



EUROPEAN STANDARD
NORME EUROPÉENNE
EUROPÄISCHE NORM

DRAFT
prEN 16647-2

April 2025

ICS 97.100.99

Will supersede EN 16647:2015

English Version

**Alcohol powered flueless fireplaces - Safety requirements
and test methods - Part 2: Automatically operated
decorative fireplaces for domestic use**

Foyers sans conduits alimentés par l'alcool - Exigences
de sécurité et méthodes d'essai - Partie 2 : Foyers
décoratifs à fonctionnement automatique pour usage
domestique

Alkoholbetriebene abzugslose Feuerstätten -
Sicherheitstechnische Anforderungen und
Prüfmethode - Teil 2: Automatisch betriebene
dekorative Feuerstätten für den Haushaltsbereich

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 46.

If this draft becomes a European Standard, CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration.

This draft European Standard was established by CEN in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the CEN-CENELEC Management Centre has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Republic of North Macedonia, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Switzerland, Türkiye and United Kingdom.

Recipients of this draft are invited to submit, with their comments, notification of any relevant patent rights of which they are aware and to provide supporting documentation.

Warning : This document is not a European Standard. It is distributed for review and comments. It is subject to change without notice and shall not be referred to as a European Standard.



EUROPEAN COMMITTEE FOR STANDARDIZATION
COMITÉ EUROPÉEN DE NORMALISATION
EUROPÄISCHES KOMITEE FÜR NORMUNG

CEN-CENELEC Management Centre: Rue de la Science 23, B-1040 Brussels

Contents

Page

European foreword.....	4
1 Scope	5
2 Normative references	5
3 Terms and definitions	6
4 Requirements	7
4.1 General	7
4.2 Design	8
4.2.1 Extinguishing system	8
4.2.2 The safety circuit	8
4.2.3 Flame supervision device (FSD)	8
4.2.4 Ignition device	8
4.2.5 Fuel tank	9
4.2.6 Mechanical construction	9
4.2.7 Materials	9
4.3 Fireplace structure	10
4.4 Stability	10
4.5 Leakage of connecting elements	10
5 Tests	10
5.1 General	10
5.2 Test conditions	10
5.3 Impact spillage test	11
5.4 Spill detector test	12
5.5 Fuel tank tests	12
5.5.1 Fuel tank tightness test	12
5.5.2 Safe fuel tank filling test	12
5.5.3 Fuel tank temperature test	13
5.5.4 Leakage of connecting elements	13
5.6 Combustion process	13
5.6.1 Fuel consumption	13
5.6.2 Thermal output	13
5.6.3 Combustion performance - released substances	13
5.6.4 Minimum ambient volume determination	13
5.7 Operating method tests	14
5.7.1 General	14
5.7.2 Operating safety test	14
5.7.3 Extinguishing time test	14
5.7.4 Fire resistance test	14
5.8 Label durability test	15
5.9 Type testing	15
5.9.1 Test sample and documents	15
5.9.2 Test report	15
6 Marking	16
6.1 General	16
6.2 Container marking	16