROPÉEN DE NORMALISATION  
EUROPÄISCHES KOMITEE FÜR NORMUNG

**CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels**

| <b>Contents</b>   | <b>Page</b> |
|---|-------------|
| European foreword.....  | 4           |
| <b>1 Scope</b> .....  | <b>5</b>    |
| <b>2 Normative references</b> .....   | <b>5</b>    |
| <b>3 Terms and definitions</b> .....  | <b>5</b>    |
| <b>4 General requirements and test conditions (see 0)</b> .....                           | <b>6</b>    |
| 4.1 General.....  | 6           |
| 4.2 Accuracy of test equipment.....   | 6           |
| 4.3 Determination of a protected volume.....  | 6           |
| <b>5 Test equipment</b> .....   | <b>6</b>    |
| 5.1 Articulated test plate.....   | 6           |
| 5.2 Test mass.....  | 7           |
| 5.3 Test probes.....  | 8           |
| 5.4 Small parts cylinder.....   | 9           |
| 5.5 Test bar A.....   | 10          |
| 5.6 Test bar B.....   | 10          |
| 5.7 Datum board.....  | 10          |
| 5.8 Metal hooks.....  | 11          |
| 5.9 Rubber adaptor.....   | 13          |
| 5.10 Apparatus for dynamic strength test.....   | 14          |
| 5.11 Test sphere.....   | 14          |
| 5.12 Test plate.....  | 14          |
| 5.13 Test equipment for handle locking mechanism strength test.....                       | 15          |
| <b>6 Material hazard</b> .....  | <b>16</b>   |
| 6.1 Hazards due to organic materials.....   | 16          |
| 6.2 Chemical hazards.....   | 16          |
| 6.2.1 Migration of certain elements.....  | 16          |
| 6.2.2 Formaldehyde.....   | 16          |
| 6.2.3 Colorants.....  | 16          |
| 6.3 Thermal hazards.....  | 17          |
| <b>7 Mechanical hazard</b> .....  | <b>18</b>   |
| 7.1 Protective function.....  | 18          |
| 7.1.1 General.....  | 18          |
| 7.1.2 Internal height of carry cot and effectiveness of retaining function (see B.4)..... | 18          |
| 7.1.3 Overall height of a carry cot with flexible handles (see B.9).....                  | 21          |
| 7.1.4 Castors/wheels of stands.....   | 22          |
| 7.1.5 Restraint system.....   | 22          |
| 7.1.6 Reclinable base.....  | 22          |
| 7.2 Entrapment hazards.....   | 23          |
| 7.2.1 Requirements.....   | 23          |
| 7.2.2 Test method.....  | 23          |
| 7.3 Hazard from moving parts (see B.5).....   | 23          |
| 7.4 Entanglement hazards.....   | 23          |
| 7.4.1 Requirements.....   | 23          |

|                       |  |    |
|-----------------------|--|----|
| 7.4.2                 | Test for cords, straps and ribbons.....                          | 24 |
| 7.4.3                 | Test for loops.....  | 25 |
| 7.5                   | Choking and ingestion hazards.....                               | 25 |
| 7.5.1                 | Requirements.....  | 25 |
| 7.5.2                 | Test methods for small parts.....                                | 26 |
| 7.6                   | Suffocation hazards (see B.7) .....                              | 26 |
| 7.6.1                 | Internal lining.....   | 26 |
| 7.6.2                 | Plastic packaging .....  | 26 |
| 7.6.3                 | Filling materials .....  | 27 |
| 7.6.4                 | Hazards due to the softness of the base.....                     | 27 |
| 7.7                   | Hazards edges, points and corners .....                          | 28 |
| 7.8                   | Stability .....  | 28 |
| 7.8.1                 | Stability of carry cots (see B.6) .....                          | 28 |
| 7.8.2                 | Longitudinal stability of carry cots .....                       | 29 |
| 7.8.3                 | Stability of stands and retention of carry cot on the stand..... | 30 |
| 7.9                   | Structural integrity .....                                       | 30 |
| 7.9.1                 | Flexible handles of carry cots.....                              | 30 |
| 7.9.2                 | Strength of carrying handle(s) locking mechanisme(s) .....       | 31 |
| 7.9.3                 | Strength of carry cots .....                                     | 32 |
| 7.9.4                 | Strength of stands.....  | 34 |
| 7.9.5                 | Folding mechanisms of stands.....                                | 34 |
| 8                     | Durability of marking.....                                       | 35 |
| 9                     | Product information.....   | 35 |
| 9.1                   | General .....  | 35 |
| 9.2                   | Purchase information .....                                       | 35 |
| 9.2.1                 | General .....  | 35 |
| 9.2.2                 | Carry cots.....  | 35 |
| 9.2.3                 | Stands.....  | 36 |
| 9.3                   | Markings .....   | 36 |
| 9.4                   | Instructions for use and maintenance .....                       | 36 |
| 9.4.1                 | General .....  | 36 |
| 9.4.2                 | Carry cots.....  | 37 |
| 9.4.3                 | Stands.....  | 38 |
| Annex A (informative) | Warnings .....   | 39 |
| Annex B (informative) | Rationales .....   | 50 |
| Bibliography          | .....  | 52 |

