
**Declaration of Performance
and CE-Marking of Windows
and Pedestrian Doorsets with
fire resistance and/or smoke
control characteristics accord-
ing to EN 16034**

Edition November 2015

Guidance Sheet CE.03

EuroWindoor AISBL

In co-operation with:

European Aluminium

ift Institut für Fenstertechnik

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1 Introduction

The Declaration of Performance and CE-marking enable manufacturers to make their products available on the market of the entire European Union. Both show the customer that the product conforms to the relevant harmonised EU-legislation.

Purpose and meaning of Declaration of Performance and CE-marking

CE-marking of windows and external pedestrian doorsets without fire resistance and/or smoke control characteristics has been compulsory since 1st February 2010.

CE-marking of windows and doors

The EuroWindoor Guidance Sheet CE.02 provides information regarding the obligations of the manufacturers for these products.

2 Scope

This Guidance Sheet explains for windows and pedestrian doorsets the provisions of EN 16034 regarding the Essential Characteristics for fire resistance and/or smoke control in connection with the requirements of the Construction Products Regulation. Provisions for Essential Characteristics of EN 14351-1 are explained in EuroWindoor Guidance Sheet CE.02. It is not applicable for testing and certification purposes.

CPR and EN 16034

The provisions of this Guidance Sheet are applicable regardless of the material used for windows (including casement doors), pedestrian doorsets (including those which lead into escape routes) and roof windows (including those having fire performance characteristics against external fires), which are hereinafter called “**Fire Resistant Products**” (FRP).

Windows and pedestrian doorsets

Windows and external pedestrian doorsets may be equipped with roller shutters, roller shutter boxes or blinds.

This Guidance sheet does not cover products excluded in EN 16034:

Exclusions

- fixed windows, glazed side panels and/or overpanels, which are not an integral part of a doorset and/or openable window;
- door assemblies produced with components from several sources where there is no single identified manufacturer or legal entity who will take responsibility for them;
- operation in environments where the electromagnetic disturbances are outside the range specified in EN 61000-6-3;
- radio operating devices fitted to doorsets and/or openable windows; where such items are fitted, the relevant ETSI standards should be applied in addition;

as well as the products excluded by EN 14351-1 (cf. CE.02).

Regarding internal pedestrian doorsets with fire resisting and/or smoke control characteristics EN 16034 is also mandatory.

Internal pedestrian doorsets

2.1 Modular Concept of Standards

EN 16034 supplements the provisions for fire resistance and/or smoke control characteristics to the existing product standards.

EN 16034 supplements the other product standards

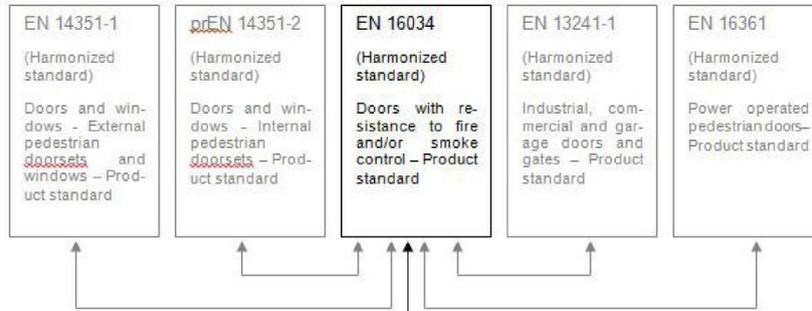


Figure 1: Concurrence of product standards for windows, pedestrian doorsets and industrial, commercial and garage doors and gates

2.2 Impacts of EN 16034

EN 16034 was issued in December 2014 and harmonized by publication in the Official Journal of the EU. As from 1st September, 2016, it will thus be possible to declare fire resistance and/or smoke control characteristics with the CE-mark consistently all over Europe. From 1st September 2019 onwards, CE-marking according to EN 16034 will be compulsory.

Marking of fire-resistance and/or smoke control characteristics

For windows and external pedestrian doorsets with fire resistance and/or smoke control characteristics, the declaration of Essential Characteristics according to EN 14351-1 is required as well. The information given in this Guidance Sheet is supplementary to Guidance Sheet CE.02. The information and advice given on the Construction Products Regulation in CE.02 is therefore deliberately omitted in the present document.

