



Institut luxembourgeois de la normalisation
de l'accréditation, de la sécurité et qualité
des produits et services

ILNAS-EN 14749:2016+A1:2022

**Furniture - Domestic and kitchen
storage units and kitchen-worktops -
Safety requirements and test methods**

Möbel - Wohn- und
Küchenbehältnismöbel und
Küchenarbeitsplatten -
Sicherheitstechnische Anforderungen
Ameublement - Meubles de rangement
domestiques et de cuisine et plans de
travail de cuisine - Exigences de sécurité
et méthodes ❄️ essai

05/2022



National Foreword

This European Standard EN 14749:2016+A1:2022 was adopted as Luxembourgish Standard ILNAS-EN 14749:2016+A1:2022.

Every interested party, which is member of an organization based in Luxembourg, can participate for FREE in the development of Luxembourgish (ILNAS), European (CEN, CENELEC) and International (ISO, IEC) standards:

- Participate in the design of standards
- Foresee future developments
- Participate in technical committee meetings

<https://portail-qualite.public.lu/fr/normes-normalisation/participer-normalisation.html>

THIS PUBLICATION IS COPYRIGHT PROTECTED

Nothing from this publication may be reproduced or utilized in any form or by any mean - electronic, mechanical, photocopying or any other data carries without prior permission!

ILNAS-EN 14749:2016+A1:2022

EUROPEAN STANDARD **EN 14749:2016+A1**

NORME EUROPÉENNE

EUROPÄISCHE NORM

May 2022

ICS 97.040.10; 97.140

Supersedes EN 14749:2016

English Version

**Furniture - Domestic and kitchen storage units and
kitchen-worktops - Safety requirements and test methods**

Ameublement - Meubles de rangement domestiques et
de cuisine et plans de travail de cuisine - Exigences de
sécurité et méthodes d'essai

Möbel - Wohn- und Küchenbehältnismöbel und
Küchenarbeitsplatten - Sicherheitstechnische
Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 21 November 2015 and includes Amendment 1 approved by CEN on 13 March 2022.

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, Turkey 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

Contents

Page

European foreword.....	4
Introduction	5
1 Scope	6
2 Normative references	6
3 Terms and definitions	6
4 Test procedure and tolerances	9
4.1 General	9
4.2 Sequence of testing	9
4.3 Tolerances	9
5 Safety requirements.....	9
5.1 Principles of safety requirements.....	9
5.1.1 General.....	9
5.1.2 Determination of centre of gravity	10
5.1.3 Determination of total mass.....	10
5.2 General safety requirements	10
5.2.1 General.....	10
5.2.2 Units moving vertically	11
5.2.3 Lids	11
5.2.4 Vertically moving roll fronts and vertically moving sliding doors	11
5.2.5 Extension elements	11
5.3 Structural safety requirements.....	11
5.3.1 General.....	11
5.3.2 Shelves	11
5.3.3 Shelf supports.....	12
5.3.4 Storage area/-volume for heavy appliances	12
5.3.5 Pivoted doors.....	12
5.3.6 Sliding doors and horizontal roll fronts	12
5.3.7 Extension elements	12
5.3.8 Bottom hinged flaps	14
5.3.9 Top hinged flaps	14
5.3.10 Kitchen-worktops and other top surfaces	14
5.3.11 Wall hanging units and top hanging units.....	15
5.4 Stability.....	16
5.4.1 General.....	16
5.4.2 Kitchen floor units with kitchen-worktops	17
5.4.3 Additional stability requirements for TV-furniture.....	17
5.5 Floor standing units intended to be attached to the building.....	20
5.6 Vertical glass components	20
6 Product information	21
7 Test report.....	21
Annex A (normative) Additional test methods.....	22
A.1 Vertical downwards static load of top hinged flaps.....	22
A.2 Test methods for the determination of the stability of TV-furniture.....	22
A.2.1 Test Equipment.....	22

A.2.2	Stability test methods for TV-furniture	23
A.3	Sideways detachment test	25
Annex B (informative)	Guide to testing of units and components	27
Annex C (informative)	Example of loading of wall hanging units and top hanging units (see 5.3.11.3 overload)	32
Annex D (informative)	Method for calculation of vertical and horizontal acting forces	33
Bibliography	37

European foreword

This document (EN 14749:2016+A1:2022) 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 November 2022, and conflicting national standards shall be withdrawn at the latest by November 2022.

