

BRITISH STANDARD

Building and civil engineering – Vocabulary

Part 12: Plant, equipment and persons

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Contents

Foreword *ii*

- 1** Scope *1*
- 2** Vocabulary structure *1*
- 3** General terms (12 1xxxx) *2*
- 4** Earth moving, excavating, blasting plant (12 2xxxx) *2*
- 5** Movement of materials and support of people (12 3xxxx) *6*
- 6** Compacting machinery, air tools, compressors, pumps (12 4xxxx) *11*
- 7** Road, paving and vehicle maintenance plant (12 5xxxx) *12*
- 8** Tools (12 6xxxx) *14*
- 9** Specialized civil engineering plant (12 7xxxx) *18*
- 10** Site accommodation, site services and miscellaneous (12 8xxxx) *19*
- 11** Participants (12 9xxxx) *22*

Bibliography *26*

Summary of pages

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 26, an inside back cover and a back cover.

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This part of BS 6100 supersedes BS 6100-1.5.5:1991 and BS 6100-1.6:1985, which are withdrawn.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

- 12 26048 ohmmeter**
measuring instrument (BS 6953) for **electrical resistance** (11 27107) in ohms; also indicates continuity
- 12 26049 pricker**
sharpened non-ferrous **tool** (01) for making a hole in an **explosive** (BS 5607) to receive a **detonator** (BS 5607)
- 12 26050 shot firing cable**
flexible twin core **cable** (01) for connecting an **exploder** (BS 5607) to a **detonator** (BS 5607) at a safe distance
- 12 26051 ANFO loader**
machine for charging a **shot hole** (03 28001) with ammonium nitrate and fuel oil **explosive** (BS 5607)
- 12 26052 compressed air blow pipe**
non-ferrous **pipe** (01) with an **air valve** (05 42002) at one end for clearing out **shot holes** (03 28001) with compressed air
- 12 26053 stemming rod**
rod (01) for pushing **stemming** (BS 5607) into a **shot hole** (03 28001) and **compacting** (03 24008) it

5 Movement of materials and support of people (12 3xxxx)

- 12 36001 elevator**
machine that continuously transports **material** (01) from one **level** (01) to another at steep **slopes** (01) up to the vertical
NOTE Usually the material (01) is in granular or powder form.
- 12 36002 bucket elevator**
elevator (12 36001) that consists of buckets attached to an endless chain, or two linked chains
- 12 36003 screw conveyor**
conveyor (01) that consists of a **shaft** (01) with a helical screw blade that rotates within a fixed trough
- 12 36004 belt conveyor**
conveyor (01) that consists of a horizontal or gently sloping moving belt
- 12 36005 elevating conveyor**
belt conveyor (12 36004) with ribs or flights on the belt
- 12 36006 roller conveyor**
conveyor (01) that transports objects horizontally on a series of rollers
- 12 36007 jib crane**
crane (01) that has a **luffing jib** (12 36018) pivoted at a low **level** (01)
- 12 36008 derrick crane**
mast crane
crane (01) that consists of a **mast** (03 51007) capable of rotation, with a **luffing jib** (12 36018) pivoted from its foot

- 12 36009 scotch derrick crane**
derrick crane (12 36008) with **bracing** (01) to hold the top of the **mast** (03 51007) in position
- 12 36010 guy-derrick crane**
derrick crane (12 36008) with **guys** (03 52011) holding the top of the **mast** (03 51007) in position
- 12 36011 tower crane**
crane (01) that consists of a **lattice tower** (03 51006) of steel with a **jib** (12 36017) mounted on the top
- 12 36012 climbing crane**
tower crane (12 36011) supported by the **building** (01) or **structure** (01) within which it stands, and raised as the **height** (01) of the **building** (01) or **structure** (01) increases
- 12 36013 self-erecting tower crane**
tower crane (12 36011) that can be erected without using another crane (01)
- 12 36014 overhead travelling crane**
crane (01) that consists of one or two **girders** (01) mounted on travelling end carriages; the **hoist** (12 36026) or **chain block** (12 36037) traverses the **girder** (01)
- 12 36015 portal gantry crane**
crane (01) that consists of a **girder** (01) supported on legs running on **rails** (04 22051); a trolley and **hoist** (12 36026) or **chain block** (12 36037) traverses the **girder** (01)
- 12 36016 scaffold hoist**
small **jib crane** (12 36007) for mounting on a vertical **scaffold tube** (12 36047)
- 12 36017 jib**
component (01) of a **crane** (01) giving it reach and/or **height** (01) and from which the **load** (01) is suspended
- 12 36018 luffing jib**
jib (12 36017) that is pivoted to allow the inclination to be varied
- 12 36019 telescopic jib**
luffing jib (12 36018) that incorporates sliding extension elements
- 12 36020 saddle jib**
fixed horizontal or inclined **jib** (12 36017) carrying a trolley from which the **load** (01) is suspended
- 12 36021 swan neck jib**
jib (12 36017) with a forward offset in the upper part of the **structure** (01)
- 12 36022 fly-jib**
detachable extension at the end of a **jib** (12 36017)
- 12 36023 winch**
equipment for pulling a **load** (01) by means of a **rope** (01) or, when used in conjunction with an overhead pulley, for lifting

