



Institut für Brandschutztechnik  
und Sicherheitsforschung

Version 6

# Certification programme<sup>©</sup>

for fire resisting and/or smoke control doorsets and openable windows in accordance with EN 16034



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## Foreword

This product-specific certification programme in conjunction with the general certification programme forms the main basis of certification of fire resisting and/or smoke control doorsets and openable windows by the Certification Body IBS in accordance with EN 16034. If all standard requirements and the requirements of the general product-specific certification programme have been met, the applicant will receive a Certificate of Constancy of Performance from the certification body which will form the basis of issue and affixing of the CE mark on doorsets and openable windows.

## Contents

<b>1. Field of application</b> .....	<b>3</b>
<b>2. Normative references</b> .....	<b>4</b>
<b>3. Product requirements</b> .....	<b>5</b>
<b>4. Certification / Surveillance</b> .....	<b>5</b>
4.1. General .....	5
4.2. Determination of product type / initial test (including sampling) .....	6
4.3. Factory production control .....	8
4.4. Evaluation .....	8
4.5. Initial inspection of factory plant and of FPC .....	9
4.6. Certificate documentation (Certificate of Constancy of Performance) .....	9
4.7. Surveillance .....	10



## 1. Field of application

This product-specific certification programme shall be valid for fire resisting and/or smoke control doorsets and openable windows.

In accordance with EN 16034, the following shall be covered:

- industrial, commercial and/or garage doorsets, rolling shutters or operable fabric curtains intended for the installation in areas in the reach of persons and for which the main intended uses are giving safe access for goods and vehicles accompanied or driven by persons, or
- rolling shutters or operable fabric curtains used in retail premises which are mainly provided for the access of persons rather than vehicles or goods, or
- pedestrian doorsets and/or openable windows and/or inspection hatches which are hinged or sliding, intended for the installation in areas in the reach of persons, and for which the main intended uses are giving safe access for persons
- and which are operated manually or power-operated, and
- which open and close automatically as a normal mode of operation, or
- which are normally held open but self-closing in case of fire or smoke, or
- which are normally maintained locked in a closed position (e. g. service access/inspection doorsets),
- and completed:
  - with building hardware,
  - with or without any side panel(s), flush over panel(s) and/or transom panel(s) (with or without glazing) and contained within a single perimeter frame for inclusion in a single aperture,
  - with or without any vision panel(s) in the door leaf or leave(s),
  - with or without any seals (e.g. for smoke control, fire resistance, draught, acoustic or weather characteristics).

Appropriately applied pedestrian doorsets, industrial, commercial, garage doors and openable windows with fire resisting and/or smoke control characteristics are intended to be used for ensuring smoke and/or fire compartmentation and/or escape routes in buildings.

This certification programme specifies the requirements for fire resisting and/or smoke control doorsets and openable windows and the general certification programme specifies the certification procedure.

The Official Journal of the European Union of 28 October 2016 (OJEU C 398/55) establishes that the product standard EN 16034 shall only apply in conjunction with other product standards (e.g. windows and external pedestrian doorsets as per EN 14351-1 or industrial, commercial and garage doors and gates as per EN 13241).



## 2. Normative references

The following documents form the basis for certification:

- Construction Products Regulation (EU No. 305/2011)
- EN 16034:2014 - Pedestrian doorsets, industrial, commercial, garage doors and openable windows - Product standard, performance characteristics -
  - Fire resisting and/or smoke control characteristics
- The requirements set down in the product standards EN 14351-1, prEN 14351-2, EN 13241-1\* and EN 16361\* may be of relevance to EN 16034.
- EN 1363-1 - Fire resistance tests – Part 1: General requirements
- EN 1634-1 - Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware, Part 1: Fire resistance test for doors and shutter assemblies and openable windows
- EN 1634-3 - Fire resistance tests for door and shutter assemblies
  - Part 3: Smoke control doors and shutters
- European standards applying to building hardware (refer to table 2 of EN 16034:2014)
- EN 14637\* - Building hardware - Electrically controlled hold-open systems for
  - fire/smoke door assemblies
- EN 1191 - Windows and doors - Resistance to repeated opening and closing - Test method
- EN 12605 - Industrial, commercial and garage doors and gates - Mechanical aspects - Test methods
- EN 13501-2 - Fire classification of construction products and building elements –
  - Part 2: Classification using data from fire resistance tests, excluding ventilation services"
- EN 15269-1/2/3/5/(6)/7/10/(11)/(20), EN 15725; Standard series for extended application
- Working Document von SH02, Sampling for products with fire performance characteristics at AVCP 1; NB-CPR/SH02-13/558
- Position Paper von AG, Sampling in AVCP systems 1 und 1+, NB-CPR/15/639r1
- This certification programme for doorsets and openable windows
- Certification and monitoring contract between the customer and IBS Certification Body
- Scale of fees of IBS Certification Body

