



BSI Standards Publication

**Installation of domestic heating and
cooking appliances burning wood and
solid mineral fuels – Specification**

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Published by BSI Standards Limited 2018

ISBN 978 0 580 95438 2

ICS 27.060.10; 97.040.20; 97.100.30

The following BSI references relate to the work on this document:

Committee reference RHE/28

Draft for comment 16/30347136 DC

Amendments/corrigenda issued since publication

Date

Text affected

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Summary of pages

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Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 31 October 2018. It was prepared by Technical Committee RHE/28, *Domestic solid mineral fuel appliances*. A list of organizations represented on this committee can be obtained on request to its secretary.

RHE/28 gratefully acknowledges the personal contributions of the late Christian Pedersen to the drafting of this and previous editions of BS 8303.

Supersession

This British Standard supersedes [BS 8303-1:1994](#), [BS 8303-2:1994](#) and [BS 8303-3:1994](#), which are withdrawn.

Information about this document

BS 8303 does not cover the design or installation of hot water heating systems or hot water supply systems. However, where the appliance involves hot water services, attention is drawn to BS EN 12828, BS EN 12831 and BS EN 14336.

Presentational conventions

The provisions of this standard are presented in roman (i.e. upright) type. Its requirements are expressed in sentences in which the principal auxiliary verb is “shall”.

Commentary, explanation and general informative material is presented in smaller italic type, and does not constitute a normative element.

Where words have alternative spellings, the preferred spelling of the Shorter Oxford English Dictionary is used (e.g. “organization” rather than “organisation”).

The drawings in [Figure 1](#) to [Figure 38](#) are not to scale.

Contractual and legal considerations

This publication does not purport to include all the necessary provisions of a contract. Users are responsible for its correct application.

Compliance with a British Standard cannot confer immunity from legal obligations.

In particular, attention is drawn to the following legislation and the need to comply with the conditions of any planning permission:

- The Building Regulations 2010 (England and Wales) (as amended) [\[1\]](#);
- The Building (Scotland) Regulations 2004 (as amended) [\[2\]](#);
- The Building Regulations (Northern Ireland) 2012 (as amended) [\[3\]](#);
- The Clean Air Act 1956 [\[4\]](#).

1 Scope

This British Standard specifies requirements for the design and installation of the following types of domestic heating and cooking appliances, rated up to 50 kW, burning wood, woody biomass and solid fuels in both new and existing buildings (see [Clause 6](#)):

- a) open fires;
- b) room heaters;
- c) free-standing cookers; and
- d) independent boilers.

The standard also specifies the procedures to be followed for on-site testing of the installations.

NOTE Where manufacturers' installation instructions are more onerous and give a higher level of safety, these take precedence over the requirements of this British Standard.

2 Normative references

The following documents are referred to in the text in such a way that some or all of their content constitutes provisions 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.

Standards publications

[BS 1251](#), *Open-fireplace components*

[BS 1252](#), *Specification for domestic solid mineral fuel-fired, free-standing cookers with or without boilers*¹

[BS 3376](#), *Specification for open fires burning solid mineral fuels with convection, with or without boilers*

[BS 4834](#), *Specification for inset open fires without convection with or without boilers, burning solid mineral fuels*

[BS 7671](#), *Requirements for Electrical Installations — IET Wiring Regulations*

[BS 8423](#), *Fireguards for fires and heating appliances for domestic use — Specification*

BS EN 303-5, *Heating boilers — Part 5: Heating boilers for solid fuels, manually and automatically stoked, nominal heat output of up to 500 kW — Terminology, requirements, testing and marking*

BS EN 1856-2, *Chimneys — Requirements for metal chimneys — Part 2: Metal flue liners and connecting flue pipes*

BS EN 12809, *Residential independent boilers fired by solid fuel — Nominal heat output up to 50 kW — Requirements and test methods*

BS EN 12815, *Residential cookers fired by solid fuel — Requirements and test methods*

BS EN 13229, *Inset appliances including open fires fired by solid fuels — Requirements and test methods*²

BS EN 13240, *Roomheaters fired by solid fuel — Requirements and test methods*

BS EN 15250, *Slow heat release appliances fired by solid fuel — Requirements and test methods*

BS EN 15287-1, *Chimneys — Design, installation and commissioning of chimneys — Part 1: Chimneys for non-roomsealed heating appliances*

¹ Withdrawn

² This document gives an informative reference to BS EN 13229:2001+A2:2004.

BS EN 50291-1, *Electrical apparatus for the detection of carbon monoxide in domestic premises – Part 1: Test methods and performance requirements*³

Other publications

[N1] DEPARTMENT FOR COMMUNITIES AND LOCAL GOVERNMENT. *Domestic Building Services Compliance Guide*. Newcastle Upon Tyne: NBS, RIBA Enterprises Ltd., 2013.

[N2] DEPARTMENT FOR COMMUNITIES AND LOCAL GOVERNMENT. *Building Regulations 2010 Approved Document J, Combustion appliances and fuel storage systems 2010, incorporating 2010 and 2013 amendments*. Newcastle Upon Tyne: NBS, RIBA Enterprises Ltd., 2016.

3 Terms and definitions

For the purposes of this British Standard, the following terms and definitions apply.

3.1 competent person

person registered with a competent person scheme operator, who has been assessed by the scheme operator to be technically competent in the installation of solid fuel appliances and is able to self-certify their installations, which are then notified to the local authority via the scheme operator

NOTE The competent person may be registered to carry out only certain types of solid fuel installation work, such as dry stove installations or stoves with boilers. It is necessary to check whether the competent person is registered for the type of work being carried out.

3.2 connecting flue pipe

component(s) that conveys the flue gases from the flue outlet of the appliance to the the start of the flue in the chimney system

3.3 dedicated external air supply (DEAS) appliance

appliance that takes some or all of the combustion air from outside the building via an air supply duct

NOTE Such an appliance either:

- a) takes part of the combustion air from outside and part from within the room; or
- b) takes all of the combustion air through a duct fed from outside the dwelling.

3.4 Plate

3.4.1 closure plate

plate used to close the bottom of a masonry chimney that includes a metal flue liner and prevents debris falling from the void between the flue liner and masonry structure

NOTE A closure plate is used where an appliance is to be installed into an existing recess and the flue is to be modified, such as by installing a flexible or other liner that is connected directly to the appliance connecting flue pipe. This means that the products of combustion, such as flue gases and soot, cannot come into contact with the closure plate.

3.4.2 register plate

corrosion-resistant metal plate used to close the bottom of a masonry chimney and provide connection to the connecting flue pipe

NOTE A register plate is used where an appliance is to be installed in an existing fireplace recess and the flue is to be used in its current state with no additional liner being installed. This means that the products of combustion, such as flue gasses and soot, can come into contact with the register plate.

³ This document gives an informative reference to BS EN 50291-1:2018.