



BSI Standards Publication

Residential solid fuel burning appliances

Part 2-10: Multi-firing sauna stoves fired by natural wood logs

This is a preview of BS EN 16510-2-10:2025. [Click here to purchase the full version from the ANSI store.](#)

National foreword

This British Standard is the UK implementation of EN 16510-2-10:2025. It supersedes BS EN 15821:2010, which is withdrawn.

The UK participation in its preparation was entrusted to Technical Committee RHE/28, Domestic solid mineral fuel appliances.

A list of organizations represented on this committee can be obtained on request to its committee manager.

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EUROPÄISCHE NORM

May 2025

ICS 97.100.30

Supersedes EN 15821:2010

English Version

Residential solid fuel burning appliances - Part 2-10: Multi-firing sauna stoves fired by natural wood logs

Appareils de chauffage domestiques à combustible
solide - Partie 2-10: Poêles de sauna à allumage
multiple à bûches de bois naturelles

Häusliche Feuerstätten für feste Brennstoffe -
Mehrfach befeuerbare Saunaöfen zur Verfeuerung von
naturbelassenem Scheitholz - Anforderungen und
Prüfverfahren

This European Standard was approved by CEN on 11 May 2025.

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European foreword

This document (EN 16510-2-10:2025) 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of an identical text or by endorsement, at the latest by November 2025, and conflicting national standards shall be withdrawn at the latest by November 2025.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-CENELEC shall not be held responsible for identifying any or all such patent rights.

This document supersedes EN 15821:2010 as amended and corrected.

EN 16510-2-10:2025 includes the following significant technical changes with respect to EN 15821:2010:

- measurement methods for NO_x 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;
- Annex ZA updated according to requirements of M/577 and its amendments;
- Assessment and verification of constancy of performance – AVCP 3+ added;
- requirements for environmental sustainability added.

This document has been prepared under a standardization request given to CEN by the European Commission. The Standing Committee of the EFTA States subsequently approves these requests for its Member States.

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*;
- Part 2-7: *Combination appliances fired by wood logs and pellets*;
- Part 2-10: *Multi-firing sauna stoves fired by natural wood logs*.

Other sections of Part 2 will be added to cover residential solid fuel burning appliances not included in parts 2-1 to 2-7 and in 2-10.

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Subclauses and Figures which are additional to those in EN 16510-1:2022 are numbered starting with 1001. Annexes which are additional to those in EN 16510-1:2022 are numbered starting with JA.

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

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.

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1 Scope

This document is applicable to multi-firing sauna stoves for natural wood logs (in which the heating of stones are separated from and indirectly heated by the fire and the flue gases and which may be re-fuelled with several fuel loads).

The intended use of the appliances is space heating in residential buildings. The space heated is sauna room which is heated higher-than-normal room temperature for wellbeing and bathing purposes, for short period of time.

These multi-firing sauna stoves may be supplied either as an assembled appliance or as a manufacturer's pre-designed unit consisting of prefabricated components designed to be built on site in accordance with the manufacturer's specified assembly instructions.

These appliances can burn the following solid fuels as specified:

- wood logs;

This document is not applicable to:

- appliances that are mechanically fed;
- appliances with fan assisted combustion air;
- single-firing heat storage sauna stoves, in which the stones are directly heated by the fire and the flue gases, which pass through them;
- one off installations;
- appliances incorporating a boiler or connected to a water system.

This document specifies procedures for assessment and verification of constancy of performance (AVCP) of characteristics of multi firing sauna stoves.

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*

EN 16510-2-4:2022, *Residential solid fuel burning appliances - Part 2-4: Independent boilers - Nominal heat output up to 50 kW*

3 Terms and definitions

For the purposes of this document, the terms and definitions given in EN 16510-1:2022 and the following 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/>