\*the specified standard is not included in the scope of accreditation of the notified body.

For dated references, only the cited version shall apply.

For undated references, the latest edition of the referenced document applies.

### 3. Product requirements

Fire resisting and/or smoke control doorsets and openable windows are intended to be used for ensuring smoke and/or fire compartmentation and/or escape routes in and around buildings.

The requirements below must be fulfilled as defined in further detail in EN 16034.

- Resistance to fire
  - Fire integrity E
  - Thermal insulation I
  - Radiation W
- Smoke control S
- Ability to release (release of the hold-open device to ensure reliable closing)
- Self-closing C (only for self-closing fire resistant and/or smoke control doorsets and/or openable windows)
- Durability of the ability to release
- Durability of self-closing (only for self-closing fire resistant and/or smoke control doorsets and/or openable windows)

### 4. Certification / Surveillance

#### 4.1. General

For the assessment and verification of constancy of performance of fire resisting and/or smoke control doorsets and openable windows, AVCP System 1 is applicable. As indicated in the table below, the following is required for doorsets and openable windows: determination of product type (type testing/initial test), initial inspection of factory plant and of FPC as well as a continuous surveillance, assessment and evaluation of FPC performed by a notified product certification body.

ASSESSMENT AND VERIFICATION OF CONSTANCY OF PERFORMANCE according to CPR Appendix V				
System	Tasks for the manufacturer	Tasks for notified product certification body	Type of certification by product certification body	Documentation by manufacturer
1	<ul style="list-style-type: none"> <li>• Factory production control (FPC)</li> <li>• Further testing of samples taken at factory according to the prescribed test plan</li> </ul>	Certification of building product based on: <ul style="list-style-type: none"> <li>• Determination of Product type (type testing/initial testing)</li> <li>• Initial inspection of manufacturer and FPC</li> <li>• Continuous surveillance, assessment and evaluation of FPC</li> </ul>	<ul style="list-style-type: none"> <li>• Certificate of Constancy of Performance</li> </ul>	<ul style="list-style-type: none"> <li>• Technical documentation</li> <li>• Declaration of Performance</li> <li>• CE marking</li> </ul>



## 4.2. Determination of product type / initial test (including sampling)

The initial tests of the fire resisting and/or smoke control characteristics, self-closing function and durability as foreseen by EN 16034 can be carried out by the IBS Certification Body.

### Division into product groups

In advance, the products are grouped into families for the following characteristics:

- Mandatory properties
- Related performance characteristics
- Construction type and materials

### Sampling

The execution of tests of the construction product according to AVCP-System 1 requires a prior sampling (accompaniment of the production process) of the test sample in accordance with the Construction Product Regulation Annex V. Sampling is carried out based on the default documents NB-CPR/SH02-13/558 and NB-CPR/15/639r1.

The rules in respect to the representative sampling of test specimens are set out in the product standards EN 1363-1, EN 1634-1 and EN 1634-3 and in the harmonised standard EN 16034.

