



SLOVENSKI STANDARD
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Pohištvo - Pogradi in visoke postelje - 1. del: Zahteve za varnost, trdnost in trajnost

Furniture - Bunk beds and high beds - Part 1: Safety, strength and durability requirements

Möbel - Etagenbetten und Hochbetten - Teil 1: Anforderungen an die Sicherheit, Festigkeit und Dauerhaltbarkeit

Meubles - Lits superposés et lits surélevés - Partie 1: Exigences de sécurité, de résistance et de durabilité

Ta slovenski standard je istoveten z: EN 747-1:2024

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ICS:

97.140

Pohištvo

Furniture

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EUROPEAN STANDARD

EN 747-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Furniture - Bunk beds and high beds - Part 1: Safety, strength and durability requirements

Meubles - Lits superposés et lits surélevés - Partie 1:
Exigences de sécurité, de résistance et de durabilité

Möbel - Etagenbetten und Hochbetten - Teil 1:
Anforderungen an die Sicherheit, Festigkeit und
Dauerhaltbarkeit

This European Standard was approved by CEN on 12 February 2024.

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.

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

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

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European foreword

This document (EN 747-1:2024) has been prepared by Technical Committee CEN/TC 207 “Furniture”, the secretariat of which is held by UNI.

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 2024, and conflicting national standards shall be withdrawn at the latest by September 2024.

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 747-1:2012+A1:2015.

In comparison with the previous edition, the following technical modifications have been made:

- Standard was fully revised;
- Modification of the title;
- Specification of the scope;
- Terms and definitions of high bed, tread, completely bound opening, partially bound opening, upper bed, means of access, and handrail added;
- Requirements for the materials improved;
- Requirements for vertically protruding parts added;
- Requirements for accessible holes, gaps and openings added;
- Requirements for bed base(s) given in more detail;
- Requirements for safety barriers around beds added;
- Requirements for means of access added;
- Requirements for shear and squeeze points added;
- Requirements for platform and stairs added;
- Requirements for all other accessible holes, gaps or openings added;
- Requirements for strength of means of access: Attachment, deflection and strength added;
- Requirements for strength of frame and fastenings given in more detail;
- Requirements for the stability given in more detail;
- Requirements for the instructions for use given in more detail;
- Requirements for the marking in more detail;
- Requirements for the purchase information added;

EN 747-1:2024 (E)

— Addition of informative Annex A.

EN 747 is divided into the following parts:

- EN 747-1, *Furniture — Bunk beds and high beds — Part 1: Safety, strength and durability requirements*;
- EN 747-2, *Furniture — Bunk beds and high beds — Part 2: Test methods*.

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.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

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1 Scope

This document specifies requirements for the safety, strength and durability of bunk beds and high beds for domestic and non-domestic use.

It is applicable to bunk beds and high beds with an internal length greater than 1 400 mm and a maximum bed base width of 1 200 mm, and with the upper surface of a bed base of 600 mm or more above the floor.

This document does not apply to bunk beds and high beds used for special purposes, including but not limited to prisons, the military and fire brigades.

If other products are included in a bunk bed/high bed, for example a table or storage furniture, the relevant European Standards could, in addition, apply.

The document contains one annex:

- Annex A (informative) – Rationales.

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 747-2:2024, *Furniture — Bunk beds and high beds — Part 2: Test methods*

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:

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

3.1

bunk bed

two beds, one above the other, where the upper surface of one bed base (3.4) is 600 mm or more above the floor

3.2

high bed

bed, where the upper surface of the bed base (3.4) is 600 mm or more above the floor, irrespective of the use to which the space below is put

3.3

bed end structure

upright unit at the head and foot of the bed to which the side rails (3.6) are attached

3.4

bed base

support structure for a mattress

EN 747-1:2024 (E)**3.5****safety barrier**

component intended to prevent an occupant falling from an upper bed (3.10)

3.6**side and end rail**

member attached to the bed side or end structures (3.3) by which the bed base (3.4) can be supported

3.7**tread**

structure intended as a foothold

3.8**completely bound opening**

opening that is continuously surrounded

3.9**partially bound opening**

opening that is partially surrounded

3.10**upper bed**

bed for which the upper surface of its bed base (3.4) is 600 mm or more above the floor

3.11**means of access**

ladder(s) or stairs to facilitate access to and egress from an upper bed (3.10) or an access platform

3.12**handrail**

rail or another component intended to assist the user to balance

4 Safety requirements**4.1 Construction****4.1.1 General**

When the bed is fully assembled, accessible edges and corners shall be rounded or chamfered and free from burrs or sharp edges.

There shall be no open-ended tubes.

All assembly and pilot holes shall be made by the manufacturer.

There shall be no clothes hooks or similar items more than 600 mm from the floor.

