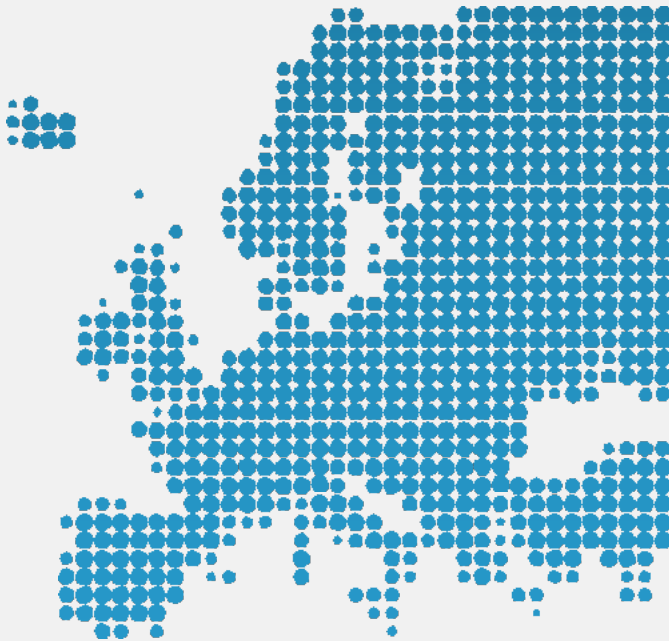


Introduction of EN 16034

European harmonized product standard for
pedestrian and industrial doorsets and
openable windows with fire resisting and
smoke control characteristics

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Contents

- 1 | Introduction
- 2 | Product Standard EN 16034
- 3 | CE marketing and Co-existence period
- 4 | Relevant facts
- 5 | Tasks of manufacturer and notified Body
- 6 | Declaration of Performance

1. Introduction

EN 16034 defines the fire resisting and/or smoke control characteristics for pedestrian, industrial, commercial, garage doorsets and openable windows (here after referred to as “product”).

According to the European Construction Products Regulation (EU) No. 305/2011 (valid since July 1st, 2013) all construction products, which are placed on the market with the intention to become permanent parts of a construction, must enable the construction works to achieve the following basic requirements:

- mechanical resistance and stability
- safety in case of fire
- hygiene, health and environment
- safety and accessibility in use
- protection against noise
- energy economy and heat retention
- sustainable use of natural resources

2. Product Standard EN 16034

EN 16034 is a harmonized European Product Standard (hEN) and was first cited in the Official Journal of the European Union (OJEU) on July 10th, 2015. A transition period of 3 years was set.

The new European harmonized Product Standard EN 16034 has been implemented on national level by national standardization bodies.

Any conflicting national standards and / or national regulations have to be withdrawn latest when the co-existence period ends.

The national editions of the standard receive the code of the national standardization body as prefix - for example DIN EN 16034 in Germany or UNI EN 16034 in Italy.

Note:

Harmonization in this context means unifying the requirements and test methods, the rules of declaration of product performance and the system of conformity assessment on an European level.

3. CE marking and Co-existence period

CE marking for products covered by EN 16034 is mandatory.

During the coexistence phase, manufacturers were able to use the European system (CE marking), provided that the relevant procedure was followed, or to continue using the national system. As already mentioned, a three-year coexistence phase was published in the Official Journal of the European Union. This period has now expired, meaning that EN 16034 must be applied in full.

Manufacturers shall mark their product with the CE label (CE = fr. Communauté Européenne ("European Community")) if covered by the product standard.

CE marking conform to EN 16034 declares the relevant characteristics for a fire resisting and/or smoke control doorset and openable window.



Products which are covered by EN 16034 must be CE marked when placed on the market. CE marking enables free trade within all Member States. This is a major change as affixing of CE marking under the provisions of the Construction Products Directive (CPD) was wrongly considered to be voluntary.

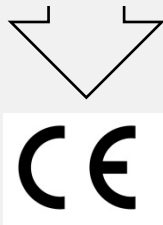
Products which are covered by EN 16034 must be CE marked when placed on the market. CE marking enables free trade within all Member States. This represents a significant change, as the affixing of the CE marking was, in accordance with the provisions of the former Construction Products Directive (CPD), erroneously regarded as voluntary.

- product certification, e.g.
 - initial type testing (ITT)
 - extension of the achieved results (EXAP)
 - classification report

- factory production control (FPC)

- traceability of the product

- certificate of constancy of performance



NANDO (New Approach Notified and Designated Organizations) Information System
Notification is an act whereby a Member State informs the Commission and the other Member States that a body, which fulfils the relevant requirements, has been designated to carry out conformity assessment according to a directive. Notification of Notified Bodies and their withdrawal are the responsibility of the notifying Member State.