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 A1 EN 14749:2016 A1.

This document includes Amendment 1 approved by CEN on 13 March 2022.

The start and finish of text introduced or altered by amendment is indicated in the text by tags A1 A1.

Compared to EN 14749:2005 the following modifications have been made:

- a) structure revised;
- b) the most test methods removed and replaced by a reference to EN 16122:2012, *Domestic and non-domestic storage furniture — Test methods for the determination of strength, durability and stability*;
- c) Clause 3 “Terms and definitions” extended;
- d) tests for stability of TV-furniture added;
- e) Annex B (informative) “Guide to testing of units and components” amended;
- f) Annex D (informative) “Relation between safety requirements, total mass and position of centre of gravity of loaded units or loaded components” deleted;
- g) new Annex D (informative) containing a method for calculation of vertical and horizontal acting forces added.

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, Republic of North Macedonia, Romania, Slovakia, Slovenia, Spain, Sweden, Switzerland, Turkey and the United Kingdom.

Introduction

With this revision the included test methods have been as far as possible taken out of the standard and referenced to:

- EN 16122:2012, *Domestic and non-domestic storage furniture — Test methods for the determination of strength, durability and stability*.

This standard was prepared in order to provide assurance that domestic storage furniture and kitchen-worktops comply with the given requirements and are safe.

The intention of this European Standard is the prevention of serious injury through normal use, as well as foreseeable misuse. It cannot ensure that structural failure will not eventually occur as a result of habitual misuse.

Co-ordinating sizes for kitchen furniture (including kitchen-worktops) kitchen appliances, sinks and decorative panels are covered by EN 1116, *Kitchen furniture — Co-ordinating sizes for kitchen furniture and kitchen appliances*.

1 Scope

[A1] This document specifies safety requirements and test methods for all types of kitchen and bathroom storage units and domestic storage furniture, including TV-furniture, and their components. **[A1]**

It does not apply to non-domestic storage, office storage, industrial storage, catering equipment, retail storage and industrial storage lockers.

[A1] It does not apply to furniture covered by EN 71 1, Safety of toys — Part 1: Mechanical and physical properties.

The stability requirements do not apply to TV-furniture with a built in TV attachment. Such products are covered by EN 62368 1:2014+A11:2017, Audio/video — Information and communication technology equipment — Part 1: Safety requirements, Clause 8.6. **[A1]**

It does not include requirements for the resistance to ageing, degradation, flammability and electrical safety.

Safety that is dependent upon the structure of the building is not included, *e.g.* the strength of wall hanging units includes only the cabinet and its components including wall attachment devices. The wall and the wall attachments are not included.

Annex A (normative) contains additional test methods.

Annex B (informative) contains a guide to testing of units and components according to this document.

Annex C (informative) contains an example of loading of wall hanging units.

Annex D (informative) contains a method for calculation of vertical and horizontal acting forces.

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 71-1:2014, *Safety of toys - Part 1: Mechanical and physical properties*

EN 12150-1:2015, *Glass in building — Thermally toughened soda lime silicate safety glass — Part 1: Definition and description*

EN 12600, *Glass in building - Pendulum test - Impact test method and classification for flat glass*

EN 14072:2003, *Glass in furniture - Test methods*

EN 16122:2012, *Domestic and non-domestic storage furniture - Test methods for the determination of strength, durability and stability*

[A1] EN 62368-1:2014+A11:2017, *Audio/video — information and communication technology equipment — Part 1: Safety requirements* **[A1]**

3 Terms and definitions

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

3.1

unit

piece of storage furniture