Link between EN 16034 and EN 14351-1

For internal pedestrian doorsets the information given in this guidance sheet is similar, but essential characteristics according to prEN 14351-2 shall only be declared after this standard is published in the Official Journal of the EU and the coexistence period started.

EN 16034 for internal pedestrian doorsets

2.3 Essential Characteristics according to EN 16034

According to the requirements of the Mandate M/101 of the EU-Commission, Annex ZA of EN 16034 specifies the following Essential Characteristics for fire resistant and/or smoke control doorsets and/or openable windows:

Essential Characteristics	To be declared as
Resistance to Fire (for fire compartmentation uses)	Class
Smoke control (only for applications where limitation of smoke spread is required)	Class
Ability to release	Description
Self-closing (only for self-closing fire resistant and/or smoke-control doorsets and/or openable windows)	Class
Durability of ability to release	Description
Durability of self-closing (only for self-closing fire resistant and/or smoke-control doorsets and/or openable windows)	
- against degradation (cycle testing)	Class
- against ageing (corrosion)	Description

Items printed in bold in the left-hand column of the above list shall be fully quoted in clause 7 of the Declaration of Performance. Values shall, however, only be declared for performance characteristics subject to legal requirements applying to the intended use.

Items required for the Declaration of Performance

3 Assessment and Verification of Constancy of Performance according to System 1

According to Annex ZA.2 of EN 16034, doors, gates and windows used for fire and/or smoke compartmentation and in escape routes are subject to System 1 of assessment and verification of constancy of performance (AVCP).

AVCP System 1 is applicable to fire resistant assemblies

Table 1: Tasks for manufacturers and notified bodies

Tasks	AVCP System				
	1+	1	2+	3	4
Manufacturer					
Determination of product-type	•	•	•	•	•
Type-testing (TT)			•		•
Factory Production Control (FPC)	•	•	•	•	•
Further testing of samples taken of manufacturing	•	•	•		
Notified Body					
Type-testing (TT)	•	•		•	
Initial inspection of manufacturing plant and FPC	•	•	•		
Surveillance, assessment and evaluation of FPC	•	•	•		
Audit-testing samples	•				

The manufacturer is responsible for the declaration of performance including the determination of the product type and for execution of the factory production control. Under System 1 the manufacturer is furthermore responsible for testing further samples taken from the manufacturing plant.

Tasks of the manufacturer

The Notified Product Certification body (NPC) decides on issuing, limitation, suspension or withdrawal of the certificate of constancy of performance of the construction product based on the following assessments and evaluations it has carried out:

Tasks of the notified product certification body

- i) assessment of the performance of the construction product based on testing (including sampling), calculation, tabled values or documents used for product description;
- ii) Initial inspection of the manufacturing plant and of the factory production control;
- iii) Continuous surveillance, assessment and evaluation of the factory production control.

4 Role and Tasks of the Notified Product Certification Body

The Notified Product Certification body (NPC) has a central part to play on the way to CE marking of fire resistant and/or smoke control assemblies. The manufacturer has to choose a NPC which is notified for EN 16034.

Notified product certification body

Table ZA.3 of EN 16034 describes the distribution of tasks between the manufacturer and the NPC, which bears the responsibility for testing, classification and surveillance by way of a technical “supervision” and therefore must be notified for EN 16034.

To begin with, the manufacturer will determine the scope of the system according to his wishes. On this basis, the NPC will establish a testing programme together with the manufacturer, which must be tested and proven successfully. For the establishment of such a testing programme, it is advantageous that the NPC has comprehensive product competence, in order to

Testing and assessment of the product – type testing (TT)

ensure that the desired scope of the system can be assessed with adequate testing costs.

Actual product testing is carried out by a notified testing laboratory which must not necessarily be identical with the NPC. However, the NPC retains the responsibility for the overall assessment. It should therefore be clarified in advance which test records (existing or new) will be accepted by the NPC. Once all results as well as the classification of direct and, if applicable, extended field of application are present, these will be assessed by the NPC.

The manufacturer shall furthermore implement a factory production control, which shall be checked by an initial inspection and followed by control visits with a certain frequency (usually annually).

