BS EN 12221:2026



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Child care articles — Changing units and changing pads for domestic use — Safety requirements and test methods

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National foreword

This British Standard is the UK implementation of EN 12221:2026. It supersedes BS EN 12221-1:2008+A1:2013 and BS EN 12221-2:2008+A1:2013, which are withdrawn.

The UK participation in its preparation was entrusted to Technical Committee CW/1, Safety of child use and child care products.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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EUROPEAN STANDARD

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EN 12221

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Child care articles - Changing units and changing pads for domestic use - Safety requirements and test methods

Articles de puériculture - Dispositifs à langer et matelas à langer à usage domestique - Exigences de sécurité et méthodes d'essai

Artikel für Säuglinge und Kleinkinder - Wickeleinheiten und Wickelauflagen für den Hausgebrauch - Sicherheitstechnische Anforderungen und Prüfverfahren

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European foreword

This document (EN 12221:2026) 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of an identical text or by endorsement, at the latest by September 2026, and conflicting national standards shall be withdrawn at the latest by March 2027.

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

This document supersedes EN 12221-1:2008+A1:2013 and EN 12221-2:2008+A1:2013.

In comparison with EN 12221-1:2008+A1:2013 and EN 12221-2:2008+A1:2013, the significant technical changes relate to the following topics:

a) adoption of the hazard based format;

b) unification of the two parts in one single document;

c) inclusion of changing pads and changing unit accessories;

d) update of terms and definitions;

e) update of chemical hazards;

f) update of thermal hazards;

g) general update of the mechanical requirements to the state of the art;

h) addition of requirements for accessibility filling materials;

i) addition of durability requirements;

j) modification of product information and addition of specific symbols;

k) addition of rationales.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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1 Scope

This document specifies safety requirements and test methods for changing units, changing pads and changing unit accessories for domestic use.

This document only covers the function of the item as a changing unit. If the item can be converted or used for another function (e.g. cots, storage furniture, bath tubs and stands, etc.), other relevant European Standards apply.

The changing unit can be foldable and can be fitted with a child bathtub or other additional items.

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 71-2:2020+A2:2024, *Safety of toys — Part 2: Flammability*

EN 71-3:2019+A2:2024, *Safety of toys — Part 3: Migration of certain elements*

EN ISO 14184-1:2011, *Textiles — Determination of formaldehyde — Part 1: Free and hydrolysed formaldehyde (water extraction method) (ISO 14184-1:2011)*

ISO 48-4:2018, *Rubber, vulcanized or thermoplastic — Determination of hardness — Part 4: Indentation hardness by durometer method (Shore hardness)*

3 Terms and definitions

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

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

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

3.1
changing unit
elevated structure designed to support a child in a lying position for the purpose of allowing a caregiver to clean and/or change the child

3.2
bathtub mounted changing unit
changing unit intended to be mounted on an adult household bathtub

3.3
wall mounted changing unit
non-standalone *changing unit* intended to be attached to a wall, with or without support legs

Note 1 to entry: A floor standing changing unit for which the manufacturer recommends an additional fixation to a wall is not considered to be a wall mounted changing unit

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3.4
changing board flap
changing surface that is movable or removable for storage purposes or to provide access to another function, e.g. a bathtub

3.5
changing pad
pad with side barriers specifically designed for the purpose of changing the child

Note 1 to entry: Flat mats and similar items without barriers intended only to offer hygienic protection or comfort during changing are not included in the definition.

Note 2 to entry: Outer rims of a pad are considered as barriers if the thickness of the rim is greater than the thickness of the changing surface.

3.6
changing unit accessory
accessory that attaches to a cot, crib or playpen designed to enable the combination to be used as a *changing unit*

3.7
locking mechanism
assembly of components consisting of one or more *locking device(s)* and *one or more operating device(s)*

3.8
locking device
mechanical component that maintains part(s) of the item erected in the position of use (e.g. latch(es), hooks, over centre lock...) which could be deactivated or activated by action(s) on the *operating device*

3.9
operating device
part of the *locking mechanism(s*) designed to be activated by the carer through one or several positive action(s)

3.10
protected volume
volume accessible by the child (occupant) when lying on the changing area, where specific safety requirements are necessary

