



TÜVRheinland®

DIN CERTCO

Precisely Right.



Certification Scheme

Burglar resistant Pedestrian Doorsets, Windows, Curtain Walling, Grilles and Shutters

according to

DIN EN 1627

(Edition: January 2012)

Preface

DIN CERTCO is founded in 1972 by DIN the German Institute of Standardization e.g. for awarding of DIN marks and offering the certification of products, persons and enterprises based on DIN Standards and similar specifications.

In order to prove our impartiality, independency and competence, we are voluntary accredited according to DIN EN ISO/IEC 17065. Additionally, to gain the satisfaction and the trust of our customers we certify regularly our:

- Quality Management System according to DIN EN ISO 9001
- Environmental Management System according to DIN ISO 14001
- Information Security Management System according to DIN ISO/IEC 27001
- Occupational Health and Safety Management System according to OHSAS 18001

DIN CERTCO has been certifying standards' requirements for burglar resistance for more than 20 years. Manufacturers and their products awarded with the DIN mark will be registered by the German Commission for Police Crime Prevention (KPK).

Within the framework of regularly held exchange of experience, the DIN CERTCO's recognized testing laboratories procedural and behavioural rules which are summarized in the so called Beschlussbuch (decision list) must be obliged to during the test practices. All involved testing laboratories requested to apply these decisions as part of their DIN certification tests.

According to the General Terms and Conditions of DIN CERTCO, this certification scheme forms the basis for suppliers of burglar resistant products to mark their products with the "DIN-Geprüft einbruchhemmend". In this way, they document that their products fulfill all the requirements of the DIN EN 1627.

The "DIN-Geprüft einbruchhemmend" creates consumer confidence, in a way that an independent, neutral and competent body has carefully examined and assessed the product based on the test criteria. Third-party monitoring, also during the current production process, ensures that the quality of the product is maintained. In this way, the customers receive an added value which they can take into account by their purchase decisions.

Burglar resistant products shall receive the certification mark "DIN-Geprüft einbruchhemmend" on meeting the requirements listed under section 3 according to the procedure described in this certification scheme.

All certificates' holders can be viewed on the daily up-dated homepage of DIN CERTCO (www.dincertco.de).

Start of Validity

This certification scheme comes into force on 2012-01-01. All new applications must submit to the new testing and certification requirements starting from this date.

All issued certificates remain valid until the mentioned validity date of the certificate.

Certificates of burglar resistant gates that are certified based on the certification scheme "Einbruchhemmende Fenster, Türen, Garagentore, Gitter und zusätzliche Abschlüsse" (2004-10) keep their validity and can be renewed based on the certification scheme mentioned above.

Amendments

The following changes were made to the certification scheme “Einbruchhemmende Fenster, Türen, Garagentore, Gitter und zusätzliche Abschlüsse“ (2004-10):

- a) The certification scheme was adapted to the stipulations of DIN EN 1627. DIN V ENV 1627 was completely revised and updated. The preliminary status was repealed.
- b) The monitoring cycles' number defined in section 6.1.1 of the certification programme was limited to one monitoring activity annually, irrespective of the amount of the production and the application of a (certified) QM system.

Previous Editions

Certification scheme “Einbruchhemmende Fenster, Türen, Garagentore, Gitter und zusätzliche Abschlüsse“ (2004-10)

Remark

The German version of this certification scheme shall be taken as authoritative. No guarantee can be given to the English translation.

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1 Scope

This certification scheme is applicable to burglar resistant pedestrian doorsets, windows and further shutters and – according to the test basic documents mentioned below – contains all of the requirements for awarding the “DIN-Geprüft einbruchhemmend” (DIN-Geprüft burglar resistant).

The certification scheme presented here defines the requirements for the product itself as well as for the testing, monitoring and certification.

2 Test and Certification Specifications

The basic principles for testing and certification are the documents listed below. For dated references, only the edition cited applies. For the undated references, the latest edition of the referenced document (including any amendments) applies.

