Office furniture - Work tables and desks - Part 3: Methods of test for the determination of the stability and the mechanical strength of the structure

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EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

Käesolev Eesti standard EVS-EN 527-3:2003 sisaldab Euroopa standardi EN 527-3:2003 ingliskeelset teksti. Käesolev dokument on jõustatud 06.06.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes. Standard on kättesaadav Eesti standardiorganisatsioonist.	This Estonian standard EVS-EN 527-3:2003 consists of the English text of the European standard EN 527-3:2003. This document is endorsed on 06.06.2003 with the notification being published in the official publication of the Estonian national standardisation organisation. The standard is available from Estonian standardisation organisation.

Käsitlusala: This part of EN 527 specifies methods of test for the determination of the stability and the mechanical strength of the structure of office work tables and desks	**Scope:** This part of EN 527 specifies methods of test for the determination of the stability and the mechanical strength of the structure of office work tables and desks

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Võtmesõnad: desks, ergonomics, furniture, human factors engineering, mechanical properties, office furniture, physical properties, properties, safety, stability, tables, testing

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English version

Office furniture

Work tables and desks

Part 3: Methods of test for the determination of the stability and the mechanical strength of the structure

Mobilier de bureau – Tables de travail de bureau – Partie 3: Méthodes d'essai pour la détermination de la stabilité et de la résistance mécanique de la structure

Büromöbel – Büro-Arbeitstische – Teil 3: Prüfverfahren für die Bestimmung der Standsicherheit und der mechanischen Festigkeit der Konstruktion

This European Standard was approved by CEN on 2001-01-18.

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 Management Centre or to any CEN member.

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CEN

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Contents

Foreword

This document (EN 527-3:2003) 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 August 2003, and conflicting national standards shall be withdrawn at the latest by August 2003.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Luxembourg, Malta, Netherlands, Norway, Portugal, Slovakia, Spain, Sweden, Switzerland and the United Kingdom.

1 Scope

This part of EN 527 specifies methods of test for the determination of the stability and the mechanical strength of the structure of office work tables and desks.

NOTE In this standard, the words « table » and « desk » have the same meaning. For simplicity, only the word « table » is used in the remainder of the standard.

The tests are designed to be applied to an article of furniture that is fully assembled and ready for use.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated in it by amendment or revision. For undated references the latest edition of the publication referred to applies.

ISO 48:1994, *Rubber, vulcanized or thermoplastic – Determination of hardness (hardness between 10 IRHD and 100 IRHD).*

3 General test conditions

3.1 Preliminary preparation

Before any of the tests are commenced, the item shall be old enough to ensure that it has developed its full strength.

The furniture shall be tested as delivered. Knock-down furniture shall be assembled according to the instructions supplied with it. If the furniture can be assembled, adjusted or combined in different ways, the most adverse combination shall be used for each test. Knock-down fittings shall be tightened before testing and shall not be re-tightened unless specifically required by the manufacturer.

The tests shall be carried out in indoor ambient conditions at a temperature between 15°C and 25°C.

The test forces in durability and static load tests shall be applied sufficiently slowly to ensure that negligible dynamic load is applied. The forces in fatigue tests shall be applied sufficiently slowly to ensure that kinetic heating does not occur.

The forces can be replaced by masses.

3.2 Determination of the drawer test load

The test load of drawers, M, is defined by the following formula :

$$M(kg) = \frac{l}{330} \times \frac{L}{50} \times \frac{h}{300} \times 2{,}5 \, .$$

where :

l (in mm) is the internal width : usable distance between the sides of the drawer.

L (in mm) is the internal length : usable distance between the front and back of the drawer.

h (in mm) is the clear height : unobstructed height above the bottom of the drawer.