BS 6100-4:2008

BRITISH STANDARD

# Building and civil engineering – Vocabulary –

## Part 4: Transport

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## Publishing and copyright information



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# Contents



**Summary of pages**

This document comprises a front cover, an inside front cover, pages i to iv, pages 1 to 58, an inside back cover and a back cover.

# Foreword

## Publishing information

This part of BS 6100 is published by BSI and came into effect in June 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part of BS 6100 supersedes BS 6100-2.4.1:1992, BS 6100-2.4.2:1988, BS 6100-2.4.3:1992 and BS 6100-2.8:1990, which are withdrawn.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.**

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# 1 Scope

This part of BS 6100 defines civil engineering terms that relate to road, rail and air transport.

This standard does not include building types (covered in BS 6100-3), tunnels and bridges (covered in BS 6100-4), building services (covered in BS 6100-8) and water transport, pipelines and ducts (covered in BS 6100-6).

# 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.

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, e.g. (01); references to terms defined in all other parts of BS 6100 are shown using their full reference number, e.g. (06 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 Road transport (04 1xxxx)

## 3.1 Works (04 11xxx)

**04 11001 primary route**
route, made up of **roads** (01) other than **motorways** (01), forming part of a national **network** (01) of important through **roads** (01)

*NOTE It is signed in a distinctive manner.*

**04 11002 major road**
**road** (01) that has a permanent priority for **traffic** (01) movement over other **roads** (01)

**04 11003 minor road**
**road** (01) that has a lesser **traffic** (01) value than a **major road** (04 11002)

**04 11004 single track road**
**road** (01) used by **traffic** (01) in both directions but of insufficient **width** (01) for two vehicles to pass except where it is widened for passing and overtaking

**04 11005 private street**
**road** (01) that gives access to adjoining premises but is not maintained by the **highway** (01) authority

**04 11006 all-purpose road**
**road** (01) for use by all classes of **traffic** (01)

**04 11007 dual carriageway road**
**road** (01) that has two separated **carriageways** (01) for travel in opposite directions

**04 11008 special road**
**road** (01) for use by prescribed classes of **traffic** (01)

**04 11009 trunk road**
**highway** (01) of primary importance in a national or regional network

*NOTE Designated by Act of Parliament.*

**04 11010 classified road**
**highway** (01) of importance for through communication

*NOTE Designated by Act of Parliament.*

**04 11011 principal road**
**highway** (01) that is second in importance to a **trunk road** (04 11009)

*NOTE Designated by Act of Parliament.*

**04 11012 county road**
**highway** (01) that the council of administrative county or region is required to maintain at public expense

**04 11013 delegated road**
**county road** (04 11012) that is maintained by the council of a borough or other county district

*NOTE The administrative county remains the **highway** (01) authority.*

**04 11014 radial road**
**highway** (01) that provides direct communication between the centre of an urban area and the outer districts

**04 11015 ring road**
**highway** (01) in or around an urban area to enable **traffic** (01) to avoid a **town centre** (02 38017) or a town

**04 11016 distributor road**
**road** (01) in an urban area that caters for local, district and primary **traffic** (01) movements

**04 11017 bypass**
**highway** (01) on the fringe of a town or village, to enable through **traffic** (01) to avoid congested areas or other obstructions to movement

**04 11018 cattle grid bypass**
way for pedestrians and animals to pass around a **cattle grid** (04 12064)

*NOTE Usually gated.*

**04 11019 relief road**
**highway** (01) within a **built-up area** (02 38009) to enable **traffic** (01) to avoid congested areas or other obstructions to movement

**04 11020 one-way street**
**road** (01) along which vehicular **traffic** (01) may move in one direction only

*NOTE Special provision may be made for public service vehicles and cycles.*

**04 11021 diversion**
length of **road** (01) in substitution for the whole or part of an existing **highway** (01)

cf. **diversion** (04 11022)

**04 11022 diversion**
alternative way for **traffic** (01) to avoid congestion, obstruction or other hazard

cf. **diversion** (04 11021)

**04 11023 occupation road**
**road** (01) that people occupying **land** (01) adjacent to the **road** (01) are entitled to use but that the public at large are not entitled to use

**04 11024 accommodation road**
**road** (01) that is provided by one party to accommodate an owner in the use of his own **land** (01) in exchange for some concession

*NOTE For example, a private **road** (01) provided by a **highway** (01) authority for the use of a landowner whose **land** (01) has been severed.*

**04 11025 service road**
**road** (01) running parallel to a more important **road** (01) and providing access to the properties situated along its length

**04 11026 slip road**
length of one-way **road** (01) that connects **roads** (01) at a **road** (01) junction

*NOTE The **roads** (01) connected are usually at different levels.*

**04 11027 crossover**
part of a **footway** (01) or **verge** (01) crossed by a vehicular way to give access to **land** (01) adjacent to a **road** (01)

cf. **crossover** (04 11028), **crossover** (04 22043)

**04 11028 crossover**
part of a **central reserve** (01) paved for occasional use by vehicles

cf. **crossover** (04 11027), **crossover** (04 22043)

**04 11029 cycle lane**
**traffic lane** (01) reserved for the use of pedal cycles

**04 11030 bus lane**
**traffic lane** (01) reserved for the use of buses or other authorized vehicles

**04 11031 towpath**
way along the **bank** (05 28001) of a **canal** (01) or **waterway** (05 22131) for towing or other services connected with **navigation** (05 21007)

**04 11032 causeway**
paved way across **land** (01) liable to be submerged

*NOTE Often raised.*

**04 11033 clearway**
**travelled way** (04 12001) on which vehicles are not permitted to stop voluntarily

cf. **clearway** (04 38006)

**04 11034 peak hour clearway**
**travelled way** (04 12001) on which vehicles are not permitted to stop voluntarily during specified periods when there is expected to be most **traffic** (01)

**04 11035 right of way**
right to pass over **land** (01) on foot, on or with animals, or in a vehicle

*NOTE The right may be subject to conditions and restrictions of user by the grantor or derived from uninterrupted custom.*

cf. **right of way** (04 19015)

**04 11036 collector-distributor**
**road** (01) approximately parallel to a **major road** (04 11002) that links junctions on the **major road** (04 11002) to the local **road** (01) **network** (01)

**04 11038 do-nothing road network**
existing **road** (01) **network** (01) against which changes due to a proposed **highway** (01) may be assessed

**04 11039 link**
length of **road** (01) between successive **road** (01) junctions

**04 11040 zone centroid connector**
notional **link** (04 11039) that joins the **zone centroid** (04 18003) to the **road** (01) **network** (01) by which **trips** (04 19004) gain access to or egress from the **network** (01)

**04 11041 underbridge**
**bridge** (01) that carries the way under consideration

**04 11042 overbridge**
**bridge** (01) that spans the way under consideration

**04 11043 Irish bridge**
paved ford that incorporates **pipes** (01) to take the **dry weather flow** (01)

**04 11044 subway**
underground passageway or **tunnel** (01) for pedestrians and/or cyclists

## 3.2 Parts (04 12xxx)

**04 12001 travelled way**
part of the **carriageway** (01) that carries through **traffic** (01); it excludes auxiliary **traffic lanes** (01) and **lay-bys** (01)

**04 12002 passing place**
local widening of a narrow **carriageway** (01) to enable vehicles to pass or overtake

**04 12003 weaving length**
length of **carriageway** (01) where **weaving** (04 19050) may take place

**04 12004 climbing lane**
**traffic lane** (01) on an up **gradient** (01) for use by slower moving vehicles and to facilitate overtaking

**04 12005 merging lane**
acceleration lane
auxiliary **traffic lane** (01) that allows **traffic** (01) to join a major **road** (04 11002) without impeding through **traffic** (01)

**04 12006 diverging lane**
deceleration lane
auxiliary **traffic lane** (01) that allows turning **traffic** (01) to approach a **road** (01) junction without impeding through **traffic** (01)

**04 12007 right-turn lane**
**diverging lane** (04 12006) or **right hand lane** (04 12011) solely for **traffic** (01) turning right

**04 12008 left-turn lane**
**diverging lane** (04 12006) or **left hand lane** (04 12012) solely for **traffic** (01) turning left

**04 12009 right-turning lane**
through **traffic lane** (01) that has **road markings** (01) for **traffic** (01) turning right

**04 12010 left-turning lane**
through **traffic lane** (01) that has **road markings** (01) for **traffic** (01) turning left

**04 12011 right hand lane**
**traffic lane** (01) on the extreme right in the direction of **traffic flow** (05 19016)

**04 12012 left hand lane**
**traffic lane** (01) on the extreme left in the direction of **traffic flow** (05 19016)

**04 12013 centre lane**
**traffic lane** (01) between the **right hand lane** (04 12011) and the **left hand lane** (04 12012)

**04 12014 bus bay**
**lay-by** (01) reserved for Public Service Vehicles at a stopping place

**04 12015 hardened verge**
part of a **verge** (01) strengthened to support **traffic** (01) and grassed

**04 12016 hard strip**
surfaced strip that abuts a **carriageway** (01)

*NOTE Usually not more than 1 m in **width** (01).*

**04 12017 flush kerb**
border at the edge of a **carriageway** (01), **hard shoulder** (01) or **hard strip** (04 12016) and substantially level with it

*NOTE Usually of **concrete** (01); may act as a **marginal strip** (04 12018).*

**04 12018 marginal strip**
narrow surface strip that conspicuously marks the edge of a **carriageway** (01)

**04 12019 traffic island**
raised area on the **highway** (01) shaped and located so as to direct **traffic** (01) movements

*NOTE Usually at a **road** (01) junction.*

**04 12020 ghost island**
area marked on a **carriageway** (01) so as to direct **traffic** (01) movements

*NOTE Usually at a **road** (01) junction.*

**04 12021 refuge**
island
**platform** (06 52012) or guarded area in a **carriageway** (01) that divides the streams of **traffic** (01) and provides a safe area for pedestrians

**04 12022 bollard**
device placed on a **refuge** (04 12021) or **traffic island** (04 12019) to warn drivers of the obstruction

*NOTE It may indicate the direction to be taken by vehicles by means of a **traffic sign** (07 92006).*

cf. **bollard** (04 12023)

**04 12023 bollard**
substantial **post** (01) to prevent passage of vehicles

cf. **bollard** (04 12022)

**04 12024 marker post**
**post** (01) erected alongside a **carriageway** (01) to give warning or guidance

*NOTE Generally fitted with material or small studs that reflect, but not normally lit.*

**04 12025 rumble strip**
serrated strip
warning device that consists of a series of transverse ridges or recesses, or coarse textured **surfacing** (04 12061), in or at the edge of a **carriageway** (01)

**04 12026 anti-dazzle screen**
glare screen
device that screens the lights of oncoming **traffic** (01)

*NOTE Examples are **fences** (01) or **shrubs** (06 12035).*

**04 12027 pedestrian crossing**
transverse strip of **carriageway** (01) marked to indicate where pedestrians should cross the **road** (01)

