



SLOVENSKI STANDARD
oSIST prEN 16510-2-1:2013
01-marec-2013

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

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

Häusliche Heizgeräte 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
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Will supersede EN 13240:2001

English Version

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

Équipement de chauffage domestique - Partie 2-1 : Poêles

Häusliche Heizgeräte 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.

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.

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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.

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EUROPEAN COMMITTEE FOR STANDARDIZATION
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Foreword

This document (prEN 16510-2-1:2013) 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 will supersede EN 13240:2001.

EN 13240:2001, EN 13229:2001, EN 12815:2001 and EN 12809:2001 will be totally superseded by EN 16510 series. The revision of these European Standards takes into account the comments received at their 5-year review.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EU Directive(s).

For relationship with EU Directive 89/106/EEC, 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*.

Principally it is possible to add further parts 2 at a later stage in order to cover other residential solid fuel burning appliances such as pellet stoves or slow heat release appliances.

This Part 2-1 is to be used in conjunction with the latest edition of EN 16510-1 and its amendments. It was established on the basis of prEN 16510-1:2013.

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

When a particular subclause of Part 1 is not mentioned in this Part 2-1, that subclause applies as far as is reasonable. When this Part 2-1 states "addition", "modification" or "replacement", the relevant text in Part 1 is to be adapted accordingly.

NOTE The following numbering system is used:

- subclauses, tables and figures that are numbered starting from 101 are additional to those in Part 1;
- unless notes are in a new subclause or involve notes in Part 1, they are numbered starting from 101, including those in a replaced clause or subclause;
- additional annexes are lettered AA, BB, etc.

prEN 16510-2-1:2013 (E)**1 Scope**

This Part 2-1 of EN 16510 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. This European Standard is also only applicable to non-mechanically fired roomheaters.

The appliances covered by this Part 2-1 of EN 16510 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 may burn either solid mineral fuels, peat briquettes, natural or manufactured wood logs or be multi-fuel in accordance with the appliance manufacturer's instructions.

This Part 2-1 of EN 16510 is not applicable to appliances with fan assisted combustion air or appliances that are mechanically fed.

2 Normative references

prEN 16510-1:2013, Clause 2, is applicable.

3 Terms and definitions

prEN 16510-1:2013, Clause 3 is applicable.

4 Classification of appliances and system boundary for roomsealed appliances

prEN 16510-1:2013, Clause 4, is applicable.

5 Materials, design and construction

prEN 16510-1:2013, Clause 5, is applicable. [ksIST FprEN 16510-2-1:2016
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6 Safety requirements

prEN 16510-1:2013, Clause 6, is applicable.

7 Performance requirements

prEN 16510-1:2013, Clause 7, is applicable with the following modifications.

7.3 Efficiency

prEN 16510-1:2013, 7.3, is applicable with the following modification.

Addition after the 1st paragraph:

The manufacturer's declared efficiency value shall be equal to or exceed 65 %.

7.6 Refuelling intervals

prEN 16510-1:2013, 7.6, is applicable with the following modification.

Replacement of Table 8:

Table 8 — Minimum refuelling intervals

Appliance type	Test fuel type (as detailed in Table B.1)	Minimum refuelling interval or burning rate
		Appliance with closed firedoors
At nominal heat output		
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
At slow or reduced combustion		
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

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8 Appliance instructions

prEN 16510-1:2013, Clause 8, is applicable.

9 Assessment and verification of constancy of performance - AVCP

prEN 16510-1:2013, Clause 9, is applicable.

10 Marking

prEN 16510-1:2013, Clause 10, is applicable.

Annex A (normative)

Test methods

A.1 Test environment

prEN 16510-1:2013, A.1. is applicable.

A.2 Test assembly

prEN 16510-1:2013, A.2, is applicable.

A.3 Measurement equipment

prEN 16510-1:2013, A.3, is applicable.

A.4 Test procedures

prEN 16510-1:2013, A.4, is applicable with the following modification.

A.4.7 Performance test at nominal heat output

prEN 16510-1:2013, A.4.7, is applicable with the following modification.

A.4.7.1 General

prEN 16510-1:2013, A.4.7.1, is applicable with the following modification.

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Replacement of Table A.2.

Table A.2 — Minimum duration and minimum number of test periods

Appliance	Fuel	Test period	
		Minimum duration	Minimum number
At nominal heat output			
Continuous burning	Wood, lignite briquettes, peat briquettes	1,5 h	2
Continuous burning	All other solid mineral fuel	4 h	2
Intermittent burning	Wood, lignite briquettes, peat briquettes	40 min	3
Intermittent burning	All other solid mineral fuel	1 h	2
At slow or reduced combustion			
Continuous burning	Wood, lignite briquettes, peat briquettes	3 h	2
Continuous burning	All other solid mineral fuel	12 h	2
Intermittent burning	Wood, lignite briquettes, peat briquettes	No requirement	
Intermittent burning	All other solid mineral fuel	10 h	2

A.5 Test results

prEN 16510-1:2013, A.5, is applicable.

A.6 Calculation methods

prEN 16510-1:2013, A.6, is applicable.

A.7 Test report

prEN 16510-1:2013, A.7, is applicable

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Annex B
(normative)

Test fuels and recommended fuels

prEN 16510-1:2013, Annex B, is applicable.

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Annex C
(informative)

Installation for roomsealed appliances

prEN 16510-1:2013, Annex C, is applicable.

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