



TÜVRheinland®

DIN CERTCO

Precisely Right.



# Certification Scheme

## Fireplaces for liquid fuels

according to

**DIN EN 16647**

(Edition: June 2016)

## Foreword

DIN CERTCO was founded in 1972 by DIN the German Institute of Standardization e.g. for the awarding of DIN marks and offers the certification of products and persons, services and enterprises on the basis of the 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. For the satisfaction and trust of our clients and their data, we maintain furthermore a certified

- 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

In conjunction with the General Terms and Conditions of DIN CERTCO, this certification scheme forms the basis for suppliers of fireplaces for liquid fuels to mark their products with the certification mark “DIN-Geprüft”. In this way they document that their products fulfill all the requirements of the DIN EN 16647.

The certification mark “DIN-Geprüft“ creates consumer confidence, in that an independent, neutral and competent body has carefully examined and assessed the product on the basis of the test criteria. Third-party monitoring, also during the on-going production process, further ensures that the quality of the product is maintained. In this way, the customer receives an added value, which he can take into consideration in deciding on his purchase.

Fireplaces for liquid fuels shall receive the Certification mark “DIN-Geprüft” on meeting the requirements listed under section 3 according to the procedure described in this certification scheme.

All certificate holders can be viewed on the daily up-dated homepage of DIN CERTCO ([www.dincertco.de](http://www.dincertco.de)).

## Start of validity

This certification scheme comes into effect on 2014-06-01. All DIN certified fireplace for liquid fuels must show compliance with the new testing and certification requirements.

## Amendments

This certification scheme differs from the certification scheme “Fireplaces for liquid fuels“(2014-06) as follows:

- a) Requirements of new standard DIN EN 16647
- b) Adaptation of certification mark
- c) Specification of third-party monitoring
- d) Editorial changes

## Previous Editions

Certification scheme “Fireplaces for liquid fuels“ (2014-06)  
Certification scheme “Fireplaces for liquid fuels“ (2011-04)  
Certification scheme “Fireplaces for liquid fuels“ (2010-01)

## Remark

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

**CONTENTS**

<b>1</b>	<b>Scope .....</b>	<b>4</b>
<b>2</b>	<b>Test and Certification Specifications.....</b>	<b>4</b>
<b>3</b>	<b>Product Requirements.....</b>	<b>4</b>
<b>4</b>	<b>Testing .....</b>	<b>4</b>
4.1	General Information .....	4
4.2	Types of Test .....	5
4.2.1	Initial Test (Type Test).....	5
4.2.2	Verification Test (Control Test) .....	5
4.2.3	Supplementary Test .....	5
4.2.4	Drawing Test .....	5
4.2.5	Special Test.....	6
4.3	Test Procedure.....	6
4.4	Test Report .....	6
<b>5</b>	<b>Certification .....</b>	<b>7</b>
5.1	Application .....	7
5.2	Definition of Type Range (Appliance Range) and Sub-Types.....	7
5.3	Conformity Assessment .....	7
5.4	The Certificate and the Right to Use the Mark.....	8
5.5	Publications.....	8
5.6	Validity of the Certificate.....	8
5.7	Renewal of the Certificate .....	8
5.8	Expiry of the Certificate .....	8
5.9	Alterations/Amendments .....	9
5.9.1	Alterations/Amendments to the Product.....	9
5.9.2	Alterations to the Basic Test Specifications .....	9
5.10	Product Defects.....	9
<b>6</b>	<b>Surveillance by the Manufacturer .....</b>	<b>10</b>
6.1	Factory Production Control (FPC) .....	10
6.2	Quality Management System .....	11
<b>7</b>	<b>Surveillance by DIN CERTCO .....</b>	<b>11</b>
	<b>Annex A Manufacturer’s Declaration .....</b>	<b>12</b>
	<b>Annex B Notification .....</b>	<b>13</b>

## 1 Scope

This certification scheme is applicable to fireplaces for liquid or gelatinous fuels used in private households indoors.

The certification scheme presented here lays down the requirements for the product itself as well as for the testing, monitoring and certification of same.

