

Domestic furniture — Beds and mattresses — Test methods for the determination of functional characteristics

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British Standard

ICS 97.140

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National foreword

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Summary of pages

This document comprises a front cover, an inside front cover, the EN title page, pages 2 to 13 and a back cover.
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This British Standard, having been prepared under the direction of the Consumer Products and Services Sector Committee, was published under the authority of the Standards Committee and comes into effect on 15 August 2000

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ISBN 0 580 34846 6

Amendments issued since publication

Amd. No.	Date	Comments

English version

Domestic furniture – Beds and mattresses – Test methods for the determination of functional characteristics

Meubles à usage domestique – Lits et matelas – Méthodes d'essai pour la détermination des caractéristiques fonctionnelles

Wohnmöbel – Betten und Matratzen – Prüfverfahren zur Bestimmung der funktionellen Eigenschaften

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Foreword

This European Standard has been prepared by 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of an identical text or by endorsement, at the latest by November 2000, and conflicting national standards shall be withdrawn at the latest by November 2000.

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

1 Scope

This European Standard specifies test methods for the determination of the durability and hardness of mattresses and all types of fully erected domestic beds with mattresses (and mattress pads when they form a unit with the mattress). It does not apply to water beds, air beds and children cots.

It includes a method for the determination of the firmness rating of a mattress or a bed correlating to the subjective assessment made by people (see annex A). It must be emphasized that the firmness rating cannot be used to demonstrate comfort and/or quality of a mattress or a complete bed.

Ageing and degradation caused by air, light, humidity and temperature are not included. The test results are only valid for the article tested. When test results are intended to be applied to other similar articles, the test specimen shall be representative of them.

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 (including amendments).

EN 1334 Domestic furniture – Beds and mattresses – Methods of measurement and recommended tolerances.

EN 1725:1998 Domestic furniture – Beds and mattresses – Safety requirements and test methods.

ISO 1101 Technical drawings – Geometrical tolerancing – Tolerancing of form, orientation, location and run out – Generalities, definitions, symbols, indications on drawings.

ISO 8295 Plastics – Film and sheeting – Determination of the coefficients of friction.

3 Definitions

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

3.1 test unit a test unit consists of a mattress or bed or mattress/bed combination

3.2 durability test test simulating the repeated application of loads and/or movement of components occurring during long-term use and assessing the strength of the article under such conditions. The durability test is a procedure mainly intended to evaluate the change of the properties of the test unit caused by repeated loadings

3.3 load/deflection curve load/deflection curves are obtained by pressing a load pad into the test unit and measuring the associated value of indentation and force simultaneously

3.4 hardness value (H) the hardness value is determined from load/deflection measurement

3.4 firmness rating (H_s) the firmness rating is used to express the subjective assessment by persons. It is determined from the hardness value upon results from empirical studies

3.5 height loss the height loss expresses the change in the height of a test unit caused by the durability test