

ELAMUTE TAHKEKÜTTESEADMED. OSA 2-2:  
SISSEHITATUD SEADMED, KAASA ARVATUD  
LAHTISED TULEKOLDED

Residential solid fuel burning appliances - Part 2-2:  
Inset appliances including open fires

## EESTI STANDARDI EESSÕNA

## NATIONAL FOREWORD

See Eesti standard EVS-EN 16510-2-2:2023 sisaldab Euroopa standardi EN 16510-2-2:2022 ingliskeelset teksti.	This Estonian standard EVS-EN 16510-2-2:2023 consists of the English text of the European standard EN 16510-2-2:2022.
Standard on jõustunud sellekohase teate avaldamisega EVS Teatajas.	This standard has been endorsed with a notification published in the official bulletin of the Estonian Centre for Standardisation and Accreditation.
Euroopa standardimisorganisatsioonid on teinud Euroopa standardi rahvuslikele liikmetele kättesaadavaks 21.12.2022.	Date of Availability of the European standard is 21.12.2022.
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EUROPEAN STANDARD

**EN 16510-2-2**

NORME EUROPÉENNE

EUROPÄISCHE NORM

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Supersedes EN 13229:2001

English Version

## Residential solid fuel burning appliances - Part 2-2: Inset appliances including open fires

Appareils de chauffage domestiques à combustible  
solide - Partie 2-2 : Foyers ouverts et inserts

Häusliche Feuerstätten für feste Brennstoffe - Teil 2-2:  
Kamineinsätze einschließlich offene Kamine

This European Standard was approved by CEN on 23 October 2022.

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. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the CEN-CENELEC Management Centre or to any CEN member.

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

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## European foreword

This document (EN 16510-2-2:2022) has been prepared by Technical Committee CEN/TC 295 “Residential solid fuel burning appliances”, the secretariat of which is held by BSI.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by June 2023, and conflicting national standards shall be withdrawn at the latest by November 2025.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. CEN shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 13229:2001 as amended and corrected. In relation to EN 13229:2001 as amended and corrected the following changes have been made:

- measurement methods for NO<sub>x</sub>, hydrocarbon and particulate matter emissions for solid fuel burning appliances;
- specifications for classification of solid fuel burning appliances and system boundaries for room sealed appliances;
- requirements for the safety of solid fuel burning appliances with water-bearing components added;
- Annex ZA updated according to requirements of M/577;
- energy efficiency and energy class labelling and seasonal space heating efficiency added;
- requirements for environmental sustainability added.

This document has been prepared under a standardization request given to CEN by the European Commission and the European Free Trade Association.

For relationship with (EU) Regulation 305/2011, see informative Annex ZA, which is an integral part of this document.

The structure of EN 16510, *Residential solid fuel burning appliances*, is as follows:

- Part 1: *General requirements and test methods*;
- Part 2-1: *Roomheaters*;
- Part 2-2: *Inset appliances including open fires*;
- Part 2-3: *Cookers*;
- Part 2-4: *Independent boilers — Nominal heat output up to 50 kW*;
- Part 2-5: *Slow heat release appliances*;
- Part 2-6: *Mechanically by wood pellets fed roomheaters, inset appliances and cookers*.

Other sections of Part 2 will be added to cover residential solid fuel burning appliances not included in parts 2-1 to 2-6.

Subclauses and Figures which are additional to those in EN 16510-1:2022 are numbered starting with 201. Annexes which are additional to those in EN 16510-1:2022 are numbered starting with BA.

Any feedback and questions on this document should be directed to the users' national standards body. A complete listing of these bodies can be found on the CEN website.

According to the CEN-CENELEC Internal Regulations, the national standards organisations of the following countries are bound to implement this European Standard: 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 the United Kingdom.

## 1 Scope

This document is applicable to inset appliances including open fires for solid fuel (hand fed solid fuel fired inset appliances, with or without functional modification, that operate without fire doors or operate with fire doors either as closed only or as closed or open, and also includes open fires fired by solid fuel).

The intended use of the appliances is space heating in residential buildings. They can be fitted with a boiler (integral part of the appliance containing water to be heated up) for the supply of hot water for central heating systems.

The surround of these appliances is integrated with the building with the exception of free-standing appliances and those inset appliances which are installed into a fireplace recess or enclosure.

These appliances can burn one or more types of the following solid fuels as specified:

- wood logs;
- compressed untreated wood;
- wood pellets;
- lignite briquettes;
- solid mineral fuels;
- peat briquettes.

This document is also applicable to Kachelofen/Putzofen inset appliances, having nominal heat outputs up to 15 kW.

This document is not applicable to appliances with fan assisted combustion air or appliances that are mechanically fed.

Open fireplace components such as a bottomgrate with associated fire front which are intended for installation into an existing heat resistant, insulated firebox are not covered by this document.

This document specifies procedures for assessment and verification of constancy of performance (AVCP) of characteristics of solid fuel burning inset appliances including open fires.

## 2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes requirements of this document.

EN 15804:2012+A2:2019, *Sustainability of construction works — Environmental product declarations — Core rules for the product category of construction products*

EN 16510-1:2022 *Residential solid fuel burning appliances — Part 1: General requirements and test methods*

## 3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 16510-1:2022 apply.

ISO and IEC maintain terminology databases for use in standardization at the following addresses:

- ISO Online browsing platform: available at <https://www.iso.org/obp>
- IEC Electropedia: available at <https://www.electropedia.org/>