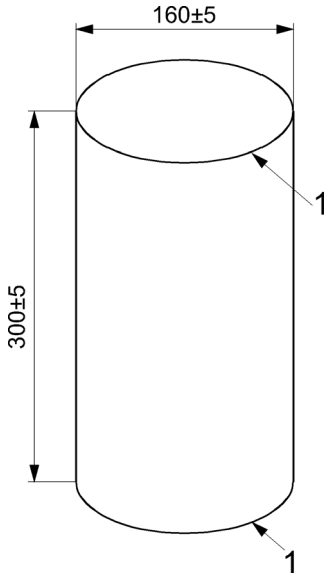
4 Test equipment

4.1 Test mass A

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

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Dimensions in millimetres



Key

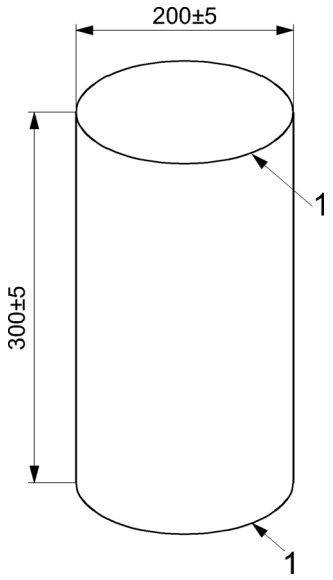
1 radius: (5 ± 1) mm

Figure 1 — Test mass A

4.2 Test mass B

Test mass B is a rigid cylinder (200 ± 5) mm in diameter and (300 ± 5) mm in height, having a mass of $15^{+0,1}_{0}$ kg and with its centre of gravity in the centre of the cylinder. All edges shall have a radius of (5 ± 1) mm (see Figure 2).

Dimensions in millimetres



Key

1 radius: (5 ± 1) mm

Figure 2 — Test mass B

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4.3 Small parts cylinder

Small parts cylinder for the assessment of small components, having dimensions in accordance with Figure 3.

Dimension in millimetres

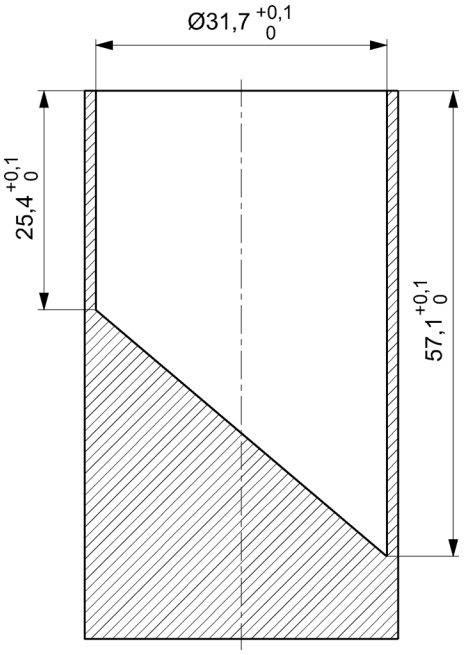


Figure 3 — Small parts cylinder

4.4 Feeler gauge

Gauge with a thickness of (0,4 ± 0,02) mm and an insertion edge radius of (3 ± 0,5) mm (see Figure 4).

Dimensions in millimetres

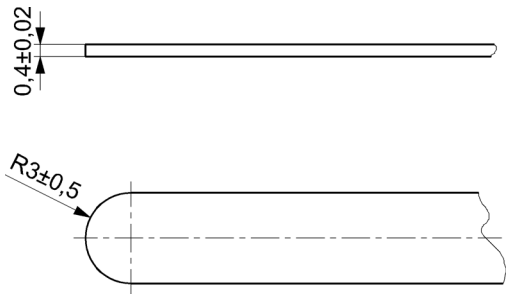


Figure 4 — Feeler gauge

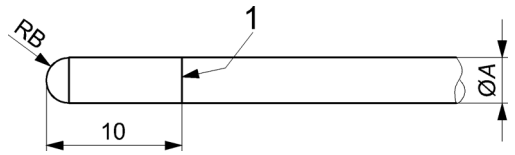
4.5 Test probes for finger entrapment

4.5.1 Test probes with hemispherical end

Probes made from plastic or other hard, smooth material, that can be mounted on a force-measuring device, with diameters $7^{0}_{-0,1}$ mm and $12^{+0,1}_{0}$ mm and a full hemispherical end and a line ascribed around the circumference at 10mm from the hemispherical end, see Figure 5.

