

Specification for the installation and maintenance of gas fires, convector heaters, fire/back boilers and decorative fuel effect gas appliances —

**Part 2: Inset live fuel effect gas fires
of heat input not exceeding 15 kW,
and fire/back boilers (2nd and 3rd
family gases)**

ICS 97.100.20

Committees responsible for this British Standard

The preparation of this British Standard was entrusted to Technical Committee GSE/30, Gas installations (1st, 2nd and 3rd family gases), upon which the following bodies were represented:

Boiler and Radiator Manufacturers Association Ltd.

British Flue and Chimney Manufacturers Association

BSI Consumer Policy Committee

Catering Equipment Suppliers' Association

Centrica plc

Council for Registered Gas Installers

Department of Trade and Industry

Health and Safety Executive

Heating and Ventilating Contractors' Association

ICOM Energy Association

Institute of Domestic Heating and Environmental Engineers

Institution of Gas Engineers and Managers

L P Gas Association

Society of British Gas Industries

Co-opted members

This British Standard was published under the Authority of the Standards Policy and Strategy Committee on 13 April 2005

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First published July 1980
Second edition September 1991
Third edition July 2001
Fourth edition April 2005

The following BSI references relate to the work on this British Standard:
Committee reference GSE/30
Draft for Development
03/320605 DC

ISBN 978 0 580 50957 5

Amendments issued since publication

Amd. No.	Date	Comments
Amendment No. 1	30 November 2007	See foreword

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Foreword

This part of BS 5871 has been prepared under the direction of the Gas Standards Policy Committee and is a revision of BS 5871-2:2001, which is withdrawn.

This new edition of BS 5871-2 comes into effect on 11 July 2005.

This revision provides an update of the previous standard and has been extended to cover both the new development of inset live fuel effect gas fires combined with back boilers, fires with a direct flue connection, and includes requirements for fires installed in raised builders' openings (hole-in-the-wall fireplaces). In order to improve the layout of the standard, additional requirements for the installation of fire/back boilers and fire/back circulators are now specified in Clauses 15, 16, 17 and 18. BS 5871 continues to cover the different types of fuel effect appliances in a single series of British Standards, as follows:

- BS 5871-1: *Gas fires, convector heaters, fireback boilers and heating stoves (2nd and 3rd family gases).*
- BS 5871-2: *Inset live fuel effect gas fires of heat input not exceeding 15 kW and fireback boilers (2nd and 3rd family gases).*
- BS 5871-3: *Decorative fuel effect gas appliances of heat input not exceeding 20 kW (2nd and 3rd family gases).*
- BS 5871-4: *Independent gas-fired flueless space heaters for nominal heat input not exceeding 6 kW (2nd and 3rd family gases) (in the course of preparation).*

Amendment No. 1 provides advice on the installation of the types of direct flue connection fires known in the trade as “cassette fires”, which may be available with an optional flue kit that allows them to be installed to an unlined chimney under special conditions.

The start and finish of text introduced or altered by Amendment No. 1 is indicated in the text by tags **[A1]** **[A1]**. Minor editorial changes are not tagged.

To identify which part of BS 5871 to use when fitting an appliance which simulates a solid fuel fire, reference should be made to Figure 1 which serves to illustrate appliance types and link them to the appropriate part of BS 5871. It should be noted that the only fuel effect appliances covered by this part of BS 5871 are gas fires detailed in d) of the commentary and recommendations on Clause 5 of this standard.

The manufacturer's instructions supplied with fanned draught appliances in which the fan is either integral with the appliance or with the flue system will make reference to the appropriate part of BS 5871.

It should be noted that the only appliances covered by this part of BS 5871 are those that are “CE” marked. However, BS 5871-2 may also be referred to for the installation of used appliances, where appropriate, providing the manufacturer's instructions are available. In such circumstances, the installer should satisfy himself that the appliance is safe in construction and condition, and can be used without constituting a danger. Attention is drawn to Clause 5 concerning this particular aspect.

Arising from European standards harmonization, some British Standards appliance specifications are now being replaced by European Standards. One consequence of this process is that the reference clearance flue flow test, currently included in some of the British Standards covering the safety of appliances dealt with by BS 5871, will not be given in European appliance standards. This test has hitherto been used to determine the flue flow, under laboratory conditions, that an appliance will just clear its combustion products. The test has been used as a key factor in determining whether or not certain appliances of 7 kW¹⁾ heat input or less require purpose provided ventilation for their installation.

¹⁾ Due to tolerances, this applies to a heat input of 7 kW on both net and gross calorific value. See Clause 1, Scope, Note 3.

Although BS 5871 is an appliance installation standard, the drafting committee has decided to include the clearance flue test as an informative annex. It is hoped that this arrangement will provide Notified Test Houses under the Gas Appliance Directive with a continuing means to evaluate appliances for installation within the UK which claim that no purpose provided ventilation is necessary for their installation.

This standard allows manufacturer's instructions to specify a method of installation, testing, commissioning or maintenance which differs in points of detail from this standard. This reference to manufacturer's instructions is allowed only where it will result in at least an equivalent level of safety. In such circumstances, it is important that the manufacturer's instructions are followed.

NOTE 1 In the preparation of this standard, the opportunity has been taken to present it in the format of a practice specification as defined in PD 6501-1. This format allows the requirements of the specification to be supported by recommendations. To comply with this specification, the user has to comply with all its requirements. He may depart from recommendations but this would be his own responsibility and he would be expected to have good reasons for doing so.

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

Compliance with a British Standard does not of itself confer immunity from legal obligations.

In particular, attention is drawn to the following statutory regulations.

- The Gas Safety (Installation and Use) Regulations 1998 [1]
- The Gas Safety (Installation and Use) (Northern Ireland) Regulations 2004 [2]
- The Gas Appliances (Safety) Regulations 1995 [3]
- The Building Regulations 2000, as amended [4]
- The Building (Scotland) Regulations 2004 [5]
- The Building Regulations (Northern Ireland) Statutory Rules 2000, as amended [6]
- The Gas Safety (Application) Order (Isle of Man) 1996 [7]

Summary of pages

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