- 12 36024 friction winch**
winch (12 36023) that has a drum turned by a friction clutch
- 12 36025 geared winch**
winch (12 36023) that has a drum turned by gears
- 12 36026 hoist**
machine for lifting **materials** (01) or people, in one line only, usually vertically
- 12 36027 platform hoist**
hoist (12 36026) with a platform carrier
- 12 36028 passenger hoist**
platform hoist (12 36027) with a totally enclosed cage for passengers
- 12 36029 goods hoist**
platform hoist (12 36027) for carrying **materials** (01) and other goods
- 12 36030 barrow hoist**
rope-operated **goods hoist** (12 36029) for two barrow **loads** (01)
- 12 36031 rack and pinion hoist**
platform hoist (12 36027) with a driven pinion within the **platform** (BS EN 131-1) that engages in a rack built into a **mast** (03 51007)
- 12 36032 materials elevator**
mobile lightweight **hoist** (12 36026) with a modular or extendible ladder-type **mast** (03 51007) and a predetermined single point of **discharge** (01)
- 12 36033 ladder hoist**
hoist (12 36026) with a track in the form of a **ladder** (BS EN 131-1)
- 12 36034 shear legs**
portable supporting **frame** (01) used in lifting that consists of a set of two or three pin-jointed legs
- 12 36035 jack**
lifting equipment placed under a **load** (01) for raising or moving the **load** (01) a small distance
- 12 36036 skates**
wheeled lifting apparatus rolled under a **load** (01) to lift it a small distance off the **ground** (01) so it can be moved
- 12 36037 chain block**
geared lifting equipment with lifting chain
- 12 36038 gin**
apparatus for hoisting a heavy **load** (01), with a **frame** (01) and a single pulley around which fibre **ropes** (01) are wound
- 12 36039 lifting gear**
in lifting equipment, the **components** (01) for securing the **load** (01)
- 12 36040 crane weigher**
attachment (01) for a **crane** (01) for weighing a **load** (01)

- 12 36041 demolition ball attachment** (01) for a **crane** (01) in the form of a cast steel weight; for demolition
- 12 36042 lifting magnet attachment** (01) for a **crane** (01) in the form of an electromagnet; for lifting ferrous **materials** (01)
- 12 36043 sling**
loop or band for connecting a **load** (01) to a lifting hook
- 12 36044 test weight**
weight for proof **load** (01) testing of lifting equipment
- 12 36046 scaffold board boarding** (01) that serves as a **work platform** (12 36049) on a **scaffold** (01)
- 12 36047 scaffold tube**
metal **tube** (01), about 50 mm in diameter; the main structural **component** (01) of a **scaffold** (01)
- 12 36048 tower scaffold**
free-standing **scaffold** (01), rectangular or square on **plan** (ISO 10209-1)
- 12 36049 work platform platform** (BS EN 131-1) for carrying out work above ground **level** (01)
- 12 36050 cradle work platform** (12 36049) suspended on **ropes** (01)
- 12 36051 folding trestle**
two **frames** (01) hinged together, each fitted with cross bearers that support a **work platform** (12 36049)
- 12 36052 band stand**
self-supporting metal stand that is adjustable in **height** (01); it supports a specified number of **scaffold boards** (12 36046)
- 12 36053 safety belt**
belt to restrain the wearer during a fall and after the arrest of a fall
*NOTE From a safety viewpoint, a **safety harness** (12 36054) is preferred.*
- 12 36054 safety harness**
harness to restrain the wearer during a fall and after the arrest of a fall
- 12 36055 safety lanyard**
safety line
component (01) of **rope** (01), webbing, metal **cable** (01) or chain, for attaching a **safety harness** (12 36054) to a safe anchorage
- 12 36056 anchorage line component** (01) secured to a **structure** (01) by means of one or more safe anchorages and along which other safety equipment such as a **safety lanyard** (12 36055) can slide or be connected

