SLOVENSKI STANDARD
SIST EN 15154-5:2020

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Varnostne prhe za prvo pomoč - 5. del: Nadglavne vodne prhe za spiranje telesa za uporabo zunaj laboratorijev

Emergency safety showers - Part 5: Water overhead body showers for sites other than laboratories

Sicherheitsnotduschen - Teil 5: Körperduschen mit Überkopfbrause und Wasseranschluss für andere Standorte als Laboratorien

Douches de sécurité - Partie 5: Douches à eau verticales pour le corps utilisées ailleurs que dans les laboratoires

Ta slovenski standard je istoveten z: **EN 15154-5:2019**

ICS:

11.160	Prva pomoč	First aid
71.040.10	Kemijski laboratoriji. Laboratorijska oprema	Chemical laboratories. Laboratory equipment

SIST EN 15154-5:2020 **en,fr,de**

EUROPEAN STANDARD

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EN 15154-5

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English Version

Emergency safety showers - Part 5: Water overhead body showers for sites other than laboratories

Douches de sécurité - Partie 5: Douches à eau verticales pour le corps utilisées ailleurs que dans les laboratoires

Sicherheitsnotduschen - Teil 5: Körperduschen über Kopf mit Wasser für andere Standorte als Laboratorien

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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 15154-5:2019) 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of an identical text or by endorsement, at the latest by April 2020, and conflicting national standards shall be withdrawn at the latest by April 2020.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 15154-5, is part of a series of standards on emergency safety showers, which it rounds off by dealing with body showers and combinations with eye showers and hand-held 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	Type	Laboratories	Sites – other than Laboratories	Non plumbed-in	Plumbed-in
1	Body shower	Xc	-	-	X
2	Eye-wash unit	X	X	-	X
3	Body shower	Xa	Xa	Xa	-
4	Eyewash unit	X	X	X	-
5	Body shower	-	Xc	Xb	X
6	Body shower	-	X	-	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.

c In possible combination with eye wash units.

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 where available.

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, 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 risks of burning/burns and/or hazardous chemical substances getting splashed onto all or part of the body.

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 water overhead emergency safety body showers installed on industrial and logistic sites, (in combination with safety eyewashes and hand-held showers as well),

a) which are permanently connected to a water supply; or

b) which are equipped with a store tank and optionally connected to an uninterrupted or a temporary water supply.

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 body showers designed for laboratory facilities are dealt with in EN 15154-1.

NOTE 2 Water multiple nozzle body showers for sites other than laboratories are dealt with in EN 15154-6[1].

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*

EN 1991 (all parts), *Eurocodes 1 — Actions on structures*

EN 1991-1-3, *Eurocode 1 — Actions on structures — Part 1-3: General actions — Snow loads*

EN 1991-1-4, *Eurocode 1: Actions on structures — Part 1-4: General actions — Wind actions*

EN 15154-1, *Emergency safety showers — Part 1: Plumbed-in body showers for laboratories*

EN 15154-2, *Emergency safety showers — Part 2: Plumbed-in eye wash units*

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 http://www.electropedia.org/

— ISO Online browsing platform: available at https://www.iso.org/obp

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

[1] Under preparation. Stage at the time of the publication: prEN 15154-6

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

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 wash the whole body

3.3
body shower with storage tank
tank shower
emergency safety shower that is self-sufficient and filled by a temporary water supply or which can be optionally connected to a continuous water supply

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

3.5
safety combination shower
emergency safety shower equipped with an emergency safety eye wash unit as defined in 3.7 and/or an additional hand-held shower

3.6
overhead body shower
emergency safety shower delivering water down over the head via one or more spray heads

3.7
emergency safety eye wash unit
device specially designed and intended to deliver a flushing fluid to irrigate and flush the eyes and to sufficiently wash away contaminants or to dilute them, rendering them harmless

[SOURCE: EN 15154-2:2006, 3.1]

4 Performance

4.1 Classification

Body showers for production and logistic sites shall comply with one of the three classes given in Table 2. The overhead volume flowrate defines the body shower classification.

Table 2 — Classification

Class	**Volume flow rate** L/min
I	30 to 60
II	> 60 to 100
III	> 100