

Glossary of

Building and civil engineering terms —

Part 3: Services —

Section 3.1 Energy sources and
distribution

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Contents

	Page
Foreword	ii
310 1 Base terms	1
310 2 Gas	1
310 21 Gases	1
310 22 Supply	2
310 23 Metering	3
310 24 Installation	3
310 25 Appliances	3
310 3 Oil	4
310 31 Oils	4
310 32 Storage	5
310 33 Installation	5
310 34 Equipment	6
310 4 Solid fuel	6
310 41 Solid fuels	6
310 42 Storage	6
310 43 Installation	6
310 44 Appliances	7
310 5 Electricity	8
310 51 Electric power	8
310 52 Supply	8
310 53 Circuits	9
310 54 Conductors	9
310 55 Connections	10
310 56 Switches	11
310 57 Protection	11
310 58 Outlets	12
310 6 Other energy sources	12
310 61 Solar energy	12
310 62 Nuclear energy	13
310 7 District heating	14
310 8 Flues	15
310 81 Base terms	15
310 82 Design	15
310 83 Flue systems	15
310 84 Fittings	16
310 85 Testing	16
310 9 Boilers	16
Index	17
Publications referred to	Inside back cover

Foreword

This Section of Part 3 of BS 6100 has been prepared under the direction of the Basic Data and Performance Criteria for Civil Engineering and Building Structures Standards Committee.

The terms included in this Section are considered relevant to building and civil engineering. It does not cover terms and definitions dealing with the more specialized aspects of fuel, for which reference should be made, for gas, to

BS 1179, *Glossary of terms used in the gas industry, for oil, to*

ISO 1998, *Petroleum industry — Vocabulary, for coal, to*

BS 3323, *Glossary of coal terms, and for electricity, to*

BS 4727, *Glossary of electrotechnical, power, telecommunication, electronics, lighting and colour terms.*

Note has also been taken of definitions included in IEC 50 “*International Electrotechnical Vocabulary*”¹⁾ published by the International Electrotechnical Commission (IEC). Definitions in this Section of terms that appear in the IECV are technically equivalent to them.

Terms and definitions for the more specialized aspects of solid fuel burning equipment are to be found in

BS 1846 *Glossary of terms relating to solid fuel burning equipment*

A general introduction to and explanation of this glossary is given in Part 0 of BS 6100 which itemizes the Parts, Sections and Subsections into which this glossary is divided and provides a general alphabetical index of all the terms in the Sections and Subsections already published. Those using individual Sections and Subsections of this glossary are urged to consult Part 0 when doing so.

The other Sections of this Part are as follows:

3.2 Internal communication and transport

3.3 Sanitation

3.4 Lighting

Terms and definitions for heating, ventilating and air conditioning are to be found in BS 5643 “*Glossary of refrigeration, heating, ventilation and air conditioning terms*”, which deals with all aspects of the subjects and to which terms and definitions particularly relevant to building and civil engineering have been added.

Terms are listed alphabetically in the index and are referred to by numbers, which are found against the term in the body of the Section. There they are arranged in a classified order, each term having an individual number consisting of seven digits in two parts, the first of three digits, the second of four. The first three digits represent the number of the Part, Section and Subsection (in this case the third digit is 0 as there is no division into Subsections). The fourth digit represents the group of terms, the fifth digit represents the subgroup of terms, and the last two digits represent the place within the subgroup.

Alternative terms are given in medium type below the preferred terms with their status indicated, e.g. “deprecated”, “non-preferred”. These terms are not individually numbered, but are included in the index with a reference to the preferred term. Terms of more than one word, e.g. “smokeless fuel” are written in a direct style, not as “fuel, smokeless”. The inverted term is included in the index with a reference to the direct term.

¹⁾ Obtainable from BSI Sales Department, Linford Wood, Milton Keynes MK 14 6LE.

It has been considered necessary to repeat in this Section certain terms from Section 1.0 “General”. Where this occurs, the definitions of such terms are preceded by an asterisk^(a).

Italicized words in definitions indicate that they are defined elsewhere in this Section.