- 12 36058 containment nets**
series of nets to control and prevent the fall of small objects or **tools** (01), to restrict dust or to provide protection against falling objects
- 12 36060 builders' pole ladder**
one-piece **leaning rung ladder** (BS EN 131-1) with **stiles** (BS EN 131-1) of half-round poles fitted with **rungs** (BS EN 131-1)
- 12 36061 shelf ladder**
one-piece **leaning rung ladder** (BS EN 131-1) with **steps** (BS EN 131-1) that are horizontal in use
- 12 36062 swing back steps**
pair of steps
standing step ladder (BS EN 131-1) ascendable on only one side, and with a **step** (BS EN 131-1) at the top
- 12 36063 platform steps**
standing step ladder (BS EN 131-1) with a **platform** (BS EN 131-1) at the top
- 12 36064 ladder backed steps**
standing step ladder (BS EN 131-1) with cross bearers at the back that are capable of supporting a **work platform** (12 36049)
- 12 36065 powered work platform**
machine operated from ground **level** (01) to lift and move a **work platform** (12 36049) into position
- 12 36066 mobile elevating work platform**
chassis-mounted **powered work platform** (12 36065)
- 12 36067 articulated boom mobile elevating work platform**
mobile elevating work platform (12 36066) with articulated boom
- 12 36068 telescopic boom mobile elevating work platform**
mobile elevating work platform (12 36066) with telescopic boom
- 12 36069 scissor lift mobile elevating work platform**
mobile elevating work platform (12 36066) that is raised and lowered vertically in a scissor-like motion
- 12 36070 fork lift truck**
wheeled motor vehicle with two horizontal steel prongs that can be raised and lowered; for loading, transporting and unloading packaged **material** (01) and **components** (01)
NOTE Most commonly used for transporting and stacking loaded pallets.
- 12 36071 rough terrain fork lift truck**
fork lift truck (12 36070) that can be used on uneven **ground** (01) and **slopes** (01)
- 12 36072 mast work platform**
powered work platform (12 36065) supported from one or more **masts** (03 51007) and capable of being raised and lowered vertically
- 12 36073 telescopic site handler**
motor vehicle with turntable and boom for **materials** (01) handling

6 Compacting machinery, air tools, compressors, pumps (12 4xxxx)

- 12 46001 compacting machine**
machine for consolidating **materials** (01)
- 12 46002 deadweight roller**
compacting machine (12 46001) that consists of one or more cylinders, passing over the **ground** (01) and using its own **weight** (11 27002) to achieve **compaction** (03 24008)
- 12 46003 smooth roller**
deadweight roller (12 46002) with smooth-surfaced cylinders
- 12 46004 sheepsfoot roller**
deadweight roller (12 46002) with a large number of radial projections fixed in rows to the cylinder or cylinders to increase **compaction** (03 24008) of **clay** (BS EN 12670) **soil** (01)
- 12 46005 grid roller**
towed **deadweight roller** (12 46002) with grids projecting from the cylinder or cylinders to increase **compaction** (03 24008)
- 12 46006 vibrating roller**
compacting machine (12 46001) that consists of one or more cylinders, subjected to an applied vibration
- 12 46007 pneumatic-tyred deadweight roller**
towed **deadweight roller** (12 46002) with axles for carrying rubber tyres and ballast to increase the weight
*NOTE Most often used for **compaction** (03 24008) of **fill** (01).*
- 12 46008 vibrating plate compactor**
compacting machine (12 46001) that consists of a vibrating plate (01)
NOTE Usually pedestrian operated.
- 12 46009 air compressor**
machine that compresses air and delivers it at high pressure
- 12 46010 air hose**
hose (12 66025) for compressed air
- 12 46011 compressed air tool**
pneumatic tool
power tool (12 16002) driven by compressed air
- 12 46012 breaker**
jackhammer
percussive **power tool** (12 16002) for breaking **rock** (03 23027), **concrete** (01) or other solid **material** (01)
- 12 46013 point**
steel pointed **attachment** (01) for a **breaker** (12 46012)
- 12 46014 asphalt breaker**
chisel-shaped **attachment** (01) for a **breaker** (12 46012)

- 12 46015 clay spade**
spade-shaped **attachment** (01) for a **breaker** (12 46012)
- 12 46016 self-priming pump**
centrifugal pump (01) that is able to draw a charge of water into the **impeller** (05 12128) chamber
- 12 46017 sump pump**
pump (01) that automatically raises the water accumulating in a **sump** (01)
- 12 46018 dewatering equipment**
equipment for **dewatering** (01)

7 Road, paving and vehicle maintenance plant (12 5xxxx)

- 12 56001 road heating unit**
machine for heating the surface of a **road** (01) with a flame or hot air
- 12 56002 paver**
paver finisher
self-propelled machine that is capable of accepting, spreading and partially compacting appropriate **materials** (01)
- 12 56004 coated chippings spreader**
machine for distributing **coated chippings** (04 13004) onto the surface of a **surface course** (BS 7533-4)
- 12 56005 gritter**
apparatus for spreading **grit** (BS EN 12670) and rock salt from a motor vehicle onto the surface of a **road** (01)
- 12 56006 crossing plate**
heavy steel **plate** (01) located temporarily across the open face of a **trench** (01) so vehicles may pass over it
- 12 56007 excavator mat**
heavy duty matting placed over a finished surface to prevent it being damaged by **crawler tracks** (12 16004)
- 12 56008 temporary roadway mat**
temporary **road** (01) of **timber** (01) and/or steel
- 12 56009 road line marking machine**
machine for **road marking** (01) with **paint** (01) or thermoplastic **material** (01)
- 12 56010 portable traffic signal**
temporary signalling system for controlling vehicle movements so as to maintain the **traffic flow** (04 19016) which would otherwise be impeded by **construction work** (01)
- 12 56011 traffic cone**
free-standing conical device made of rubber or flexible plastics for indicating the temporary delineation of **traffic lanes** (01) through **construction work** (01) on **roads** (01)