**04 12028 zebra crossing**
**pedestrian crossing** (05 12027) marked with studs, alternate black and white stripes and flashing beacons, on which pedestrians have priority over vehicles

**04 12029 pelican crossing**
**pedestrian crossing** (05 12027) controlled by **traffic signals** (04 12103)

**04 12030 school crossing**
place on a **carriageway** (01) where an authorized person in uniform regulates **traffic** (01) by means of a prescribed **traffic sign** (07 92006) for the purpose of guiding schoolchildren across

**04 12031 cycle crossing**
place on a **carriageway** (01) marked to indicate where cyclists should cross

**04 12032 road hump**
sleeping policeman
hump, formed in or on the surface of a **carriageway** (01) to discourage drivers from proceeding at an excessive speed

**04 12033 edging**
border at the edge of a **footpath** (01), **footway** (01), **bridleway** (03 31012) or **cycle track** (01)

**04 12034 sight line**
line, either in **plan** (BS ISO 10209-1) or in **profile** (01), that delineates the area in which a **sight distance** (04 17004) can be achieved

**04 12035 improvement line**
line that defines the boundary of a **landtake** (04 18001) for widening or improving a **highway** (01) as a control over **development** (03 34001)

**04 12036 at grade junction**
**road** (01) junction at which no **road** (01) passes over another

**04 12037 cross roads**
**at grade junction** (04 12036) of two **roads** (01) crossing at right angles approximately

**04 12038 scissor junction**
**at grade junction** (04 12036) of two **roads** (01) crossing obliquely

**04 12039 staggered junction**
**at grade junction** (04 12036) of three **roads** (01), at which the **major road** (04 11002) is continuous through the junction and the **minor roads** (04 11003) connect with it by forming two opposed **T junctions** (04 12040)

**04 12040 T junction**
**at grade junction** (04 12036) of two **roads** (01) at which the **minor road** (04 11003) joins the **major road** (04 11002) at right angles approximately

**04 12041 Y junction**
**at grade junction** (04 12036) of two **roads** (01), at which the **minor road** (04 11003) joins the **major road** (04 11002) at an oblique angle and terminates at the junction

**04 12042 fork junction**
**at grade junction** (04 12036) of two **roads** (01), at which the **major road** (04 11002) deviates from a straight path at the junction with the **minor road** (04 11003)

**04 12043 grade-separated junction**
**road** (01) junction at which at least one **road** (01) passes over another

**04 12044 trumpet junction**
**grade-separated junction** (04 12043) at which one **road** (01) joins another; allows free flow of **traffic** (01) through all its available changes of direction

**04 12045 grade-separated fork junction**
**grade-separated junction** (04 12043) of two **roads** (01) where one **carriageway** (01) of one **road** (01) passes over or under the other **road** (01) before merging into a single **road** (01)

**04 12046 grade-separated diamond junction**
**grade-separated junction** (04 12043) of two **roads** (01) in which they are interconnected by four **slip roads** (04 11026)

**04 12047 roundabout**
**road** (01) junction at which **traffic** (01) circulates around a circular **traffic island** (04 12019) or **ghost island** (04 12020)

**04 12048 grade-separated roundabout junction**
**grade-separated junction** (04 12043) of two or more **roads** (01) in which the **slip roads** (04 11026) from the **major road** (04 11002) meet the **minor roads** (04 11003) or the **slip roads** (04 11026) from the **minor roads** (04 11003) at a **roundabout** (04 12047) above or below the **major road** (04 11002) / **minor roads** (04 11003)

**04 12049 mini roundabout**
**roundabout** (04 12047) that has a one way movement of **traffic** (01) round a **ghost island** (04 42020) or small **traffic island** (04 12019)

**04 12050 mini roundabout at T junction**
**T junction** (04 12040) with a **mini roundabout** (04 12049) at the intersection of two **roads** (01)

**04 12051 at grade double mini roundabout**
two **mini roundabouts** (04 12049) at an **at grade junction** (04 12036) that are connected by a short length of **road** (01) or are contiguous

**04 12052 gyratory system**
**road** (01) layout enabling **traffic** (01) from several **roads** (01) to pass around a large central area using priority junctions, **mini roundabout** (04 12049) or **traffic signals** (04 12103)

**04 12053 dumb-bell junction**
**grade-separated diamond junction** (04 12046) between a **major road** (04 11002) and **minor roads** (04 11003) where the **slip roads** (04 11026) are connected to the **minor road** (04 11003) with two **roundabouts** (01)

**04 12054 multi-level junction**
**grade-separated junction** (04 12043) where three or more **roads** (01) are connected by **slip roads** (04 11026)

**04 12055 interchange**
**grade-separated junction** (04 12043) of **roads** (01) providing free **traffic flow** (04 19016) between them

**04 12056 rigid pavement**
**pavement** (01) in which the main **structural member** (01) is a high **strength** (11 27007) **concrete slab** (01) that also provides the surface in contact with the **traffic** (01)

**04 12057 rigid composite pavement**
**pavement** (01) with a high **strength** (11 27007) **concrete slab** (01) as **basecourse** (04 12123) with a **bituminous** (04 17014) **surface layer** (04 12124)

**04 12058 flexible pavement**
**pavement** (01) in which the whole **pavement** (01) **structure** (01) deflects under **load** (01), each layer receiving the **loads** (01) from above, spreading them out and passing them on to the layer below

**04 12059 flexible composite pavement**
**pavement** (01) in which the **basecourse** (04 12123) is bound with **hydraulic binder** (01)

**04 12060 continuously reinforced concrete pavement**
**CRCP**
**rigid pavement** (04 12056) or **rigid composite pavement** (04 12057) in which the **concrete slab** (01) is reinforced and has no **transverse movement joints** (11 42004)

**04 12061 surfacing**
part of a **pavement** (01) above the **roadbase** (04 12122)

**04 12062 binder course**
part of the **surfacing** (04 12061) immediately below the **surface layer** (04 12124)

**04 12063 snow fence**
**fence** (01) to restrict the accumulation of drifting snow on a **road** (01) or **track** (01)

**04 12064 cattle grid**
**structure** (01) placed on a **road** (01) to prevent passage of animals while permitting other **traffic** (01) to pass

**04 12065 cattle creep**
underground passage or **tunnel** (01) to permit passage of bovines under a **road** (01) or **railway** (01)

*NOTE Smaller mammals can also use the same facility.*

**04 12066 bridge superstructure**
**superstructure** (01) of a **bridge** (01)

**04 12067 bridge substructure**
parts of a **bridge** (01) supporting the **bridge superstructure** (04 12066)

**04 12068 corrugated steel buried structure**
**tunnel** (01) or **conduit** (01) comprising buried corrugated steel **components** (01) surrounded by granular **material** (01)

**04 12069 horizontal curve**
curve in **plan** (ISO 10209-1) of a way

**04 12070 vertical curve**
curve on the longitudinal **profile** (01) of the way

**04 12071 transition curve**
curve in which the radius changes continuously along its length

*NOTE For connecting a straight length with a circular arc or two circular arcs of different radii or of opposite hand.*

**04 12072 transition length**
**length** (01) of a **transition curve** (04 12071)

**04 12073 compound curve**
curve in a way that consists of two or more arcs of different radii curving in the same direction and having a common tangent or **transition curve** (04 12071) between them

**04 12074 reverse curve**
two abutting curves in a way that are of opposite hand in the **shape** (11 27004) of an "S" or its mirror image

**04 12075 intersection point**
point at which two successive straight lengths of way, or tangents to curves, intersect

**04 12076 tangent point**
point where a way ceases to be straight and curvature begins

**04 12077 crown**
highest portion of the cross-section of a cambered way

**04 12078 flag**
small **slab** (01) of natural or artificial **stone** (01) or **precast concrete** (01)

**04 12079 filter drain**
rubble drain
drain formed in a **trench** (01) using a granular **backfill** (01)

*NOTE A porous or perforated **pipe** (01) may be laid in the **trench** (01).*

**04 12080 box culvert**
**culvert** (01) of rectangular cross-section

**04 12081 channel**
**channel** (01) for **surface water** (01) at the edge of a **carriageway** (01)

**04 12082 grip**
shallow **trench** (03 22007) across a **verge** (01) to lead **surface water** (01) away from the **carriageway** (01)

**04 12083 kerb outlet**
aperture formed in a **kerb** (01) to convey **surface water** (01) from the **channel** (04 12081) into a **drain** (01) or **ditch** (05 22067)

**04 12084 regulating course**
layer of **material** (01) of variable **thickness** (01) to adjust the **shape** (11 27004) in preparation for a **surface layer** (04 12124) of regular **thickness** (01)

**04 12085 warping joint**
hinged **joint** (01) in a **road** (01) **slab** (01)

**04 12086 sett paving**
**surface layer** (04 12124) of **setts** (01) laid in a regular pattern

**04 12087 stone block paving**
**surface layer** (04 12124) of **stone** (01) **blocks** (01) in which the vertical faces of the **blocks** (01) are dressed to strict gauges so the **joints** (01) between **blocks** (01) are very narrow

**04 12089 grouted macadam**
**coarse aggregate** (BS EN 12620) into which a **bituminous binder** (04 13006) or a **mortar** (01) of **Portland cement** (09 13006) and **sand** (BS EN 12670) is poured after spreading the **aggregate** (01)

**04 12090 cement-bound macadam**
**grouted macadam** (04 12089) with **Portland cement** (09 13006) **mortar** (01) and **sand** (BS EN 12670)

**04 12091 skid-resistant surface**
non-skid surface
**surface layer** (04 12124) with improved **skid resistance** (BS 7941-1)

**04 12092 mastic asphalt surfacing**
**surface layer** (04 12124) of **mastic asphalt** (BS EN 12970)

**04 12093 surface dressing**
**surface layer** (04 12124) of **chippings** (04 13003) lightly rolled into a film of **bitumen emulsion** (04 13023) or **cut back bitumen** (04 13027)

**04 12094 clay block paving**
**surfacing** (04 12061) that consists of regular **blocks** (01) of fired **clay** (BS EN 12670) laid in a pattern

**04 12095 crack inducer**
**strip** (01) placed in a **concrete slab** (01) to form a **dummy joint** (09 32007)

**04 12096 rut**
groove or depression in a **surface layer** (04 12124) produced by the **action** (01) of **traffic** (01)

**04 12097 buffer zone**
strip of **carriageway** (01) delineated to separate **traffic** (01) in a **contraflow** (01)

*NOTE Usually about 1 m wide.*

**04 12098 parking meter**
mechanical device to **measure** (01), display and collect payment for the **parking** (04 19056) time of vehicles