If the lowest point of the vertically protruding parts are above 600 mm from the floor, they shall either

- a) have an uninterrupted minimum horizontal dimension of 300 mm in at least one direction without any other vertical protrusion (see Figure 1 a), or
- b) have an uninterrupted vertical dimension of at least 600 mm measured from the highest adjacent part (see Figure 1 b), or

- c) where the largest dimension is 50 mm or more (see Figure 1), have a maximum height at which a line, drawn at 45° touches it, of not more than 5 mm above at least one adjacent/adjoining horizontal component; the maximum vertical protrusion above that component shall not exceed 20 % of the largest horizontal dimension of parts (see Figure 1 c), or
- d) where the largest dimension is less than 50 mm, have a maximum height at which a line, drawn at 45° touches it, of not more than 5 mm above at least one adjacent/adjoining horizontal component; the maximum vertical protrusion above that component shall not exceed 10 mm (see Figure 1) of parts (see Figure 1 d).

It shall not be possible to dismantle the bed or its components without the use of a tool.

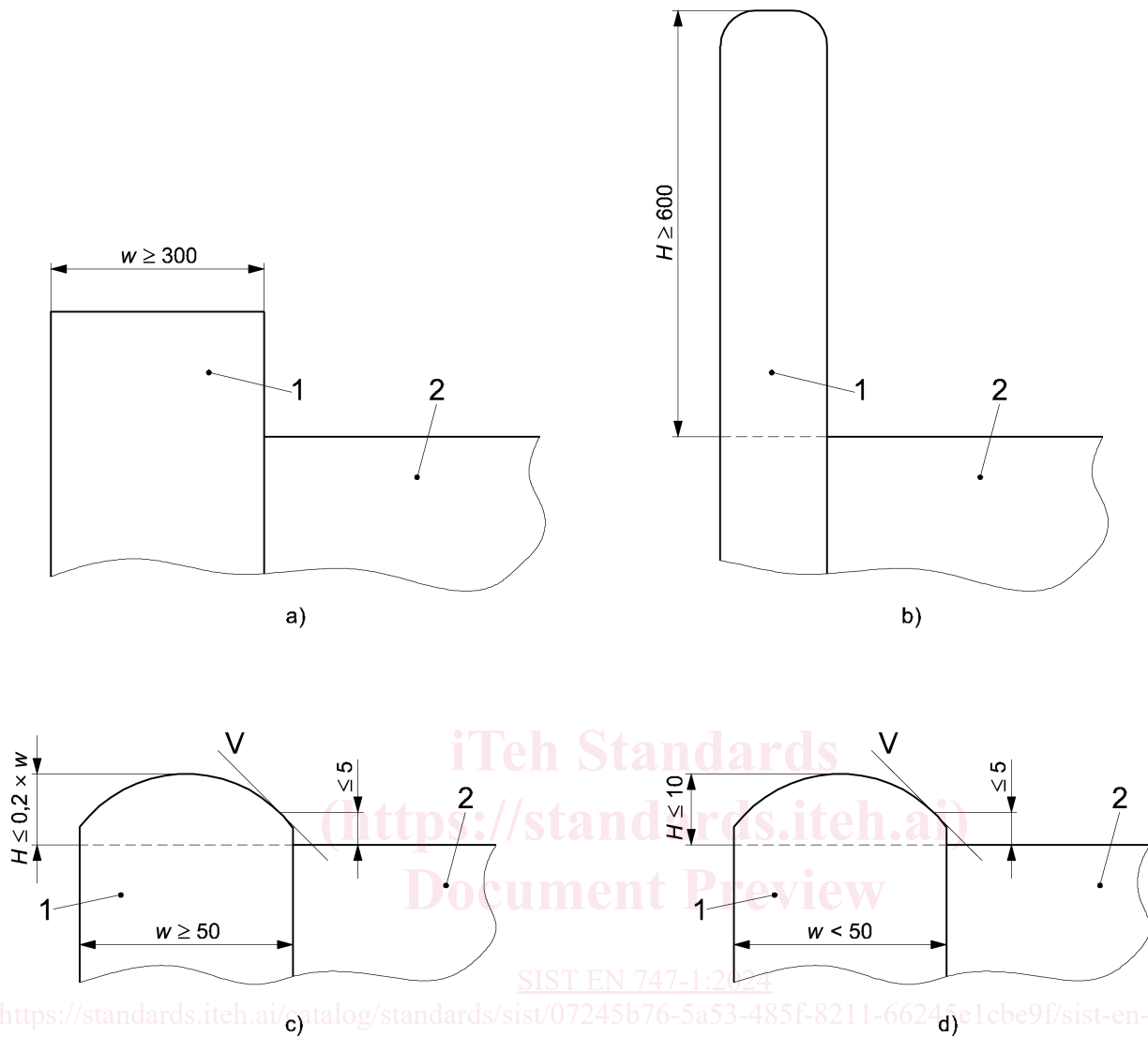
The dimensional requirements in this clause apply both before and after testing without re-tightening.

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Dimensions in millimetres

**Key**

- 1 vertically protruding part
- 2 highest adjacent part
- w width of protruding part
- H height of protruding part
- V 45° angle to the horizontal

Figure 1 — Examples of a vertically protruding part