



SLOVENSKI STANDARD

SIST EN 1334:1996

01-april-1996

Pohištvo za domačo uporabo - Postelje in posteljni vložki - Metode merjenja in priporočene tolerance

Domestic furniture - Beds and mattresses - Methods of measurement and recommended tolerances

Wohnmöbel - Betten und Matratzen - Meßverfahren und Toleranzempfehlungen

Ameublement domestique - Lits et matelas - Méthodes de mesure et tolérances recommandées

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ICS:

97.140 Pohištvo Furniture

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EUROPEAN STANDARD

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March 1996

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English version

**Domestic furniture - Beds and mattresses -
Methods of measurement and recommended
tolerances**

iTeh STANDARD PREVIEW
Ameublement domestique - Lits et matelas - Wohnmöbel - Betten und Matratzen - Meßverfahren
Méthodes de mesure et tolérances recommandées und Toleranzempfehlungen
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CEN

European Committee for Standardization
Comité Européen de Normalisation
Europäisches Komitee für Normung

Central Secretariat: rue de Stassart, 36 B-1050 Brussels

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Foreword

This European Standard has been prepared by The Technical Committee CEN/TC 207 "Furniture", of which the secretariat is held by IBN

The text forms part of a series of standards fixing safety requirements and the performance of beds and mattresses.

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of an identical text or by endorsement, at the latest by September 1996, and conflicting national standards shall be withdrawn at the latest by September 1996.

According to the CEN/CENELEC Internal regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

0 Introduction

This European Standard has been prepared in order to establish a method for the determination of the essential dimensions of mattresses, bed frames, divans and bed bases.

A large variety of bed designs exists in Europe, so, in order to help manufacturers, retailers and consumers to get the correct fit between the bed components, a nominal dimension, D , has been introduced and tolerances to the nominal dimension are recommended.

1 Scope

This European Standard describes methods of measurement for the determination of the dimensions of all types of domestic mattresses, bed frames, divans and bed bases intended for adult size.

However, it does not apply to air beds and water beds nor to mattress pads that are placed on top of the main support mattress.

It also includes recommended tolerances based on any nominal dimension in order to ensure the correct fit between the bed components.

However, specific requirements apply to the dimensions of bed bases for bunkbeds and single beds for use at a height of the upper face of the bed base of 800 mm and more above floor level (EN 747-1).

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2 Normative references

This European Standard incorporates, by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references, the latest edition of the publication referred to applies.

EN 747-1 Bunkbeds for domestic use - Part 1 Safety requirements

3 Definitions

For the purposes of this standard, the following definitions apply :

3.1 Nominal dimension

Dimension used by the manufacturer to describe the size of an item.

3.2 Unframed slat base

Bed base consisting of separate slats flexibly held together normally by means of textile, rubber or plastic tape.

NOTE : When loading one slat, the load is transferred to the support by that slat only.

3.3 Framed base

Bed base consisting of slats, springs, etc. which are connected to a structural frame system.

Note : When loading one component only, e.g. a slat or a spring, the load is distributed by the frame to the support.

3.4 Framed sprung mattresses

Upholstered bed bases consisting of springs, topped with fillings, on a rigid frame to be used in a bed frame or freestanding.

3.5 Divan base

Upholstered bed base used without the need of any framework. It may be constructed with a spring filling or a solid top and may include drawers or storage facilities.

4 General test conditions

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4.1 Preparation

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The item shall be tested as delivered. If of knock-down type, it shall be assembled according to the instructions supplied with the furniture.

Assembly fittings shall be tightened before testing.

Where items have been compressed by packaging or storage these shall be allowed to recover unconstrained for at least 24 hours or according to manufacturers recommendations, whichever is the longest.

4.2 Measuring accuracy

All forces shall have an accuracy of $\pm 5\%$ and all dimensions an accuracy of ± 1 mm.

5 Test equipment

5.1 Support surface

Rigid, horizontal, flat

For the mattress measurements, it shall have a smooth melamine face surface.

The dimensions of the support surface shall be greater than those of the item under test.

5.2 Side loading pads

Rigid, rectangular and vertical, 300 mm in height and 500 mm in width

The loading pads shall be mounted on a horizontal force application device which can apply a force as specified in 6.1.

Where dimensions, at the bottom of the item, are designed to be smaller than the top, the lower dimension can be measured using loading pads 50 mm in height and 500 mm in width.

5.3 Square aluminium alloy tube

40 mm x 40 mm x 2 mm, approximately 3 m long, having a mass of $2,5 \text{ kg} \pm 12,5 \text{ g}$.

6 Methods of measurement

6.1 External plan dimensions of mattresses and bed bases

For measuring the length and width of mattresses, bed bases and divan bases, place the item on the support surface (see 5.1).

Position the loading pads (see 5.2) as low as possible (in contact with the support surface) to opposite sides of the item and parallel to each other.

Apply an horizontal inward force of 15 N to each pad and measure the distance between the loading pads. For mattresses less than 50 mm in height, the force shall be 5 N.

For width determination, 3 measurements shall be taken.

- 2 with the centreline of the loading pads 250 mm from the end of the item,
- 1 with the centreline of the loading pads coinciding with the centreline of the item.

The width shall be the mean value of the 3 readings.

For length determination, the number of measurements depends on the width of the items as follows :

- for width < 1000 mm, one measurement shall be taken at the centreline of the item,
- for width between 1000 and 1400 mm, 2 measurements shall be taken with the centreline of the loading pads 250 mm from the edge of the item,
- for width > 1400 mm, follow the procedure for the width dimension.

The length shall be the mean value (where relevant) of the 2 or 3 readings.

The measurement positions for bed bases which fit into a bed frame shall always be those giving the maximum dimensions.

The length of unframed slat bases shall be measured without load.

6.2 Internal plan dimensions of bed frames

Place the item on the support surface (see 5.1)

Apply the same procedures as in 6.1, except that the loading pads shall be positioned inside the frame and the forces shall be applied outwards.

The measurement positions relevant for the fit of bed bases shall always be those giving the minimum dimensions.

NOTE : Due to design there may be different dimensions for the fit of the mattress and for the fit of the bed base.

6.3 Determination of the height of mattresses and divan bases

Place the item on the support surface (see 5.1).

Rest the aluminium tube (see 5.3) diagonally on the mattress (or divan base) so that the centre of the tube coincides with the geometric centre of the top plane of the mattress or divan base.

Measure the distances between the tube and the support surface at each corner of the item.

Repeat on the other diagonal.

The height shall be the mean of the four readings.

7 Recommended tolerances

In order to ensure that the bed components fit together, the following tolerances to the nominal dimensions are recommended :

7.1 Internal frame dimension

Width and length	D	+ 5 mm 0
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7.2 Mattress to fit into a bed

Width and length	D	0 - 20 mm
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Height	D	± 10 mm or 10 %, whichever is the lowest
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