**04 12099 yellow line**
**traffic line** (05 12120) on a **carriageway** (01) or **kerb** (01), yellow in **colour** (11 27079) and regulating **waiting** (04 19060), loading and unloading

**04 12100 stop line**
continuous transverse or oblique **traffic line** (04 12120) behind which vehicles should stand when stopped by police control, **traffic signals** (04 12103) or **regulatory sign** (06 92022)

**04 12101 give way line**
broken transverse **traffic line** (04 12120) across a **traffic lane** (01) at the mouth of the **minor road** (04 11003) at a **road** (01) junction signifying that vehicles emerging from the **minor road** (04 11003) should give way to vehicles on the **major road** (04 11004) or **roundabout** (04 12047)

**04 12102 reflecting road stud**
device installed on a **carriageway** (01) at regular intervals to supplement or act as a substitute for a **traffic line** (04 12120) by reflecting the light from an approaching vehicle as white or coloured light

**04 12103 traffic signals**
system of different coloured signal lights, including arrow-shaped lights, for stopping **traffic streams** (04 19013) or permitting them to move

**04 12104 signal head**
**assembly** (01) of signal lights, their appropriate housing and means of attachment to its support

**04 12105 signal head assembly**
combination of one or more **signal heads** (04 12104) attached to one support

**04 12106 signal face**
side of a **signal head** (04 12104) capable of exhibiting signal lights

**04 12107 primary signal face**
**signal face** (04 12106) nearest to and facing oncoming **traffic** (01); it is situated close to the **stop line** (04 12100) on the near side of the **carriageway** (01) facing the approaching **traffic** (01) but may be duplicated on the off-side

**04 12108 secondary signal face**
**signal face** (04 12106) facing oncoming **traffic** (01) supplementing the **primary signal face** (04 12107) and beyond the **stop line** (04 12100)

**04 12109 restricted right of way**
movement in a particular direction accorded only by a green arrow **traffic signal** (04 12103) at a **primary signal face** (04 12107)

**04 12110 stage**
indication by **traffic signals** (04 12103) during a period of the **signalling cycle** (04 12112) that gives **right of way** (04 19015) to one or more particular **traffic** (01) movements

**04 12111 phase**
set of conditions that fixes the pattern of movement and waiting for one or more **traffic streams** (04 19013) during a **signalling cycle** (04 12112)

**04 12112 signalling cycle**
one complete sequence of the operation of **traffic signals** (04 12103)

**04 12113 controller**
apparatus that controls and switches **traffic signals** (04 12103)

**04 12114 vehicle actuated traffic signals**
**traffic** (01) signalling equipment in which the duration of the red and green signal lights and the time of duration of the **signalling cycle** (04 12112) vary in relation to the **traffic flow** (05 19016) into and through the controlled area

*NOTE It is actuated by a **detector** (04 19062).*

**04 12115 concurrent ambers**
condition where on a change of **right of way** (04 19015) all the warning indications to **traffic** (01) about to start or for that called upon to stop, start together

**04 12116 staggered ambers**
condition where on a change of **right of way** (04 19015) the warning to **traffic streams** (04 19013) about to start commences during the warning to **traffic streams** (04 19013) called upon to stop

**04 12117 sequent ambers**
condition where on a change of **right of way** (04 19015) the start of a warning to **traffic streams** (04 19013) about to start coincides with the end of the warning to **traffic streams** (04 19013) called upon to stop

**04 12118 funnelling system**
**traffic signals** (04 12103) that concentrate **traffic** (01) into small groups to reduce congestion

**04 12119 road stud**
small metal marker placed with others across the surface of a **carriageway** (01) to indicate the limits of a **pedestrian crossing** (04 12027)

**04 12120 traffic line**
**road marking** (01) in the form of a line

**04 12121 pavement sub-base**
one or more layers of **material** (01) placed immediately above the **road formation** (01)

**04 12122 roadbase**
main structural element of a **pavement** (01)

**04 12123 basecourse**
course forming part of the **surfacing** (04 12061) immediately below the **surface layer** (04 12124)

**04 12124 surface layer**
upper layer of **pavement** (01) the surface of which is in contact with the **traffic** (01)

## 3.3 Materials (04 13xxx)

**04 13001 coated grit**
**grit** (BS EN 12670) coated with **bitumen** (01)

**04 13003 chippings**
single sized **aggregate** (09 23003) of nominal **size** (01) between 3 mm and 20 mm

**04 13004 coated chippings**
**chippings** (04 13003) coated with **bitumen** (01)

**04 13005 soil cement**
**soil** (01), **clinker** (09 13004) or ash stabilized or strengthened with a **hydraulic binder** (01)

**04 13006 bituminous binder**
**bituminous** (04 17014) **material** (01) with adhesive and waterproofing **properties** (01)

**04 13007 modified binder**
**bituminous binder** (04 13006) incorporating an **additive** (01)

**04 13008 filler**
fine non-plastic mineral matter used to stiffen **bituminous binders** 04 13006) and **bituminous** (04 17014) mixtures and to fill **voids** (03 28003) in these mixtures

**04 13009 slurry seal**
mixture of **binder** (01), **fine aggregate** (01) and **filler** (04 13008) with water added to produce a mixture of **slurry** (01) consistency

**04 13010 lake asphalt**
highly viscous natural **asphalt** (01) found in well defined surface deposits

**04 13013 tar**
viscous liquid, black in **colour** (11 27079), that has adhesive **properties** (01), obtained by the destructive distillation of **coal** (BS 3323), **wood** (01) or **shale** (BS EN 12670)

**04 13015 coated macadam**
graded **aggregate** (01) coated with **bituminous binder** (04 13006) and in which a major part of the **strength** (11 27007) of the mixture derives from interlocking of **aggregate** (01)

**04 13016 bitumen macadam**
**coated macadam** (04 13015) in which the **binder** (01) is wholly or substantially **bitumen** (01)

**04 13019 dense bitumen macadam**
**bitumen macadam** (04 13016) in which the **aggregate** (01) and **filler** (04 13008) are graded to form a close textured mixture of low **permeability** (01) when spread and compacted

**04 13021 porous asphalt**
**coated macadam** (04 13015) used as a **surface layer** (04 12124), retaining a high **voids** (03 28003) content to facilitate rapid **drainage** (01) of **surface water** (01)

**04 13023 bitumen emulsion**
dispersion of **bitumen** (01) in water with an emulsifying agent

**04 13024 anionic bitumen emulsion**
**bitumen emulsion** (04 13023) in which the emulsifying agent **coats** (01) the droplets of **bitumen** (01) with a negatively charged organic ion coating

**04 13025 cationic bitumen emulsion**
**bitumen emulsion** (04 13023) in which the emulsifying agent **coats** (01) the droplets of **bitumen** (01) with a positively charged organic ion coating

**04 13026 flux oil**
substantially non-volatile oil

**04 13027 cut back bitumen**
**bitumen** (01) obtained from petroleum with a **viscosity** (11 27038) that is reduced by adding a volatile oil

**04 13028 pitching stone**
large **stones** (01) placed by hand with small **stones** (01) or other **material** (01) in the interstices and compacted; used as a **basecourse** (04 12123) or **revetment** (05 21073)

*NOTE Usually between 175 mm and 300 mm in **depth** (01).*

**04 13029 tack coat**
thin film of **binder** (01) to improve adhesion between two layers of **pavement** (01)

## 3.4 Activities (04 14xxx)

**04 14001 traffic assignment**
assessment, from a knowledge of the origins and destinations of **traffic** (01) in an area, of the distribution of the **traffic** (01) on a specific **road** (01) **network** (01)

**04 14002 traffic simulation**
assess **traffic flow** (04 19016) through a representation of **traffic** (01) systems and situations

**04 14003 grit**
spread **grit** (BS EN 12670) or similar **material** (01) on **surfacing** (04 12061) to reduce the likelihood of skidding

**04 14004 scarify**
systematic disruption and loosening of **surfacing** (04 12061) or of **ground** (01)

**04 14005 repave**
**restore** (01) a **bituminous** (04 17014) **surface layer** (04 12124) by heating, **scarifying** (04 14004), remix the loosened **material** (01) with additional **bitumen** (01) and relay

**04 14006 burn off**
remove excess **bituminous binder** (04 13006) from a **surface layer** (04 12124) by a machine using a flame technique

**04 14007 regulate**
form a surface to the required **shape** (11 27004) or contour

## 3.5 Processes (04 15xxx)

**04 15001 community severance**
adverse effect on movement within a community as a consequence of **roads** (01) and **traffic** (01)

**04 15002 visual intrusion**
perceived impact of a **road** (01) and its **traffic** (01) on the **landscape** (06 19001)

**04 15003 visual obstruction**
blockage of view by a proposed **road** (01), its **structures** (01) and the **traffic** (01) using the **road** (01)

**04 15004 shift**
lateral displacement of a circular curve in a way, measured along the radius, consequent upon the introduction of a **transition curve** (04 12071)

**04 15005 corrugation**
surface **deformation** (01) into marked wave-like shapes at approximately equal distances and transverse to the line of **traffic** (01)

**04 15006 stripping**
displacement of **bituminous binder** (04 13006) from the surface of **aggregate** (01)

*NOTE Usually by the **action** (01) of water.*

**04 15007 early cut-off**
condition in which one or more **traffic streams** (04 19013) that were running during the preceding **stage** (04 12110) are stopped whilst one or more other **traffic streams** (04 19013) are allowed to continue moving

**04 15008 late release**
condition in which one or more **traffic streams** (04 19013) are permitted to move before the release of other **traffic streams** (04 19013) permitted to run with them during the subsequent **stage** (04 12110)

## 3.6 Plant, equipment and documents (04 16xxx)

**04 16001 assessment framework**
tabular presentation of the effects of a proposed **highway** (01), including all **costs** (01) and benefits, enabling an appraisal to be made

**04 16002 visual envelope map**
map indicating the area of **land** (01) from which there would be a view of any part of a proposed **road** (01), its **structures** (01) and the **traffic** (01) using the **road** (01)

**04 16003 fixed trip matrix**
**trip matrix** (04 16005) that it is assumed will not be altered by a **road** (01) scheme

**04 16004 traffic model**
**mathematical model** (01) for predicting **traffic flow** (04 19016) on proposed and existing **roads** (01)

**04 16005 strip matrix**
table of the number of vehicles or person **trips** (04 19004) between **zones** (04 18002) in a particular period of time

**04 16006 automatic traffic count**
**traffic** (01) count by an automatic device, recorded for future analysis

**04 16007 manual classified count**
**traffic** (01) count by observation; recorded and classified by vehicle type and time period

**04 16008 traffic census**
recording, together or by classes, the number of vehicles passing a selected point or points in a specified time, period or series of periods

**04 16009 directional census**
**traffic census** (04 16008) in which the volume of **traffic** (01) passing in each direction at each point is counted separately