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**prEN 1466:2020 (E)****European foreword**

This document (prEN 1466:2020) has been prepared by Technical Committee CEN/TC 252 “Child care articles”, the secretariat of which is held by AFNOR.

This document is currently submitted to the second CEN Enquiry.

This document will supersede EN 1466:2014.

In comparison with EN 1466:2014 the significant technical changes relate to the following issues:

- improvement of title to take into account the domestic use only.
- improvement of scope to clarify which products are involved (1)
- introduction of new chemical requirement following CEN/TR 13387 revision.
- clarification of clause of the restraints system. (7.1.5)
- improvement of requirement and test method for soft carry cot (7.1.2.3 and 7.1.2.4)
- introduction of new requirements and test methods to cover suffocation hazard (7.6.)
- improvement of stability test, strength test and folding mechanisms of stands (7.8.3,7.9.3 and 7.9.4).
- improvement of instruction of use especially concerning the use of soft carry cot.

This document has been prepared under a mandate M/264 given to CEN by the European Commission and the European Free Trade Association. The standard is developed in support of the EU Directive 2001/95/EC (GPDS).

## 1 Scope

This document specifies safety requirements and test methods for products which provide a sleeping accommodation and are intended for the purpose of carrying a child in a lying position by means of handle(s) by using one hand and for stands which could be used in conjunction with these products (see B.2), intended for domestic use.

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 document these products are called “carry cots” and include all types of carry cot with rigid or soft sides and any similar products.

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

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements 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.

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*

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 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)*

## 3 Terms and definitions

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

ISO and IEC maintain terminological databases for use in standardization at the following addresses:

- IEC Electropedia: available at <http://www.electropedia.org/>
- ISO Online browsing platform: available at <http://www.iso.org/obp>

### 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

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**3.3 protected volume**  
volume accessible by the child (occupant) when lying in the carry cot where specific safety requirements are necessary

**3.4 apron**  
top cover normally located on the area of the feet opposite to the hood

**3.5 mattress**  
fabric case filled with padding material (e.g. foam, fiber filling ...) used either alone or integrated in the internal lining of the base of the carry cot

**4 General requirements and test conditions (see B.4)****4.1 General**

The carry cot shall be assembled for normal use in accordance with the manufacturer's instructions  
Unless otherwise specified in the test methods, the carry cot shall be tested in its most onerous configuration,

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

**4.2 Accuracy of test equipment (standards.iteh.ai)**

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  $\pm 0,5^\circ$ .