Surveillance, assessment and evaluation of FPC

After successful testing and assessment of the product and initial inspection of the manufacturing plant and the factory production control of the manufacturer, the NPC may issue the certificate of constancy of performance of the construction product, which forms the basis of the Declaration of Performance and CE-marking of the manufacturer.

Initial inspection of the manufacturing plant and of factory production control (FPC)

4.1 Basic Principles

Some basic principles of surveillance shall be created for the surveillance and certification of a manufacturer. This documentation shall describe the products, hereinafter called fire resistant products (FRP), their classifications and also contain production specifications. These documents will be the basis of the activities of the NPC and for the assessment of the surveillance results. The following documents would normally compose the core of the basic principles of surveillance:

Basic documentation for surveillance

- **The classification report according to Annex A of EN 13501-2**
This report classifies the FRP on the basis of the tests carried out, describes the components tested and defines the boundaries of the system. It represents the direct field of application. Substitution of components or deviations from the models described, the formats or configurations of the building components are either impossible or possible only to a very restricted extent.
- **The EXAP-report (extended field of application)**
This document will authorize the use of alternative components, profiles and formats for the FRP-system, based on further reports and evaluations of the NPC in accordance with the EN 15269 series.. It represents the extended field of application.
- **System Documentation for the Manufacturing of FRP**
As so far, these documents contain all information required for manufacturing the FRP (working drawings, tolerances, etc).

4.2 Certification and Surveillance

4.2.1 The Contract

The whole procedure begins with the conclusion of a surveillance and certification contract between the NPC and the manufacturer. The scope of this contract will define the object of the surveillance and certification (= FRP-system), the costs of the surveillance / certification as well as the terms of conditions. Basis of the contract is usually a valid classification report.

Surveillance and certification contract

4.2.2 Initial Inspection

The NPC carries out an audit of the manufacturing plant. In the scope of this audit, the NPC and the manufacturer will agree on the basic principles of surveillance and the manufacturing of the FRP will be inspected. It is therefore necessary that there should already be a current production at this moment.

Audit

Furthermore, the implementation of the Factory Production Control (FPC), its scope and documentation are subject of this visit. The product standard identifies the FPC as an essential task of the manufacturer (clause 6.3). The FPC safeguards and records conform planning and manufacturing of the FRP. The FPC system may therefore not only be started together with the production, but it shall already be installed at the planning phase in order to avoid, resp. detect mistakes at the beginning of the process.

FPC should be in planning phase

Furthermore, the system shall identify procedures to correct instances of non-conformity and define the classification/marketing of the FRP. It shall not be forgotten that personnel qualification, servicing and maintenance of machinery and equipment as well as inspection of measuring and testing equipment also form integral parts of the FPC system.

Special components of FPC

4.2.3 Certification

After initial inspection, the NPC will assess the results of the audit and determine whether the basic principles of surveillance are complete and adequate to ensure the manufacture of conforming FRP. The manufacturer will have the possibility to take corrective actions in order to resolve detected deviations. These actions shall be documented and substantiated by appropriate evidence submitted to the NPC.

Assessment by NPC and certificate

If the overall evaluation (= assessment of conformity) by the NPC is positive, it will issue the "Certificate of Constancy of Performance" to the manufacturer. Some NPC gives the certificate a limited duration of validity, which is allowed but not required according to CPR. From this moment onwards, the manufacturer may issue Declarations of Performance for his FRP and put them on the market with the affixed CE-mark.

5 Special feature: "Cascading" under AVCP System 1

Under AVCP System 3, according to which windows and external pedestrian doorsets (except external doors in escape routes) are CE-marked, an agreement between the manufacturer and his system provider (often called "system house") is sufficient in order to enable the manufacturer to use the test results of the system provider as a basis for CE-marking his products under his own responsibility.

Appropriate Technical Documentation for AVCP System 3

Under AVCP System 1, the rules are different: Indeed, the manufacturer still needs the contractual agreement with his system provider in order to enable him to use the latter classification report(s). Additionally, however, each individual manufacturer has to sign a contract with a NPC of his preference, so that a "certificate of constancy of performance" may be issued in his name, according to the procedure set out in clause 4.2, which will form the basis of his own CE-marking!