**04 16010 origin and destination**
collection of data concerning origins and destinations of **traffic** (01) moving in an area

**04 16011 cordon**
ring of survey points drawn round an area for the purpose of carrying out a **traffic census** (04 16008) or to encircle the area of interest of a **traffic** (01) study

**04 16012 screen**
line of survey points across an area such that all material **traffic streams** (04 19013) going from the one part of the area to the other are observed

**04 16013 screen-line**
imaginary line drawn across a transport corridor

*NOTE Often an enclosed **cordon** (04 16011).*

**04 16014 gravity model**
**traffic model** (04 16004) that assumes the probability of a **trip** (04 19004) is proportional to the attraction of the destination and the inverse of the **trip** (04 19004) distance

**04 16015 diversion curve**
mathematical relationship, used in **traffic** (01) modelling, that apportions **traffic** (01) between different routes and different modes of transport

**04 16016 car ownership model**
assessment of car ownership, i.e. number of cars per household, in a **zone** (04 18002)

**04 16017 trip distribution**
**traffic model** (04 16004) that connects the origins and destinations of **trips** (04 19004) to form a matrix of the movements taking place between **zones** (04 18002)

**04 16018 trip assignment model**
**traffic model** (04 16004) selecting the routes through a **road** (01) **network** (01) that vehicles might be expected to take

**04 16019 all-or-nothing assignment**
assignment of all **trips** (04 19004) between two **zones** (04 18002) to a single route

**04 16020 multi-routeing assignment**
distribution of all **trips** (04 19004) between two **zones** (04 18002) over two or more routes

**04 16021 capacity restrained assignment**
assignment of **trips** (04 19004) that takes account of the level of congestion in the **road** (01) **network** (01) when selecting routes between **zones** (04 18002)

**04 16022 capacity index**
code number that categorizes each **link** (04 11039) in a **road** (01) **network** (01) according to its **traffic flow** (04 19016) **characteristics** (01)

**04 16023 jurisdiction code**
code used in **traffic** (01) modelling to indicate the physical location of a **road** (01)

**04 16024 digital ground model**
computerized representation of the **ground** (01) surface by vertical and horizontal coordinates

**04 16025 parking survey**
process of recording data of the vehicles parked in a specific area and the analysis of the data to determine the number, duration and rates of arrival and departure of the vehicles observed

## 3.7 Plant, equipment and documents (04 17xxx)

**04 17001 speed/flow/geometry relationship**
mathematical relationship between the speed of travel on a **road** (01), its physical **characteristics** (01) and the volume and nature of **traffic flow** (0519016) along it

**04 17002 horizontal alignment**
direction and course of the centre line of a **road** (01) or **carriageway** (01) on **plan** (BS ISO 10209-1)

**04 17003 vertical alignment**
direction and course of the centre line of a **road** (01) or **carriageway** (01) in **profile** (01)

**04 17004 sight distance**
distance at which an object becomes visible to an observer, the **height** (01) above the **carriageway** (01) and object being specified

**04 17005 stopping sight distance**
minimum specified **sight distance** (04 17004) within which a vehicle travelling at a specified speed can stop safely

**04 17006 full overtaking sight**
minimum specified **sight distance** (04 17004) within which a vehicle can overtake safely without exceeding a specified speed

**04 17007 degree of curvature**
angle subtended by a circular arc at the centre of the circle of which the arc is a part, the length of the arc being limited by a given chord

*NOTE The given chord is usually 30 m long.*

**04 17008 intersection angle**
internal angle formed by two successive straight lengths of way or by tangents to curves

**04 17009 deviation angle**
external angle formed by two successive straight lengths of way or tangents to curves

*NOTE Indicates the angular change of direction.*

**04 17010 deflection angle**
angle from a tangent subtending a chord used in **setting out** (01) a curved way

**04 17011 camber**
convexity of the curved cross-section of a way

**04 17012 crossfall**
**slope** (01) across the width of a way

**04 17013 superelevation**
banking
inward tilt or transverse inclination to the cross-section of a **carriageway** (01) throughout the length of a **horizontal curve** (04 12069) to reduce the effects of centrifugal force on a moving vehicle

**04 17014 bituminous**
containing **bitumen** (01) or mixtures thereof

**04 17015 texture depth**
**measure** (01) of the **texture** (01) of a **surface layer** (04 12124)

**04 17016 riding quality**
objective **measure** (01) related to the subjective response of a vehicle occupant to the unevenness of a **road** (01) surface

*NOTE Usually expressed in terms of the summed vertical irregularities per kilometre along a longitudinal line on the surface.*

**04 17017 skid resistance value**
numerical value of **skid resistance** (BS 7941-1) measured with a portable tester

**04 17018 braking force coefficient**
coefficient used as a **measure** (01) of the resistance of a wheel to forward sliding on the **road** (01) and to the condition where brakes are applied to a wheel having forward motion only

*NOTE Expressed as the ratio of the horizontal **force** (01) in the plane of the wheel to the **load** (01) on the wheel when it is on the point of skidding.*

**04 17020 polished stone value**
**measure** (01) of extent to which different types of **stone** (01) in a **surface layer** (04 12124) will polish under **traffic** (01)

**04 17021 aggregate abrasion value**
**measure** (01) of **abrasion resistance** (11 27015) of an **aggregate** (01)

**04 17022 minimum running period**
duration of a green signal light, following the extinction of a red-amber signal light, during which no change of signal light occurs

**04 17023 vehicle extension period**
additional duration of a green signal light that can be secured by the operation of a **detector** (11 19062) by a vehicle that has **right of way** (04 19015)

**04 17024 maximum running period**
maximum period that a green light signal can be continued after a demand had been made by **traffic** (01) on another **phase** (04 12111)

**04 17025 inter-green period**
period between the end of the green light signal giving **right of way** (04 19015) for one **phase** (04 12111), and the beginning of the green light signal giving **right of way** (04 19015) for the next **phase** (04 12111)

**04 17026 all-red period**
period during the change from one **phase** (04 12111) to the next when all signal aspects display a red light signal

## 3.8 Spaces (04 18xxx)

**04 18001 landtake**
**land** (01) required for a **highway** (01) scheme

**04 18002 zone**
geographical area of convenient **size** (01) for **trip** (04 19004) information

*NOTE Normally based on convenient local authority boundaries.*

**04 18003 zone centroid**
notional centre of a **zone** (04 18002) that represents the origin and destinations of all **trips** (05 19004) from and to that **zone** (04 18002)

**04 18004 splay**
area of **land** (01) at a junction, corner or bend to give adequate visibility

**04 18005 flare**
area of a **traffic lane** (01) in which its **width** (01) is increased to form an additional **traffic lane** (01) or to widen a **traffic lane** (01) at the approach to a **road** (01) junction

**04 18006 funnel**
area of a **traffic lane** (01) in which its **width** (01) is gradually reduced until it is eliminated

**04 18007 safety zone**
area between a **traffic lane** (01) and **construction work** (01) that is temporarily delineated and kept clear to help secure safety

**04 18008 parking bay**
area designated and marked for **parking** (04 190506) one vehicle

**04 18009 pelican controlled area**
area of **carriageway** (01) subject to control in relation to a **pelican crossing** (04 12029)

**04 18010 zebra controlled area**
area of **carriageway** (01) subject to control in relation to a **zebra crossing** (04 12028)

## 3.9 Miscellaneous (04 19xxx)

**04 19001 personal injury accident**
**road** (01) accident in which at least one person is injured

**04 19002 fatal accident**
**road** (01) accident in which at least one person is killed

**04 19003 damage only accident**
**road** (01) accident that involves at least one vehicle in which no people are injured or killed

**04 19004 trip**
single journey from an origin to a destination

**04 19005 primary destination**
major town served by a **primary route** (04 11001)

**04 19006 generated traffic**
additional **traffic** (01) induced by the creation of special facilities or factors

**04 19007 re-assigned traffic**
**traffic** (01) that changes its route between an unchanged origin and destination as a result of changes made to the **road** (01) **network** (01)

**04 19008 redistributed traffic**
**traffic** (01) that changes the origin or destination of a **trip** (04 19004) as a result of a change made to the **road** (01) **network** (01)

**04 19009 home-based trip**
**trip** (04 19004) that starts or finishes at home

**04 19010 non-home-based trip**
**trip** (04 19004) that neither starts nor finishes at home

**04 19011 modal split**
separation of **trips** (04 19004) according to mode of transport

**04 19012 trip end model**
assessment of the number of **trips** (04 19004) that start or finish in a **zone** (04 18002)

**04 19013 traffic stream**
**traffic** (01) moving in one or more lines in the same direction

*NOTE Usually vehicular **traffic** (01).*

**04 19014 traffic control**
regulation of **traffic** (01) by **traffic signals** (04 12103) or **traffic signs** (06 92006)

**04 19015 right of way**
right of priority attached to **traffic** (01) moving in a particular direction or a priority given temporarily

cf. **right of way** (04 11035)

**04 19016 traffic flow**
number of vehicles, people or animals passing a specific point in a stated time, in both directions unless otherwise stated

**04 19017 design flow**
**traffic flow** (05 19016) assumed for **highway** (01) design purposes

**04 19018 peak traffic flow**
maximum **traffic flow** (05 19016) in given circumstances

**04 19019 traffic flow density**
**traffic flow** (05 19016) per unit of **travelled way** (04 12001)

*NOTE Usually expressed as number of vehicles per hour per **traffic lane** (01).*

**04 19020 traffic capacity**
maximum practicable **traffic flow** (05 19016) in given purposes or assumed for design purposes

**04 19021 lane capacity**
**traffic capacity** (04 19020) of one **traffic lane** (01)

**04 19022 optimum speed**
speed at which the **traffic capacity** (04 19020) can be attained

**04 19023 traffic concentration**
number of vehicles per unit length of **road** (01) at a specified time excluding parked vehicles

**04 19024 passenger car unit**
**pcu**
unit of **traffic** (01) equivalent to one normal private car, for capacity purposes

*NOTE The private car is the unit and other vehicles are converted to the same unit by a factor that depends on their type and circumstances.*

**04 19025 transverse distribution**
manner in which vehicular **traffic** (01) disposes itself across the **carriageway** (01)

**04 19026 free speed**
speed adopted by a driver when uninfluenced by the presence of other **traffic** (01)

**04 19027 design speed**
**free speed** (04 19026) above which 85% of **traffic** (01) does not travel, assumed for design purposes

**04 19028 journey time**
overall time taken to travel between two specified points on a route, excluding intentional stoppages

**04 19029 stopped time**
time spent stationary on a journey as a result of the requirements of other **traffic** (01)

**04 19030 running time**
difference between **journey time** (04 19029) and **stopped time** (04 19029)

**04 19031 running speed**
average speed calculated by dividing distance travelled by a vehicle by its **running time** (04 19030)

**04 19032 distance headway**
distance from the front of a vehicle to the front of the one ahead in the same **traffic lane** (01)

