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Residential wood logs burning appliances - Overload test procedures

Táto norma obsahuje anglickú verziu európskej normy.
This standard includes the English version of the European Standard.

Táto norma bola oznámená vo Vestníku ÚNMS SR č. 11/25

Táto predbežná slovenská technická norma je určená na overenie. Prípadné pripomienky pošlite do júla 2027 Úradu pre normalizáciu, metrológiu a skúšobníctvo Slovenskej republiky.

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TECHNICAL SPECIFICATION

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CEN/TS 18163

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English Version

Residential wood logs burning appliances - Overload test procedures

Appareils de chauffage domestiques à bûches de bois - Mode opératoire de l'essai de surcharge

Häusliche Feuerstätten für feste Brennstoffe - Prüfverfahren für Überlastprüfungen

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

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Ref. No. CEN/TS 18163:2025 E

Contents

Page

European foreword 3

Introduction 4

1 Scope 5

2 Normative references 5

3 Terms and definitions 5

4 Overload test 5

4.1 General 5

4.2 Procedure 5

Bibliography 6

European foreword

This document (CEN/TS 18163:2025) has been prepared by Technical Committee CEN/TC 295 “Residential solid fuel burning appliances”, the secretariat of which is held by BSI.

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Introduction

All the standards of CEN/TC 295 deal with the field of residential heating and cooking appliances burning solid fuels covering the standardization of appliance construction, safety and commissioning requirements and performance requirements (e.g. heat outputs, efficiency and emissions) together with supporting test methods.

This document deals with a test procedure for an additional overload test for appliances as described in EN 16510-2-1:2022 and EN 16510-2-2:2022.

During the formal vote of the standard series an important issue was discovered which is not covered by the standard and standardization request M/577.

The “Overload” test covers a test which reflects a foreseeable use of the appliance higher than nominal heat output in opposite to the safety test which considers an expected worse case operation.

Reasons for higher fuel loads might be that for the user it is difficult to know the right amount of wood without using a scale since wood logs sizes vary. Another reason is that more heat might be demanded for shorter periods during colder weather conditions.

1 Scope

The overload test ensures the stove's performance remains consistent even when the use deviates from the nominal test requirements, by assessing its ability to handle a higher load of fuel compared to the standard nominal fuel load which occurs during the use phase.

This document specifies a test method for an additional overload test for appliances as described in EN 16510-2-1:2022 and EN 16510-2-2:2022.

This test procedure covers testing in addition a higher heat output than nominal heat output as described in EN 16510-1:2022.

2 Normative references

There are no normative references in this document.

koniec náhľadu – text ďalej pokračuje v platenej verzii STN