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Emergency safety showers - Part 1: Plumbed-in body showers for laboratories

EESTI STANDARDI EESSÕNA

NATIONAL FOREWORD

<p>See Eesti standard EVS-EN 15154-1:2025 sisaldab Euroopa standardi EN 15154-1:2025 ingliskeelset teksti.</p> <p>Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.</p> <p>Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 24.12.2025.</p> <p>Standard on kättesaadav Eesti Standardimis- ja Akrediteerimiskeskusest.</p>	<p>This Estonian standard EVS-EN 15154-1:2025 consists of the English text of the European standard EN 15154-1:2025.</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 24.12.2025.</p> <p>The standard is available from the Estonian Centre for Standardisation and Accreditation.</p>
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ICS 71.040.10

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EUROPEAN STANDARD

EN 15154-1

NORME EUROPÉENNE

EUROPÄISCHE NORM

December 2025

ICS 71.040.10

Supersedes EN 15154-1:2006

English Version

Emergency safety showers - Part 1: Plumbed-in body showers for laboratories

Douches de sécurité - Partie 1: Douches pour le corps raccordées au réseau d'eau utilisées en laboratoire

Sicherheitsnotduschen - Teil 1: Körperduschen mit Wasseranschluss für Laboratorien

This European Standard was approved by CEN on 24 November 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

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European foreword

This document (EN 15154-1:2025) 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 June 2026 and conflicting national standards shall be withdrawn at the latest by June 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 15154-1:2006.

EN 15154-1:2025 includes the following significant technical changes with respect to EN 15154-1:2006:

- harmonization with EN 15154-5;
- addition of informative Annex B “Recommendations regarding environmental impact”.

This document, EN 15154-1, is part of a series of standards on emergency safety showers (see Table 1).

Table 1 — Subject areas covered under the EN 15154 series of standards

Part of EN 15154	Type	Laboratories	Sites other than laboratories	Non plumbed-in	Plumbed-in
1	Body shower	X ^c	-	-	X
2	Eyewash unit	X	X	-	X
3	Body shower	X ^a	X ^a	X ^a	-
4	Eyewash unit	X	X	X	-
5	Body shower	-	X ^c	X ^b	X
6	Body shower	-	X	-	X
<p>^a Non plumbed-in body showers affected by EN 15154-3 are fixed, transportable or portable.</p> <p>^b Non plumbed-in body showers affected by EN 15154-5 are tank showers or trailer-mounted.</p> <p>^c In possible combination with eyewash units.</p>					

NOTE Attention is drawn to national regulations in some European countries, e.g. Germany, which can request to connect emergency safety showers to a water supply.

A list of all parts in a series can be found on the CEN website: www.cencenelec.eu.

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 organizations 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

Plumbed-in body showers used in laboratories are designed and intended to be installed in close range of persons working in a potentially hazardous area exposed to the risks of burning/burns and/or hazardous chemical substances getting splashed onto all or part of the body, despite other risk mitigation measures.

The main purpose of these devices is to deliver immediately a flushing fluid in a volume sufficient to extinguish flames and/or to flush the body following exposure to injurious substances or heat.

Once this is accomplished, the injured person can proceed to medical care.

Emergency safety showers are primarily emergency facilities and not intended for use for personal cleaning or personal hygiene.

Annex A provides recommendations on general settings for shower installations and Annex B provides recommendations regarding environmental impact.

1 Scope

This document is a product specification, giving performance requirements for emergency safety body showers connected to the water supply. It is applicable to plumbed-in body showers only, located in laboratory facilities.

Requirements are given in respect of the performance, installation, adjustment and marking of the showers as well as installation, operation and maintenance instructions to be given by the manufacturer.

NOTE Attention is drawn to national regulations which might apply in respect of the installation and use of emergency safety showers.

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 15154-2, *Emergency safety showers — Part 2: Plumbed-in eyewash units*

EN ISO 21420, *Protective gloves — General requirements and test methods (ISO 21420)*

ISO 3864-1, *Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs and safety markings*

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

emergency safety shower

device specially designed and intended to deliver a flushing fluid to extinguish flames and to sufficiently wash away contaminants or to dilute them, rendering them harmless

3.2

plumbed-in emergency safety body shower

emergency safety shower that is permanently connected to a continuous water supply and designed to deliver water sufficient to flush the whole body

3.3

safety combination shower

emergency safety shower equipped with an *emergency safety eyewash unit* (3.5) and/or an *additional hand-held shower* (3.4)

3.4

additional hand-held shower

manually-operated spray head fitted to the end of a flexible hose and that can be hand-directed to spray-wash any part of the body