## 2 Test and Certification Specifications

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

DIN EN 16647:2016-04      Fireplaces for liquid fuels - Decorative appliances producing a flame using alcohol based or gelatinous fuel - Use in private households

- This certification scheme
- The General Terms and Conditions of DIN CERTCO
- The respective schedule of fees of DIN CERTCO

## 3 Product Requirements

In paragraphs 4 to 7 of DIN EN 16647 requirements are defined on:

- Construction
- Construction materials
- Stability against overturning
- Protection against leakage of fuel
- Fluid container (Fluid content)
- Ignition device
- Operational mode
  - Fuel flow rate
  - Operational safety
  - Combustion quality
  - Safety
- Installation instructions
- User manual
- Labeling

## 4 Testing

### 4.1 General Information

For the performance of the tests required as the basis for the assessment and certification of the products, DIN CERTCO avails itself of the testing laboratories to which it has awarded recognition.

## **4.2 Types of Test**

### **4.2.1 Initial Test (Type Test)**

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

Tests that have been conducted in accordance with the requirements of DIN EN 16647 in the past (same product, same characteristic(s), same test procedure, same system of conformity assessment etc.) can be incorporated.

Furthermore the initial test shall be performed at the beginning of a new product type production (if it is not part of the same family) or at the beginning of a new production process (in case of modifications influencing the products characteristics).

Additional type tests of characteristics of products shall be conducted if any changes regarding product design, components or suppliers of components or production process (with regard to the family definition) influencing product characteristics are made.

The sampling procedure for the initial test and verification test is executed during the third party monitoring according to section 6.3 of this certification scheme by DIN CERTCO or a recognized testing laboratory.

The number of samples for the type test shall be laid down in accordance with the respective purpose on a case by case basis by DIN CERTCO in conjunction with the testing laboratory.

### **4.2.2 Verification Test (Control Test)**

The verification test is conducted at regular intervals of 2 1/2 years and serves to ascertain whether the certified product corresponds to the type-tested product during the production phase.

The type and scope of the verification test is laid down in section 4.2.4. of this certification scheme and is executed during the third-party monitoring according to section 6.3 of this certification scheme.

The test is commissioned by DIN CERTCO and must be evidenced on the due date by a positive test report.

### **4.2.3 Supplementary Test**

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

The type and scope of the supplementary test shall be laid down on a case by case basis by DIN CERTCO in conjunction with the testing laboratory.

### **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 additions to same, have any influence on compliance with the stipulations laid down in section 2 of this certification scheme.

The drawing test shall be conducted exclusively in the event that

- evidence is given that a complete type test has been conducted or a similar product of the same type series exists and that said product complies with the standard.
- 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 on the basis of a drawing test, it is deemed in conformity with the standard.

#### **4.2.5 Special Test**

A Special Test is conducted when

- defects are detected
- the production has been suspended for a period of more than 6 months
- required by DIN CERTCO - reasons to be specified
- requested in writing by a third party if a particular interest in the maintenance of proper conduct of market procedures in relation to competition or quality is involved.

The type and scope of the special test shall be laid down in accordance with the specific, respective purpose on a case by case basis by DIN CERTCO in conjunction with the testing laboratory.

Should defects be detected in the course of the special test or because of the suspended production, the certificate holder shall bear the costs of the examination procedure.

Should the special test at the request of a third party reveal no defects, the costs shall be borne by said third party.

#### **4.3 Test Procedure**

The test procedures are described in DIN EN 16647 section 5. The description of requirements regarding labeling and documentation is found in section 6 and 7 of DIN EN 16647.

#### **4.4 Test Report**

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

As a rule, the test report may not be older than 6 months on submitting the application. In individual cases, older test reports can be recognized if the testing laboratory provides written confirmation of the current validity of the information given in said test report.

The test report must be in conformity with DIN EN ISO/IEC 17025, Section 5.10 and contain at least the following information.

- Name and address of the manufacturer
- Name and address of the applicant (if differing from the manufacturer)
- Test basis (standard and certification scheme) with date of issue
- Type of test (e.g. type-test, complementary examination, etc.)

- Date of examination
- Test result and assessment
- Name and signature of the person responsible for the examination
- Section 7.5.2 of DIN EN 16647

## 5 Certification

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

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

### 5.1 Application

Both manufacturers according to § 4 of the Product Liability Act (ProdHaftG) and distributors who, with the written consent of the certificate holder, bring the products onto the market under their own responsibility in the sense of the Product Liability Act, may apply.