DIN EN 1627	Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Requirements and classification
DIN EN 1628	Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under static loading
DIN EN 1629	Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance under dynamic loading
DIN EN 1630	Pedestrian doorsets, windows, curtain walling, grilles and shutters – Burglar resistance – Test method for the determination of resistance to manual burglary attempts

- This certification scheme
- The “Beschlussbuch” (decision list)
- The General Terms and Conditions of DIN CERTCO
- The associated schedule of fees of DIN CERTCO

3 Product Requirements

Pedestrian doorsets, windows, curtain walling, grilles and shutters are tested and classified based on their burglar resistant properties. The following ways of opening are taken into account: turn, tilt, fold-up, turn-tilt, swing, slide (horizontal and vertical), roll and constructions without openings. Products containing openings like a letter slot or ventilation grille are also included.

4 Testing

4.1 General Information

DIN CERTCO is served by its recognized test laboratories, in order to achieve the required tests as a basis for the evaluation and certification of the products.

4.2 Test types

4.2.1 Initial Test (Type Test)

The initial test is a type test (design test), which serves to determine whether the product meets the requirements laid down in section 3 of this certification scheme.

4.2.2 Surveillance Test (Control Test)

The surveillance test is conducted repeatedly at determined intervals and serves to determine whether the certified product corresponds to the type-tested product during the production phase.

The test is commissioned by DIN CERTCO and must be evidenced on time by a positive test report. Conditions of the surveillance test are defined in section 7.3

4.2.3 Supplementary Test

A supplementary test shall take place when additions, extensions or modifications (see section 5.9) are made to the certified product, which may influence the product's conformity with the fundamental requirements.

The type and scope of the supplementary test shall be determined in individual cases by DIN CERTCO in consultation with the testing laboratory.

Based on DIN V ENV 1627 ff or DIN 18106 tested and certified burglar resistant components can be tested and certified based on the requirements of DIN EN 1627 within a supplementary test (see decision list).

Fundamental requirements for a certification according to DIN EN 1627 based on a previous certification according to DIN V ENV 1627ff resp. DIN 18106 are the test report of the initial test and the report of the performed supplementary test.

- a) if applicable, advisory opinions of the responsible testing laboratory in order to transfer the test results on products of modified design and installation
- b) statement of agreement of the provider (in case of production under license)
- c) approved surveillance-based processing guidelines/construction drawings provided by the testing laboratory (in case of production under license)

4.2.4 Drawing Test

This test, conducted with the aid of a drawing, is intended to determine whether deviations from the basic design or any additions have any influence on the compliance with the stipulations laid down in DIN EN 1627.

The drawing test shall be conducted exclusively in the event that

- a complete type test has been conducted on a similar product of the same type and ensures that the standard is submitted to.
- the installation and arrangement of the functional parts of the product for which an examination of drawing has been requested do not deviate fundamentally from the tested design.

Once the product has been tested successfully based on the drawing test, it is considered to be identical with the standard.

4.2.5 Special Test

A special test is conducted if

- defects are detected
- the production has been inactive for a period of more than 6 months
- required by DIN CERTCO-reasons to be specified
- Requested in written form by a third party if there is a particular interest in maintaining a proper market situation in a competitive or qualitative manner

The nature and the scope of the special test is to be determined by DIN CERTCO in coordination with the testing laboratories for the purpose of each individual case.

When defects are detected in the process of the special test or when the special test is carried out while the production is suspended, then the certificate holder will bear the costs of the examination procedure.

If the special test is requested by a third party and reveals no defects, then the third party will bear the costs.

4.3 Sampling

The samples for the initial examination and monitoring test are generally delivered by the manufacturer to the testing laboratory which has been commissioned to perform the tests. The costs for this shall be paid by the manufacturer.

The number of samples for the product test shall be agreed between DIN CERTCO and the testing laboratory as long as it is not regulated in the valid test bases.

4.4 Test Report

The testing laboratory shall inform the client about the test and examination results in the form of a test report. This must be submitted to DIN CERTCO in the original form.

