

Laborimööbel - Soovitused projekteerimiseks ja paigaldamiseks

Laboratory furniture - Recommendations for design
and installation

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>Käesolev Eesti standard EVS-EN 14056:2003 sisaldab Euroopa standardi EN 14056:2003 ingliskeelset teksti.</p> <p>Käesolev dokument on jõustatud 16.05.2003 ja selle kohta on avaldatud teade Eesti standardiorganisatsiooni ametlikus väljaandes.</p> <p>Standard on kättesaadav Eesti standardiorganisatsioonist.</p>	<p>This Estonian standard EVS-EN 14056:2003 consists of the English text of the European standard EN 14056:2003.</p> <p>This document is endorsed on 16.05.2003 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>
--	---

<p>Käsitlusala: This European Standard gives recommendations for the installation and design of laboratory benches, storage units and services and their connections and fittings. The recommendations may be used by all parties involved in the design, manufacture, installation and use of a new laboratory or in the refitting of an old laboratory</p>	<p>Scope: This European Standard gives recommendations for the installation and design of laboratory benches, storage units and services and their connections and fittings. The recommendations may be used by all parties involved in the design, manufacture, installation and use of a new laboratory or in the refitting of an old laboratory</p>
---	---

ICS 71.040.10

Võtmesõnad:

ICS 71.040.10

English version

Laboratory furniture - Recommendations for design and installation

Mobilier de laboratoire - Recommandations de conception
et d'installation

Laboreinrichtungen - Empfehlungen für Anordnung und
Montage

This European Standard was approved by CEN on 2 January 2003.

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.

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 Management Centre has the same status as the official versions.

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



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

Management Centre: rue de Stassart, 36 B-1050 Brussels

Contents

page

Foreword.....	3
1 Scope	4
2 Normative references	4
3 Storage and handling	4
4 Laboratory conditions for installation	4
5 Fixing floor- and wall-mounted furniture.....	5
6 Placing mobile and relocatable furniture	5
7 Height adjustable furniture	5
8 Services distribution zone in furniture	5
9 Services input.....	6
10 Installing services.....	7
11 Service outlets.....	7
12 User manual.....	10
13 Space needs and dimensions.....	11
Bibliography	14

Foreword

This document (EN 14056:2003) has been prepared by Technical Committee CEN/TC 332 "Laboratory equipment", the secretariat of which is held by DIN.

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 October 2003, and conflicting national standards shall be withdrawn at the latest by October 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 European Standard gives recommendations for the installation and design of laboratory benches, storage units and services and their connections and fittings. The recommendations may be used by all parties involved in the design, manufacture, installation and use of a new laboratory or in the refitting of an old laboratory.

NOTE 1. Attention is drawn to national regulations in respect of electricity, water and gas supply.

NOTE 2. Attention is drawn to building regulations and requirements, e.g. for floor loading.

NOTE 3. In the use of laboratory equipment and furniture, risk assessment and appropriate precautions are the responsibility of the organization running the laboratory and the laboratory user.

NOTE 4. Attention is drawn to any national regulations in respect of transfer of liability during the building and installation of laboratories.

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 12469, *Biotechnology — Performance criteria for microbiological safety cabinets*.

EN 13150, *Workbenches for laboratories — Dimensions, safety requirements and test methods*. EN 61010-1, *Safety requirements for electrical equipment for measurement, control, and laboratory use — Part 1: General requirements (IEC 61010-1:2001)*. EN 14175-2, *Fume cupboards — Part 2: Safety and performance requirements*.

3 Storage and handling

Prior to installation, furniture should be stored in a secure space and steps should be taken to minimise the risk of damage or deterioration. Care should be taken in protecting furniture stored or installed in the laboratory before and during decoration and fitting out of the laboratory. Information given by the manufacturer should be followed.

The adequacy of access to the laboratory and any temporary storage space should be checked. In difficult cases, scaffolded access through windows may be necessary. Particular attention should be paid to the following:

- a) door dimensions;
- b) stairways and landings;
- c) elevator load and dimensions;
- d) corridor dimensions, changes of corridor direction and potential obstructions.

Information should be exchanged between the furniture supplier and the furniture installer about the space needed for moving the furniture into the laboratory.

4 Laboratory conditions for installation

The furniture should not be installed if the air temperature or relative humidity in the laboratory to receive it is significantly different from that of its storage space.