

BRITISH STANDARD

Building and civil engineering – Vocabulary

Part 12: Plant, equipment and persons

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Foreword

Publishing information

This part of BS 6100 is published by BSI and came into effect on 30 November 2008. It was prepared by Technical Committee B/500, *Basic data*. A list of organizations represented on this committee can be obtained on request to its secretary.

Supersession

This part of BS 6100 supersedes BS 6100-1.5.5:1991 and BS 6100-1.6:1985, which are withdrawn.

Relationship with other publications

BS 6100 consists of the following parts.

- *Part 0: Introduction and index.*
- *Part 1: General.*
- *Part 2: Spaces, building types, environment and physical planning.*
- *Part 3: Civil engineering – General.*
- *Part 4: Civil engineering – Transport.*
- *Part 5: Civil engineering – Water engineering, environmental engineering and pipelines.*
- *Part 6: Construction parts.*
- *Part 7: Services.*
- *Part 8: Work with timber and wood-based panels.*
- *Part 9: Work with concrete and plaster.*
- *Part 10: Contract terms.*
- *Part 11: Performance characteristics, measurement and joints.*
- *Part 12: Plant, equipment and persons.*

Information about this document

BS 6100 has been completely restructured and compiled on different principles than previously. Consequently, this part of BS 6100 represents a full revision of the standard.

A general introduction to and explanation of the BS 6100 vocabulary is given in BS 6100-0, which provides an alphabetical index of all the terms in all parts of BS 6100. It is intended that individual parts of BS 6100 are used in conjunction with BS 6100-0 because they do not contain indexes themselves.

BS 6100-1 reproduces verbatim ISO 6707-1 and provides a vocabulary of general terms for the building and civil engineering industry. It is essential that individual parts of BS 6100 are read in conjunction with BS 6100-1.

BS 6100 does not repeat (or provide alternatives for) terms defined in other standards or in other parts of BS 6100. However, it does refer to where definitions can be found and includes a bibliography of all referenced standards.

Presentational conventions

Details of the structure, layout and presentational conventions used in this part of BS 6100 are given in Clause 2.

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 a British Standard cannot confer immunity from legal obligations.

1 Scope

This part of BS 6100 defines terms for civil engineering that relate to:

- a) water engineering;
- b) inland waters, coastal and maritime engineering;
- c) public health and environmental engineering;
- d) pipelines and ducts.

2 Vocabulary structure

This part of BS 6100 does not contain its own index. Instead, a comprehensive index of terms is given in BS 6100-0. As a result, it is intended that this part of BS 6100 is used in conjunction with BS 6100-0.

The layout of this vocabulary is designed in accordance with ISO 10241 with terms arranged in a classified order and numbered in accordance with ISO 2145.

Each term has an individual number consisting of seven digits in two parts, the first of two digits, the second of five. Each number tells the following information about the term.

- a) The first two digits represent which part of BS 6100 the term belongs to.
- b) The third digit represents which group of terms it belongs to within the part.
- c) The fourth digit represents which subgroup of terms it belongs to within the group, as follows.
 - 1) Works.
 - 2) Parts.
 - 3) Materials.
 - 4) Activities.
 - 5) Processes.
 - 6) Plant, equipment and documentation.
 - 7) Properties.
 - 8) Spaces.
 - 9) Miscellaneous.
- d) The fifth to seventh digits determine the location of the term within the subgroup.

Bold words within a definition indicate terms that are defined elsewhere in this part of BS 6100, other parts of BS 6100 or other standards. Reference to where the term is defined is given in parenthesis after the bold word.

NOTE 1 References to terms defined in BS 6100-1 are shown giving only the part number, i.e. (01); references to terms defined in all other parts of BS 6100 are shown using their full reference number, e.g. (07 59005).

NOTE 2 Where more than one definition source could be referred to, the reference containing the definition of most general applicability is given.

Alternative terms are given in medium type below preferred terms which are given in bold type. All alternative terms have the status of being deprecated. Abbreviations are given in bold type below the terms to which they relate.