**4.3 Determination of a protected volume**

The protected volume is determined by

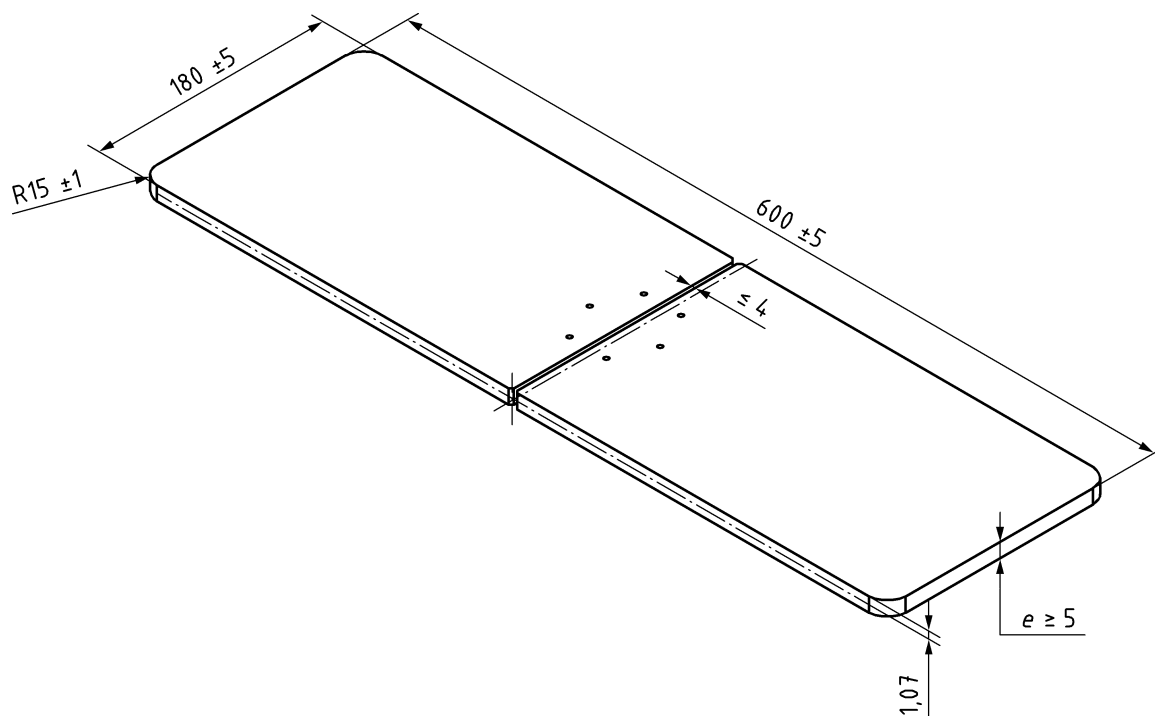
- the inner upper surface that supports the child, and
- the inner surface of the sides and ends of the carry cots.

**5 Test equipment****5.1 Articulated test plate**

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), the movement shall be free in the two directions.



Dimensions in millimetres

**Key**

1 hinge line

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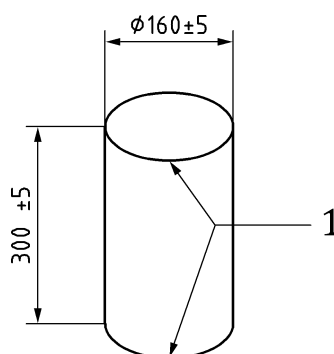
**Figure 1 — Articulated Test plate**

<https://standards.iteh.ai/catalog/standards/sist/a3d457de-b749-43f5-b99b-b26b538c3cec/osist-pren-1466-2020>

**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**

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## 5.3 Test probes

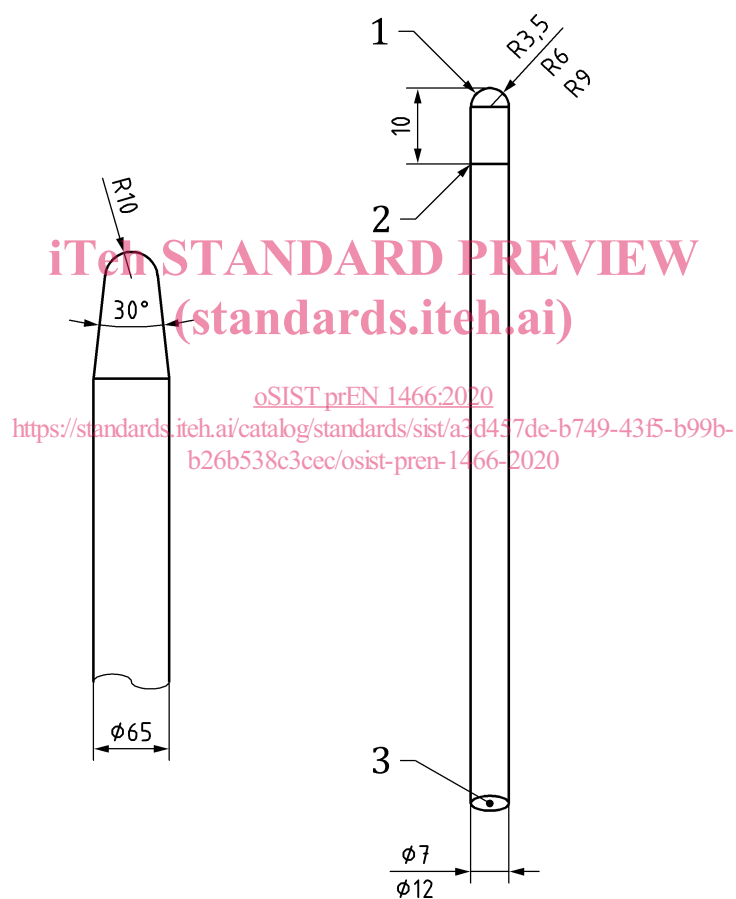
Probes made from plastic or other hard, smooth material of diameters  $(7^{+0}_{-0,1})$  mm and  $(12^{+0,1}_{-0})$  mm, with a full hemispherical end (see Figure 3a).

