

## **Workbenches for laboratories - Dimensions, safety requirements and test methods**

Workbenches for laboratories - Dimensions, safety  
requirements and test methods

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 13150:2002 sisaldab Euroopa standardi EN 13150:2001 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 16.01.2002 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 13150:2002 consists of the English text of the European standard EN 13150:2001.</p> <p>This document is endorsed on 16.01.2002 with the notification being published in the official publication of the Estonian national standardisation organisation.</p> <p>The standard is available from Estonian standardisation organisation.</p>
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<p><b>Käsitlusala:</b> This European Standard specifies safety requirements and test methods for workbenches for laboratories including laboratory tables and given recommendations for their dimensions.</p>	<p><b>Scope:</b> This European Standard specifies safety requirements and test methods for workbenches for laboratories including laboratory tables and given recommendations for their dimensions.</p>
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**ICS** 71.040.10

**Võtmesõnad:** desks, dimensions, ergonomics, furniture, human factors engineering, laboratories, laboratory benches, mechanical properties, properties, safety, safety requirements, tables, testing, work benches

ICS 71.040.10

**English version**

**Workbenches for laboratories**

Dimensions, safety requirements and test methods

Paillasses de laboratoire –  
Dimensions, spécification de  
sécurité et méthodes d'essai

Arbeitsstische für Laboratorien –  
Maße, Sicherheitsanforderungen  
und Prüfverfahren

This European Standard was approved by CEN on 2001-04-16.

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.

The European Standards exist 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 Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, the Czech Republic, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Luxembourg, the Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, and the United Kingdom.

**CEN**

European Committee for Standardization  
Comité Européen de Normalisation  
Europäisches Komitee für Normung

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## Foreword

This European Standard has been prepared by Technical Committee CEN/TC 207 "Furniture", the secretariat of which is held by IBN.

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 2001, and conflicting national standards shall be withdrawn at the latest by November 2001.

This European Standard EN 13150 is applicable with date of publication (dop.) For workbenches for laboratories complying with a national standard before dop, this previous national standard may continue to apply for production and placing on the market until 2 years after dop. This standard does not apply to workbenches for laboratories, which have been put into service in the laboratory before 2 years after dop.

Annex A is normative. Annex B is informative.

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, Iceland, Ireland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland and the United Kingdom.

## 1 Scope

This European Standard specifies safety requirements and test methods for workbenches for laboratories including laboratory tables and gives recommendations for their dimensions.

This European Standard applies to workbenches, movable tables and workbench shelves designed for use in research, educational, quality control and similar laboratories.

This European Standard does not apply to workbenches for pupils in scientific class rooms of schools. It does not apply to workbenches for special purposes, e.g. for heavy diagnostic or processing machines.

It should be understood that fulfilling the requirements does not ensure that failure will not occur as a result of habitual misuse or after an excessively long period of service. The tests are designed to be applied to a stand-alone workbench that is fully assembled and ready for use.

Requirements and test methods related to the fire safety of workbenches and to the resistance of the work surface are not included in this European Standard.

## 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 (including amendments).

EN 527-1:2000, *Office furniture - Work tables and desks - Part 1: Dimensions*

EN 1730, *Domestic furniture - Tables - Test methods for determination of strength, durability and stability*

prEN 12600:1999, *Glass in building - Pendulum test - Impact test method for flat glass and performance requirements*

EN 61010-1, *Safety requirements for electrical equipment for measurement, control and laboratory use - Part 1: General requirements (IEC 61010-1:1990 + A1:1992, modified)*

ISO 48, *Rubber, vulcanized or thermoplastic - Determination of hardness (hardness between 10 IRHD and 100 IRHD)*

ISO 2813, *Paints and varnishes - Determination of specular gloss of non-metallic paint films at 20°, 60° and 85°*

## 3 Terms and definitions

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

### 3.1

#### **work surface height, $h_1$**

vertical distance between the floor and the top of the work surface (see Figure 1)

### 3.2

#### **overworkbench shelf height, $h_2$**

vertical distance between the floor and the top of the shelf surface (see Figure 1)

### 3.3

#### **bottom rail height, $h_3$**

vertical distance between the floor and the lower part of bottom rail (see Figure 2)

### 3.4

#### **overall depth, $d_1$**

horizontal distance between the front and the rear edge of the workbench including possible service zones (see Figure 2)

### 3.5

#### **clear work surface depth, $d_2$**

horizontal distance between the front and the rear edge of the workbench excluding edges and possible service zones (see Figure 2)

### 3.6

#### **overworkbench shelf depth, $d_3$**

horizontal distance between the front and the rear edge of the overworkbench shelf (see Figure 2)

### 3.7

#### **service zone depth, $d_4$**

horizontal distance of overall depth  $d_1$  minus clear work surface depth  $d_2$  (see Figure 2)