

Installation and maintenance of domestic gas cooking appliances (2nd and 3rd family gases) — Specification

ICS 97.040.20

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
LP Gas Association
Society of British Gas Industries
Co-opted members

The following body was also represented in the drafting of this standard, through subcommittees and panels:

Kitchen Specialists Association

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Foreword

This British Standard has been prepared by Technical Committee GSE/30. It supersedes BS 6172:1990, which is withdrawn.

In this revision, the layout has been modified to follow the systematic approach adopted in other gas installation standards. The revision provides an update of the previous version and has been updated to reflect changes in installation practice and legislation and also to include advice on dual-fuel cooking appliances and flued and unflued cooking ranges.

Manufacturers' instructions might specify a method of installation, testing and commissioning or maintenance that differs in points of detail from this standard. Manufacturers' instructions take precedence over this standard. This standard is applicable where manufacturers' instructions do not give specific advice.

The start and finish of text introduced or altered by Amendment No. 1 is indicated in the text by tags **A1** **A1**.

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 does not in 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 Appliance (Safety) Regulations 1995 [3]
- The Gas Cooking Appliances (Safety) Regulations 1989 [4]
- The Building Regulations 2000, as amended [5]
- The Building Standards (Scotland) Regulations 1990, as amended [6]
- The Building Regulations (Northern Ireland) 2000 [7]
- The Gas Safety (Application) (Isle of Man) Order 1996 [8]
- The Asbestos (Prohibition) Regulations 1992 [9]
- The Asbestos (Prohibition) (Amendment) Regulations 1999 [10]
- The Asbestos (Prohibition) (Amendment) Regulations 2003 [11]

Summary of pages

This document comprises of a front cover, an inside front cover, pages i and ii, pages 1 to 13 and a back cover

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1 Scope

This British Standard specifies the installation (see Note 1) and maintenance of domestic gas cooking appliances in domestic, commercial and industrial premises (see Note 2 and Note 3), including educational establishments (see Note 4). It is applicable to gas cooking appliances conforming to BS 5386-3 and BS 5386-4 and burning 2nd and 3rd family gases, and appliances conforming to BS EN 30-1.

It is not applicable to cookers with integral boilers used to provide central heating, which are covered in BS 6798.

It is recognised that this standard might be referred to for the installation of gas cooking appliances conforming to standards other than BS 5386-3, BS 5386-4 and BS EN 30-1. However, other criteria might also apply, such as surface temperatures, temperature rise of surroundings, appliance stability, etc., and these have to be taken into account in the method of installation.

NOTE 1 For the purposes of this standard, installation includes design, inspection and commissioning. It is recognised that each of these tasks can at times be performed by the same persons.

NOTE 2 As well as normally constructed dwellings, domestic premises include any permanently sited leisure accommodation vehicles, residential park homes and permanently moored boats. Particular and additional requirements exist for these categories of premises and can be found in IGE/UP/8 [12]. Neither this standard nor IGE/UP/8 [12] applies to gas installations in towed or motorised caravans.

NOTE 3 Where domestic cooking appliances are installed in commercial or industrial premises in conjunction with catering appliances, reference should be made to BS 6173, particularly with regard to ventilation and extraction.

NOTE 4 Additional information on installations in educational establishments is given in IGE/UP/11 [13].

2 Normative references

The following referenced documents are indispensable for the application 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.

BS 669-1, *Flexible hoses, end fittings and sockets for gas burning appliances — Part 1: Specification for strip-wound metallic flexible hoses, covers, end fittings and sockets for domestic appliances burning 1st and 2nd family gases.*

 Text deleted 

BS 5386-3, *Specification for gas burning appliances — Part 3: Domestic cooking appliances burning gas.*

BS 5386-4, *Specification for gas burning appliances — Part 4: Built-in domestic cooking appliances.*

BS 5482-1, *Domestic butane- and propane-gas-burning installations — Part 1: Specification for installations at permanent dwellings.*

BS 5440-1, *Installation and maintenance of flues and ventilation for gas appliances of rated input not exceeding 70 kW net (1st, 2nd and 3rd family gases) — Part 1: Specification for installation and maintenance of flues.*

BS 5440-2, *Installation and maintenance of flues and ventilation for gas appliances of rated input not exceeding 70 kW net (1st, 2nd and 3rd family gases) — Part 2: Specification for installation and maintenance of ventilation for gas appliances.*

BS 6891, *Specification for installation of low pressure gas pipework of up to 28 mm (R1) in domestic premises (2nd family gas).*

BS 7671, *Requirements for electrical installations — IEE Wiring Regulations.*

BS EN 30-1, *Domestic cooking appliances burning gas*

3 Terms and definitions

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

3.1

flexible connector

pipe with appropriate connector ends, designed to have a considerable degree of flexibility to facilitate the connection of a gas cooking appliance to an installation pipe and to allow the appliance to be moved a short distance without the need for disconnection

3.2

free-standing cooker

cooking appliance resting directly on the floor and comprising:

- a) a hotplate, including one or more burners or electric rings;
- b) one or more ovens, with or without a thermostat;
- c) possibly a grill and/or griddle

3.3

dual-fuel cooking appliance

cooking appliance that utilises both gas and electricity to provide the heat for the cooking process

3.4

cooking range

heavy duty cast iron cooker

3.5

hob

independent hotplate specifically designed to be installed into the kitchen work top

3.6

hotplate

appliance, or part of an appliance, comprising one or more covered or uncovered burners and designed to support cooking vessels

3.7

termination point

fitting on the installation pipework to which cooking appliances are connected

NOTE Where “the cooking appliance” is referred to in the text it might mean either a cooker, or a hotplate, oven, grill or griddle, or any combination of these in a single assembly.

4 Competence

4.1 Persons carrying out the design, installation and maintenance shall be competent.

4.2 The installation work shall be carried out by a business or self-employed person, who is a member of a “class of persons” approved for the time being by the Health and Safety Executive (HSE) as required by the Gas Safety (Installation and Use) Regulations [1].

COMMENTARY AND RECOMMENDATIONS ON CLAUSE 4.1 AND 4.2

At the time of publication, the body with HSE approval to operate and maintain a register of businesses who are members of a “class of persons” is the Council for Registered Gas Installers (CORGI). Therefore it is essential that all businesses or self employed gas installers are registered with CORGI.

Persons deemed competent to carry out gas work are those who hold a certificate of gas safety competence acceptable to CORGI which include (without limitation) the Accredited Certification Scheme (ACS) and the Gas Services S/NVQ that has been aligned to ACS.

4.3 Persons who design the installation shall have a knowledge and understanding of the standards and regulations that apply to ensure that the completed plans will produce a safe and satisfactory installation.