In the vocabulary, terms of more than one word are written in their natural word order, e.g. pedestal elbow, and the word order is not inverted, e.g. elbow, pedestal. However, inverted forms of a term are included in the index in BS 6100-0.

Terms are only given in the singular form, even when the plural form is more common (unless the term is only found in the plural form).

3 General terms (12 1xxxx)

- 12 16001 **hand tool**
tool (01) that receives **energy** (01) directly from the user
- 12 16002 **power tool**
tool (01) driven by electricity, compressed air or hydraulic fluid
- 12 16003 **base machine**
machine that requires addition of an **attachment** (01)
- 12 16004 **crawler tracks**
caterpillar tracks
continuous belt, formed from a linked series of parts, that enables a motor vehicle or machine to travel over a soft or unmade surface
- 12 16005 **drill**
tool (01) or **attachment** (01) that forms a cylindrical hole
- 12 16006 **bit**
attachment (01) for insertion into a **rotary tool** (01) or machine
- 12 16007 **drill bit**
bit (12 16006) for drilling a hole

4 Earth moving, excavating, blasting plant (12 2xxxx)

- 12 26001 **tractor**
self-propelled machine that exerts a force through an **attachment** (01) mounted on it or trailed from a **bar** (01)
- 12 26002 **agricultural tractor**
four-wheeled **tractor** (12 26001) with large rear wheels to enable it to operate on rough **ground** (01)
- 12 26003 **dozer equipment**
attachment (01) or part of a machine that consists of a front blade, its **frame** (01) and controls for positioning the blade
- 12 26004 **angling dozer**
dozer equipment (12 26003) with a blade that changes its position so the cutting edge is at an angle to the direction of travel

- 12 26005 straight dozer**
dozer equipment (12 26003) that maintains the cutting edge of the blade at right angles to the direction of travel
- 12 26006 excavator**
 self-propelled machine with an upper structure capable of 360 degrees rotation, that excavates, elevates, swings and dumps **materials** (01) by the action of a bucket
- 12 26007 hydraulic excavator**
excavator (12 26006) that utilizes hydraulic mechanisms
- 12 26008 rope-operated excavator**
excavator (12 26006) that is operated by **ropes** (01)
- 12 26009 face shovel**
 front shovel
excavator (12 26006) **attachment** (01) that consists of a bucket fixed to a boom, filled by moving it away from the machine and upwards
- 12 26010 drag shovel**
 backacter
rope-operated excavator (12 26008) **attachment** (01) that consists of a bucket fixed to a boom, filled by dragging it towards the machine
- 12 26011 drag line**
rope-operated excavator (12 26008) **attachment** (01) that consists of a bucket dragged towards the machine to fill it
- 12 26012 dump truck**
 hauler
 self-propelled wheeled machine that has an open body for transporting and dumping or spreading **material** (01)
- 12 26013 rear dump truck**
dump truck (12 26012) that discharges **material** (01) to the rear
- 12 26014 side dump truck**
dump truck (12 26012) that discharges **material** (01) to the side
- 12 26015 scraper**
 machine mounted on wheels, self-propelled or capable of being towed by a **tractor** (12 26001), that has a large bowl with a cutting edge for digging, transporting and dumping or spreading **material** (01)
- 12 26016 elevating scraper**
scraper (12 26015) with a powered mechanism for loading fixed to the bowl
- 12 26017 grader**
 self-propelled machine with an adjustable blade between front and rear axles for cutting, moving and spreading **material** (01)
- 12 26019 pile driver**
base machine (12 16003) with front end equipment for driving **piles** (01) and accommodating a **pile** (01) and piling **hammer** (BS EN 12699)