**04 19033 headway**
interval, in time, between consecutive vehicles operating scheduled services

**04 19034 time headway**
time that elapses at a specified point between the passage of corresponding points on successive vehicles travelling in one or more directions as selected

**04 19035 braking distance**
distance a vehicle travels between when the brakes are applied and when the vehicle stops

**04 19036 reaction time**
time interval between the occurrence of an event that demands immediate action by the driver and his response

*NOTE Examples of responses are application of brakes, response to* ***traffic signals*** *(04 12103).*

**04 19037 reaction distance**
distance travelled during the **reaction time** (04 19036)

**04 19038 stopping time**
time interval between the instant when the driver receives a stimulus that signifies a need to stop and the instant when the vehicle comes to rest

*NOTE Usually implies a minimum time.*

**04 19039 brake lag**
time that elapses from the instant when the brake pedal is depressed and the instant when the brakes influence the motion of the vehicle

**04 19040 priority rules**
rules that govern the precedence of **traffic** (01)

**04 19041 segregated contraflow**
**contraflow** (01) in which **traffic** (01) travelling in a direction opposite to the normal is limited to light vehicles

**04 19042 alternate one way working**
arrangement whereby **traffic** (01) is restricted to one **traffic lane** (01) controlled by **traffic signs** (06 92006) that direct **traffic flow** (04 19016) in each direction alternately

**04 19043 filtering**
permitted movement of **traffic** (01) from the same direction in one or more **traffic lanes** (01) while **traffic** (01) in the remaining **traffic lanes** (01) is stopped

**04 19044 single-line traffic**
**traffic** (01) constrained to movement in one direction in a single **traffic lane** (01)

**04 19045 shuttle traffic**
**traffic** (01) constrained to flow only in one direction and then in the opposite direction, alternately

**04 19046 turning traffic**
vehicles turning left or right after passing a **stop line** (04 12100) or primary **traffic signals** (04 12103)

**04 19047 gyratory traffic**
vehicular **traffic** (01) flowing around a **gyratory system** (04 12052) or a **roundabout** (04 12047)

**04 19048 diverted traffic**
**traffic** (01), normally using one **road** (01) or route, that is temporarily directed onto another **road** (01) or route

**04 19049 tidal traffic**
**traffic** (01) on a two-way **road** (01) that proceeds predominantly in one direction

*NOTE The direction may be changed according to time or other recurrent circumstances.*

**04 19050 weaving**
movement of **traffic** (01) in the same general direction by which vehicles within two or more **traffic streams** (04 19013) intersect at a small angle so that the vehicles in one stream cross other streams gradually

**04 19051 bunch**
of vehicles, travel in groups or clusters

**04 19052 diverge**
of a vehicle, move out of a **traffic stream** (04 19013)

**04 19053 merge**
of a vehicle, move into a **traffic stream** (04 19013)

**04 19054 funnelling**
effect of a gradual reduction in the **width** (01) of a **carriageway** (01)

**04 19055 channelling**
use of **traffic islands** (04 12019) or **road marking** (01) to direct **traffic** (01) into specified **traffic lanes** (01)

**04 19056 parking**
keeping or leaving a vehicle stationary in a place that may or may not be on the **highway** (01)

**04 19057 authorized street parking**
**parking** (04 19056) on part of a **highway** (01) that has been designated as a place where vehicles may be parked

**04 19058 angle parking**
**parking** (04 19056) where the axes of vehicles are oblique to the alignment of the **carriageway** (01)

**04 19059 parking turnover**
number of times that **parking spaces** (01) are used in a stated time

**04 19060 waiting**
keeping or leaving a vehicle stationary on the **highway** (01) for reasons other than **traffic** (01) delay

*NOTE For example, for period longer than the minimum necessary for picking up or setting down passengers or loading or unloading goods.*

**04 19061 unilateral waiting**
system in which vehicles are prohibited from **waiting** (04 19060) on one side of a **carriageway** (01)

*NOTE The prohibition may apply to one side permanently, or be changed from one side to another.*

**04 19062 detector**
unit of the vehicle detecting equipment that, when traversed by a vehicle, initiates the process of detection

*NOTE Usually laid in a **carriageway** (01).*

**04 19063 speed time**
vary the duration of the **vehicle extension period** (04 17023) relative to the speed of vehicles

**04 19064 minimum change**
signal change that occurs at expiration of **minimum running period** (04 17022)

**04 19065 gap change**
signal change that occurs at the end of a **vehicle extension period** (04 17023)

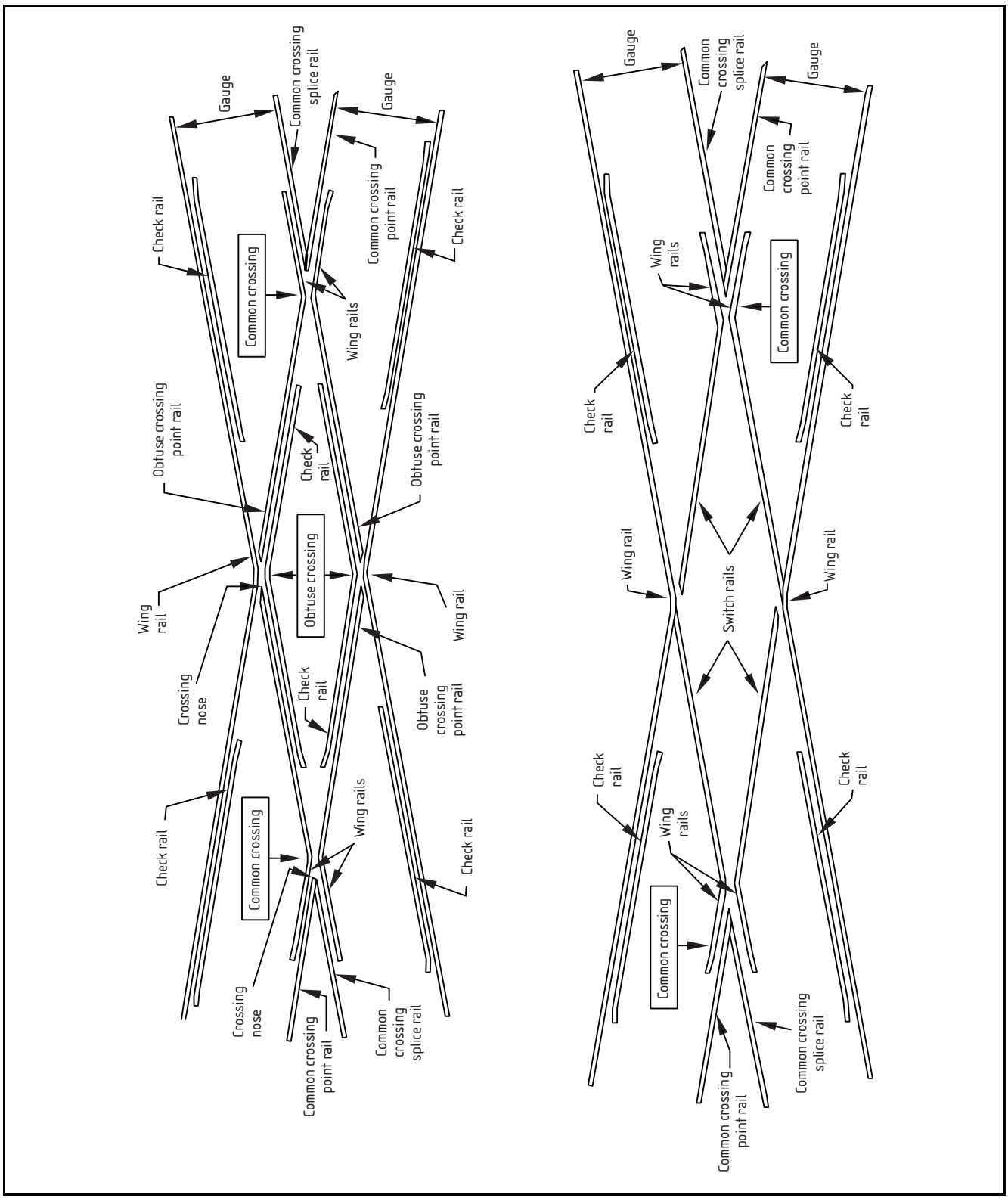
**04 19066 maximum change**
signal change that occurs on the expiration of a **maximum running period** (04 17024)

**04 19067 demand**
request for **right of way** (04 19015) for **traffic** (01) passing a **detector** (04 19062) and approaching a red light signal

**04 19068 extension**
continuation of the green light signal that results from a request made by a vehicle that has **right of way** (04 19015)

**04 19069 traffic engineering**
engineering that deals with **traffic** (01) usage and control, and including **traffic** (01) planning and the design of **road** (01) layouts

Figure 1 **Railway track terms shown as diamond crossings**



# 4 Rail transport (04 2xxxx)

## 4.1 Works (04 21xxx)

**04 21001 electric railway**
**railway** (01) on which vehicles are propelled by **electric** (07 17002) traction

**04 21002 light railway**
**railway** (01) with restrictions on **weight** (01) and speed of vehicles

**04 21002 rack railway**
**railway** (01) with vehicles driven by pinions that engage on a rack

**04 21003 funicular railway**
**railway** (01) on a steep incline on which vehicles are connected by **cable** (01) to a drum or to each other to provide a counterbalance

**04 21006 occupation bridge**
**bridge** (01) involving a **railway** (01) where the **road** (01) or **footpath** (01) concerned is privately owned

**04 21007 accommodation bridge**
**bridge** (01) to maintain access between sections of land severed by the **railway** (01)

## 4.2 Parts (04 22xxx)

**04 22001 main line**
principal **track** (01) on a **railway** (01)

**04 22002 secondary line**
**track** (01) on a **railway** (01) less important than a **main line** (04 22001)

**04 22003 relief line**
**secondary line** (04 22022) that runs alongside a **main line** (04 22001)

**04 22004 branch line**
**track** (01) that acts as a feeder to a **main line** (04 22001) or a **secondary line** (04 22002)

**04 22005 goods line**
**track** (01) for carrying freight vehicles

**04 22006 passing loop**
**track** (01) for diverting or holding **traffic** (01) so that other **traffic** (01) may pass

**04 22007 through line**
**track** (01) within the environs of a station for non-stopping **traffic**

**04 22008 electrified track**
**track** (01) for an **electric railway** (04 21001)

**04 22009 reversible line**
**track** (01) for operating in both directions

**04 22010 single line**
single **reversible line** (04 22009) on a section of **railway** (01)

**04 22011 siding**
**track** (01) for marshalling and stabling vehicles

**04 22012 private siding**
**siding** (04 22011) or access **track** (01) on private premises

**04 22013 running line**
**track** (01) other than a **siding** (04 22011)

**04 22014 plain line**
length of **track** (01) without **switches** (04 22024) or **crossings** (04 22032)

**04 22015 switch and crossing layout**
length of **track** (01) with **switches** (04 22024) and **crossings** (04 22032) forming **junctions** (04 22040)

