SLOVENSKI STANDARD
SIST EN 527-2:2017+A1:2019

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Nadomešča:
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Pisarniško pohištvo - Delovne mize - 2. del: Zahteve za varnost, trdnost in trajnost (vključno z dopolnilom A1)

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

Ta slovenski standard je istoveten z: **EN 527-2:2016+A1:2019**

ICS:

97.140	Pohištvo	Furniture

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EUROPEAN STANDARD

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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 and includes Amendment 1 approved by CEN on 1 March 2019.

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

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European foreword

This document (EN 527-2:2016+A1:2019) 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of an identical text or by endorsement, at the latest by November 2019, and conflicting national standards shall be withdrawn at the latest by November 2019.

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 includes Amendment 1 approved by CEN on 1 March 2019.

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

tags ⟦A1⟩ ⟨A1⟧.

This document supersedes ⟦A1⟩ EN 527-2:2016 ⟨A1⟧.

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— Test sequence and parameters are included, according to tests in EN 1730:2012 instead of EN 527-3:2003, which will be withdrawn;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, Serbia, 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/dm^3;

— suspended pocket files: 4 kg/dm.

Table 1 — Test sequence and parameters

Tests	Reference	Parameters	Value
1. Durability of height adjustment mechanisms[d]	EN 1730:2012, 8	Minimum mass on the table top, kg: Location of the centre of the loading point and loading on the table top: - A: 20 kg at 200 mm from the front and side edges. The remaining load shall be at the geometric centre of the table top (25 % of the cycles); - B: 50 kg or the maximum load specified shall be at the geometric centre of the table top (50 % of the cycles); - C: 20 kg positioned at a rear corner 200 mm from the rear edge and the side edge. The remaining load shall be at the geometric centre of the table top (25 % of the cycles) cycles:	50[c] 5000
2.1. Horizontal static load test [a]	EN 1730:2012, 6.2	Load on the table top, kg: Specified force, N: Minimum specified force, N: Cycles	50 450 300 10
2.2. Additional horizontal static load test for adjustable tables with a height more than 950 mm [b]	EN 1730:2012, 6.2	Load on the table top, kg: Moment, Nm: Cycles	50 285 10
3.1 Vertical static load tests [a]	EN 1730:2012, 6.3.1	Force, N Cycles	1 000 10
3.2 Additional vertical static load test for adjustable tables with a height more than 950 mm [b]	EN 1730:2012, 6.3.1	Force, N Cycles	500 10
4. Horizontal durability test [a]	EN 1730:2012, 6.4.1, 6.4.2	Load on the table top, kg: Force, N: Cycles:	50 300 10 000

Tests	Reference	Parameters	Value
[A1] 5. Stiffness of the structure [a]	EN 1730:2012, 6.4.1 and 6.4.3	Load on the table top, kg: Force, N:	20 [f] 200 [A1]
6. Vertical durability test [a]	EN 1730:2012, 6.5	Force, N: Cycles:	400 10 000
7. Durability of tables with castors	EN 1730:2012, 6.8	Load on the table top, kg: Cycles:	50 2 000
8. Vertical impact test [a]	EN 1730:2012, 6.6	Drop height, mm : Cycles	140 10
9. Drop test [a]	EN 1730:2012, 6.9	Nominal drop height, mm:	100
10. Stability under vertical load [e]	EN 1730:2012, 7.2	Force, N V_1 V_2	 750 750
11. Stability for work tables extension elements [e]	EN 1730:2012, 7.3	Force, N	400

[a] Height adjustable tables shall be adjusted to their maximum height or 950 mm table top height, whichever is the lower.

[b] Adjust the work table to its maximum height

[c] Either minimum 50 kg or nominal load according to the manufacturer's instruction whichever is the greater

[d] This test is only applicable to electrically operated height adjustment mechanisms.

[e] The tests of the stability Clauses 10 and 11 may be carried out additionally at the very beginning as an option.

[f] [A1] If the table tends to lift under the specified load, place a load in 10 kg increments in the centre of the table top until the tilting cease. The horizontal force shall not be reduced and the added load shall be recorded in the test report. [A1]