The applicant must submit the following documents to DIN CERTCO:

- Application for certification in the original complete with legally binding signature
- an up-to-date test report according to section 4.4 of the certification scheme concerning an initial examination (see section 4.2.1), in so far as the test was not commissioned by DIN CERTCO
- Contract between testing laboratory and manufacturer (if applicable)

The applicant shall receive from DIN CERTCO, after receipt of the application, a confirmation of order with a process number and notes regarding the further course of the procedure and, as applicable, queries concerning any missing documents

### 5.2 Definition of Type Range (Appliance Range) and Sub-Types

All fireplaces for liquid fuels according to section 1 of DIN EN 16647 have to be subjected to an initial test according to 4.2.1.

Fireplaces for liquid fuels that are only distinguishable in formal or non certification-relevant characteristics may be summarised under one type range (appliance range).

For each type range (appliance range) or sub-type an independent certificate shall be issued.

### 5.3 Conformity Assessment

On the basis of the documents submitted, DIN CERTCO conducts the conformity assessment. To this end, in particular, an assessment is made with the aid of the test report as to whether the product meets the requirements of the certification scheme and of the standard.

The applicant shall receive written notification from DIN CERTCO in the event 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” in conjunction with a corresponding registration number.



Format of the Registration Number **P2F000/YYYY**

Fireplaces for liquid fuels, for which the right to use the certification mark “DIN-Geprüft” has been awarded, must be marked with the respective certification mark "DIN-Geprüft" 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.

For each respective type, a registration number shall be issued (see section 5.2 of this certification scheme).

In addition to this, the General Terms and Conditions of DIN CERTCO apply.

## 5.5 Publications

All certificate holders can be viewed on the daily up-dated homepage of DIN CERTCO ([www.dincertco.de](http://www.dincertco.de)) under <Certificate Holders>. Manufacturers, users and consumers use this research possibility for obtaining information on certified products. Here also the contact details of the certificate holders (telephone, telefax, e-mail, homepage), can be viewed.

## 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 shall continue to apply beyond the date shown on the certificate, an up-to-date, positive test report and an application for renewal must be submitted in good time to DIN CERTCO.

Proof of conformity with the requirements of the test and certification specifications according to section 2 shall be provided within the scope of an initial test according to section 4.2.1 of this certification scheme.

## 5.8 Expiry of the Certificate

In the event that the new standard conformity assessment according to section 4 has not been completed before expiry of the validity period, the right to use the certification mark



"DIN-Geprüft" and the registration number expires without the necessity for explicit notification from DIN CERTCO.

Furthermore, the certificate can also expire if:

- the surveillance according to section 6 of this certification scheme is not performed punctually or completely
- the certification mark "DIN-Geprüft" is misused 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 the due date
- the prerequisites for the issuing of the certificate are no longer fulfilled.

## **5.9 Alterations/Amendments**

### **5.9.1 Alterations/Amendments to the Product**

The certificate holder is obliged to notify DIN CERTCO of all alterations to the product without delay. The testing laboratory in conjunction with DIN CERTCO shall decide on the scope of an examination that shall be conducted according to section 4.2.3 and whether it is a matter of a substantial alteration. The respective test report shall be forwarded to DIN CERTCO by the testing laboratory.

Should DIN CERTCO determine a substantial alteration, the certificate with the corresponding registration number shall expire. For the modified product, a new application for initial certification authorising the use of the certification mark "DIN-Geprüft" may be submitted.

The certificate holder remains obliged to notify of any changes in the formal details (e.g. certificate holder or his address).

### **5.9.2 Alterations to the Basic Test Specifications**

If the basic test specifications for the certification are modified, an application for the alteration of the certification shall be submitted within 6 months of receiving notification from DIN CERTCO and, as a rule, after 12 months, proof of conformity with the modified examination specifications shall be submitted in the form of a positive test report (see section 4.2.3).

## **5.10 Product Defects**

In the event that a certified product on the market is found to be defective, the certificate holder shall be summoned in writing by DIN CERTCO to rectify the defects.

