Emergency safety showers - Part 6: Plumbed-in multiple nozzle body showers for sites other than laboratories



#### EESTI STANDARDI EESSÕNA

#### NATIONAL FOREWORD

See Eesti standard EVS-EN 15154-6:2019 sisaldab Euroopa standardi EN 15154-6:2019 ingliskeelset teksti.	This Estonian standard EVS-EN 15154-6:2019 consists of the English text of the European standard EN 15154-6:2019.		
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation.		
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 04.09.2019.	Date of Availability of the European standard is 04.09.2019.		
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## EUROPEAN STANDARD

NORME EUROPÉENNE

### EN 15154-6

EUROPÄISCHE NORM

September 2019

ICS 71.040.10

#### **English Version**

# Emergency safety showers - Part 6: Plumbed-in multiple nozzle body showers for sites other than laboratories

Douches de sécurité - Partie 6: Douches multijets pour le corps raccordées au réseau d'eau utilisées ailleurs que dans les laboratoires Sicherheitsnotduschen - Teil 6: Körperduschen mit mehreren Düsen und Wasseranschluss für andere Standorte als Laboratorien

This European Standard was approved by CEN on 7 July 2019.

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 CEN-CENELEC 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 CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of 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, Turkey and United Kingdom.



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 15154-6:2019) 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 March 2020, and conflicting national standards shall be withdrawn at the latest by March 2020.

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.

EN 15154 consists of the following parts under the general title *Emergency safety showers* 

- Part 1: Plumbed-in body showers for laboratories
- Part 2: Plumbed-in eye wash units
- Part 3: Non-plumbed-in body showers
- Part 4: Non-plumbed-in eyewash units
- Part 5: Water overhead body showers for sites other than laboratories
- Part 6: Plumbed-in multiple nozzle body showers for sites other than laboratories

This document, EN 15154-6, is part of a series of standards on emergency safety showers dealing with plumbed-in multiple nozzle body showers, used on sites other than laboratories (see Table 1).

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

Part of EN 15154	Туре	Laboratories	Sites other than Laboratories	Non plumbed- in	Plumbed-in
1	Body shower	ХС	- ?		Х
2	Eye-wash unit	X	X	Ø	X
3	Body shower	χа	χа	Xa	-
4	Eyewash unit	X	Х	x 2	-
5	Body shower	-	Xc	Xp	X
6	Body shower	-	Х	-	X

- a Non plumbed-in body showers affected by EN 15154-3 are fixed, transportable or portable.
- b Non plumbed-in body showers affected by EN 15154-5 are tank showers or Trailer-mounted.
- In possible combination with eye wash units.

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, en.
Auxem.
Arbia, Slo. 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, Turkey and the United Kingdom.

#### Introduction

Emergency safety body showers for sites other than laboratories are designed and intended to be installed in close range of persons working in a potentially hazardous area exposed to the risk of burns and/or hazardous chemical substances getting splashed onto all or part of the body.

of t, and/or mplished, to 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.

#### 1 Scope

This document is a product specification, giving performance requirements for plumbed-in multiple nozzle emergency safety body showers which are permanently connected to a water supply and installed on industrial and logistic sites.

Emergency safety body showers using fluid other than water are not considered in this document.

This document also specifies requirements in respect of installation, adjustment and marking of the showers as well as operation and maintenance instructions to be given by the manufacturer.

NOTE 1 Plumbed-in emergency safety body showers designed for laboratory facilities are dealt with in EN 15154-1.

NOTE 2 Water overhead body showers for sites other than laboratories are dealt with in EN 15154-5.

NOTE 3 Attention is drawn to national regulations which can 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 420, Protective gloves — General requirements and test methods

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 terminological databases for use in standardization at the following addresses:

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

#### 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

[SOURCE: EN 15154-1:2006, 3.1]

#### 3.2

#### multiple nozzle emergency safety body shower

emergency safety body shower with multiple spray heads delivering water from head to feet

#### 4 Performance

#### 4.1 Flow rate

The water supplied by the shower shall be of constant flow pressure and flow rate as specified by the manufacturer.

The flow rate shall be at least 60 L/min.

The flow pressure shall be specified and measured where the shower is connected to the water system.