**04 22016 track category**
classification of **running line** (04 22013) based on tonnage and **traffic** speed

**04 22017 track panel**
prefabricated **assembly** (01) of **rails** (04 22051), **sleepers** (01) and **fastenings** (01)

**04 22018 slab track**
**rails** (04 22021) and **fittings** (01) fixed to **sleepers** (01) or **precast concrete** (01) panels embedded in an in situ **reinforced concrete** (09 33032) **slab** (01), or **rails** (04 22021) and **fittings** (01) fixed to an in situ **reinforced concrete** (09 33032) **slab** (01)

**04 22019 transition beam**
connecting unit between ballasted **track** (01) and **slab track** (04 22018)

**04 22020 mixed gauge track**
dual gauge track
**track** (01) with extra **running rail** (04 22056) or **running rails** (04 22056) to provide two or more **gauges** (04 27003)

**04 22021 interlaced track**
**track** (01) in which adjacent **tracks** (01) overlap to allow two-way traffic working within a restricted **width** (01)

*NOTE The overlap is usually temporary.*

**04 22022 anchor length**
length of **track** (01) required at each end of **continuous welded rail** (04 22057) to resist **forces** (01) applied by a **rail tensor** (04 26025)

**04 22023 breathing length**
length of **track** (01), immediately abutting an **adjustment switch** (04 22114), subject to movement caused by temperature change

**04 22024 switch**
**assembly** (01) of **rails** (04 22051) and other **components** (01) for diverting vehicles from one **track** (01) to another

**04 22025 trailing switch**
**switch** (04 22024) installed where **traffic** is predominantly from **switch heel** (04 22152) towards **switch toe** (04 22150)

**04 22026 facing switch**
**switch** (04 22024) installed where **traffic** is predominantly from **switch toe** (04 22150) towards **switch heel** (04 22152)

**04 22027 self reversing switch**
**switch** (04 22024) that resets itself after a trailing movement of a vehicle from **switch heel** (04 22152) **to switch toe** (04 22150)

**04 22028 powered switch**
**switch** (04 22024) operated other than manually

**04 22029 hand of switch**
direction, left or right, viewed from the **switch toe** (04 22150), to which **traffic** will be diverted from the **main line** (04 22001)

**04 22030 switch half set**
**assembly** (01) for one side of a **switch** (04 22024) that comprises a **stock rail** (04 22147) and **switch rail** (04 22143)

**04 22031 two levelled switch**
**switch** (04 22024) layout in which **cant** (04 27010) is provided beyond the **switch heel** (04 22152)

**04 22032 crossing**
**assembly** (01) to permit the passage of wheel flanges across other **rails** (04 22051) where **tracks** (01) intersect

**04 22033 angle of crossing**
tangent of acute angle of a **crossing** (04 22032)

*NOTE Expressed as a ratio; usually based on centre line **measurements** (01).*

**04 22034 turnout**
**junction** (04 22040) that comprises a **switch** (04 22024), a **crossing** (04 22032) and **closure rails** (04 22061)

**04 22035 right hand turnout**
**turnout** (04 22034) in which one of the **tracks** (01) diverges to the right when viewed from a **switch toe** (04 22150) towards a **crossing** (04 22032)

**04 22036 left hand turnout**
**turnout** (04 22034) in which one of the **tracks** (01) diverges to the left when viewed from a **switch toe** (04 22150) towards a **crossing** (04 22032)

**04 22037 contra flexure turnout**
**turnout** (04 22034) in which the curves of diverging **tracks** (01) are of opposite hand

**04 22038 similar flexure turnout**
**turnout** (04 22034) in which the curves of diverging **tracks** (01) are of the same hand

**04 22039 tandem turnout**
two integral turnout (04 22034)

**04 22040 junction**
layout at intersection of **tracks** (01)

**04 22041 single junction**
**junction** (04 22040) that consists of a **turnout** (04 22034) and a **diamond crossing** (04 22045)

**04 22042 double junction**
**junction** (04 22040) that consists of two **turnouts** (04 22034) and a **diamond crossing** (04 22045)

**04 22043 crossover**
two **turnouts** (04 22034) connected to give directional movement from one **track** (01) to another

cf. **crossover** (04 11027), **crossover** (04 11028)

**04 22044 scissors crossover**
two integral **crossovers** (04 22043) of opposite hand

**04 22045 diamond crossing**
**junction** (04 22040) that consists of two **common crossings** (04 22177) and two **obtuse crossings** (04 22178)

**04 22046 switch diamond crossing**
**diamond crossing** (04 22045) in which the **obtuse crossing point rails** (04 22185) are **switch rails** (04 22143)

**04 22047 compound crossing**
**diamond crossing** (04 22045) with two or four **switches** (04 22024) that extends directional movement of vehicles

**04 22048 ladder**
series of **turnouts** (04 22034), **diamond crossing** (04 22045), **compound crossings** (04 22047) or any combination of these

**04 22049 catch point**
trap point
**assembly** (01) of **rails** (04 22051) that derails vehicles in the event of their unauthorized movement

**04 22050 trap point**
**assembly** (01) of **rails** (04 22051) that halts vehicles in the event of their unauthorized movement, so as to protect adjacent **tracks** (01)

**04 22051 rail**
steel **section** (01) to guide vehicles

**04 22052 flat bottom rail**
**rail** (04 22052) in which the **foot of rail** (04 22070) has a flat base

**04 22053 bull head rail**
**rail** (04 22051) in which **head of rail** (04 22069) and **foot of rail** (04 22070) are similarly shaped

**04 22054 normal quality rail**
**rail** (04 22051) that complies with a relevant standard

**04 22055 long welded rail**
**rail** (04 22051) formed by **welding** (BS 499-1) two or more lengths together

**04 22056 running rail**
**rail** (04 22051) that supports the flanged steel wheels of a **railway** (01) vehicle

**04 22057 continuous welded rail**
**running rail** (04 22056) that is a **long welded rail** (04 22055) longer than 55 m

**04 22058 low rail**
inner **running rail** (04 22056) of curved **track** (01)

**04 22059 high rail**
outer **running rail** (04 22056) of curved **track** (01)

**04 22060 gauge rails**
two **running rails** (04 22056) of **track** (01) at specified **gauge** (04 27003)

**04 22061 closure rail**
short length of **running rail** (04 22056) used to complete a **track** (01) **assembly** (01)

**04 22062 check rail**
**rail** (04 22051) beside a **running rail** (04 22056) to restrict lateral wheel movement

**04 22063 guard rail**
**rail** (04 22051) beside a **running rail** (04 22056) at a specific location for added security

*NOTE Typical applications are **viaducts** (01) and **level crossings** (04 22200).*

**04 22064 conductor rail**
additional **rail** (04 22051) for conveying **electric current** (12 27105) for traction at **track** (01) level

**04 22065 third rail**
single **conductor rail** (04 22064)

**04 22066 fourth rail**
second **conductor rail** (04 22064)

**04 22067 contact ramp**
device at the end of a **conductor rail** (04 22064) to ensure smooth contact of traction shoes

**04 22068 rail profile**
**profile** (01) of a **rail** (04 22051)

**04 22069 head of rail**
upper portion of a **rail** (04 22051)

**04 22070 foot of rail**
lower portion of a **rail** (04 22051)

**04 22071 web of rail**
mid-section of a **rail** (04 22051) between **head of rail** (04 22069) and **foot of rail** (04 22070)

**04 22072 crown of rail**
upper surface of **head of rail** (04 22069)

**04 22073 rail end**
end of **rail** (04 22051) prepared for **jointing** (01) to another **rail** (04 22051)

**04 22074 running off end**
**rail end** (04 22073) at which **traffic** in the predominant direction leaves that **rail** (04 22051)

**04 22075 running on end**
**rail end** (04 22073) at which **traffic** in the predominant direction runs on to that **rail** (04 22051)

**04 22076 running surface**
part of **head of rail** (04 22069) in contact with tyre

**04 22077 running face**
inside face of **head of rail** (04 22069) contacted by wheel flanges

**04 22078 back face**
outside face of **head of rail** (04 22069)

**04 22079 fishing angle**
inclination to horizontal of the lower surface of **head of rail** (04 22069) and of upper surface of the **foot of rail** (04 22070)

*NOTE The **fishplate** (04 22082) has corresponding angles on upper and lower surfaces.*

**04 22080 rail brand mark**
visible impression embossed on a **web of rail** (04 22071) giving details of the manufacture of the **rail** (04 22051)

**04 22081 rail joint**
**construction** (01) formed by **fixing** (01) together two **rails** (04 22051)

**04 22082 fishplate**
**plate** (01) to connect **rail ends** (04 22073)

**04 22083 skirted fishplate**
**fishplate** (04 22082) of increased **depth** (01) to provide additional **strength** (11 27007) at the ends of **bull head rails** (04 22053)

**04 22084 fishbolt**
**bolt** (01) for a **fishplate** (04 22082)

*NOTE Sometimes with a pear shaped shank under the head.*

**04 22085 fishplate hole**
round or pear shaped hole in a **fishplate** (04 22082)

**04 22086 fishbolt hole**
hole in **web of rail** (04 22071) in **rail end** (05 22073) for a **fishbolt** (04 22084)

**04 22087 bond hole**
hole in **rail** (04 22051) for attaching electrical bonding wires or **cables** (01)

**04 22088 insulated joint**
**rail joint** (04 22081) in which one **rail** (04 22051) is electrically insulated from another

**04 22089 insulated fishplate**
electrically insulated **fishplate** (04 22082) for an **insulated joint** (04 22088)

**04 22090 glued insulated joint**
**insulated joint** (04 22088) in which the **components** (01) are resin bonded

**04 22091 end post**
thin section of **insulating material** (01) that separates the ends of **rails** (04 22051) at an **insulated joint** (04 22088)

**04 22092 junction joint**
**rail joint** (04 22081) with different **rail profiles** (04 22068)

**04 22093 junction fishplate**
fitted fishplate
**fishplate** (04 22082) for a **junction joint** (04 22092)

**04 22094 expansion joint**
**rail joint** (04 22081) where the **fishplate** (04 22082) permits longitudinal movement of **rail ends** (04 22073)

**04 22095 tight joint**
**rail joint** (04 22081) employing **fishplates** (04 22082) but not facilitating longitudinal movement of **rail ends** (04 22073)

**04 22096 fully supported joint**
**rail joint** (04 22081) employing **fishplate** (04 22082) between **running rails** (04 22056) supported on **sleepers** (01) at ends of **rails** (04 22051)