Appropriate Technical Documentation for AVCP System 1

If the manufacturer makes use of the exception (Art. 37 – 38 EU-CPR) and applies simplified procedures in comparison with the stipulations of the harmonised Product Standard, he shall establish a so-called “Specific Technical Documentation”. By this he documents which procedures of the assessment and evaluation of constancy of performance he has replaced by others and substantiates that the results achieved by the adopted procedures are equal to those stipulated by the Standard. Under AVCP System 1, this so-called “Specific Technical Documentation” shall, in each case, be inspected by the NPC!

Under AVCP System 1, the Specific Technical Documentation (STD) shall be inspected by the NPC!

All Essential Characteristics applicable to the intended use shall be listed in the Declaration of Performance. The performance of at least one Essential Characteristic shall be declared. If individual characteristics are not required by legal regulations in reference to the intended use, then “NPD” (No Performance Determined) may be entered.

List of all “Essential Characteristics” in the Declaration of Performance
Use of „NPD“ (No Performance Determined)

Information related to the requirements of the Member States with reference to the intended use is provided by the product contact points:

http://ec.europa.eu/growth/single-market/goods/free-movement-sectors/mutual-recognition/contacts-list/index_en.htm

5.1 Ability to Release of Doorsets

Due to the original stipulations of the Mandate, there are now two characteristics applying to doorsets with the identical denomination: “Ability to release”.

Doors in escape routes and doors for fire-, resp. smoke compartmentation

- A) For opening: For **doors in escape routes**, this means the ability to open (release) the doors safely by the operating devices in the direction of escape (without any key, even in the locked state) – characteristic specified by EN 14351-1.
- B) For closing: For **doors used for fire- resp. smoke compartmentation** in buildings, this concerns the ability to be unfastened (released), from a fixed open position to commence closing, i.e. to safely release any holding devices – characteristic specified by EN 16034.

Any doorset featuring the “ability to release” according to these standards shall be subject to the additional surveillance procedures according to AVCP System 1. A NPC shall be engaged as third-party supervision is compulsory.

Annex 1 Examples

Certificate

of Constancy of Performance

In compliance with Regulation 305/2011/EU of the European Parliament and of the Council of 9 March 2011 (the Construction Products Regulation or CPR), this certificate applies to the construction product

Fire resisting and/or smoke control doors

Product description/ specification Spessart 205 BS
 See evidence no. 20-001234-PR01 of 10 January 2020
Levels and classes of performance E_l30-C5-S₂₀₀
Intended use(s) intended to be used in fire and/or smoke compartmentation and/or escape routes
Produced by or for Türenwerk Musterbau KG
 Musterstraße 245, D 12345 Musterstadt
Produced in the manufacturing plant Türenwerk Musterbau KG
 Musterstraße 245, D 12345 Musterstadt
Notified body No. EC-Reference-No. 0757 ift Rosenheim

This certificate attests that all provisions concerning the assessment and verification of constancy of performance and the performances described in Annex ZA of the harmonised standard(s)

EN 16034:2014

under system 1 are applied and that the product fulfils (products fulfill) all the prescribed requirements set out above.

This certificate was first issued on 20 January 2020 and will remain valid until 10 January 2023, as long as the test methods and/or factory production control requirements included in the harmonised standard, used to assess the performance of the declared essential characteristics, do not change, and the product, and the manufacturing conditions in the plant are not modified significantly, unless suspended or withdrawn by the product certification body.

The use of this certificate and the marking of the products are bound by an existing certification and surveillance contract with the ift Rosenheim no. 277.1234567.

Prof. Ulrich Siebert
Director
ift Rosenheim
20 January 2020

ift Rosenheim
Notified Body
for Construction Products
PÜZ
EC-Reference No. 0757

Christian Kahrer
Head of notified product certification body

ift Rosenheim GmbH
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www.iftrosenheim.de

DAkkS
04-01-2017-0001
PÜZ-111-1-1-10

No.: 0757-CPR-277-1234567-1-1
Issue: 20 January 2020

Essential Characteristics	Performance	Harmonized technical specification
Resistance to Fire (for fire compartmentation uses): E: E _{l1} : E _{l2} : EW	60 30 30 60	EN 16034:2014
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 (cycle testing) - against ageing (corrosion)	5 achieved	

Figure 2: Example of a Certificate of Constancy of Performance as the Basis for the Specification of the Essential Characteristics in the Manufacturer's Declaration of Performance

