



**SLOVENSKI STANDARD**  
**oSIST prEN 16510-2-1:2021**  
**01-april-2021**

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**Stanovanjske grelne naprave na trdna goriva - 2-1. del: Grelniki prostorov**

Residential solid fuel burning appliances - Part 2-1: Roomheaters

Häusliche Feuerstätten für feste Brennstoffe - Teil 2-1: Raumheizer

Equipement de chauffage domestique - Partie 2-1 : Poêles

**Ta slovenski standard je istoveten z: prEN 16510-2-1**

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**ICS:**

97.100.30      Grelniki na trdo gorivo      Solid fuel heaters

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EUROPEAN STANDARD  
NORME EUROPÉENNE  
EUROPÄISCHE NORM

**DRAFT**  
**prEN 16510-2-1**

April 2021

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## Residential solid fuel burning appliances - Part 2-1: Roomheaters

Équipement de chauffage domestique - Partie 2-1 :  
Poêles

Häusliche Feuerstätten für feste Brennstoffe - Teil 2-1:  
Raumheizer

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

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.

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

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

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**prEN 16510-2-1:2021 (E)****European foreword**

This document (prEN 16510-2-1:2021) 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.

This document together with EN 16510-1:2021 and EN 16510-2-6 will supersede EN 13240:2001 as amended and corrected.

This document has been prepared under a standardization request given to CEN/CENELEC 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.

This Part 2-1 supplements or modifies the corresponding clauses in prEN 16510-1:2021, so as to convert that publication into the European Standard: *Residential solid fuel burning appliances – Requirements and test methods for roomheaters*.

This document is expected be used in conjunction with prEN 16510-1:2021. This document refers to Clauses of prEN 16510-1:2021 or adapts Clauses by stating “with the following modification”, “with the following addition”, “is replaced by the following” or “shall not be applicable” in the corresponding Clause. This document adds Clauses or Subclauses to the structure of prEN 16510-1:2021 which are particular to this document.

Subclauses and Figures which are additional to those in prEN 16510-1:2021 are numbered starting with 101. Annexes which are additional to those in prEN 16510-1:2021 are numbered starting with AA.

## 1 Scope

This document is applicable to freestanding or inset roomheaters fired by solid fuel, without functional modification that operate with fire doors either as closed only or as closed or open.

The appliances covered by this document provide heat into the space where they are installed. Additionally, where fitted with a boiler, they also provide domestic hot water and/or central heating.

These appliances can burn one or more types of the following solid fuels in accordance with the appliance manufacturer's instructions:

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

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

This document is used in conjunction with EN 16510-1 of which it is an integral part.

## 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. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

prEN 16510-1:2021 *Residential solid fuel burning appliances — Part 1: General requirements and test methods*

## 3 Terms and definitions

For the purposes of this document, the definitions in prEN 16510-1:2021 apply.

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

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

## 4 Descriptive features

prEN 16510-1:2021, Clause 4, shall be applicable.

## 5 Appliances Performance requirements in relation to safety

prEN 16510-1:2021, Clause 5, shall be applicable.

**prEN 16510-2-1:2021 (E)****6 Appliances performance requirements in relation to the appliance operation**

prEN 16510-1:2021, Clause 6, shall be applicable with the following modification.

**6.7 Refuelling intervals**

prEN 16510-1:2021, 6.7, shall be applicable with the following modification.

Replacement of Table 12:

**Table 12 — Minimum refuelling intervals**

Appliance type	Test fuel type (as detailed in Table B.1)	Minimum refuelling interval or burning rate
<b>At nominal heat output</b>		
Continuous burning appliance	Wood logs, lignite briquettes or peat briquettes	1,5 h
	All other test fuels	4 h
Intermittent burning appliance	Wood logs, lignite briquettes or peat briquettes	40 min
	All other test fuels	1 h
<b>At slow combustion</b>		
Continuous burning appliance	Wood logs, lignite briquettes or peat briquettes	3 h
	All other test fuels	12 h
Intermittent burning appliance	Wood logs, lignite briquettes or peat briquettes	no requirements
	All other test fuels	10 h

**7 Appliance instructions**

prEN 16510-1:2021, Clause 7, shall be applicable.

**8 Sustainable use of natural resources**

prEN 16510-1:2021, Clause 8, shall be applicable.

**9 Assessment and verification of constancy of performance - AVCP**

prEN 16510-1:2021, Clause 9, shall be applicable.

**10 Marking and technical datasheet**

prEN 16510-1:2021, Clause 10, shall be applicable.



## Annex A (normative)

### Test methods

#### A.1 Test environment

prEN 16510-1:2021, A.1, shall be applicable.

#### A.2 Test assembly

prEN 16510-1:2021, A.2, shall be applicable.

#### A.3 Measurement equipment

prEN 16510-1:2021, A.3, shall be applicable.

#### A.4 Test procedures

prEN 16510-1:2021, A.4, shall be applicable with the following modification.

##### A.4.7 Performance test at nominal heat output

prEN 16510-1:2021, A.4.7, shall be applicable with the following modification.

##### A.4.7.1 General

prEN 16510-1:2021, A.4.7.1, shall be applicable with the following modification.

*Replacement of Table A.2:*

**Table A.2 — Minimum duration and minimum number of cycles**

Appliance	Fuel	cycles (1 batch)	
		Minimum duration	Minimum number
<b>At nominal heat output</b>			
Continuous burning	Wood	1,5 h	3
Continuous burning	Lignite briquettes and peat briquettes	1,5 h	2
Continuous burning	All other solid mineral fuel	4 h	2
Intermittent burning	Wood	40 min	3
Intermittent burning	Lignite briquettes and peat briquettes	40 min	2
Intermittent burning	All other solid mineral fuel	1 h	2
<b>At part load heat output</b>			
Continuous burning	Wood	-	3
Continuous burning	Lignite briquettes and peat briquettes	-	2

## prEN 16510-2-1:2021 (E)

Appliance	Fuel	cycles (1 batch)	
		Minimum duration	Minimum number
Continuous burning	All other solid mineral fuel	-	2
Intermittent burning	Wood	-	3
Intermittent burning	Lignite briquettes and peat briquettes	-	2
Intermittent burning	All other solid mineral fuel	-	2
<b>At slow combustion</b>			
Continuous burning	Wood, lignite briquettes, peat briquettes	3 h	1
Continuous burning	All other solid mineral fuel	12 h	1
Intermittent burning	Wood, lignite briquettes, peat briquettes	No requirement	
Intermittent burning	All other solid mineral fuel	10 h	1

**A.5 Test results**

prEN 16510-1:2021, A.5, shall be applicable.

**A.6 Calculation methods**

prEN 16510-1:2021, A.6, shall be applicable.

**A.7 Test report**

prEN 16510-1:2021, A.7, shall be applicable

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**Annex B**  
(normative)

**Test fuels and recommended fuels**

prEN 16510-1:2021, Annex B, shall be applicable.

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