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.

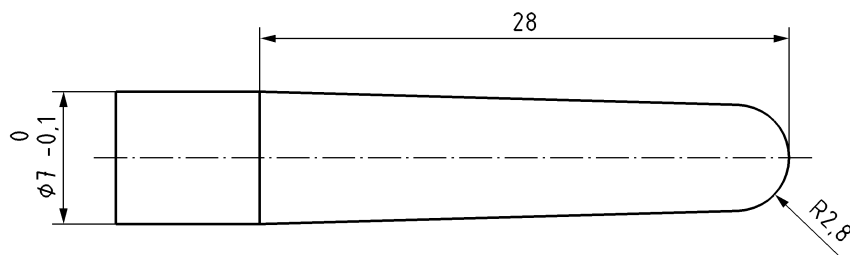
Probe made from plastic or other hard, smooth material of diameter  $(65^{+0,1}_{-0})$  mm. One end shall be conical with an angle of  $30^\circ$  with a radius of 10 mm at the end (see Figure 3a).

Probe made from plastic or other hard, smooth material with the dimensions shown in Figure 3 c.

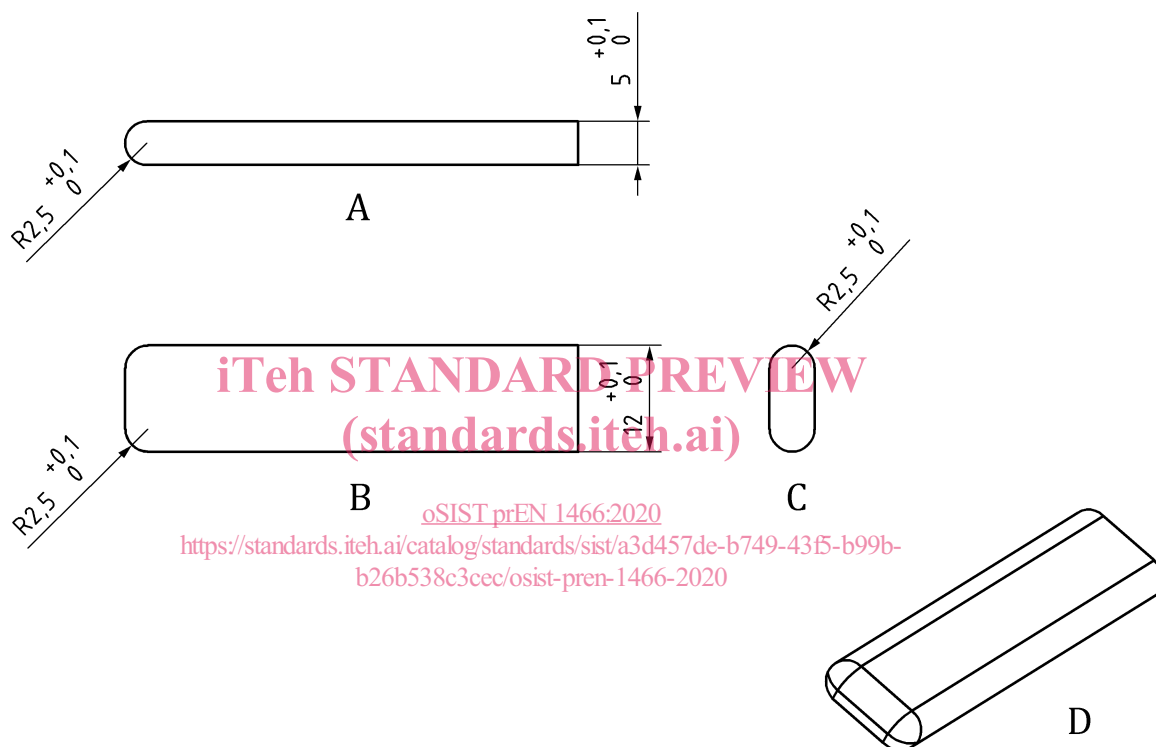
Dimensions in millimetres



a) Test probes



b) Test probe for checking meshes



c) Shape assessment probe

**Key**

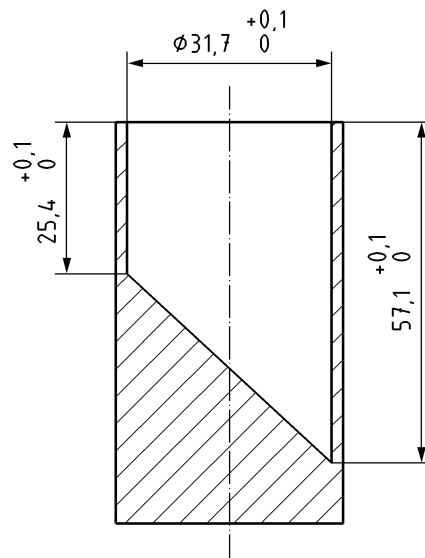
- 1 hemispherical end