NOTE The titles of the publications referred to in this standard are listed on the inside back cover. 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.

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 22, 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.

310 1 Base terms

No.	Term	Definition
310 1001	fuel	Matter that can be used to produce heat by combustion or nuclear reaction.
310 1002	energy	Capacity for doing work.
310 1003	power	Rate of transfer of <i>energy</i> .
310 1004	installation	Assembly of materials and components placed in position to provide a service.
310 1005	distribution	Orderly dispersal of an <i>energy</i> medium or fluid between sources and points of use.
310 1006	appliance	Piece of equipment for occupants' use connected to an <i>installation</i> .
310 1007	Class 1 appliance	<i>Solid fuel appliance</i> or oil-burning <i>appliance</i> that has an output rating that does not exceed 45 kW, an incinerator that has a refuse combustion chamber that exceeds 0.03 m ³ but does not exceed 0.08 m ³ in capacity, or a <i>gas burning appliance</i> that simulates a <i>solid fuel open fire</i> and has an input rating not exceeding 60 kW and is not provided with an integral flueway that conveys products of combustion from a combustion space to a <i>flue</i> that serves the <i>appliance</i> .
310 1008	Class 2 appliance	<i>Gas burning appliance</i> that has an input rating that does not exceed 60 kW, and is not a <i>Class 1 appliance</i> , or an incinerator that has a refuse combustion chamber that does not exceed 0.03 m ³ in capacity.
310 1009	high rating appliance	<i>Oil burning appliance</i> that has an output rating that exceeds 45 kW, a <i>gas burning appliance</i> that has an input rating that exceeds 60 kW, or an incinerator that has a refuse combustion chamber that exceeds 0.08 m ³ in capacity.
310 1010	burner	Complete unit on which, or in certain cases in which, a flame is maintained.
310 1011	fire valve	Valve, provided in a pipe or line that carries flammable liquid or gas, designed to cut off supply, automatically or by a fire.
310 1012	underfloor primary air supply	Combustion air supplied to a heating <i>appliance</i> from an underfloor ventilated space, or by duct from outside a building.
310 1013	rated heat input	Manufacturer's declared heat input for an <i>appliance</i> .
310 1014	rated heat output	Manufacturer's maximum declared heat output for an <i>appliance</i> .

310 2 Gas

310 21 Gases

310 2101	gas	Gaseous <i>fuel</i> for domestic, commercial or industrial use.
310 2102	Wobbe number	Index of heat released when a <i>gas</i> is burned at a constant <i>gas</i> supply pressure, expressed by the ratio of gross calorific value of the <i>gas</i> to the square root of the density of the <i>gas</i> relative to air.

No.	Term	Definition
310 2103	family of gases	Range of <i>gases</i> characterized by having a <i>Wobbe number</i> within specified limits.
310 2104	first family gas	<i>Gas of Wobbe number</i> 24.4 MJ/m ³ to 28.8 MJ/m ³ under standard conditions. NOTE The standard conditions are specified in BS 4947.
310 2105	second family gas	<i>Gas of Wobbe number</i> 48.2 MJ/m ³ to 53.2 MJ/m ³ under standard conditions. NOTE The standard conditions are specified in BS 4947.
310 2106	third family gas	<i>Gas of Wobbe number</i> 72.6 MJ/m ³ to 87.8 MJ/m ³ under standard conditions. NOTE The standard conditions are specified in BS 4947.
310 2107	gas group	Subdivision of a <i>family of gases</i> . NOTE Details of the groups are given in BS 4947.
310 2108	natural gas	<i>Second family gas</i> that consists mainly of methane and occurs naturally in underground accumulations.
310 2109	liquefied petroleum gas	<i>Third family gas</i> that is a light hydrocarbon <i>fuel</i> , gaseous at normal temperatures and pressures, but capable of being kept in a liquid state by pressure to facilitate storage, transport and handling.
310 2110	commercial butane	<i>Liquefied petroleum gas</i> that consists predominantly of butane and/or butylenes (C ₄ hydrocarbons).
310 2111	commercial propane	<i>Liquefied petroleum gas</i> that consists predominantly of propane and/or propylene (C ₃ hydrocarbons).
310 22 Supply		
310 2201	gas main	Pipe, other than a <i>gas service pipe</i> or a pipe in the <i>gas installation pipework</i> , used to convey <i>gas</i> in a manufacturing or <i>distribution</i> system.
310 2202	gas governor	Device for automatic regulation of <i>gas</i> pressure or volume flow of <i>gas</i> .
310 2203	district gas governor	Outlet-pressure <i>gas governor</i> installed in a <i>distribution</i> system.
310 2204	gas meter governor	Outlet-pressure <i>gas governor</i> that is fitted between the <i>gas meter control</i> and the <i>gas meter</i> inlet.
310 2205	gas service pipe	Pipe, connected to a <i>gas main</i> to provide a supply of <i>gas</i> to one or more consumers, that terminates at and includes the primary <i>gas meter control(s)</i> .
310 2206	gas service riser	Length of <i>gas service pipe</i> that runs in a vertical direction.
310 2207	gas service valve	Valve in a <i>gas service pipe</i> outside a building.
310 2208	emergency gas control	Valve that enables a supply of <i>gas</i> to be shut off in an emergency.
310 2209	purging	Displacing an unwanted <i>gas</i> by another <i>gas</i> .

