



SLOVENSKI STANDARD
SIST EN 16750:2017/oprA1:2019
01-november-2019

Vgrajeni gasilni sistemi - Sistemi z zmanjšano koncentracijo kisika - Projektiranje, vgradnja, načrtovanje in vzdrževanje

Fixed firefighting systems - Oxygen reduction systems - Design, installation, planning and maintenance

Ortsfeste Löschanlagen - Sauerstoffreduktionsanlagen - Auslegung, Einbau, Planung und Instandhaltung

Installations fixes de lutte contre l'incendie - Systèmes d'appauvrissement en oxygène - Conception, installation, planification et maintenance

Ta slovenski standard je istoveten z: EN 16750:2017/prA1

ICS:

13.220.10 Gašenje požara Fire-fighting

SIST EN 16750:2017/oprA1:2019 **en,fr,de**

iTeh STANDARD PREVIEW
(Standards.iteh.ai)
Full standard:
<https://standards.iteh.ai/catalog/standards/sist/8b1737a8-52b6-4088-8c4a-fec0c7e8e728/sist-en-16750-2017-kfpral-2020>

EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
EN 16750:2017
prA1

August 2019

ICS 13.220.20

English Version

**Fixed firefighting systems - Oxygen reduction systems -
Design, installation, planning and maintenance**

Installations fixes de lutte contre l'incendie - Systèmes
d'appauvrissement en oxygène - Conception,
installation, planification et maintenance

Ortsfeste Löschanlagen - Sauerstoffreduktionsanlagen -
Auslegung, Einbau, Planung und Instandhaltung

This draft amendment is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 191.

This draft amendment A1, if approved, will modify the European Standard EN 16750:2017. If this draft becomes an amendment, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for inclusion of this amendment into the relevant national standard without any alteration.

This draft amendment was established by CEN 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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Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

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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

EN 16750:2017/prA1:2019 (E)

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European foreword

This document (EN 16750:2017/prA1:2019) has been prepared by Technical Committee CEN/TC 191 "Fixed Firefighting System", the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

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EN 16750:2017/prA1:2019 (E)**1 Modification to 5.7.3, "Oxygen reduced air"**

Replace the first paragraph with the following:

"The oxygen reduced air shall be free of dangerous impurities and have a minimum concentration of nitrogen that is necessary to ensure that the necessary injected volume to reduce the oxygen concentration from 0,5 Vol.% above the target concentration down to the target concentration does not exceed 20 % of the protected room volume. The pressure and temperature in the protected room needs to be considered.

The maximum oxygen concentration is to be calculated as follows:

$$\ln \frac{\left(c_{O_2,Target} + 0,5 \% \right) - c_{O_2,Residual}}{c_{O_2,Target} - c_{O_2,Residual}} > 20 \%$$

$$c_{O_2,Residual} < c_{O_2,Target} + \frac{0,5 \%}{1 - e^{20 \%}}$$

$$c_{O_2,Residual} < c_{O_2,Target} - 2,3\%$$

where

$c_{O_2,Target}$ target oxygen concentration;

$c_{O_2,Residual}$ residual oxygen concentration.

2 Modification to B.5.1, "Structural and technical measures"

Replace Figure B.1 with the following:

"

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Oxygen-reduced atmosphere
Access by authorized personnel only

Do not enter when alarm sounds

**Figure B.1 — Example sign at the entrance to an oxygen-reduced area (ISO 7010-W041
“Warning; Asphyxiating atmosphere”)**

Replace Figure B.2 with the following:



Do not enter!
Lack of oxygen!

Oxygen-reduced atmosphere
Access by authorized personnel only
Do not enter when alarm sounds

**Figure B.2 — Example sign at an entrance to an oxygen-reduced area in the case of alarm
(ISO 7010-P001 “General prohibition sign” and ISO 7010-W041 “Warning; Asphyxiating
atmosphere”).**