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Laboratory furniture - Recommendations for design and installation - Part 1: General

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 14056-1:2025 sisaldab Euroopa standardi EN 14056-1:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 05.11.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 14056-1:2025 consists of the English text of the European standard EN 14056-1:2025.</p> <p>This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.</p> <p>Date of Availability of the European standard is 05.11.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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EUROPEAN STANDARD

EN 14056-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

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English Version

Laboratory furniture - Recommendations for design and installation - Part 1: General

Mobilier de laboratoire - Recommandations de conception et d'installation - Partie 1 : Généralités

Laboreinrichtungen - Empfehlungen für Anordnung und Montage - Teil 1: Allgemeines

This European Standard was approved by CEN on 25 September 2025.

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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.

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

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

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European foreword

This document (EN 14056-1:2025) 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 May 2026, and conflicting national standards shall be withdrawn at the latest by May 2026.

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 14056:2003.

This document includes the following significant technical changes with respect to EN 14056:2003:

- fundamental revision of the document to give recommendations for design and installation, moving requirements and recommendations on separate parts of laboratory benches in future further parts of the standard series.

Any feedback and questions on this document should be directed to the users’ national standards body. A complete listing of these bodies can be found on the CEN website.

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, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and the United Kingdom.

Introduction

The revision of EN 14056:2003 is the first step towards the establishment of an EN 14056 standard series. This document is now Part 1 of this series, describing various combinations and general requirements, while further details regarding the single parts will be provided within the following parts:

- Part 2: Table frames;
- Part 3: Worktops;
- Part 4: Storage units;
- Part 5: Services distribution carriers;
- Part 6: Services supply (not final yet, will possibly be integrated into part 5).

NOTE National regulations can apply in the design and environment of a workplace.

1 Scope

This document is applicable to biology, chemistry and physics laboratories where research, preparative, analytical, process activities take place and which can involve work with hazardous substances, including higher education (college and university teaching and post-graduate research).

This document does not cover the requirements of schools, i.e. precollege/pre-university (refer to EN 13150), or highly specialist laboratories which need very specific, bespoke solutions to enable them to function.

This document specifies requirements for installation and design of laboratory benches, associated storage units, and for the provision and connection of services integral or delivered to the laboratory benches. This document gives guidelines for all parties involved in the planning, design, manufacture, installation, testing of a new laboratory or in the refurbishment of an existing laboratory.

For safety storage cabinets for flammable liquids EN 14470-1 and for pressurized gas cylinders EN 14470-2 applies.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 13792, *Colour coding of taps and valves for use in laboratories*

EN 60529, *Degrees of protection provided by enclosures (IP code) (IEC 60529)*

3 Terms and definitions

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

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp/>
- IEC Electropedia: available at <https://www.electropedia.org/>

3.1

laboratory bench

assembly of individual components, combined to create a facility within a laboratory to enable laboratory work

Note 1 to entry: A laboratory bench may include but is not limited to a worktop, leg frame support structure, shelving, storage units, worktop-mounted service outlets (gases, water, electricity, IT) a services spine and services provision. Services may also be delivered via a separate overhead delivery system.

Note 2 to entry: A laboratory bench may be fixed to the building structure (e.g. wall or floor) or may be free-standing (not fixed to the building structure).

3.1.1

total depth

d_1

horizontal distance between front edge and rear edge of the laboratory bench (perpendicular to the length w_1) including possible areas for services supply and distribution

Note 1 to entry: The total depth is applicable for single and double-sided assemblies.