- 12 26020 ripper equipment**
equipment attached to, or drawn by, a **base machine** (12 16003), with one or more **tines** (12 86032), drawn through the **ground** (01) to break it up or loosen it
- 12 26021 hinge type ripper**
ripper equipment (12 26020) with **tines** (12 86032) whose angle to the **ground** (01) can be varied according to the working **depth** (01)
- 12 26022 parallelogram type ripper**
ripper equipment (12 26020) with **tines** (12 86032) whose angle to the **ground** (01) remains constant regardless of variation in working **depth** (01)
- 12 26023 variable geometry ripper**
ripper equipment (12 26020) with **tines** (12 86032) whose ripping angle to the **ground** (01) can be varied whilst keeping a constant working **depth** (01)
- 12 26024 trencher**
self-propelled machine for forming a **trench** (01) in a continuous operation
- 12 26025 skid steer machine**
self-propelled machine steered using variation of speed and/or direction of rotation between wheels on opposite sides of the machine on fixed axles
- 12 26027 grab bucket**
attachment (01) for **excavation** (01), hung from a **crane** (01) or **excavator** (12 26006), that consists of a split and hinged bucket with curved jaws or **tines** (12 86032) that dig while the bucket is dropped and move together to pick up **material** (01) while the bucket is raised
- 12 26028 off-set boom**
swivelling boom of a **hydraulic excavator** (12 26007), capable of being moved to one side of the machine's centre line
- 12 26029 mole plough**
vertical knife blade with a horizontal bullet **shape** (11 27004) at its lower end; it is pulled through the **ground** (01) to form a continuous hole for **electric** (07 17002) **cables** (01), **pipes** (01) or **drainage** (01)
- 12 26030 mole**
compressed air operated cylindrical equipment, often bullet shaped, that hammers the **soil** (01) face in front of it, to form a hole for a **service** (01), without disturbing the **ground** (01) surface
- 12 26031 side boom attachment**
lifting boom **attachment** (01) that can be fitted to the side **frame** (01) of a **tractor** (12 26001) with **crawler tracks** (12 16004)
- 12 26032 four-in-one bucket**
bucket fitted to a **base machine** (12 16003) that carries out four separate functions: digging, scraping, grabbing and loading

- 12 26033 small dumper**
rubber-wheeled motor vehicle with two large wheels in front and two small ones behind, with an open container for transporting **material** (01) over the large wheels
- 12 26034 high discharge skip dumper**
small dumper (12 26033) with a high pivot point for tipping **concrete** (01) into a bucket attached to a **crane** (01)
- 12 26035 swivel skip dumper**
small dumper (12 26033) with a tip that can be rotated through 180 degrees for discharging over either side
- 12 26036 bowser**
trailer with an enclosed tank for transporting a liquid
- 12 26037 power barrow**
pedestrian-controlled motorized wheelbarrow
- 12 26038 pallet truck**
machine that engages under a pallet, lifts it clear of the ground on casters at the front of its two **tines** (12 86032) so the pallet can be transported
- 12 26039 cutter boom**
hydraulically supported boom, on which is mounted one or more rotating cutters for **excavation** (01)
- 12 26040 rock drill**
drill (12 16005) for **rock** (03 23027)
- 12 26041 jackhammer drill**
light rotary percussive **rock drill** (12 26040)
- 12 26042 jackhammer**
compressed air tool (12 46011) that is a percussive **rock drill** (12 26040), either hand held or lightly supported
- 12 26043 air leg**
pneumatic cylinder, with **attachments** (01), that provides support and thrust for a **rock drill** (12 26040)
- 12 26044 drill steel**
steel **bar** (01) for drilling **rock** (03 23027), with a shank for insertion into a **rock drill** (12 26040) at one end and an integral or detachable **bit** (12 16006) at the other
NOTE The steel bar (01) is usually hexagonal.
- 12 26045 drilling rig**
structure (01) for supporting a **rock drill** (12 26040)
- 12 26046 core drill**
drill (12 16005) for cutting a cylinder from an in situ **material** (01)
- 12 26047 blasting mat**
heavy woven wire mesh blanket to restrain debris from flying in the air during **excavation** (01) with **explosives** (BS 5607)