



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

ILNAS-EN 527-2:2016

**Office furniture - Work tables - Part 2:
Safety, strength and durability
requirements**

Büromöbel - Büro-Arbeitstische - Teil 2:
Anforderungen an die Sicherheit,
Festigkeit und Dauerhaltbarkeit

Mobilier de bureau - Tables de travail de
bureau - Partie 2 : Exigences de sécurité,
de résistance et de durabilité

12/2016



National Foreword

This European Standard EN 527-2:2016 was adopted as Luxembourgish Standard ILNAS-EN 527-2:2016.

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!

EUROPEAN STANDARD ^{ILNAS-EN 527-2:2016} **EN 527-2**
NORME EUROPÉENNE
EUROPÄISCHE NORM

December 2016

ICS 97.140

Supersedes EN 527-2:2002

English Version

**Office furniture - Work tables - Part 2: Safety, strength and
durability requirements**

Mobilier de bureau - Tables de travail de bureau -
Partie 2 : Exigences de sécurité, de résistance et de
durabilité

Büromöbel - Büro-Arbeitstische - Teil 2:
Anforderungen an die Sicherheit, Festigkeit und
Dauerhaltbarkeit

This European Standard was approved by CEN on 16 October 2016.

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, Former Yugoslav Republic of Macedonia, 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

CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

Contents

Page

European foreword.....	3
1 Scope	4
2 Normative references	4
3 Terms and definitions	4
4 Safety requirements.....	4
4.1 General.....	4
4.2 Shear and squeeze points.....	5
4.2.1 Shear and squeeze points when setting up and folding	5
4.2.2 Shear and squeeze points under influence of powered mechanisms	5
4.2.3 Shear and squeeze points during use	5
4.3 Stability requirements	5
4.4 Structural safety requirements.....	5
5 Strength and durability.....	5
5.1 General.....	5
Table 1 — Test sequence and parameters	6
5.2 Requirements	8
6 Information for use	8
7 Test report.....	8
Annex A (informative) Test for the deflection of table tops	9
Annex B (informative) Stiffness of the structure – example.....	10
Figure B.1 — Stiffness of the structure	10

European foreword

This document (EN 527-2:2016) 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 June 2017, and conflicting national standards shall be withdrawn at the latest by June 2017.

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 527-2:2002.

Compared to the previous version, modifications are:

- Test sequence and parameters are included, according to tests in EN 1730:2012 instead of EN 527-3:2003, which will be withdrawn;
- Suppression of A-deviation;
- Addition of an Annex B (informative) for an example of calculation for stiffness of the structure.

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, Former Yugoslav Republic of Macedonia, 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 safety, strength and durability requirements for work tables and desks for office tasks to be undertaken in a seated, a sit-stand or standing position.

It does not apply to other tables in the office area, which are covered by EN 15372.

Annex A (informative) contains a test for the deflection of tables tops.

Annex B (informative) contains an example of calculation of the stiffness of the structure.

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 1730:2012, *Furniture - Tables - Test methods for the determination of stability, strength and durability*

3 Terms and definitions

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

3.1

accessible part

part to which access can easily be gained by the user when the table is in its intended configuration of use and for which the probability of unintentional user contact is high

3.2

part accessible during setting up and folding

part to which access can only be gained when setting up and folding the table

3.3

shear and squeeze point

gap which can cause harm to fingers and which occurs when two accessible parts move relative to each other

3.4

overturn

event at which a table pivots to a point beyond which the table continues to fall

4 Safety requirements

4.1 General

The table shall be designed so as to minimize the risk of injury to the user.

All parts of the table with which the user comes into contact during intended use, shall be designed so that physical injury and damage are avoided.

These requirements are fulfilled when:

- a) all accessible edges and corners are free from burrs and rounded or chamfered;
- b) the edges and corners of the top surfaces are chamfered not less than 1 mm by 1 mm or rounded with a radius of not less than 2 mm;

- c) the ends of feet and tubular components are closed or capped.

Movable and adjustable parts shall be designed so that injuries and inadvertent operation are avoided.

It shall not be possible for any load bearing part of the table to come loose unintentionally.

All parts which are lubricated to assist sliding shall be designed to protect users from lubricant stains when in normal use.

4.2 Shear and squeeze points

4.2.1 Shear and squeeze points when setting up and folding

Unless 4.2.2 or 4.2.3 are applicable, shear and squeeze points that are created only during setting up and folding are acceptable, because the user can be assumed to be in control of his/her movements and to be able to cease applying the force immediately upon experiencing pain.

The edges of parts moving relative to each other and creating shear and squeeze points shall be as specified in 4.1.

4.2.2 Shear and squeeze points under influence of powered mechanisms

There shall be no shear and squeeze points which close to less than 25 mm unless they are always less than 7 mm created by parts of the table operated by powered mechanisms, i.e. springs, gas lifts and motorized systems.

4.2.3 Shear and squeeze points during use

There shall be no shear and squeeze points which close to less than 25 mm unless they are always less than 7 mm created by forces applied during normal use or created by the user during normal movements and actions, e.g. attempting to move the table.

4.3 Stability requirements

The table shall not overturn when tested according to tests 10 and 11 of Table 1.

4.4 Structural safety requirements

The structural safety requirements are fulfilled when the requirements according to 5.2 are fulfilled.

5 Strength and durability

5.1 General

Tables shall be tested according to Table 1 and following the order listed in Table 1.

With the exception of test 9 – Drop test, work tables supplied with storage features shall be tested with the following loads in the storage feature:

- extension elements: 0,5 kg/dm³;
- suspended pocket files: 4 kg/dm.