<http://ec.europa.eu/enterprise/newapproach/nando/index.cfm>

4. Relevant facts

4.1. Relevant fire and smoke classifications

EN 13501-series specifies the procedure for classification of products according to the following performance characteristics:

E	Integrity
I	Insulation
W	Radiation
C	Self-closing
S	Smoke control

$EI_2 30-C1 S_a$

This classification will replace all current national type-approval and certification documents.

4.2. Extended field of application [EXAP]

The EXAP report according to EN 15269-series defines the permitted variations of products (e.g. extension of dimensions, interchangeability of materials, door hardware, constructive details, ...) from the tested specimens. The detailed rules for each appropriate material selection are defined in the relevant part of EN 15269-series.

Currently the following EXAPs are available or in preparation at the print date of the guideline:

Standard	Description
EN 15269-1	General requirements
EN 15269-2	Hinged and pivoted steel doorsets
EN 15269-3	Hinged and pivoted timber doorsets and ...
prEN 15269-4	Glass doors (project)
EN 15269-5	Glass doors with metal frames
prEN 15269-6	Sliding timber doors
EN 15269-7	Sliding steel doors
prEN 15269-8	Folding timber doors (project)
prEN 15269-9	Folding steel doors (project)
EN 15269-10	Steel rolling shutter
prEN 15269-11	Operable fabric curtains
EN 15269-20	Smoke control doors

4.3. Factory production control

The Factory Production Control (FPC) is an elementary part of the system to reach CE marking according to EN 16034. It guarantees the reproducibility and conformity of the product to the tested specimen.

The standard requires a specific safety level (Assessment and Verification of Constancy – AVCP) for pedestrian doorsets, industrial, commercial, garage doorsets and openable windows with fire resisting and/or smoke control characteristics.

5. Tasks of manufacturer and Notified Body

Level 1 of this Assessment and Verification of Constancy applies to products with fire resisting and/or smoke control characteristics. This safety level requires the splitting of responsibilities between the manufacturer and the notified body in the following manner:

Manufacturer responsible for:

- Factory production control (FPC)
- Further testing of samples taken at factory according to the prescribed test plan (according to FPC)

Notified body responsible for:

- Initial type testing
- Initial inspection of manufacturing plant and of factory production control
- Continuous surveillance, assessment and evaluation of the factory production Control

Traceability and market surveillance

Market surveillance is an essential part of the CPR (and EN 16034, which is harmonized under the CPR). It protects the end-user / customer from non-conform products.

Based upon the requirement of traceability of the products and controlled by specifically authorized bodies, market surveillance eventually allows the recall or withdrawal of non-conform products from the market.

CE-marking of the product (example)

 xxx
AnyCo Ltd, PO Box 21, B-1050, Brussels, Belgium 14 to be given by the manufacturer
EN 16034:2014 to be given by the manufacturer fire and/or smoke compartmentation and/or escape routes Resistance to fire (for fire compartmentation uses): E: 90 EI ₁ : 60 EI ₂ : 90 EW: 60 Smoke control (only for applications where limitation of smoke spread is required): S ₂₀₀ Ability to release: released Self-closing (only for self-closing fire resistant and/or smoke control doorsets and /or openable windows): C Durability of ability to release: release maintained Durability of self-closing (only for self-closing fire resistant and/or smoke control doorsets and /or openable windows): - against degradation (cycling testing): 2 - against ageing (corrosion): achieved

6. Declaration of Performance

EN 16034 requires the distribution of a Declaration of Performance (DoP), to which every customer or user shall have access.

The DoP lists all essential characteristics of the product as required by EN 16034. The manufacturer shall at least declare one characteristic with a result. Other characteristics can be declared as NPD ("no performance determined").

DoPs are to be provided either in paper form or by electronic means in the language/s of the member state with every product delivered.

If the fire+smoke doorset is power operated, it also falls under the Machine Directive (MD) and an additional declaration of conformity (according to the MD) is necessary.

The declaration of performance for products with fire resisting and/or smoke control characteristics shall contain at least the following details:

- reference of the product-type
- reference to the system "AVCP 1"
- the listing of the relevant harmonized standard "EN 16034"
- the intended use for the construction product
- list of essential characteristics for the declared intended use and its relative performance/s

In addition to the EN 16034 standard, the following standards may also apply:

Product group	Product standard	Test Standard	Classification Standard	Direct Application (DIRAP)	Extended Application (EXAP)
Fire resisting Doorsets and Openable windows	EN 16034	EN 1634-1	EN 13501-2	EN 1634-1	EN 15296-series
Smoke control Doorsets and Openable windows	EN 16034	EN 1634-3	EN 13501-2	EN 1634-3	EN 15296-20
External doorsets	EN 14351-1				
Internal doorsets	prEN 14351-2				
Industrial, commercial and garage doors	EN 14241-1				

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