SLOVENSKI STANDARD
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Grelne naprave na trdna goriva za stanovanjske stavbe - 2-8. del: Sobni grelniki z gravimetričnim dovajanjem peletov

Residential solid fuel burning appliances - Part 2-8: Gravimetrically pellet-fed room heaters

Häusliche Feuerstätten für feste Brennstoffe - Teil 2-8: Gravimetrisch beschickte Raumheizer

Equipement de chauffage domestique - Partie 2-8 : Poêles à pellet alimenté par gravimétrie

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Residential solid fuel burning appliances - Part 2-8: Gravimetrically pellet-fed room heaters

Equipement de chauffage domestique - Partie 2-8 : Poêles à pellet alimenté par gravimétrie

Häusliche Feuerstätten für feste Brennstoffe - Teil 2-8: Gravimetrisch beschickte Raumheizer

This draft European Standard is submitted to CEN members for enquiry. It has been drawn up by the Technical Committee CEN/TC 295.

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

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European foreword

This document (prEN 16510-2-8:2026) has been prepared by Technical Committee CEN/TC 295 “Residential solid fuel burning appliances”, the secretariat of which is held by BSI.

This document is currently submitted to the CEN Enquiry.

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 2-8: *Gravimetrically pellet-fed roomheaters*.

Other sections of Part 2 will be added to cover residential solid fuel burning appliances not included in parts 2-1 to 2-8.

Subclauses and Figures which are additional to those in EN 16510-1:2022 are numbered starting with 801. Annexes which are additional to those in EN 16510-1:2022 are numbered starting with HA.

1 Scope

This document is applicable to gravimetrically pellet-fed room heaters, inset appliances and cookers.

The intended use of the appliances is space heating in residential buildings and can be cooking.

These appliances burn wood pellets only as specified in EN ISO 17225.

This document is not applicable to appliances which are in addition intended for non-gravimetrically fuelling with wood logs (e.g. from the front on top of the burner pot or even if a cover of the burner pot is provided and intended to be used).

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

This document is not applicable to appliances that can operate with fire door open.

This document specifies procedures for assessment and verification of constancy of performance (AVCP) of characteristics of solid fuel burning room heaters.

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 with the following additions.

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/

3.801
gravimetrically pellet-fed room heater
appliance with a closed combustion chamber burning wood pellets on basis of a gravimetrical feeding of fuel from a hopper into the combustion chamber

3.802
feeding chute
space on the bottom of the hopper where the fuel is lead into the combustion chamber

3.803
retort
(burner pot)
vessel forming the firebox of the appliance into which the fuel is gravimetrically fed from the fuel hopper and in which it is burned

3.804
layer height limiter
slider in the feeding chute that limits the amount of fuel being gravimetrically fed into the retort

4 Characteristics

4.1 Load bearing capacity

The performance of the appliance in relation to the ability to carry a chimney shall be determined in accordance with EN 16510-1:2022, 4.6.

If for an appliance with an upper outlet the ability to carry a chimney is specified the value of the maximum load is to be given in [kg] as an integer according to EN 16510-1:2022, Table 22, no. 57 (m_{chim}).

4.2 Protection of combustible materials

The performance of the appliance in relation to protection of combustible materials shall be determined in accordance with EN 16510-1:2022, 5.6.

When tested in accordance with EN 16510-1:2022, 5.6, the protection measure(s) as specified according to Table 1 shall be given as minimum distance to combustible materials and if appropriate as material type and thickness of protective insulation material.

The protection measures as specified shall be given in [mm] as an integer according to EN 16510-1:2022, Table 22, no. 33, 34, 35, 36, 37, 38, 39 and 41 (d_R, d_S, d_C, d_P, d_F, d_L, d_B, s).

Table 1 — Protection of combustible materials

Protection measure	**Declared clearance distance to combustible material or thickness of protective insulation material** [mm]	**Protective insulation material if any**
Minimum distance to combustible materials - bottom (d_B)		-
Minimum distance to combustible materials – floor in front (d_F)		-
Minimum distance to combustible materials – ceiling (d_C)		-
Minimum distance to combustible materials – rear (d_R)		-
Minimum distance to combustible materials – side (d_S)		-
Minimum distance to combustible materials – side radiation area (d_L)		-