MÖÖBEL. NARIVOODID JA KÕRGED VOODID. OSA 2: KATSEMEETODID

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



FFSTI STANDARDI FFSSÕNA

NATIONAL FORFWORD

See Eesti standard EVS-EN 747-2:2024 sisaldab Euroopa standardi EN 747-2:2024 ingliskeelset teksti.

Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.

Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 13.03.2024.

Standard on kättesaadav Eesti Standardimis-ja Akrediteerimiskeskusest.

This Estonian standard EVS-EN 747-2:2024 consists of the English text of the European standard EN 747-2:2024.

This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.

Date of Availability of the European standard is 13.03.2024.

The standard is available from the Estonian Centre for Standardisation and Accreditation.

Tagasisidet standardi sisu kohta on võimalik edastada, kasutades EVS-i veebilehel asuvat tagasiside vormi või saates e-kirja meiliaadressile standardiosakond@evs.ee.

ICS 97.140

Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardimis- ja Akrediteerimiskeskusele

Andmete paljundamine, taastekitamine, kopeerimine, salvestamine elektroonsesse süsteemi või edastamine ükskõik millises vormis või millisel teel ilma Eesti Standardimis-ja Akrediteerimiskeskuse kirjaliku loata on keelatud.

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardimis-ja Akrediteerimiskeskusega: Koduleht www.evs.ee; telefon 605 5050; e-post info@evs.ee

The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation and Accreditation No part of this publication may be reproduced or utilized in any form or by any means, electronic or mechanical, including photocopying, without a written permission from the Estonian Centre for Standardisation and Accreditation.

If you have any questions about copyright, please contact Estonian Centre for Standardisation and Accreditation:

Homepage www.evs.ee; phone +372 605 5050; e-mail info@evs.ee

EUROPEAN STANDARD NORME EUROPÉENNE

EUROPÄISCHE NORM

EN 747-2

March 2024

ICS 97.140

Supersedes EN 747-2:2012+A1:2015

English Version

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

Meubles - Lits superposés et lits surélevés - Partie 2 : Méthodes d'essai Möbel - Etagenbetten und Hochbetten - Teil 2: Prüfverfahren

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.

CEN members are the national standards bodies of 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 United Kingdom.



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

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

rd
5 references 5 definitions 5 st conditions 5 ty preparation 5 n of forces 6 s 6 ment 6 n pactor 8 ds 9
5 references 5 definitions 5 st conditions 5 ty preparation 5 n of forces 6 s 6 ment 6 s 6 npactor 8 ds 9
references 5 definitions 5 st conditions 5 ry preparation 5 n of forces 6 s 6 ment 6 s 6 npactor 8 nds 9
definitions 5 st conditions 5 ry preparation 5 n of forces 6 s 6 s 6 npactor 8 nds 9
st conditions 5 ry preparation 5 n of forces 6 s 6 s 6 npactor 8 nds 9
ry preparation 5 n of forces 6 s 6 ment 6 s 6 npactor 8 nds 9
ment
6 ment
ment
s
npactor
npactor
nee n

ce10
actor 10
or V-shaped openings 11
12
dures
before testing
of product
ents
nd durability tests
•
of the top bed to the bottom bed

European foreword

This document (EN 747-2:2024) 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 747-2:2012+A1:2015.

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

- Conditions of preliminary preparation;
- Improvement of description, addition of some test equipment;
- Alignment of the test method on holes, gaps and openings, to follow EN 747-1;
- Addition of a horizontal static load test on safety barriers;
- Addition of strength tests on the safety barriers;
- Addition of static and impact tests for handrails, platforms and platform barriers.

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.

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 intended to represent one adult occupant per bed during normal functional use. It also deals with misuses that can be reasonably expected to occur.

Coument is a preview senerated by the The tests are designed to evaluate properties without regard for materials, design/construction or manufacturing processes.

1 Scope

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

The tests are applicable to 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 600 mm or more above the floor.

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 747-1:2024.

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 747-1:2024, Furniture — Bunk beds and high beds — Part 1: Safety, strength and durability requirements

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

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 747-1:2024 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

4 General test conditions

4.1 Preliminary preparation

Unless otherwise specified by the manufacturer, the test item shall be stored in indoor ambient conditions for at least 24 h immediately prior to testing.

The bed shall be tested as delivered. Knock-down beds shall be assembled according to the manufacturer's instructions. If the instructions allow the bed to be assembled or combined in different ways, the most adverse combination shall be used for each test. Knock-down fittings shall be tightened before testing. Further tightening shall not take place unless specifically required by the manufacturer. If the configuration shall be changed to produce the worst-case conditions, this shall be recorded in the test report.

The tests shall be carried out in indoor ambient conditions at a temperature between 15 °C and 27 °C.

The tests shall be carried out on the same bed and following the order of the clauses of EN 747-1:2024.