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Dimensions in millimetres



Key

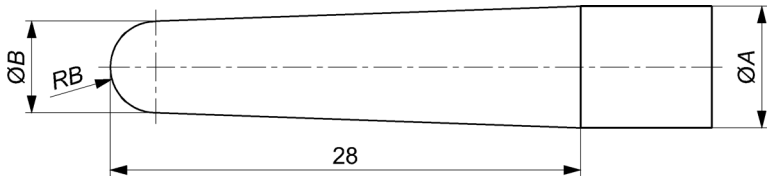
Probe type	7 mm probe	12 mm probe
Diameter ØA	$7^{0}_{-0,1}$	$12^{+0,1}_{0}$
Radius RB	Half of diameter A	Half of diameter A
1	Line ascribed around circumference showing depth of penetration	

Figure 5 — Test probes with hemispherical end

4.5.2 Test probe for mesh

Mesh probe made from plastic or other hard, smooth material as shown in Figure 6.

Dimensions in millimetres



Key

Probe type	**mesh probe**
Diameter ØA	$7^{0}_{-0,1}$ mm
Diameter ØB	$5,6^{0}_{-0,1}$ mm
Radius RB	half of diameter B

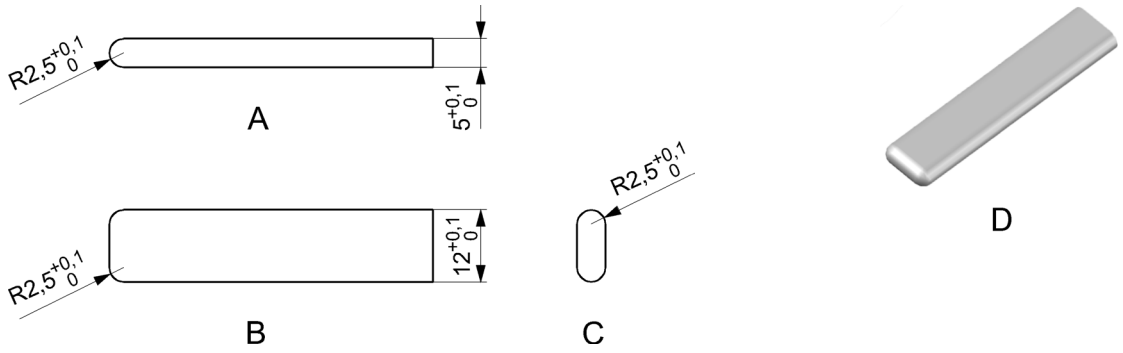
Figure 6 — Test probe for mesh

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4.5.3 Shape assessment probe

Probe made from plastic or other hard, smooth material with the dimensions shown in Figure 7.

Dimensions in millimetres



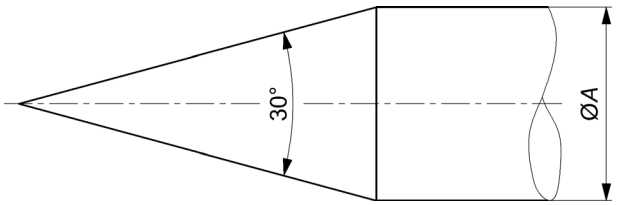
Key

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

Figure 7 — Shape assessment probe

4.6 Test probes for limb entrapment

Probes made from plastic or other hard, smooth material of diameters $25^{0}_{-0,1}$ mm and $45^{+0,1}_{0}$ mm with a conical end that can be mounted on a force-measuring device, see Figure 8.



Key

Probe type	25 mm probe	45 mm probe
Diameter ØA	$25^{0}_{-0,1}$ mm	$45^{+0,1}_{0}$ mm

Figure 8 — Test probes with conical end

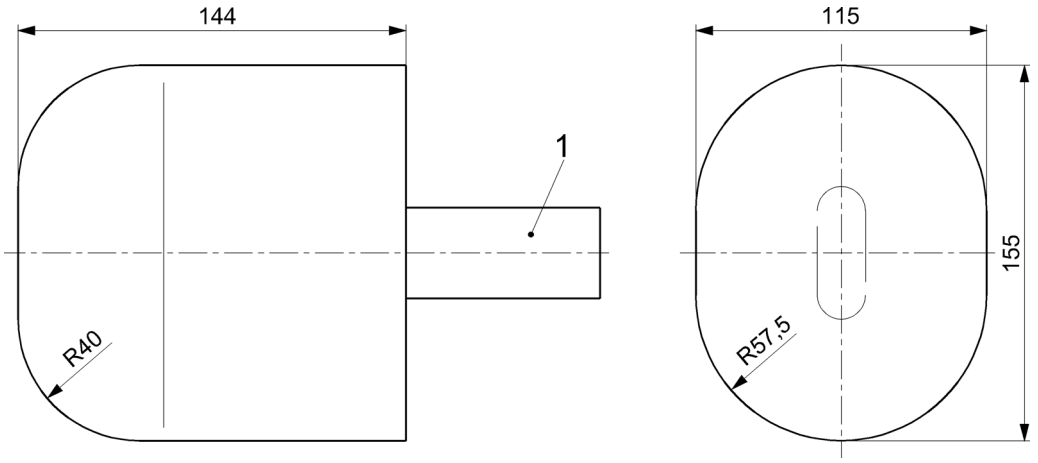
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4.7 Test probes for head entrapment

4.7.1 Small head probe

Probe made of hard and smooth material with dimensions as shown in Figure 9.