  - 2 scribed line around circumference
  - 3 7 mm and 12 mm
- A Front view  
B Top view  
C Side view  
D 3D view

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

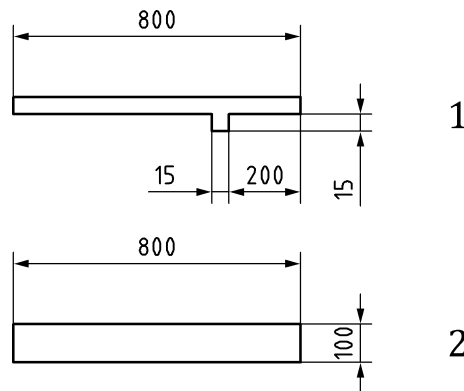
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A metal bar having a length at least the length of the carry cot, a cross section of (25 × 25) mm and with a mass of 750 g.

### 5.7 Datum board

A rigid plate with a mass of 1,5 kg as shown in Figure 5.

Dimensions in millimetres

**Key**

- 1 front view
- 2 top view

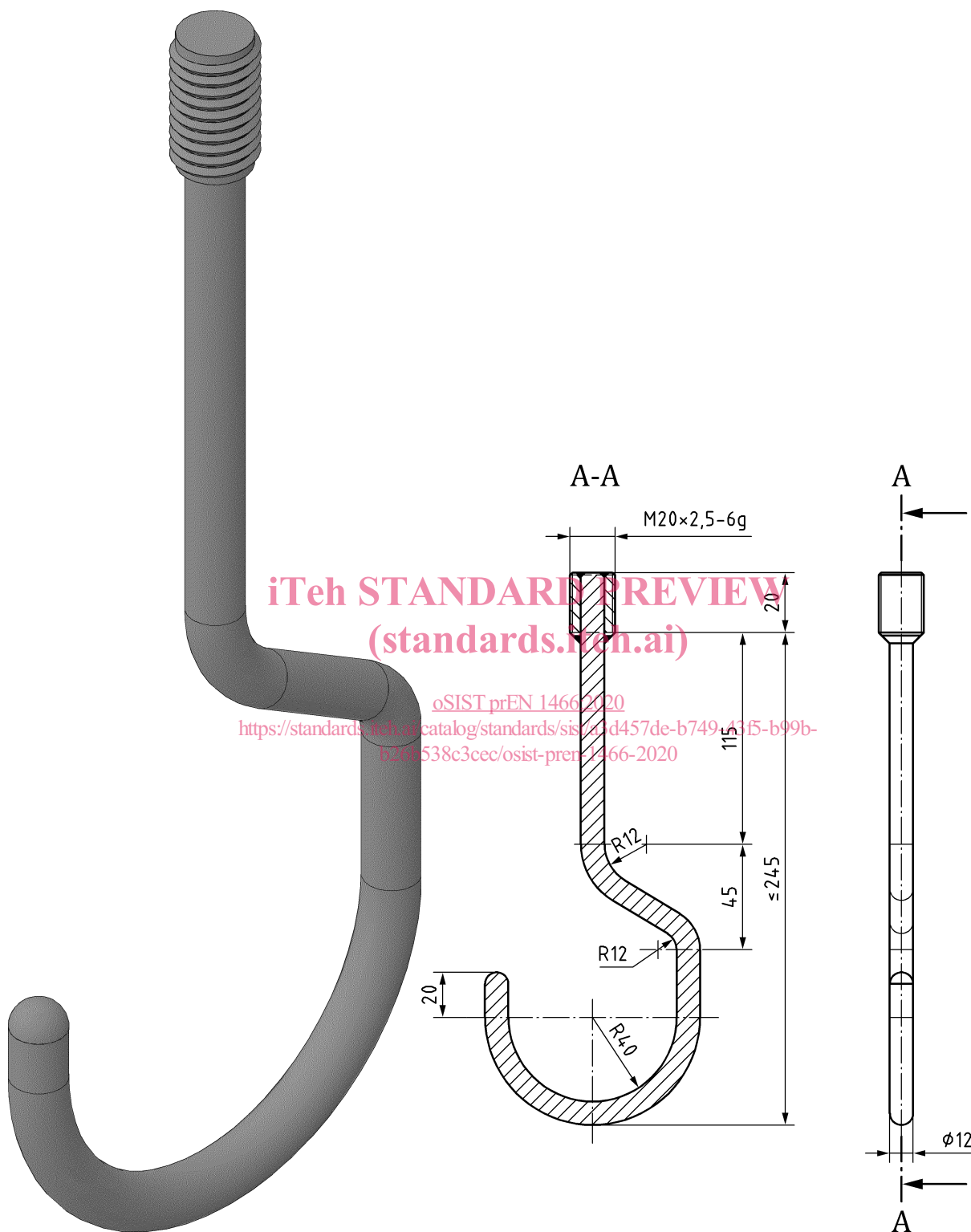
**Figure 5 — Datum board****5.8 Metal hooks**

