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**Pohištvo - Sklopne postelje - Varnostne zahteve in preskušanje - 1. del: Varnostne zahteve**

Furniture - Foldaway beds - Safety requirements and testing - Part 1: Safety requirements

Möbel - Klappbetten - Sicherheitstechnische Anforderungen und Prüfverfahren - Teil 1: Sicherheitstechnische Anforderungen

Ameublement - Lits rabattables - Exigences de sécurité et essais - Partie 1: Exigences de sécurité

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English version

### Furniture - Foldaway beds - Safety requirements and testing - Part 1: Safety requirements

Ameublement - Lits rabattables - Exigences de  
sécurité et essais - Partie 1: Exigences de  
sécurité

Möbel - Klappbetten - Sicherheitstechnische  
Anforderungen und Prüfverfahren - Teil 1:  
Sicherheitstechnische Anforderungen

This European Standard was approved by CEN on 1995-01-02. 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 Central Secretariat or to any CEN member.

The European Standards exist 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 Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and United Kingdom.

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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", the secretariat of which is held by IBN.

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of an identical text or by endorsement, at the latest by August 1995, and conflicting national standards shall be withdrawn at the latest by August 1995.

According to the CEN/CENELEC Internal Regulations, 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, United Kingdom.

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## 1 Scope

This part of EN 1129 specifies requirements relating to the safety and strength of foldaway beds for domestic use.

The standard also covers the strength of wall fastenings where applicable.

This standard does not specify the properties of the materials or electrical equipment used in the construction of foldaway beds.

Folding beds, camping beds and convertible bed/chairs or settees are not covered by this standard.

In annex A (informative), the requirements are shown schematically in relation to the testing procedures.

## 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 1129-2:1995      Furniture - Foldaway beds - Safety requirements and testing - Part 2 : Test methods.

## 3 Definitions

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

### 3.1 foldaway bed

A foldaway bed (hereafter referred to as "bed") is a bed whose sleeping surface is rotated about at least one horizontal axis when being positioned for use.

## 4 Safety and strength

### 4.1 Construction

Exposed edges and protruding parts shall be rounded and free from burrs or sharp edges. There shall be no open-ended tubes.

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### 4.2 Folding fittings

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There shall be no shear and pinching points unless they are secured against unintended access.

When tested in accordance with 5.4 of 1129-2, the folding fittings shall be such as to ensure that neither the opening nor the closing force shall vary by more than 20 % between the two measurements.

### 4.3 Mounting of the foldable part to the frame

The folding mechanism shall be fastened to the structure by means which will remain tight throughout the service life of the bed.

The fasteners shall not loosen after testing in accordance with 5.4 of EN 1129-2.

NOTE : Experience has shown that a nut and bolt are satisfactory but that an ordinary wood screw may not be.

### 4.4 Strength and durability

When tested in accordance with 5.6 of EN 1129-2, neither the constructional elements nor the wall mounting structure shall have loosened nor shall there be any damage which will affect the function and safety of the bed.

### 4.5 Unintended closing

When tested in accordance with 5.5.3 of EN 1129-2, the foldable part shall not close automatically, i.e. the supports shall not lift more than 5 mm from the floor.

### 4.6 Unintended opening

The foldable part shall reclose automatically when opened up to a distance of 150 mm, measured from the top edge (see figure 6 of EN 1129-2).

The pressure force applied to the defined loading point (see figure 6 of EN 1129-2) shall be greater than 250 N when tested in accordance with 5.5.4 of EN 1129-2.

Either the opening force required shall be not less than 20 N or a positive retaining catch shall be provided which retains the bed firmly in the closed position and which can be released only by use of manual security device, e.g. a key or a double action button.

Locking mechanisms shall be constructed such that the operating force is at least 50 N. In the case of revolving elements, this force shall be applied tangentially at the point on the element furthest away from the axis of rotation.

The opening energy, measured at an opening angle of 70 °, shall not exceed 10 Nm <sup>1)</sup> when measured in accordance with 5.4 of EN 1129-2.

However, bed constructions with an opening energy of up to 60 Nm <sup>1)</sup> and gravity controlled beds with an opening energy of up to 120 Nm <sup>1)</sup> (measured at an opening angle of 70 ° in each case) are acceptable, providing the following conditions are satisfied :

#### a) Opening

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<sup>1)</sup> This value is measured taking into account the mass of the bed and the opening speed or the energy resulting from this opening speed.

- automatic closing after an opening length of 250 mm; and
- weight to be supported during the opening process not greater than 100 N.

b) Closing

- opening length up to the automatic closing point for end pivoting beds 350 mm and for side pivoting beds 300 mm.

NOTE : Opening energy more than 60 Nm, respectively more than 120 Nm, is not accepted.

## 5 Mounting of the bed to the building

The bed shall be so constructed that its mounting shall conform to the following requirements:

NOTE : Floor-to-ceiling beds, the mounting of which cannot be pulled over because of its proximity to the ceiling, are excluded.

There shall be, at least, two fixing points and there shall be, at least, two holes for attachment in each fixing point (see also clause 6). The fastening devices and the installation instructions shall be supplied with the bed.

The design of the fastening devices shall be such that no additional forces due to sagging of the floor, e.g. carpet or soft floor, up to 15 mm, can be transmitted to fastening devices. They shall be connected to the frame by the means described in 4.3 or by equivalent safety devices. The fastening shall not be capable of being released from the inside.

## 6 Installation instructions

Each bed shall be supplied with two sets of installation instructions. One durably and visibly attached near the fastening point. The instructions shall contain at least the following information :

- a warning against incorrect installation;
- the necessity for installation, and any further adjustment, to be carried out by competent persons only;
- the need to check the suitability of the floor and wall and that the fastening devices supplied with the product will withstand the forces generated;
- the value of the test force  $F_H$  on each attaching point;
- the number of screws required, calculated in accordance with annex B, for each fixing point;
- the minimum and maximum weight of the mattress unless the bed is supplied with a mattress or/and has an adjustable tension system.



## 7 Marking

All beds for which a claim for conformity to this standard is made shall be marked with the following information :

- a) the name, registered trade name or registered trade mark of either the manufacturer, distributor or retailer;
- b) the number of this part of EN 1129.

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