- 12 56012 traffic cylinder**
cylindrical shaped device made of rubber or flexible plastics, and fixed to **reflecting road studs** (04 12102), for indicating a temporary separation of **traffic lanes** (01)
- 12 56013 gully emptier**
gully sucker
motor vehicle with a large tank and a suction apparatus for drawing **silt** (03 23028) out of a **road gully** (07 42159) and up into the tank
- 12 56014 sewer jetter**
road jetter
motor vehicle or trailer with **high pressure water jetting equipment** (12 86027) for **cleaning** (06 84020) and descaling a **sewer** (01)
- 12 56015 brush sweeper**
motor vehicle with a motorized brush for sweeping a **carriageway** (01)
- 12 56016 suction sweeper**
motor vehicle with motorized brushes and suction equipment for **cleaning** (06 84020) a **carriageway** (01) or **footway** (01)
- 12 56017 road cleaning equipment**
motor vehicle with large tank of water; a full-width spray **bar** (01) is used to deluge a **carriageway** (01) with water
- 12 56018 cold planing equipment**
machine for removing **material** (01) from a **road** (01) surface to a set **thickness** (01) by planing or milling, and without the application of heat
- 12 56019 hot planing machine**
machine for removing **material** (01) from a **road** (01) surface to a set **thickness** (01) by planing or milling, incorporating a facility for heating the surface prior to planing
- 12 56020 road works sign**
temporary **traffic sign** (06 92006) made necessary by **construction works** (01) on a **road** (01)
- 12 56021 beacon**
device emitting a strobe beam, and intermittent amber light, to indicate the limits of a temporary obstruction to a **carriageway** (01)
- 12 56022 road danger lamp**
lamp (07 52022) that emits a steady or intermittent light to indicate to **traffic** (01) the limits of a temporary obstruction to a **road** (01)
NOTE The light is usually amber or red.
- 12 56023 flat traffic delineator**
one of several free-standing flat devices made of rubber or flexible plastics that resemble a **traffic cone** (12 56011) when viewed from a motor vehicle and serve the same purpose on a **dual carriageway road** (04 11007)

- 12 56024 pressure washer**
apparatus, including a **pump** (01) and nozzle, that delivers water under high pressure for **cleaning** (06 84020) a motor vehicle, **plant** (01) or surface
- 12 56025 steam cleaner**
apparatus, including a **pump** (01) and nozzle, that delivers high pressure steam for **cleaning** (06 84020) a motor vehicle or piece of equipment
- 12 56026 site wheel wash unit**
static facility for **cleaning** (06 84020) the wheels of a motor vehicle before it leaves the **site** (01) and goes onto the **highway** (01)
- 12 56027 air jack**
jack (12 36035) operated by compressed air
- 12 56028 hydraulic jack**
jack (12 36035) operated by hydraulic fluid
- 12 56029 scissor jack**
jack (12 36035) that is raised and lowered vertically in a scissor-like motion
- 12 56030 screw jack**
jack (12 36035) that is raised and lowered vertically in a spiral motion like that of a **screw** (01)

8 Tools (12 6xxxx)

- 12 66001 chasing machine**
machine for cutting rectangular slots in a **wall** (01)
NOTE Usually for electric (07 17002) cables (01).
- 12 66002 hammer**
hand tool (12 16001) that consists of a striking head held transversely on the end of a handle
- 12 66003 planer**
power tool (12 16002) or machine for levelling or smoothing a surface or for working a **run moulded section** (9 42024)
- 12 66004 router**
rotary **power tool** (12 16002) for hollowing out or cutting a groove in **timber** (01)
- 12 66005 sanding machine**
power tool (12 16002) for **cleaning** (06 84020) or smoothing a surface by abrasion
- 12 66006 staple gun**
hand tool (12 16001) that holds and drives **staples** (01) into a **substrate** (01)
NOTE Used principally to fasten sheets (01) to the substrate (01).

