

Specification for

Installation of gas-fired overhead radiant heaters for industrial and commercial heating (2nd and 3rd family gases)

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Gas Standards Policy Committee (GSE/-) to Technical Committee GSE/30, upon which the following bodies were represented:

- British Flue and Chimney Manufacturers' Association
- British Gas plc
- Confederation for the Registration of Gas Installers
- Consumer Policy Committee of BSI
- Department of the Environment
- Department of Trade and Industry (Consumer Safety Unit, C A Division)
- Health and Safety Executive
- Institute of Domestic Heating and Environmental Engineers
- Institution of Gas Engineers
- Liquefied Petroleum Gas Industry Technical Association (UK)
- Society of British Gas Industries
- Trades Union Congress

The following bodies were also represented in the drafting of the standard, through subcommittees and panels:

- British Combustion Equipment Manufacturers' Association
- Coopted member
- Loss Prevention Council

This British Standard, having been prepared under the direction of the Gas Standards Policy Committee, was published under the authority of the Standards Board and comes into effect on 28 June 1991

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The following BSI references relate to the work on this standard:
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Foreword

This British Standard has been prepared under the direction of the Gas Standards Policy Committee. It is a revision of BS 6896:1987 which is superseded and withdrawn. This edition introduces technical changes to bring the standard up to date but it does not reflect a full review of the standard, which will be undertaken in due course. Attention is drawn particularly to technical changes to clauses **2, 6, 7, 9, 12 and 16**.

NOTE This standard has been prepared in the format of a practice specification as defined in PD 6501-1. This 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.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations. In particular, attention is drawn to:

- a) Statutory Instrument 1358:1984 (as amended). The Gas Safety (Installation and Use) Regulations 1984
- b) Statutory Instrument 1065:1985 (as amended). The Building Regulations 1985
- c) Statutory Instrument 1596:1981 (as amended). The Building Standards (Scotland) Regulations 1981
- d) The Health and Safety at Work etc. Act 1974
- e) The Electricity at Work Regulations 1989

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 10, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Section 1. General

1 Scope

This British Standard specifies requirements for the installation, inspection and commissioning of gas-fired overhead radiant heaters for the environmental heating of premises other than domestic dwellings. It applies to installations supplied with 2nd and 3rd family gases including mixtures of liquefied petroleum gas (LPG) and air.

Appendix A highlights points on which design/installation collaboration is essential.

NOTE 1 This standard does not apply to:

- a) heaters supplied with a heated fluid from a separate source;
- b) heaters supplied for process applications;
- c) portable or transportable heaters.

NOTE 2 The titles of the publications referred to in this standard are listed on page 10.

2 Definitions

For the purposes of this British Standard, the definitions given in BS 1179:1967 and in BS 1179-6:1980 apply, together with the following.

2.1

hazardous area

a space in which explosive gas-air mixtures are or may be expected to be present in quantities such as to require special precautions for the construction, installation and use of electrical apparatus and fuel-fired appliances

NOTE See BS 5345-2 and BS 6467-2.

2.2

high-level ventilation

ventilation above the level of the heater
(See also 7.3.3.)

2.3

low-level ventilation

ventilation below the level of the heater
(See also 7.3.3.)

2.4

overhead radiant heater

a gas-fired appliance intended for installation above head level and designed to heat, mainly by radiation, the space in which it is installed

2.5

overhead radiant tube heater

an overhead radiant heater in which a tube or series of connected tubes are heated by the internal passage of combustion products

2.6

overhead luminous radiant heater

an overhead radiant heater in which the heat is produced by means of burning the fuel gas at or near the outer surface of a material such as a ceramic plaque or metal gauze