**04 22097 semi-supported joint**
**rail joint** (04 22081) employing **fishplates** (04 22082) between **running rails** (04 22056) supported on **sleepers** (01) at or beyond the extremes of the **fishplates** (04 22082)

**04 22098 frozen joint**
**rail joint** (04 22081) employing **fishplates** (04 22082) in which longitudinal movement of a **running rail** (04 22056) is restricted by over-tensioned **bolts** (01) or inadequate lubrication

**04 22099 staggered joint**
**rail joint** (04 22081) in a **running rail** (04 22056) not opposite that in another **running rail** (04 22056)

**04 22100 direct fastening**
**rail** (04 22051) **fastening** (01) where the **rail** (04 22051) is fastened directly to the support

*NOTE Without, for example, a **baseplate** (04 22118) or **bull head chair** (04 22117).*

**04 22101 indirect fastening**
**rail** (04 22051) **fastening** (01) where the **rail** (04 22051) is supported in a **bull head chair** (04 22117) or **baseplate** (04 22118)

**04 22102 rail clip**
metal **fastening** (01) for fastening a **flat bottom rail** (04 22052) to a **baseplate** (04 22118) or **sleeper** (01)

**04 22103 toe load**
**force** (01) applied to **foot of rail** (04 22070) by **rail clip** (04 22102)

**04 22104 elastic spike**
spring steel **fastening** (01) to fasten a **baseplate** (04 22118) and **rail** (04 22051) to **timber** (01) **sleepers** (01)

**04 22105 key**
**wedge** (06 32230) that secures a **running rail** (04 22056) in a **bull head chair** (04 22117)

**04 22106 key liner**
thin **wood** (01) insert ensuring that a **key** (04 22105) fits

**04 22107 chair liner**
thin insert placed in a **jaw** (04 22224) for **gauge** (04 27003) adjustment

**04 22108 screw fastening**
**coach screw** (01) securing a **bull head chair** (04 22117) or **baseplate** (04 22118) to its support

**04 22109 coil**
metal liner used in worn holes to maintain **tension** (03 15002) of a **screw fastening** (04 22108)

**04 22110 spike lock**
metal liner used in worn holes to maintain **tension** (03 15002) of **elastic spike** (04 22108)

**04 22111 rail anchor**
steel restraint to the longitudinal movement of a **rail** (04 22051)

**04 22112 connecting block**
metal spacer between **webs of rails** (04 22071) with **bolts** (01) to maintain the alignment of an **assembly** (01)

**04 22113 clamp fishplate**
**fishplate** (04 22082) with G **fastening** (01) that provides temporary support at **rail ends** (04 22073)

**04 22114 adjustment switch**
device between **continuously welded rail** (04 22057) and jointed **rail** (04 22051) to permit longitudinal movement

**04 22115 gauge tie bar**
adjustable metal **bar** (01) inserted between **gauge rails** (04 22060) to restore and maintain **gauge** (04 27003)

**04 22116 gauge stop**
metal **plate** (01) fixed to the upper surface of a **sleeper** (01) against a **bull head chair** (04 22117) or **baseplate** (04 22118) to restrict **gauge spread** (04 27028)

**04 22117 bull head chair**
cast metal support for **bull head rail** (04 22053)

**04 22118 baseplate**
metal **plate** (01) support for a **flat bottom rail** (04 22052)

**04 22120 joint sleeper**
**sleeper** (01) immediately adjacent to a **rail joint** (04 22081)

**04 22121 longitudinal timber**
**timber** (01) support parallel to and under a **running rail** (04 22056)

**04 22122 pot sleeper**
block that gives vertical support to **running rail** (04 22056)

**04 22123 pad sleeper**
two **pot sleepers** (04 22122) with a metal **tie** (01) to maintain **gauge** (04 27003)

**04 22124 waybeam**
support beneath a **sleeper** (01) parallel to a **running rail** (04 22056)

**04 22125 pad**
resilient layer between a **running rail** (04 22056) and its support

**04 22126 end cap**
metal **plate** (01) embedded in **ballast** (04 23001) at the end of the support for a transverse **rail** (04 22051) to increase lateral stability of **track** (01)

**04 22127 keel board**
attachment to and between **sleepers** (01) embedded in **ballast** (04 23001) to increase lateral stability of **track** (01)

**04 22128 ballast shoulder**
heaped shoulder
**ballast** (04 23001) at the end of **sleepers** (01) to give lateral stability to **track** (01)

**04 22129 ballast hump**
**ballast shoulder** (04 22128) increased in **height** (01)

**04 22130 ballast furrow**
reduced **level** (01) of **ballast** (04 23001) between **tracks** (01)

**04 22131 ballast stool**
**ballast** (04 23001) that provides vertical support for **sleepers** (01)

**04 22132 ballast retaining wall**
**wall** (01) to retain **ballast shoulder** (04 22128) where it may be subject to **erosion** (05 25010)

**04 22133 blanket**
separation layer between **track formation** (04 24002) and **ballast** (04 23001)

*NOTE Usually **sand** (BS EN 12670).*

**04 22134 straight planed switch**
**switch** (04 22024) that contains a **straight planed switch rail** (04 22145)

**04 22135 curved planed switch**
**switch** (04 22024) that contains a **curved planed switch rail** (04 22146)

**04 22136 improved curved planed switch**
**curved planed switch** (04 22135) in which the **running faces** (04 22077) of the **switch rail** (04 22143) and the **stock rail** (05 22147) are tangential in the closed position

**04 22137 chamfered switch**
**switch** (04 22024) in which the **switch rail** (04 22143) and **stock rail** (05 22147) are machine planed to a matching angled cut to provide a robust **switch toe** (04 22150) with a small **switch toe entry angle** (04 22153)

**04 22138 undercut switch**
**switch** (04 22024) in which the **switch rail** (04 22143) is machine planed to recess under the **running face** (04 22077) of the **stock rail** (05 22147)

**04 22139 straight cut switch**
**switch** (04 22024) in which a **joggled stock rail** (04 22148) accommodates the machine planed **head of rail** (04 22069) **switch rail** (04 22143)

**04 22140 inset switch**
**switch** (04 22024) in which the **head of rail** (04 22069) of the **stock rail** (05 22147) is machine planed to accommodate the vertical inside face of the **switch rail** (04 22143)

**04 22141 thick web switch**
overriding switch
**switch** (04 22024) in which the **switch rail** (04 22143) has a thick **web of rail** (04 22071) that overlaps the unmachined **foot of rail** (04 22070) of the **stock rail** (05 22147)

**04 22142 slip switch**
**switch** (04 22024) in a **compound crossing** (04 22047)

**04 22143 switch rail**
switch tongue
**rail** (04 22051) of a **switch** (04 22024), part of which moves relative to **stock rails** (05 22147)

**04 22144 planing length**
length of **switch rail** (04 22143) of reduced cross-section

**04 22145 straight planed switch rail**
**switch rail** (04 22143) in which the **running face** (04 22077) of the **planning length** (04 22144) is straight on **plan** (BS ISO 10209-1)

**04 22146 curved planed switch rail**
**switch rail** (04 22143) in which the **running face** (04 22077) of the **planning length** (04 22144) is curved on **plan** (BS ISO 10209-1)

**04 22147 stock rail**
fixed **rail** (04 22051) of a **switch** (04 22024)

**04 22148 joggled stock rail**
**stock rail** (05 22147) in which there is a reversed set to accommodate the **switch toe** (04 22150)

**04 22149 switch front**
stock front
portion of **stock rail** (05 22147) between **switch toe** (04 22150) and **rail end** (04 22073) at start of **turnout** (04 22034)

**04 22150 switch toe**
front end of **switch rail** (04 22143)

**04 22151 switch tip**
top of **switch toe** (04 22150)

**04 22152 switch heel**
rear portion of a **switch** (04 22024) within which all **rails** (04 22051) are fixed

**04 22153 switch toe entry angle**
angle that the line of **planing length** (04 22144) makes with a **running face** (04 22077) of **stock rail** (05 22147) at the **switch toe** (04 22150)

**04 22154 switch heel angle**
angle between **switch rail** (04 22143) and **stock rail** (05 22147) at the **switch heel** (04 22152)

**04 22155 twist rail**
**rail** (04 22051) that is twisted about its **running face** (04 22077) at a point to change the verticality of the **rail** (04 22051)

**04 22156 stretcher bar**
flexible **bar** (01) that provides lateral connection between **switch rails** (04 22143)

**04 22157 soleplate**
metal **plate** (01) that spans beneath both **running rails** (04 22056)

*NOTE Usually at **switch toes** (04 22150) for added **gauge** (04 27003) security.*

**04 22158 switch anchor**
steel strap **assembly** (01) holding **switch rails** (04 22143) in position longitudinally at the **switch heel** (04 22152)

**04 22159 heel joint**
**rail joint** (04 22081) at **switch heel** (04 22152)

**04 22160 heel block**
metal block between **switch rail** (04 22143) and **stock rail** (05 22147) at **switch heel** (04 22152) to maintain correct geometry

**04 22161 switch protector**
device fitted to **stock rail** (05 22147), close to **switch toe** (04 22150) to reduce wear on a **switch** (04 22024)

**04 22162 switch timber**
piece of **timber** (01) that supports **rails** (04 22051) in a **switch** (04 22024)

**04 22163 concrete switch bearer**
**concrete** (01) **component** (01) that supports **rails** (04 22051) in a **switch** (04 22024)

**04 22164 switch slide**
flat portion of **baseplate** (04 22118) or **bull head chair** (04 22117) upon which **switch rail** (04 22143) slides

**04 22165 switch drive**
mechanism that moves **switch rail** (04 22143) relative to **stock rail** (05 22147)

**04 22166 switch motor**
motor for **powered switch** (04 22028)

**04 22167 switch clamp lock**
combined hydraulic driving and locking mechanism for a **powered switch** (04 22028)

**04 22168 switch drive rod**
metal **bar** (01) that connects **switch rail** (04 22143) to **switch drive** (04 22165)

**04 22169 connecting bar**
metal **bar** (01) that connects **switch rails** (04 22143) with their means of operation

**04 22170 switch lever**
hand lever
manually operated **switch drive** (05 22165) at **switch toe** (04 22150)

**04 22171 switch clamp**
device to render a **switch** (04 22024) inoperable

**04 22172 switch scotch**
**timber** (01) **wedge** (06 32230) placed between **stock rail** (05 22147) and **switch rail** (04 22143) to ensure **switch** (04 22024) remains inoperable

**04 22173 all welded crossing**
**crossing** (04 22032) with its **rail** (04 22051) parts welded together

**04 22174 semi-welded crossing**
**crossing** (04 22032) in which the **crossing vee** (04 22181) is welded and **wing rails** (04 22182) are bolted

**04 22175 built-up crossing**
composite crossing
**crossing** (04 22032) with its **rail** (04 22051) parts bolted together