Usually, the test report must not be older than 6 months when the application is submitted. In individual cases, older test reports could be recognized if the testing laboratory provides written confirmation of the current validity of the information given in the test report.

The test report must be in conformity with DIN EN ISO/IEC 17025 and contain at least the following information:

- Name and address of the manufacturer
- Name and address of the applicant (if different from the manufacturer)
- Test basis with date of issue
- Type of test (e.g. type-test, supplementary test, etc.)
- Date of examination
- Test result and assessment
- Name and signature of the responsible person of the examination
- Statement on the consideration of the “Beschlussbuch” (decision list)

5 Certification

Certification in the sense of this certification scheme is the conformity assessment of a product by DIN CERTCO based on the test reports submitted by testing laboratories recognized by DIN CERTCO. For this purpose, the products to be certified are examined and subsequently monitored in respect of conformity with the requirements laid down in section 3.

Exchangeable parts for which a certification is offered must be certified or kept under surveillance according to a certification.

Profile cylinders for burglar resistant products according to DIN 18252 resp. DIN EN 1303 must be certified or kept under surveillance based on the certification scheme “Profilzylinder“ (profile cylinders).

Concerning the exchangeability of door fittings of the respective resistance classes of certified doors and windows referred to tab. 1 of NA of DIN EN 1627 attention must be paid to:

1. Profile cylinders for door locks, door fittings and glazing are exchangeable. Door locks according to DIN 18250 and DIN 18251 are generally not exchangeable.
2. There is no need for a retest of door fittings according to annex B1 of DIN EN 1627 if a report referred to tab. 1 of NA of DIN EN 1627 is available.

The right to use the “DIN-Geprüft einbruchhemmend” will be granted by the issuing of the respective certificate.

5.1 Application

According to the German Product Liability Act (ProdHaftG), both manufactures and distributors can be applicants. They state in a written form that they place the product on the market at their own risk.

The applicant must submit the following documents to DIN CERTCO:

- a completed certification application form with a legally binding signature
- a recent test report concerning the initial test and the factory production inspection as long as the test was not commissioned by DIN CERTCO

Following the application, the applicant will receive an order confirmation with a procedural number and notes regarding the further course of the procedure and, if necessary, queries concerning any missing documents from DIN CERTCO.

5.2 Definition of Types and Sub-types

Burglar resistant products which differ from each other in essential certification-relevant characteristics are defined as type or model. Characteristics that are relevant for certification are, for example, properties that significantly influence safety, function or handling, and therefore are distributed under a separate trade name. A separate certificate will be issued for each type.

Sub-types are, as a rule, those products of a model/type that are only distinguishable in terms of size or performance, in formal or non certification-relevant characteristics. These may be summarized under one certificate.

5.3 Conformity Assessment

Based on the the submitted documents, DIN CERTCO conducts the conformity assessment. Based on the test report it is evaluated whether the product meets the requirements of the certification program and the standard.

The applicant shall receive a written notification from DIN CERTCO in case of any possible deviations.

5.4 The Certificate and the Right to use the Mark

After successful testing and conformity assessment of the submitted documents, DIN CERTCO issues a certificate to the applicant and awards the right to use the certification mark “DIN-Geprüft einbruchhemmend” in conjunction with a corresponding registration number.



Format of registration No. **4T000** (doors)
 6F000 (windows)
 7L000 (curtain walling)
 8G000 (grilles)
 5A000 (shutters)

Burglar resistant products for which the right to use the “DIN-Geprüft einbruchhemmend” has been awarded must be marked with the respective certification mark “DIN-Geprüft einbruchhemmend” and the respective registration number.

The mark and the registration number may only be used for the type for which the certificate has been issued and which corresponds to the type-tested product.

A registration number shall be issued for each specific type. The same registration number shall be issued for different designs (sub-types) of a type (see section 5.2).

In addition, the General Terms and Conditions of DIN CERTCO must be considered.

5.5 Publications

All certificate holders can be seen at the daily up-dated homepage of DIN CERTCO (www.dincertco.de). Manufacturers, users and consumers use this research possibility for obtaining information on certified products.