Declaration of Performance

LE/DoP-No. 001/CPR/2016-09-01

1. Unique identification code of the product type: „FD“ - 160901/238
2. Intended use: Fire resisting and smoke control external doorset for use in public and private locations
3. Manufacturer: Any Co Door Manufacturing
123 Any Street
B-1234 Any Town
Belgium
5. Systems of AVCP: 1 and 3
6. Harmonized standards: EN 16034:2014 and EN 14351-1:2006+A1:2010
Notified bodies: 7777, 8888
7. Declared performance/s

Essential Characteristics	Performance	Harmonized techn. Specification/s
Fire resistance:	E: 30 EI ₁ : 30 EI ₂ : 30 EW: NPD	EN 16034
Smoke control	S ₂₀₀	
Ability to release	released	
Self-closing	C	
Durability of ability to release	Release maintained	
Durability of self-closing - against degradation (cycle testing) - against ageing (corrosion)	5 achieved	EN 14351-1
Water tightness	1A	
Dangerous substances	-	
Resistance against wind load	B2	
Impact resistance	NPD	
Loadbearing capacity of safety devices	-	
Height	2.100 mm	
Acoustic performance	NPD	
Thermal transmittance	1,5 W/(m ² K)	
Air permeability	1	

8. Appropriate technical documentation: WW 900_TA/03

The performance of the product identified above is in conformity with the set of declared performance/s.

This declaration is issued in accordance with regulation (EU) No 305/2011 under the sole responsibility of the manufacturer identified above.

Signed for and on behalf of the manufacturer by:
Mona Mustermann

Any Town, 2016-09-01





7777, 8888

16

Any Co Door Manufacturing
123 Any Street
B-1234
Belgium

„FD“ - 160901/238

LE/DoP-No. : 001/CPR/2016-09-01

Fire resisting and smoke control external doorset
for use in public and private locations

EN 16034:2014

Fire resistance: E: 30
EI₁: 30
EI₂: 30

Smoke control: S₂₀₀

Ability to release: released

Self-closing: C

Durability of ability to release: release maintained

Durability of self-closing:
- against degradation (cycle testing): 5
- against ageing (corrosion): achieved

EN 14351-1:2006+A1:2010

Water tightness: 1A

Resistance to wind load: B2

Height: 2100 mm

Thermal transmittance U_D: 1,5 W/(m²K)

Air permeability: 1

Declaration of Performance made available at:
<http://www.AnyCo.com/DoP>

Figure 3: Example of Declaration of Performance and CE-marking of a fire resisting and smoke control external pedestrian doorset

Note: The reference to the website can only be applicable, if the copy of the declaration of performance is made available on a website.