- 12 66007 cartridge fixing tool**
tool (01) for firing **pins** (01) and similar objects into an appropriate **material** (01), using an **explosive** (BS 5607) cartridge
- 12 66008 paint sprayer**
apparatus to atomize **paint** (01) and impel it onto a **substrate** (01)
- 12 66009 wallpaper stripper**
steam stripping appliance
apparatus to generate and direct steam onto **wall-covering** (01) to facilitate its removal
- 12 66010 pipe bender**
hand tool (12 16001) or machine for bending a **pipe** (01) without altering its circularity
- 12 66011 pipe cutter**
hand tool (12 16001) or machine for cutting a **pipe** (01) with one or more hard metal cutting discs
- 12 66012 pipe defrosting equipment**
electric (07 17002) apparatus for thawing a **pipe** (01)
- 12 66013 power pack**
portable apparatus that consists of a petrol or diesel engine driving a **pump** (01) providing hydraulic **energy** (01) to a **power tool** (12 16002)
- 12 66014 oxy-acetylene cutting/welding equipment**
apparatus for cutting or **welding** (BS 499-1) that employs a flame fuelled by a mixture of oxygen and dissolved acetylene gases
- 12 66015 oxygen lance**
thermic lance
apparatus for cutting or boring a hole using a steel **tube** (01) filled with wire wool; fuel gas is passed through the **tube** (01), and the end is kept alight with oxygen
- 12 66016 welding plant**
welding set
apparatus for making a **weld** (BS 499-1)
- 12 66017 arc welding plant**
welding plant (12 66016) that employs the heat from a luminous discharge occurring when **electric current** (11 27105) flows between two **electrodes** (12 66020) separated by a small gap and a high **electric potential difference** (11 27112)
- 12 66018 motor generator welding plant**
arc welding plant (12 66017) operated by **direct current** (BS 4727-1 Group 01) supplied by a **generator** (07 12034) and **electric** (07 17002) motor, directly connected
- 12 66019 engine driven welding plant**
arc welding plant (12 66017) with an engine and **generator** (07 12034)
- 12 66020 electrode**
rod (01), wire or metal **tube** (01) used to form an arc

- 12 66021 filler wire**
welding wire
coil of wire used as filler in a **weld** (BS 499-1)
- 12 66022 filler rod**
welding rod
rod (01) used as filler in a **weld** (BS 499-1)
- 12 66023 covered filler rod**
coated filler rod
filler rod (12 66022) with a covering of **flux** (BS 499-1)
- 12 66025 hose**
flexible **pipe** (01) for carrying fluids
- 12 66026 suction hose**
hose (12 66025), with spirally embedded wire to maintain the circularity, that is attached to the suction side of a **pump** (01)
- 12 66027 shot blasting equipment**
apparatus for projecting metal shot onto a surface to **clean** (06 84020) it; uses steel centrifugal impellers or compressed air
- 12 66028 grit blasting equipment**
sand blasting equipment
apparatus that uses compressed air to project abrasive particles, with or without water, onto a surface to smooth, **clean** (06 84020) or **etch** (06 84004) it
- 12 66029 axe**
tool (01) with a forged steel head sharpened to a cutting edge
- 12 66030 slater's axe**
short handled **axe** (12 66029) with a spike on the end of the head opposite to the cutting edge that is used to make a hole for a **nail** (01) in a **slate** (BS EN 12670)
- 12 66031 chisel**
hand tool (12 16001) with a straight cutting edge across the end
- 12 66032 wood chisel**
chisel (12 66031) for cutting **timber** (01), with a flat blade held in a **wood** (01) or plastics handle
- 12 66033 cold chisel**
chisel (12 66031) formed from a tempered steel **bar** (01)
- 12 66034 saw**
tool (01) or machine for the division of **material** (01) using a series of teeth with cutting edges arranged in line
- 12 66035 hand saw**
saw (12 66034) held in, and operated by, one hand
- 12 66036 circular saw**
saw (12 66034) in the form of a rotating circular disc blade with teeth around the periphery

- 12 66037 band saw**
power saw (12 66042) that consists of an endless toothed metal band running over and driven by two or more wheels
- 12 66038 hacksaw**
saw (12 66034) for cutting metal, that has a steel blade, with small hardened teeth, stretched tight in a **frame** (01)
- 12 66039 saw bench**
frame (01) that supports a cutting blade, a driving force and the **material** (01) being cut
- 12 66040 chain saw**
power saw (12 66042) with a **saw chain** (12 66041)
- 12 66041 saw chain**
cutting chain that consists of drive link cutters and side links held together by **rivets** (06 72054)
- 12 66042 power saw**
saw (12 66034) driven by electricity, compressed air or hydraulic fluid
- 12 66043 blow gun**
apparatus for controlling and directing a jet of air; it is connected to a supply of air and fitted with a **valve** (01)
- 12 66044 blow lamp**
small hand-held **burner** (07 12001), with inbuilt **fuel** (01) supply, that produces a powerful flame
- 12 66045 bolt cutter**
long-handled scissor-like **tool** (01) with short cutting blades
*NOTE Most suitable for cutting a **bolt** (01) or a **rod** (01).*
- 12 66046 grease gun**
tool (01) for supplying grease to a relatively inaccessible location; it consists of a grease container and a means of expelling the grease through a nozzle
- 12 66047 extrusion gun**
tool (01) that consists of a **sealant** (01) container and a means of extruding the **sealant** (01) through a nozzle
- 12 66048 grinding wheel**
abrasive wheel for smoothing, sharpening or polishing by friction or abrasion
- 12 66049 earth rammer**
hand tool (12 16001) for **consolidation** (03 25020) of loose earth
- 12 66050 screw extractor**
tapered spiral **bit** (12 16006) inserted into the core of a **screw** (01) to remove it
- 12 66051 screwdriver**
tool (01) for inserting or removing a **screw** (01)