In conjunction with the testing laboratory, DIN CERTCO shall decide whether it is a serious or a minor defect. In the case of defects having a direct or indirect effect on the technical safety or functionality of the product (serious defects), the manufacturer must ensure that, until the defects have been rectified, the products are no longer marked with the certification mark "DIN-Geprüft".

The defects must also be rectified without delay in installed products or products in storage. The manufacturer must submit 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 rectified and that the product in question again fulfils the stipulated requirements.

In the case of defects that have no influence on the technical safety or functionality of the product (minor defects), the manufacturer must submit suitable proof to DIN CERTCO within 3 months that the defects in the product in question have been rectified.

Should the manufacturer fail to observe these deadlines, he and the distributor of product will no longer be permitted to use the certification mark "DIN-Geprüft".

Should grounds for complaint continue to exist, DIN CERTCO shall initially suspend the certificate and at the same time issue a final deadline for the rectification of the defects. Should the certificate holder fail to meet this demand, or fail to meet it within the period of grace, or if it is again not possible to prove that the defects have been rectified, the certificate shall be annulled.

## **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 means of an in-house factory production control (FPC) focussed on the product itself or on the production and, in addition, 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)**

The factory production control according to section 8 of DIN EN 16647 comprises the continual monitoring of the production process by the manufacturer, which guarantees the conformity of the products manufactured with the specified requirements.

Appropriate records shall be submitted to DIN CERTCO or its authorised representative on request. These records must contain at least the following information:

- Specifications of all construction materials and components
- Documentation of procedure for surveillance of testing and measurement equipment
- Documentation of procedure for process control
- Documentation of procedure for tests during production and final tests
- Product features, criteria and control measures
  - Construction material
  - Insulation
  - Sealing and sealing materials
  - Production control
- Documented procedure for handling non-conforming products
- Documented procedure for corrective and preventive actions
- Documented procedure for handling, storing, packaging and transport
- Records:
  - Date of record
  - Date of manufacture
  - Date of examination
  - Result of the examination and, if envisaged, comparison with the stipulated requirements
  - Signature of the person responsible for the examination

In the event of a negative test result, the manufacturer shall take all necessary steps to rectify the defect. Faulty products are to be marked and set apart. The test shall be repeated regularly to verify whether the defect has been rectified.

## **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 9000ff.

## **7 Surveillance by DIN CERTCO**

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 shall be performed at regular intervals of 2 1/2 years according to section 4.2.2.

On the basis of the documents submitted, DIN CERTCO conducts the conformity assessment according to the requirements laid down in this certification scheme.

**Annex A Manufacturer's Declaration****Manufacturer's Declaration**

Reg.-No.	<b>P2F</b>
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for testing of  
Fireplaces for liquid fluids according to DIN EN 16647:2016-04

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DIN CERTCO Gesellschaft  
für Konformitätsbewertung mbH  
Alboinstraße 56  
D-12103 Berlin

**Type of test:** Verification test Renewal test

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**Certificate holder:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Production site:** \_\_\_\_\_

**Type designation:** \_\_\_\_\_

We hereby confirm with our legally binding signature that the product of the type given above is still being produced in the same manner as the type-tested product and is indicated with the certification mark „DIN-Geprüft“ as well as the appropriate registration number.

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Place and date

Company stamp and signature of manufacturer

**Annex B Notification**

**NOTIFICATION**

<b>Reg.-No.</b>	<b>P2F</b>
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**for testing of  
Fireplaces for liquid fuels according to DIN EN 16647:2016-04**

DIN CERTCO Gesellschaft  
für Konformitätsbewertung mbH  
Alboinstraße 56  
D-12103 Berlin

**Type of test:**

Verification test

Renewal test

**Certificate holder:**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**Production site:**

\_\_\_\_\_

**Type designation:**

\_\_\_\_\_

Scrutiny of the technical drawings relating to the above-mentioned product submitted by the certificate holder resulted in

no complaints

the following complaints

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

about the type-tested product (see test report No. \_\_\_\_\_ dated \_\_\_\_\_).

The basic test specifications for certification have not changed.

Place and date

Official stamp and signature of the testing laboratory