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

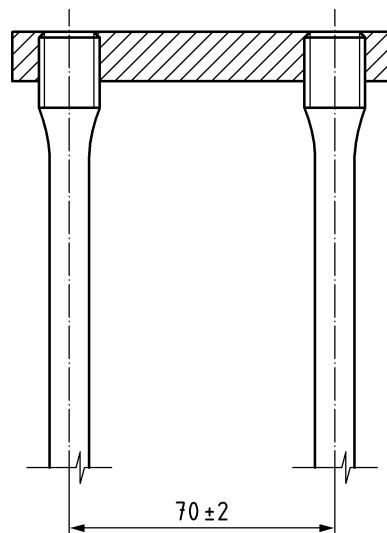
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Dimensions in millimetres



a) Side view and 3 D view of hook



b) Distance between the two hooks

NOTE For Figure 6a, tolerance of dimension:  $\pm 2$  excepted for the 12 mm diameter.

Figure 6 — Metal hooks

## 5.9 Rubber adaptor

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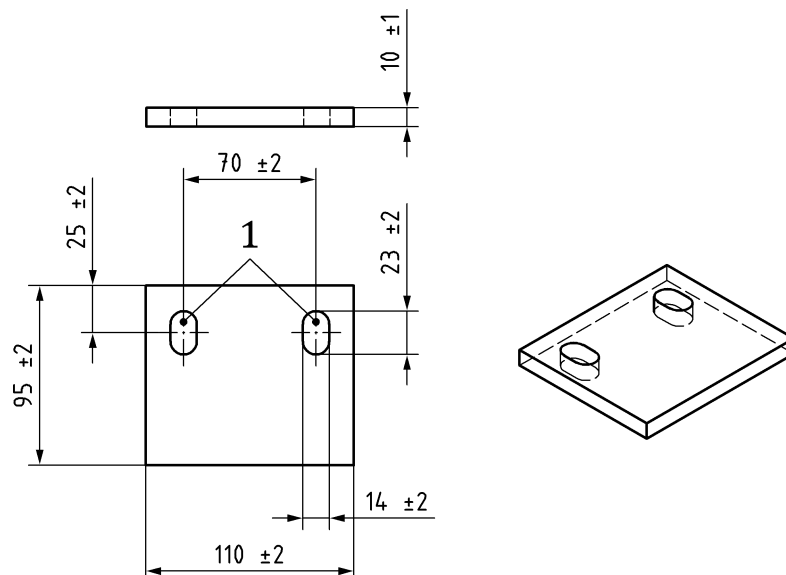
Figure 7 shows an example of a rubber adaptor.

Hardness:  $70 \pm 5$  Shore A -

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Dimensions in millimetres



### Key

1 Passing slots

Figure 7 — Rubber adaptor