



BSI Standards Publication

Specification for the installation and maintenance of low pressure gas installation pipework of up to 35 mm (R1¼) on premises

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Summary of pages

This document comprises a front cover, and inside front cover, pages i to iv, pages 1 to 91, an inside back cover and a back cover.

Foreword

Publishing information

This British Standard is published by BSI Standards Limited, under licence from The British Standards Institution, and came into effect on 30 November 2015. It was prepared by Panel GSE/30/-/3, *Domestic installation pipes*, under the authority of Technical Committee GSE/30, *Gas Installations (1st, 2nd and 3rd family gases)*. A list of organizations represented on this committee can be obtained on request to its secretary.

NOTE 1 The standard now covers the main installation requirements for 3rd family gas installations that were previously covered by BS 5482-1.

NOTE 2 The general installation requirements for 3rd family gas installations specified in this standard also apply to gas installations supplied with LPG/air mixtures used in the Channel Islands or the Isle of Man, provided that:

- any gas equipment being installed has been appropriately converted and is suitable for the gas being supplied; and
- the requirements of the standard do not conflict with local regulations or authorized local custom and practice.

Supersession

BS 6891:2015+A1:2019 supersedes BS 6891:2015, which is withdrawn.

BS 6891:2015 superseded BS 6891:2005+A2:2008, which has been withdrawn, and partially superseded BS 5482-1:2005, which has been partially withdrawn.

Information about this document

In this revision, the layout of the standard has been modified to follow the systematic approach adopted in other gas installation standards. The revision provides an update of the previous edition and has been updated to reflect changes in installation practice and legislation, and align with other appropriate standards. A number of other safety initiatives have also been included that have not previously been covered elsewhere in detail. The opportunity has also been taken to combine the pipework requirements for 2nd and 3rd family gas (natural gas and LPG) installations into a single standard for use by the gas industry.

Text introduced or altered by Amendment No. 1 is indicated in the text by the tags A1 A1. Minor editorial changes are not flagged.

Use of this document

It has been assumed in the preparation of this British Standard that the execution of its provisions will be entrusted to appropriately qualified and experienced people, for whose use it has been produced.

Users of this British Standard are advised to consider the desirability of selecting products for which independent quality assurance certification against the appropriate product manufacture standard has been obtained.

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 notes in smaller italic type, and does not constitute a normative element.

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 this British Standard cannot confer immunity from legal obligations.

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 Safety (Installation and Use) Regulations 1994, as amended and applied by the Gas Safety (Application) (Isle of Man) Order 1996 [3];
- The Health and Safety (Gas) (Guernsey) Ordinance 2006 [4];
- The Building Regulations 2010 (England and Wales), as amended [5];
- The Building Regulations (Northern Ireland) 2012 [6];
- The Building (Scotland) Regulations 2004, as amended [7];
- The Gas Safety (Management) Regulations 1996 [8];
- The Gas Safety (Management) Regulations (Northern Ireland) 1997 [9].

1 Scope

This British Standard specifies the design, installation, commissioning and maintenance of gas installation pipework carrying 2nd and 3rd family gas of up to 35 mm (R 1¼) on premises, including residential park homes (2nd and 3rd family gas) and caravan holiday homes (2nd family gas) (see [Table 1](#) and examples in [Figure 1](#) to [Figure 3](#); see also [Figure 4](#)).

NOTE 1 The principles of the standard can also be applied to the design, installation, commissioning and maintenance of gas installation pipework carrying 1st family gas.

NOTE 2 [Annex A](#) gives a method for calculating pipe sizes. [Annex B](#) discusses the sulfidation of natural gas installations, while [Annex C](#) summarizes the conclusions of a report on gas in intermediate floors. Guidance on determining whether an area can be deemed a “protected area” is given in [Annex D](#). Requirements for LPG final stage regulator and safety devices are specified in [Annex E](#). [Annex F](#) discusses the need for gas pipework design and installation for commercial installations to satisfy regulatory requirements regarding explosive atmosphere.

This British Standard is not applicable to:

- a) service pipework and distribution systems;
- b) pipework contained within an appliance;
- c) bulk storage vessels;
- d) LPG pipework installed in leisure accommodation vehicles and for accommodation purposes in vehicles in accordance with BS EN 1949;
- e) boats, yachts and other vessels;
- f) gas pipework supplying or within appliances having their own gas supply, such as mobile heaters; or
- g) gas pipework supplying or within catering establishments covered by BS 6173.