

**Mööbel. Narivoodid ja kõrged voodid. Osa 2:
Katsemeetodid**

**Furniture - Bunk beds and high beds - Part 2: Test
methods**

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EESTI STANDARDI EESSÕNA

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English Version

Furniture - Bunk beds and high beds - Part 2: Test methodsMeubles - Lits superposés et lits surélevés - Partie 2:
Méthodes d'essaiMöbel - Etagenbetten und Hochbetten - Teil 2:
Prüfverfahren

This European Standard was approved by CEN on 8 March 2012.

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COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG**Management Centre: Avenue Marnix 17, B-1000 Brussels**

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Foreword

This document (EN 747-2:2012) 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of an identical text or by endorsement, at the latest by October 2012, and conflicting national standards shall be withdrawn at the latest by October 2012.

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

This document supersedes EN 747-2:2007 and EN 13453-2:2004.

Compared to EN 747-2:2007 and EN 13453-2:2004, the following modifications have been made:

- a) Subclause 4.2 *Measuring cones*: A 7 mm cone has been added.
- b) Subclause 5.3 *Measuring of holes, gaps and openings*: includes measuring of 7 mm holes.
- c) Subclause 5.4.3 *Upwards and downwards static load on bed base*: the downwards force has been increased to 1 200 N (from EN 13453).
- d) Subclause 5.4.5 *Durability test on bed base*: new test (from EN 13453).
- e) Subclause 5.6.1 *Vertical static load on treads*: the force has been increased from 1 000 N to 1 200 N (from EN 13453).
- f) Subclause 5.7 *Stability test*: the horizontal force has been changed from an overturning moment of 170 Nm to a horizontal force of 120 N at the points most likely to cause overturning.

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*.

According to the CEN/CENELEC Internal Regulations, the national standards organizations 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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

This part of EN 747 describes a number of tests consisting of the application, to various parts of bunk beds and high beds, of loads or forces applied by one adult occupant per bed during normal functional use. It also deals with misuses that can be reasonably expected to occur.

The tests are designed to evaluate properties without regard for materials, design/construction or manufacturing processes.

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1 Scope

This European Standard specifies test methods for the safety, strength and durability of bunk beds and high beds for domestic and non-domestic use. The loads and forces in the strength and durability tests apply to beds with an internal length greater than 140 cm and a maximum bed base width of 120 cm.

The tests are designed to be applied to a bed that is fully assembled and ready for use.

The applicable safety requirements are given in EN 747-1.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 747-1:2012, *Furniture — Bunk beds and high beds — Part 1: Safety, strength and durability requirements*

EN ISO 2439:2008, *Flexible cellular polymeric materials — Determination of hardness (indentation technique) (ISO 2439:2008)*

3 General test conditions

3.1 Preliminary preparation

For furniture that includes hygroscopic materials, at least one week in normal indoor conditions shall have elapsed between manufacturing (or assembly) and testing.

For all other furniture, at least 48 hours in normal indoor conditions shall have elapsed prior to testing.

The sample shall be tested as delivered. If the sample is a knock-down type, it shall be assembled according to the instructions supplied with it. If the instructions allow for different combinations, the most adverse combination shall be used for each test.

Samples intended to be fastened together in pairs or attached to the structure of a building shall be tested as single, free-standing samples unless the instructions specifically require attachment to another sample or the building structure.

The test shall be carried out in indoor ambient conditions at a temperature between 15 °C and 25 °C. If, during a test, the temperature falls outside of the range of 15 °C to 25 °C, the maximum and/or minimum temperature shall be recorded in the test report.

Knock-down fittings shall be tightened before testing and shall not be re-tightened throughout the testing procedures.

The tests shall be carried out on the same sample and following the order of the clauses of EN 747-1. If a test cannot be carried out as specified in this standard, e.g. because a loading pad cannot be used for the application of a force due to the design of the product, the test shall be carried out as closely as possible to the specified procedure.

3.2 Application of forces

The test forces in durability and static load tests shall be applied sufficiently slowly to ensure that negligible dynamic load is applied.