There is a basic distinction between the following sampling types:

- Available stock sampling
- Ordered products sampling
- Prototype sampling



### Type tests

- Resistance to fire test as per EN 1363-1
  - Fire integrity E
  - Thermal insulation I (I1 and/or I2)
  - Radiation W

Documentation: Test report(s) on the resistance to fire according to EN 1363-1 and EN 1634-1

EXAP Report(s) according to EN 15269-1/2/3/5/(6)/7/10/(11)/(20), EN 15725

Classification report(s) as per EN 13501-2

- Smoke control test as per EN 1634-3  
Smoke leakage S

Documentation: Test report(s) on smoke leakage as per EN 1363-1

EXAP reports as per EN 15269-1/20

Classification report(s) as per EN 13501-2

- Ability to release as per EN 16034

Documentation: Test report on the ability to release as per EN 1363-1

- Self-closing as per EN 16034, A.2.2

Documentation: Classification report(s) as per EN 13501-2

- Durability of the ability to release as per EN 16034

(The durability of the ability to release is satisfied if the electrically powered hold open device complies with EN 1155 or EN 14637.)

- Cycling testing as per EN 1191 and EN 12605

Documentation: Test report(s) as per EN 1191 and EN 12605

If modifications or changes are to be made to a certified product that could affect any of the product characteristics declared according to the underlying standard requirements, then the product shall be subject to supplementary tests. The type and scope of supplementary testing shall be determined on a case-by-case basis by the certification body.



#### 4.2.1. **Simplified procedure for licensee** (Supplement to the simplified procedure according to the certification programme general)

If the manufacturer is also the licensee, it shall be possible in accordance with Article 36 of the Construction Products Regulation to replace the type testing for the determination of the product type of each fire resisting and/or smoke control doorset and openable window by adequate technical documentation which is verified at the initial inspection by the certification body.

Adequate technical documentation for fire resisting and/or smoke control doorsets and openable windows comprises the documents below, yet the licensee may use the licensor's results of the type testing in accordance with the required licence agreement.

- Test, EXAP and classification report(s) on the type testing / initial test according to EN 16034
- Detailed product data (description, drawings, materials lists etc.)
- Processing rules (product catalogue) of the construction product to be certified
- Installation and operating instructions
- Maintenance rules
- Licence agreement between licensor and licensee about the product to be certified
- Licensor's certificates of training

#### 4.3. **Factory production control**

The manufacturer is responsible for the implementation of factory production control (FPC) in compliance with section 6.3 of EN 16034 and for drawing-up and keeping documents safeguarding the constancy of performance of the applied fire resistant and/or smoke control doorsets and openable windows.

#### 4.4. **Evaluation**

The resuming evaluation of supporting documents as required by the provisions of EN 16034 shall be performed by IBS' experts in accordance with the evaluation plan for fire resisting and/or smoke control doorsets and openable windows.



#### 4.5. Initial inspection of factory plant and of FPC

During the initial inspection as per section 6.3.4 of EN 16034, the customer must verify that the factory production control is implemented, documented, in place and maintained in accordance with the requirements set out in EN 16034.

The assessment hereof shall be undertaken based on the inspection results according to the following criteria:

Assessment	Admissible deviation	Suspension of certificate	Limitation
0 No deviation Conformity given	--	--	--
1 Minor deviation Conformity still given	7	10 or	8 or
2 Moderate deviation Conformity only just given	2	5 or	3 or
3 Major deviation Conformity no longer given	0	1	1

The table defines the admissible deviations affecting the issue of a Certificate of Constancy of Performance and the deviations affecting if a certificate shall be restricted or suspended.

#### 4.6. Certificate documentation (Certificate of Constancy of Performance)

The certification body shall issue a duly signed certificate of constancy of performance to the customer after the decision to grant a certificate of the external fire resisting and/or smoke control door has been made.

As regards the assessment and verification of the constancy of performance of fire resisting and/or smoke control doorsets and openable windows, reference is made to Appendix ZA of EN 16034.

Manufacturers holding a valid certificate of constancy of performance are entitled and obliged to make a declaration of performance and to affix the CE marking to their products in accordance with the CPR and Appendix ZA.3 of EN 16034.

The certificates issued are the property of IBS. The certificate of constancy of performance shall be valid for as long as the manufacturing conditions of fire resisting and/or smoke control doorsets and openable windows and the provisions of EN 16034 remain unaltered.



#### **4.7. Surveillance**

In compliance with section 6.3.5 of EN 16034, continuous surveillance of FPC and evaluation of the factory plant shall be carried out at least 1 x year by the inspectors of the certification body