- 12 66052 ratchet screwdriver**
screwdriver (12 66051) with a ratchet mechanism; in use, its head remains on the head of the **screw** (01) and the hand remains on the **screwdriver** (12 66051)
- 12 66053 spiral ratchet screwdriver**
screwdriver (12 66051) for inserting or removing a **screw** (01) simply by pushing
- 12 66054 spanner**
tool (01) for turning **fastenings** (01) with square or hexagonal heads
- 12 66055 punch**
 device with a steel shaft and a flat or pointed tip; when struck by a **hammer** (12 66002) the applied **force** (01) is concentrated at a point
*NOTE Used to form holes, knock a **fastening** (01) out of a hole, stamp a design, etc.*
- 12 66056 riveting hammer**
 percussive **compressed air tool** (12 46011) for closing a **rivet** (06 72054)
- 12 66058 secateurs**
tool (01) for **pruning** (06 14044); it is held in, and operated by, one hand

9 Specialized civil engineering plant (12 7xxxx)

- 12 76001 dredger**
 vessel for underwater **excavation** (01) and recovery of **excavated** (01) **material** (01)
- 12 76002 bucket ladder dredger**
dredger (12 76001) with a continuous chain of buckets on a movable arm
- 12 76003 grab dredger**
dredger (12 76001) with a **grab bucket** (12 26027)
- 12 76004 dipper dredger**
dredger (12 76001) with a bucket on a movable arm
- 12 76005 suction dredger**
dredger (12 76001) with suction **pumps** (01)
- 12 76006 cutter suction dredger**
suction dredger (12 76005) that agitates **material** (01) into suspension before raising it
- 12 76007 hopper barge**
barge (05 29144) for transporting dredged **material** (01)
- 12 76008 dumb hopper barge**
hopper barge (12 76007) without motive power

- 12 76009 hopper dredger**
dredger (12 76001), with storage capacity for dredged **material** (01), that can transport the **excavated** (01) **material** (01) to a desired location
- 12 76010 split hopper barge**
hopper barge (12 76007) with a full length **joint** (01) through hull and pivot at deck **level** (01)
- 12 76011 decompression chamber**
metal chamber, of two compartments, capable of accommodating two or more people; the pressure can be controlled and varied to treat people who have been working in pressures higher than atmospheric pressure
- 12 76012 crusher**
machine for reducing **rock** (03 23027) to small particles
- 12 76013 jaw crusher**
crusher (12 76012) that has two **plates** (01) at an angle to each other, one reciprocating and the other fixed
- 12 76014 cone crusher**
crusher (12 76012) with a solid erect cone gyrating eccentrically within a hollow erect cone
- 12 76015 impact crusher**
crusher (12 76012) for soft **rock** (03 23027); swift blows are struck by rotating **bars** (01) or **plates** (01)
- 12 76016 batching plant**
plant (01) for mixing, storing and supplying measured quantities of **concrete** (01), **asphalt** (01) or **aggregate** (01)

10 Site accommodation, site services and miscellaneous (12 8xxxx)

- 12 86001 siren**
device that emits a loud wailing **sound** (11 27088) as a signal or warning
- 12 86002 site accommodation**
building (01) that affords protection on a **site** (01) for documents and people
- 12 86003 sectional site building**
site accommodation (12 86002) constructed in parts so it can be easily taken apart and put back together again
- 12 86004 transportable accommodation unit**
relocatable **site accommodation** (12 86002) for transport by road vehicle
- 12 86005 leg-mounted transportable accommodation unit**
transportable accommodation unit (12 86004) with supporting legs, either fixed or telescopic, extending below its underside

