

BSI Standards Publication

Equipment for commercial kitchens - Components for ventilation in commercial kitchens

Part 7: Installation and use of fixed fire suppression systems



BS EN 16282-7:2017 BRITISH STANDARD

National foreword

This British Standard is the UK implementation of EN 16282-7:2017.

The UK participation in its preparation was entrusted to Technical Committee RHE/2/-/1, Ventilation of commercial kitchens.

A list of organizations represented on this committee can be obtained on request to its secretary.

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

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Compliance with a British Standard cannot confer immunity from legal obligations.

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Equipment for commercial kitchens - Components for ventilation in commercial kitchens - Part 7: Installation and use of fixed fire suppression systems

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This European Standard was approved by CEN on 11 May 2017.

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CEN-CENELEC Management Centre: Avenue Marnix 17, B-1000 Brussels

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European foreword

This document (EN 16282-7:2017) has been prepared by Technical Committee CEN/TC 156 "Ventilation for buildings", the secretariat of which is held by BSI.

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of an identical text or by endorsement, at the latest by January 2018, and conflicting national standards shall be withdrawn at the latest by January 2018.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN [and/or CENELEC] shall not be held responsible for identifying any or all such patent rights.

The activities of CEN/TC 156/WG 14, cover the calculation of the air volume and the design and testing of major components for ventilation equipment and systems for commercial kitchens.

This document comprises guidelines for fixed fire suppression systems to when installed in order to secure a best possible protection for personnel and property.

The structure of the standard series is as follows:

EN 16282 Equipment for commercial kitchens - Components for ventilation in commercial kitchens

- Part 1: General requirements including calculation method
- Part 2: Kitchen ventilation hoods; Design and safety requirements
- Part 3: Kitchen ventilation ceilings; Design and safety requirements
- Part 4: Air inlets and outlets; Design and safety requirements
- Part 5: Air duct; Design and dimensioning
- Part 6: Aerosol separators; Design and safety requirements
- Part 7: Installation and use of fixed fire suppression systems
- Part 8: Installations for treatment of cooking fumes; Requirements and testing

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

1 Scope

This European Standard specifies requirements and gives recommendations for the design, installation, testing, maintenance and safety of kitchen fire suppression systems in buildings.

This European Standard is applicable to ventilation systems in commercial kitchens, associated areas and other installations processing foodstuffs intended for commercial use. Kitchens and associated areas are special rooms in which meals are prepared, where tableware and equipment is washed, cleaned, food is stored and food waste areas.

This European Standard is applicable to fire suppression systems except those used in domestic kitchens or industrial food processing facilities.

Unless otherwise specified, the requirements of this standard should be checked by way of inspection and/or measurement.

NOTE Please note the possible existence of additional or alternative local national regulations on installation, appliance requirements and inspection, maintenance and operation.

2 Normative references

The following documents, in whole or in part, are normatively referenced in this document and are indispensable for its application. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

EN 10088-1, Stainless steels - Part 1: List of stainless steels

3 Terms and definitions

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

3.1

fire suppression system

fixed system, which automatically detects and extinguishes fires

3.2

fire detection system

installation which detects fire and activates the fire suppression system

3.3

cylinders

vessels designed to contain the fire suppression media

3.4

nozzle

device used to discharge the fire suppression media

3.5

service

all measures required to keep the system operational and to identify the system's condition

3.6

testing

all measures required to inspect the present status of the system