Besides the contact details of the certificate holders (telephone, telefax, e-mail, homepage), it is possible to search for the technical data of the registered burglar resistant products.

5.6 Validity of the Certificate

The certificate is valid for 5 years. The period of validity is shown on the certificate. On expiry of the certificate, the right to use the mark also expires.

5.7 Renewal of the Certificate

If the certification is to be maintained after the specified date in the certificate, DIN CERTCO must be presented a positive test report and a renewal application form before the expiration of the certificate's validity. Based on the submitted documents, DIN CERTCO conducts a conformity assessment.

Proof of conformity with the requirements of the test and certification specifications according to section 2 must be provided within the scope of a verification test according to section 7.3 assessed by DIN CERTCO.

5.8 Expiry of the Certificate

If the verification test according to section 7.3 has not been performed completely, the right to use the certification mark "DIN-Geprüft einbruchhemmend" and the registration number expire without the necessity for explicit notification from DIN CERTCO.

Furthermore, the certificate can expire if:

- the certification mark "DIN-Geprüft einbruchhemmend" is abused by the certificate holder
- the requirements laid down in the certification scheme or its accompanying documents are not fulfilled
- the certification fees are not paid on time
- the requirements for issuing of the certificate are no longer available

5.9 Modification/Extension

5.9.1 Modification/Extension to the Product

The certificate holder is obliged to inform DIN CERTCO of all changes to the product immediately. In agreement with the testing laboratory, DIN CERTCO decides to which extent an examination under section 4.2.3 is to be performed, and whether it is an essential change. The test report is forwarded by the test laboratory to DIN CERTCO.

If DIN CERTCO determines a substantial modification the certificate with its corresponding registration number expires. In this case, a new application for an initial certification and the right to use of the certification mark "DIN-Geprüft einbruchhemmend" is possible.

Furthermore the certificate holder is obliged to notify any changes in the formal details (e.g. certificate holder or his address).

The certificate holder may apply to DIN CERTCO for an extension of the existing certificate for further designs (sub-types) of the same type. It is for DIN CERTCO to decide whether this extension requires a supplementary test. The sub-types shall be included in the same certificate of the already certified original product, if the requirements are completed. They are considered to be part of the certificate.

5.9.2 Modification to the Basic Test Specifications

If the basic test specifications for the certification is modified, an application for the modification of the certification must be submitted within 6 months after receiving notification from DIN CERTCO. Usually, after 12 months DIN CERTCO must be presented a proof of conformity with the modified examination specifications in a form of a positive test report (see section 4.2.3).

5.10 Product Defects

If defects are found in a certified product at the market, DIN CERTCO will require the certificate holder in a written form to eliminate the defects.

In cooperation with the testing laboratory, DIN CERTCO shall decide whether it is a serious or a minor defect.

If the defects are found to have a direct or indirect effect on the technical safety or functionality of the product (serious defects), the manufacturer must ensure that the products are no longer labelled with the certification mark until the defects are eliminated.

The defects must also be eliminated without delay in installed products or products in storage. The manufacturer has to present a proof to DIN CERTCO within 3 months in the form of a test report on a special test in accordance with section 4.2.5, that the defects have been eliminated and the product again fulfills the requirements.

If the defects have no influence on the technical safety or functionality of the product (minor defects), the manufacturer must submit a suitable proof to DIN CERTCO within 3 months that the defects have been eliminated.

If the manufacturer does not comply with these deadlines, he and the distributor of the product will no longer be permitted to use the certification mark "DIN-Geprüft einbruchhemmend".

If a reason for complaint continues to exist DIN CERTCO shall initially suspend the certificate and at the same time issue a final deadline for the elimination of the defects. If the certificate holder fails to meet this demand or fails to meet it within the prescribed period of time, or if it is again not possible to prove that the defects have been eliminated, then the certificate shall expire.

6 Surveillance by the Manufacturer

The manufacturer must ensure, by suitable quality management measures, that the product characteristics confirmed by the certification are maintained.