310 23 Metering

No.	Term	Definition
310 2301	gas meter	Device that measures, indicates and sometimes records, the volume of <i>gas</i> that passes through it, without interrupting the flow.
310 2302	primary gas meter	<i>Gas meter</i> that ascertains the quantity of <i>gas</i> that is supplied through a <i>gas service pipe</i> .
310 2303	gas meter compartment	Enclosure that accommodates a <i>gas meter</i> , associated connections and <i>gas meter controls</i> .
310 2304	gas meter box	Box designed and prefabricated as a <i>gas meter compartment</i> .
310 2305	gas meter control	Valve or cock fitted upstream of, and adjacent to, a <i>gas meter</i> to shut off the supply of <i>gas</i> to it.
310 2306	gas meter filter	Filter fitted between a <i>gas meter control</i> and a <i>gas meter</i> .
310 2307	flexible gas meter connection	Pipe, semi-rigid to allow for adjustment, that connects a <i>gas meter governor</i> to a <i>gas meter control</i> .
310 2308	gas pressure test point	Fitting provided for the connection of a <i>gas</i> pressure gauge.

310 24 Installation

310 2401	gas installation pipework	All components that form the route by which <i>gas</i> passes from a <i>primary gas meter</i> outlet connection to a point at which <i>appliances</i> are connected.
310 2402	installation riser	Vertical part of <i>gas installation pipework</i> .
310 2403	pedestal elbow restrictor elbow <i>deprecated</i>	Elbow fitting with restrictor and integral closure plug that can provide a temporary <i>gas</i> type seal.
310 2404	appliance flexible connection	Flexible pipe, with connector ends, that facilitates connection of an <i>appliance</i> to <i>gas installation pipework</i> and allows an <i>appliance</i> to be moved a short distance without disconnection.
310 2405	plug and socket connector	Two part valve used with an <i>appliance flexible connection</i> that allows connection or disconnection without escape of <i>gas</i> .
310 2406	gas soundness test	Test to check that <i>gas</i> leakage does not exceed a specified limit.

310 25 Appliances

310 2501	Category I appliance	<i>Gas</i> burning <i>appliance</i> designed exclusively for use with a single <i>family of gas</i> or possibly with <i>gases</i> of a single <i>gas group</i> at fixed supply pressure. NOTE Details of categories are specified in BS 4947.
310 2502	Category II appliance	<i>Gas</i> burning <i>appliance</i> designed for use with two <i>families of gas</i> at fixed supply pressure. NOTE Details of categories are specified in BS 4947.
310 2503	Category III appliance	<i>Gas</i> burning <i>appliance</i> designed for use with all three <i>families of gas</i> at fixed supply pressures. NOTE Details of categories are set out in BS 4947.