- 12 86006 wheel-mounted transportable accommodation unit**
transportable accommodation unit (12 86004) mounted on a wheeled chassis and towed from one location to another
- 12 86007 decontamination unit**
building (01) for decontaminating people who have been in contact with hazardous **material** (01)
- 12 86008 storage bunker**
structure (01), or **excavation** (01) supported by a **structure** (01), for storing **materials** (01)
NOTE Usually without a roof (01).
- 12 86009 hopper**
open container for storing loose **material** (01), released through an outlet at the bottom; the bottom is in the **shape** (11 27004) of an inverted pyramid or cone
- 12 86010 tunnel ventilation duct**
duct (01) that conveys air, blown by a **fan** (12 86030), to ventilate a **tunnel** (01)
- 12 86011 personal protective equipment**
garment that affords protection to the person against safety and health hazards
- 12 86012 safety gloves**
pair of gloves to protect the hands from hazards
- 12 86013 eye protector**
device that protects the eyes against hazards
- 12 86014 goggles**
eye protector (12 86013) with two lenses or a combined lens enclosing the eyes
- 12 86015 safety footwear**
reinforced footwear, giving general protection to the feet, and additional protection against impact **loads** (01) to the toes
- 12 86016 protective headwear**
helmet or reinforced hat giving general protection to a substantial part of the head
- 12 86017 breathing apparatus**
apparatus that gives the user a source of oxygen that is independent from the ambient atmosphere
- 12 86018 respirator**
device worn over the mouth and nose to prevent inhalation of noxious fumes; inhaled air is passed through a filter medium to remove contaminants
- 12 86019 safety lamp**
locked flame **lamp** (07 52022) or **electric** (07 17002) **lamp** (07 52022) that is enclosed and protected to preclude the ignition of ambient flammable gases

- 12 86020 first aid box**
receptacle for a standard collection of medical items for administering immediate medical treatment
- 12 86022 hosereel**
cylindrical **frame** (01) that turns on an axis, and around which a **hose** (12 66025) may be wound
- 12 86023 power rammer**
power tool (12 16002) for **compaction** (03 24008); an internal combustion engine raises a tamping foot that is then allowed to drop
- 12 86024 hand rammer**
heavy **wood** (01) or metal block, attached to a handle, raised vertically by hand and allowed to fall, for **compaction** (03 24008) of loose **material** (01) and bedding paving **material** (01)
- 12 86025 punner**
light **hand rammer** (12 86024)
- 12 86026 elephant's trunking**
assembly of tapered tubular **components** (01) that form an enclosed **chute** (05 12154) for the discharge of **construction waste** (05 33002)
- 12 86027 high pressure water jetting equipment**
equipment that supplies water at high pressure through a **nozzle** (07 42205)
*NOTE Sometimes accompanied by abrasives; for purposes such as cutting, **cleaning** (06 84020) or to **scabble concrete** (9 34014).*
- 12 86028 adjustable prop**
temporary **column** (01) whose **length** (01) can be varied according to need
- 12 86029 gauge**
graduated **measuring instrument** (BS 6953)
*NOTE Used for **measurement** (01) of liquid **levels** (01), pressure or movement.*
- 12 86030 fan**
rotary machine for propelling air or gas
- 12 86031 thermometer**
device for **measuring** (01) temperature
- 12 86032 tine**
spike, prong, tooth or other uniform projection on a machine
- 12 86033 turnbuckle**
coupling with a left-hand and right-hand internal thread to connect **rods** (01) lengthways, or to regulate their **length** (01) or **tension** (03 15002)
- 12 86034 meter pit**
underground chamber for a meter

11 Participants (12 9xxxx)

- 12 96001 building owner**
person or organization holding the title to a **building** (01)
- 12 96002 purchaser**
person or organization buying goods and services to meet personal needs
- 12 96003 designer**
person who designs **buildings** (01), **external works** (01), **structures** (01) and parts thereof
- 12 96004 interior designer**
person who designs internal **spaces** (01)
- 12 96005 architect**
person who designs **buildings** (01) and superintends **execution** (10 64003) of **building** (01) works
NOTE In certain countries, there are limitations on the use of the title "architect".
- 12 96006 landscape architect**
person who designs and superintends layout and **planting** (06 14001) of **land** (01), **grounds** (06 18011) and **gardens** (06 18004)
- 12 96007 planner**
person who contributes to the preparation of comprehensive plans for the **development** (02 34001) of a geographical area
- 12 96008 building surveyor**
person who inspects **buildings** (01) and advises on or manages **repair** (01), **alteration** (01) and **maintenance** (01)
*NOTE May design and superintend works of **repair** (01) and **alteration** (01).*
- 12 96009 quantity surveyor**
person who provides financial and contractual advice and services for planning, **execution** (10 64003) and **completion** (10 64002) of **construction works** (01)
- 12 96010 land surveyor**
person who surveys existing features on a **site** (01) and who may set out **structures** (01) and **services** (01)
- 12 96011 engineer**
person who designs and superintends the **execution** (10 64003) of **civil engineering works** (01), **structures** (01) of **buildings** (01), installation of **services** (01), or who **maintains** (01) such **civil engineering works** (01), **structures** (01) or **services** (01)
- 12 96012 civil engineer**
engineer (12 96011) who specializes in **civil engineering works** (01)
- 12 96013 structural engineer**
engineer (12 96011) who specializes in **structures** (01)