This can be accomplished by an in-house factory production control (FPC) focussed on the product itself or on the production. Also, this can be guaranteed within the framework of a quality management system (QM-System) in accordance with the standard series DIN EN ISO 9000 ff.

6.1 Factory Production Control (FPC)

Factory production control comprises the continual monitoring of the production process by the manufacturer, which guarantees the conformity of the manufactured products with the specified requirements.

Burglar resistant pedestrian doorsets, windows, curtain walling and grilles:

- The used materials and material quality comply with the basic principles.
- The used wood species complies with the basic principles.
- The used fittings are free of defects (visual check and check of function) and comply with the basic principles.

6.1.1 Production Monitoring

Usually the manufacturer should check if the first product of a processing batch of burglar resistant products meets the requirements in line with the test report.

The labelling shall be made in a way that it is visible and readable in open or closed cases, it cannot be removed by cleaning treatment and it is not effected by external influences; (light, water, etc.).

If the product is detected to be defective within the monitoring, then further samples shall be examined until three samples are found without defect.

Burglar resistant pedestrian doorsets, windows, curtain walling and grilles:

- Check of the dimensional accuracy at specific phases of the process profiles, cut, processing details (rebate, belt/lock pockets...)

6.1.2 Final check

6.1.2.1 Burglar resistant pedestrian doorsets, windows, curtain walling and grilles

- Check of the dimensional accuracy of the final product frame design, rebate clearance, assembly of fittings and safety locks (latch distances, latch entry)
- Check of the general design Locking system, belts, fittings, locks including their attachment, glazing/filling, sealing system, surface
- Check of function

6.1.2.2 Label check

The labelling of burglar resistant products must meet the requirements of annex NA.4 of DIN EN 1627.

Including the following details:

- Burglar resistant element EN 1627
- Resistance class
- Name of the product
- Manufacturer
- Year of production
- Number and date of the test report
- Testing laboratory
- Certification mark “DIN-Geprüft einbruchhemmend” and registration number

The labelling must be permanent. The responsibility for the durability of the label lies with the manufacturer. The certification mark “DIN-Geprüft“ can optionally be used with or without the additon “einbruchhemmend”.

6.1.2.3 Assembly certificate

The assembly certificate referred to annex NA 5 of DIN EN 1627 must be issued.

6.2 Quality Management System

DIN CERTCO recommends the installation and certification of a quality management system in conformity with the standard series DIN EN ISO 9000 ff.

7 Surveillance by DIN CERTCO

7.1 General Information

The constant surveillance of the certified product during the entire duration of the certification period is an integral component of the certification itself. The surveillance contains:

7.2 Initial Factory Inspection

The factory inspection serves to determine whether the production conditions can guarantee products in conformity with the design.

The factory inspection report contains:

- a) Check of staff and facility conditions (nomination of an independet quality manager)
- b) Introduction to the factory production control

7.3 Verification Tests (Control Tests)

Manufacturing sites are verified annually.

Within the verification test the following points are checked:

- Management of the factory production control and evaluation of their results
- Material properties
- Processing accuracy (e.g. fixing of the fitting, construction joints)

If no products are available for checking within the verification test the following issues are to be checked:

- Management of the factory production control and the evaluation of the results
- If applicable, random checking of products and components in the warehouse

However, each model concerning the surveillance and the models actually verified within the verification test shall be included in the factory inspection report.

Within the verification test the taken actions agreed in the “Beschlussbuch” (decision list) shall be checked and recorded in the verification report.

Previous verifications performed within the admission procedure of the building supervision can be accepted by the DIN CERTCO-recognized testing laboratory.

The factory inspection also serves to determine whether the technical manufacturing prerequisites are met for the continual conformity of the products with the requirements laid down in section 3.

A separate special monitoring report shall be issued on the results of the factory inspection.

If the results of the factory inspection prove insufficiency the applicant must be informed immediately. The scope of additional actions to meet all requirements should be established then between DIN CERTCO and the applicant. If the applicant is unable to implement the necessary measures the procedure shall be terminated.