Dimensions in millimetres



Key

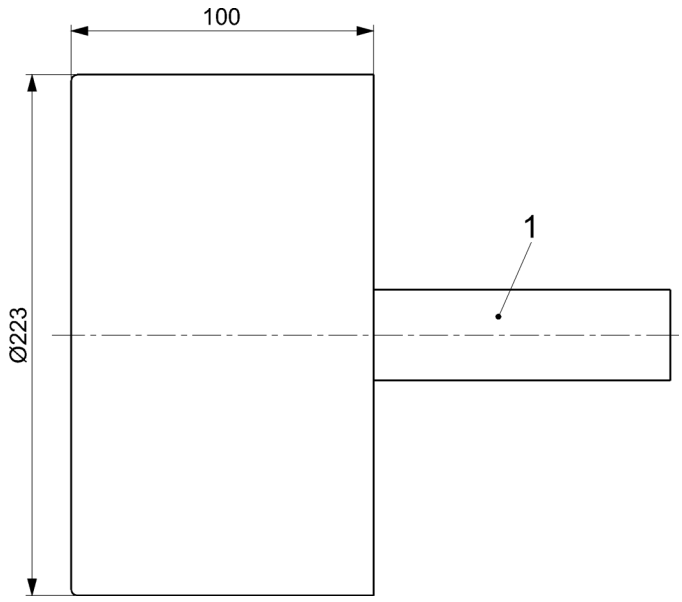
1 handle

Figure 9 — Small head probe

4.7.2 Large head probe

Cylindrical probe made of hard and smooth material with dimensions as shown in Figure 10.

Dimensions in millimetres



Key

1 handle

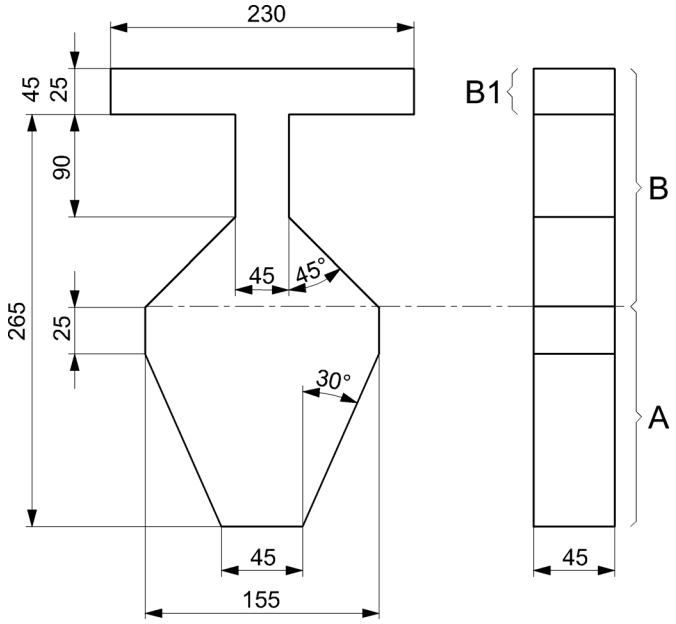
Figure 10 — Large head probe

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4.7.3 Template for partially bound and V shaped openings

Probe made of hard and smooth material with dimensions as shown in Figure 11.

Dimensions in millimetres



a) Front view b) Side view

Key

A "A" portion of the probe

B "B" portion of the probe

B1 Shoulder section, either 25 mm or 45 mm dimension is acceptable

Figure 11 — Template for partially bound and V shaped openings

4.8 Test floor for floor standing units

The test floor shall be horizontal, rigid, flat and smooth.

4.9 Test wall for wall mounted changing units

The test wall shall be vertical, rigid, flat and smooth.

4.10 Test base for bath mounted units

Test base for bath mounted units represents the upper bath wall section made of hard and smooth material with dimensions in accordance with Figure 12. The profiles shall be fixed parallel to the distance equal to the minimum bath dimension recommended by the manufacturer.

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