- 12 96014 heating and ventilating engineer**
engineer (12 96011) who specializes in the installation and **maintenance** (01) of heating and ventilating systems, **hot water systems** (01) and refrigeration **plant** (01)
- 12 96015 resident engineer**
engineer (12 96011) employed on **site** (01) to supervise **construction work** (01)
- 12 96016 project manager**
 person appointed by the **client** (01) to manage the design and construction of **building** (01) and **civil engineering works** (01)
NOTE For public works in France, the "directeur d'investissement" designates a public technical service for this purpose.
- 12 96017 clerk of works**
 person appointed to verify on behalf of a **client** (01) that **construction work** (01) is executed in accordance with **drawings** (01), **specification of works** (01) and other **contract documents** (10 46010)
- 12 96018 estate clerk of works**
 person employed by the owner of an extensive property to inspect **buildings** (01) and advise on or manage **repair** (01), **alteration** (01) and **maintenance** (01)
*NOTE May design and superintend works of **repair** (01), **alteration** (01) and **maintenance** (01).*
- 12 96019 building control officer**
 person legally authorized to inspect work at design and construction **stages** (10 42005) for conformity with **building** (01) and associated legislation
- 12 96020 safety officer**
 person, competent by qualification or experience, appointed to improve safety standards and awareness of such issues by influencing and monitoring design, working methods and people on **site** (01)
- 12 96021 main contractor**
contractor (01) who sub-contracts part of their **contract** (10 46009)
- 12 96022 management**
 organization, engaged on a **fee** (10 59006) basis, responsible to a **client** (01) for the coordination of all parties involved in a construction project
- 12 96023 sub-contractor**
contractor (01) to whom a **main contractor** (12 96021) has contracted part of their work
- 12 96024 nominated sub-contractor**
sub-contractor (12 96023) selected by a **client** (01) or their representative
- 12 96025 contracts manager**
 person employed by a **contractor** (01) to be responsible for the management of a large project or a number of smaller projects

- 12 96026 site manager**
person employed by a **contractor** (01) to organize and supervise work on **site** (01)
- 12 96027 construction manager**
site manager (12 96026) on a large **site** (01)
- 12 96028 section manager**
construction manager (12 96027) for part of a project
- 12 96029 site agent**
site manager (12 96026) on a **site** (01) smaller than one on which a **construction manager** (12 96027) is employed
- 12 96030 contract planner**
person employed by a **contractor** (01) to prepare a **programme** (10 66005) of **site** (01) operations and a timed plan of requirements for **labour** (12 96045), **plant** (01) and **materials** (01)
- 12 96031 nominated supplier**
supplier (01) selected by a **client** (01) or their representative
- 12 96032 foreman**
person employed by a **contractor** (01) to oversee work on **site** (01)
- 12 96033 general foreman**
person employed by a constructor to supervise all work on **site** (01)
*NOTE Often responsible to a **site agent** (12 96029).*
- 12 96034 section foreman**
person employed by a constructor to supervise part of the work on **site** (01)
- 12 96035 trades foreman**
person employed by a constructor to supervise work of specific **tradesmen** (12 96039)
- 12 96036 chargehand**
person in charge of and working with a number of **tradesmen** (12 96039) of the same craft
- 12 96037 walking ganger**
person who supervises a number of **labourers** (12 96040)
- 12 96038 ganger**
person in charge of and working with a number of **labourers** (12 96040)
- 12 96039 tradesman**
operative (01) trained or skilled in a particular craft or operation, such as **carpentry** (01), painting or **pipelaying** (01)
- 12 96040 labourer**
operative (01) employed by a constructor to do physical work on **site** (01), especially of an unskilled kind

- 12 96041 competent person**
person who, by reason of theoretical and practical training, actual experience or both, is competent to perform the task or function or assume the responsibility in question and is authorized to perform such a task or function
- 12 96042 specialist contractor**
contractor (01) carrying out specific activities in accordance with a **contract** (10 46009)
- 12 96043 joint venture contractor**
one of the **contractors** (01) in a **joint venture** (12 96049)
- 12 96045 labour**
all people involved in physical **construction work** (01)
- 12 96046 contractor consortium**
association of **contractors** (01) temporarily formed for a particular purpose
- 12 96047 contractor consortium member**
one of the **contractors** (01) in a **contractor consortium** (12 96046)
- 12 96048 directly appointed contractor**
contractor (01) in a project in which several independent **contractors** (01) are participating; each has a direct **contract** (10 46009) with the **client** (01)
- 12 96049 joint venture**
two or more organizations grouped together to carry out work and share the risks; each is jointly and severally liable for the actions and work of the other
- 12 96050 lead contractor**
contractor (01) within a **contractor consortium** (12 96046) or **joint venture** (12 96049) chosen to represent all the group members and coordinate their actions with regard to the **client** (01)
- 12 96051 qualified construction enterprise**
contractor (01) that has been deemed qualified by a qualification body, which has made a formal **assessment** (11 14001) of the enterprise against set criteria, including legal, financial, human resources and technical skills
- 12 96052 quantity surveying technician**
person who establishes details of quantities and descriptions of work to be carried out or already carried out

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