

**Mööbel. Istmete ja diivanvoodite toimemehhanismid.  
Katsemeetodid**

**Furniture - Operating mechanisms for seating and sofa-  
beds - Test methods**

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 13759:2012 sisaldab Euroopa standardi EN 13759:2012 ingliskeelset teksti.	This Estonian standard EVS-EN 13759:2012 consists of the English text of the European standard EN 13759:2012.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 18.04.2012.	Date of Availability of the European standard is 18.04.2012.
Standard on kättesaadav Eesti Standardikeskusest.	The standard is available from the Estonian Centre for Standardisation.

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

ICS 97.140

### Standardite reprodutseerimise ja levitamise õigus kuulub Eesti Standardikeskusele

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

Kui Teil on küsimusi standardite autorikaitse kohta, võtke palun ühendust Eesti Standardikeskusega:  
Aru 10, 10317 Tallinn, Eesti; [www.evs.ee](http://www.evs.ee); telefon 605 5050; e-post [info@evs.ee](mailto:info@evs.ee)

### The right to reproduce and distribute standards belongs to the Estonian Centre for Standardisation

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.

If you have any questions about copyright, please contact Estonian Centre for Standardisation:  
Aru 10, 10317 Tallinn, Estonia; [www.evs.ee](http://www.evs.ee); phone 605 5050; e-mail [info@evs.ee](mailto:info@evs.ee)

English Version

## Furniture - Operating mechanisms for seating and sofa-beds - Test methods

Meubles - Mécanismes de manoeuvre des sièges et des  
canapés - Méthodes d'essai

Möbel - Funktionsmechaniken für Sitzmöbel und  
Liegesofas - Prüfverfahren

This European Standard was approved by CEN on 9 March 2012.

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, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and United Kingdom.



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

Management Centre: Avenue Marnix 17, B-1000 Brussels

## Contents

Page

Foreword.....	3
1 Scope .....	4
2 Terms and definitions .....	4
3 General test conditions .....	5
3.1 Preliminary preparation .....	5
3.2 Tolerances .....	5
4 Test apparatus .....	5
5 Test procedure .....	7
5.1 Functional assessment .....	7
5.2 Durability test .....	7
5.2.1 Set up procedure .....	7
5.2.2 Furniture not occupied during operation of mechanism .....	7
5.2.3 Furniture occupied during operation of the mechanism .....	7
6 Test report .....	8

## Foreword

This document (EN 13759:2012) 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 ENV 13759:2000.

Compared to ENV 13759:2000 the following modifications have been made:

- a) Modification of the title to better reflect the content of the standard;
- b) The test dummy has been totally revised to better integrate with all types of seating;
- c) The test dummy loading has been modified to a single loading equivalent to a 110 kg person;
- d) A note has been added to give guidance on how to test chairs for heavier users;
- e) A duty cycle has been added for powered reclining mechanisms.

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.

## 1 Scope

This European Standard specifies test methods for the determination of the durability of hand and power operated reclining mechanisms for adult seating.

It also specifies test methods for the determination of the durability of mechanisms for converting sofas and chairs into beds.

The test methods are based on use by a person weighing up to 110 kg.

Requirements for the durability of reclining mechanisms are not included within this standard.

Test methods for strength and durability of the structure are not included.

It does not apply to the safety of electrically driven seating which is covered by the machinery, low voltage and EMC directives.

It does not apply to tilting and reclining mechanisms fitted to work chairs.

## 2 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

### 2.1

#### **work chair**

chair, with or without arm rests, for use by one adult in the office or home office (for example for working with a computer), whose upper part, which includes the seat and back, is supported on a single column and can rotate in the horizontal plane and is at least adjustable in height

### 2.2

#### **convertible sofa-bed**

item of seating that utilises a mechanism to convert it into a bed

### 2.3

#### **reclining chair**

item of seating that features a backrest that can be adjusted from the normal upright position to a reclined position

Note 1 to entry: The item of seating may also feature a footrest that raises as the back is reclined. The mechanism may be motorised, manual or gravity activated.

### 2.4

#### **rise and recline chair**

item of seating that, in addition to the recline function, features a mechanism to raise the seat to ease the process of getting out of the seat

### 2.5

#### **duty cycle**

length of time an electrically powered operating mechanism may be operated without impairing its useful life

Note 1 to entry: The duty cycle includes the amount of time the drive system may be operated as well as the amount of time it must not be operated to allow the drive system to cool sufficiently before it is activated again.