Declaration of Performance																																			
LE/DoP-No. 002/CPR/2016-09-01																																			
Unique identification code of the product type: „FW“ - 160901/239 Intended use: Fire resisting openable window for use in public and private locations Manufacturer: Any Co Door Manufacturing 123 Any Street B-1234 Any Town Belgium Systems of AVCP: 1 and 3 Harmonized standards: EN 16034:2014 and EN 14351-1:2006+A1:2010 Notified bodies: 7777, 8888 Declared performance/s																																			
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: left; padding: 2px;">Essential Characteristics</th> <th style="text-align: left; padding: 2px;">Performance</th> <th style="text-align: left; padding: 2px;">Harmonized techn. Specification/s</th> </tr> </thead> <tbody> <tr> <td style="padding: 2px;">Fire resistance:</td> <td style="padding: 2px;">E 30 EI₂30</td> <td rowspan="5" style="text-align: center; vertical-align: middle; padding: 2px;">EN 16034</td> </tr> <tr> <td style="padding: 2px;">Smoke control</td> <td style="padding: 2px;">S_a</td> </tr> <tr> <td style="padding: 2px;">Ability to release</td> <td style="padding: 2px;">NPD</td> </tr> <tr> <td style="padding: 2px;">Self-closing</td> <td style="padding: 2px;">C</td> </tr> <tr> <td style="padding: 2px;">Durability of ability to release</td> <td style="padding: 2px;">NPD</td> </tr> <tr> <td style="padding: 2px;">Durability of self-closing - against degradation (cycle testing) - against ageing (corrosion)</td> <td style="padding: 2px;">2 achieved</td> <td rowspan="10" style="text-align: center; vertical-align: middle; padding: 2px;">EN 14351-1</td> </tr> <tr> <td style="padding: 2px;">Water tightness</td> <td style="padding: 2px;">7A</td> </tr> <tr> <td style="padding: 2px;">Dangerous substances</td> <td style="padding: 2px;">-</td> </tr> <tr> <td style="padding: 2px;">Resistance against wind load</td> <td style="padding: 2px;">C3/B4</td> </tr> <tr> <td style="padding: 2px;">Loadbearing capacity of safety devices</td> <td style="padding: 2px;">-</td> </tr> <tr> <td style="padding: 2px;">Acoustic performance</td> <td style="padding: 2px;">32 dB (-1; -5)</td> </tr> <tr> <td style="padding: 2px;">Thermal transmittance</td> <td style="padding: 2px;">1,5 W/(m²K)</td> </tr> <tr> <td style="padding: 2px;">Radiation properties: - Solar factor</td> <td style="padding: 2px;">0,55</td> </tr> <tr> <td style="padding: 2px;">- Light transmittance</td> <td style="padding: 2px;">0,60</td> </tr> <tr> <td style="padding: 2px;">Air permeability</td> <td style="padding: 2px;">4</td> </tr> </tbody> </table>	Essential Characteristics	Performance	Harmonized techn. Specification/s	Fire resistance:	E 30 EI ₂ 30	EN 16034	Smoke control	S _a	Ability to release	NPD	Self-closing	C	Durability of ability to release	NPD	Durability of self-closing - against degradation (cycle testing) - against ageing (corrosion)	2 achieved	EN 14351-1	Water tightness	7A	Dangerous substances	-	Resistance against wind load	C3/B4	Loadbearing capacity of safety devices	-	Acoustic performance	32 dB (-1; -5)	Thermal transmittance	1,5 W/(m ² K)	Radiation properties: - Solar factor	0,55	- Light transmittance	0,60	Air permeability	4
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<div style="font-size: 48px; font-weight: bold; margin-bottom: 10px;">CE</div> 7777, 8888 16 Any Co. Ltd. 123, Any Street B-1234 Any Town Belgium „FW“ - 160901/239 LE/DoP-No. : 002/CPR/2016-09-01 Fire-resisting openable window for use in public and private locations EN 16034:2014 Fire resistance: E: 30 EI ₂ : 30 Smoke control: S _a Self-closing: C Durability of self-closing: - against degradation (cycle testing): 2 - against ageing (corrosion): achieved EN 14351-1:2006+A1:2010 Water tightness 7A Resistance against wind load C3/B4 Acoustic performance 32 dB (-1; -5) Thermal transmittance U _w 1,5 W/(m ² K) Radiation properties: - Solar factor 0,55 - Light transmittance 0,60 Air permeability 4																																			
Appropriate technical documentation: ./. The performance of the product identified above is in conformity with the set of declared performance/s. This declaration is issued in accordance with regulation (EU) No 305/2011 under the sole responsibility of the manufacturer identified above. Signed for and on behalf of the manufacturer by: <div style="text-align: right; margin-right: 100px;">Mona Mustermann</div> <div style="display: flex; justify-content: space-between; align-items: center;"> Any Town, 2016-09-01 </div>																																			

Figure 4: Example of the Declaration of Performance and CE marking of a fire resisting openable window

Annex 2 Literature cited

- [1] EN 16034: 2014 “Pedestrian doorsets, industrial, commercial, garage doors and openable windows - Product standard, performance characteristics – Fire resistance and/or smoke control characteristics”
- [2] EN 14351-1: 2006+A1:2010 “Window and doors – Product standard, performance characteristics – Part 1: Windows and external pedestrian doorsets without resistance to fire and/or smoke control characteristics”
- [3] Construction Products Regulation (305/2011/EU)
- [4] CE.02: 2014-12 “Guidance on Declaration of Performance and CE-marking of Windows and External Pedestrian Doorsets according to CPR”
- [5] FprEN 14351-2: 2015-09 “Windows and doors — Product standard, performance characteristics — Part 2: Internal pedestrian doorsets”

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