**04 22176 cast crossing**
**crossing** (04 22032) in which **rails** (04 22051) are formed by monobloc casting

**04 22177 common crossing**
part of a **crossing** (04 22032) that comprises a **crossing vee** (04 22181) and two **wing rails** (04 22182)

**04 22178 obtuse crossing**
elbow crossing
part of a **crossing** (04 22032) that comprises a **wing rail** (04 22182), a **check rail** (04 22062) and two **obtuse crossing point rails** (04 22185)

**04 22179 swing nose crossing**
**common crossing** (04 22177) in which the **crossing vee** (04 22181) is moved to close the **flangeway** (04 27026) to give continuous support to a wheel

**04 22180 swing wing crossing**
spring wing crossing
**common crossing** (04 22177) in which the **wing rail** (04 22182) is moved to close the **flangeway** (04 27026) to give continuous support to a wheel

**04 22181 crossing vee**
two **rails** (04 22051) joined at an acute angle

**04 22182 wing rail**
short length of angled **rail** (04 22051) fastened to a **switch ail** (04 22143) or **obtuse crossing point rail** (04 22185)

**04 22183 common crossing point rail**
short length of **rail** (04 22051) with machined angled end to permit passage of a wheel flange within a **common crossing** (04 22177)

**04 22184 common crossing splice rail**
short length of **rail** (04 22051) with machined end, fixed to **common crossing point rail** (04 22183)

**04 22185 obtuse crossing point rail**
short length of **rail** (04 22051) with machined angled end to permit passage of a wheel flange within an **obtuse crossing** (04 22178)

**04 22186 crossing nose**
blunt nose
**chamfer** (01) end of **crossing vee** (04 22181), **obtuse crossing point rail** (04 22185) or **common crossing point rail** (04 22183)

**04 22187 crossing chair**
cast metal support for more than one **bull head rails** (04 22053) in a **crossing** (04 22032)

**04 22188 crossing baseplate**
**baseplate** (04 22118) supporting more than one **flat bottom rail** (04 22052) in a **crossing** (04 22032)

**04 22189 parallel wing**
**wing rail** (04 22182) without a **flangeway flare** (04 22223) for connection to a **check rail** (04 22062)

**04 22190 crossing timber**
piece of **timber** (01), other than a **switch timber** (04 22162), that supports **rails** (04 22051) in a **junction** (04 22040)

**04 22191 concrete crossing bearer**
**concrete** (01) **component** (01) that supports the **rails** (04 22051) in a **crossing** (04 22032)

**04 22192 side platform**
**railway platform** (01) with **track** (01) on one side continuing beyond the ends of the **railway platform** (01)

**04 22193 island platform**
centre platform
**railway platform** (01) with **tracks** (01) on both sides continuing beyond the ends of the **railway platform** (01)

**04 22194 bay platform**
**railway platform** (01) that borders one or both sides of a **track** (01) with a **buffer stop** (04 22211)

**04 22195 loading dock**
cattle dock
**railway platform** (01) for loading and unloading livestock and goods

**04 22196 platform coping**
**slab** (01) at the edge of a **railway platform** (01)

**04 22197 platform nosing**
edge of **platform coping** (04 22196) alongside **track** (01)

**04 22198 overhead line equipment**
equipment above **track** (01) for providing **electric current** (11 27105) for traction

**04 22199 lineside refuge**
recess in the **wall** (01) of a **tunnel** or at the side of a **track** (01) for safety of staff

**04 22200 level crossing**
layout at intersection of a **railway** (01) and a **road** (01) or **footpath** (01) at the same level

**04 22201 occupation crossing**
**level crossing** (04 22200) where the **road** (01) or **footpath** (01) is privately owned

**04 22202 accommodation crossing**
**level crossing** (04 22200) provided to maintain access between sections of **land** (01) severed by a **railway** (01)

**04 22203 open crossing**
**level crossing** (04 22200) without **gates** (05 12001) or **barriers** (01) and protected only by **traffic signs** (06 92006)

**04 22204 automatic open crossing**
**level crossing** (04 22200) without **gates** (05 12001) or **barriers** (01) and protected by **traffic signals** (04 12103) automatically operated on the approach of a train

**04 22205 barrow crossing**
access between **railway platforms** (01) at **track** (01) **level** (01) for barrows and authorized pedestrians

**04 22206 manually controlled barrier**
movable **barrier** (01), in one or two parts and manually controlled, extending across the full width of the **road** (01) at a **level crossing** (04 22200)

**04 22207 automatic barrier**
movable half or full **barrier** (01), activated by **railway** (01) vehicles, extending across the width of a **road** (01) at a **level crossing** (04 22200)

**04 22208 hump**
high point on a **track** (01) to enable **railway** (01) vehicles to move by gravity

**04 22209 sand-drag**
layer of **sand** (BS EN 12670) covering a **running rail** (04 22056) to decelerate a runaway **railway** (01) vehicle

**04 22210 turntable**
**track** (01) **assembly** (01) mounted on a revolving **structure** (01) so **railway** (01) vehicles may be turned

**04 22211 buffer stop**
stop block
**assembly** (01) at the end of a length of **track** (01) to stop **railway** (01) vehicles

**04 22212 wagon tippler**
mechanism for tipping a **railway** (01) wagon to discharge its contents

*NOTE Usually **coal** (BS 3323) or **aggregate** (01).*

**04 22213 assembly depot**
area for **track** (01) assembly

**04 22214 permanent way depot**
area for storage of **materials** (01) intended for assembly and **maintenance** (01) of **track** (01)

**04 22216 circular curve**
curve of curved **track** (01) of constant radius throughout its length

**04 22217 toe of transition**
point at which **track** (01) assumes curved form

**04 22218 heel of transition**
point at which length of transition attains least radius

**04 22219 crossing intersection point**
point at which the lines of two **running faces** (04 22077) intersect at a **crossing vee** (04 22181)

**04 22220 cant marking**
visual indication of amount of **cant** (04 27010) required at that point

*NOTE May be given on a **nail** (01) or **plate** (01).*

**04 22221 track bed**
layer of **ballast** (04 23001)

**04 22222 ballast profile**
**profile** (01) of **ballast** (04 23001) relative to a **sleeper** (01)

**04 22223 flangeway flare**
check rail entry
angled portion at the end of a **check rail** (04 22062) or **guard rail** (04 22063) to give a smooth entry for a wheel flange

**04 22224 jaw**
integral upstand on a **bull head chair** (04 22117) or **baseplate** (04 22118) to restrain the **rail** (04 22051) laterally

**04 22225 low joint**
**rail joint** (04 22081) of **running rail** (04 22056) deformed vertically by **railway** (01) traffic **load** (01)

**04 22226 high spot**
location on **track** (01) where the top of the **rail** (04 22051) is above the general longitudinal **profile** (01)

**04 22227 wet spot**
wash spot
location of **pumping** (04 25001) **defect** (01)

**04 22228 hanging sleeper**
**sleeper** (01) affected by **voiding** (05 25004)

## 4.3 Materials (04 23xxx)

**04 23001 ballast**
crushed **stone** (01), graded in **size** (01) and of angular **shape** (11 27004) supporting **sleepers** (01) vertically and laterally

**04 23002 ballast chippings**
crushed **stone** (01), 20 mm to 10 mm in **size** (01) and of angular **shape** (11 27004), restoring **rail** (04 22051) **level** (01) by filling the **voids** (03 28003) below **sleepers** (01)

## 4.4 Activities (04 24xxx)

**04 24001 widen gauge**
increase **gauge** (04 27003) with sharp curvature

**04 24002 track formation**
prepared surface of **ground** (01) on which **track** (01) is laid

**04 24003 relay**
replace a length of **track** (01)

**04 24004 rerail**
replace **running rail** (04 22056)

**04 24005 spot renewal**
replacement of one or more **track** (01) **components** (01) at a particular point

**04 24006 clean ballast**
remove deleterious material from **ballast** (04 23001)

**04 24007 ballast packing**
act of placing and compacting **ballast** (04 23001) under **sleepers** (01) to raise the **levels** (01) of **rail** (04 22051) or eliminate **voiding** (04 25004)

**04 24008 box up**
box in
place and distribute **ballast** (04 23001) to correct **ballast profile** (04 22222) around a **sleeper** (01)

**04 24009 beater packing**
method of **ballast packing** (04 23007) using a blunt-headed **tool** (01) to manually compact **ballast** (04 23001)

**04 24010 shovel packing**
method of **ballast packing** (04 23007) using bottom edge of shovel

**04 24011 measured shovel packing**
method of **shovel packing** (04 24010) with measured amounts of **ballast chippings** (04 23002)

**04 24012 joint packing**
restoration of **level** (01) at a **low joint** (04 22225)

**04 24013 hammer packing**
method of **ballast packing** (04 23007) using a portable vibratory hammer

**04 24014 spot packing**
**ballast packing** (04 23007) at a particular point in **track** (01)

**04 24015 tamp**
**ballast packing** (04 23007) with a **tamping tine** (04 26029)

**04 24016 stress**
**destress**
adjust **length** (01) of **continuous welded rail** (04 22057) and fastening down so that **rails** (04 22051) are theoretically free of **stress** (01) at a specified **rail** (04 22051) temperature

**04 24017 restress**
readjust **length** (01) of **continuous welded rail** (04 22057) and fastening down so that **rails** (04 22051) are theoretically free of **stress** (01) at a specified **rail** (04 22051) temperature

**04 24018 rail dressing**
Removal of **lip** (04 25014) with a portable grinding machine

**04 24019 joint squaring**
positioning **rail joints** (04 22081) opposite each other at right angles to the **gauge rails** (04 22060)

**04 24020 line**
correct alignment of **track** (01)

**04 24021** **rail adjustment**
**pulling back**
adjustment of **expansion gap** (04 28003)

**04 24022** **realign**
redesign the position of **track** (01)

**04 24023** **regauge**
reset **gauge rails** (04 22060)

**04 24024** **slew**
move existing **track** (01) to a different **alignment of track** (04 27007)

**04 24025** **patrol**
inspect **railway** (01) for **maintenance** (01) purposes

**04 24026** **track work**
work on a **track** (01)

**04 24027** **work off-track**
work on a **railway** (01) other than to the **track** (01) itself

**04 24028** **track fettling**
minor **maintenance** (01) within a length of **track** (01)

*NOTE Especially **tension** (03 15002) **fastenings** (01).*

**04 24029** **track glanding**
method of providing additional strength in areas of track formation weakness by strapping **sleepers** (01) together to provide additional **strength** (11 27007) in areas of **track formation** (04 24002) weakness

**04 24030** **sleeper squaring**
positioning **sleepers** (01) at right angles to **running rails** (04 22056)

**04 24031** **peg**
place a **stake** (BS EN 844) beside **track** (01) to indicate alignment or **level** (01)

**04 24032** **line possession**
occupation of **track** (01) in order to carry out work

**04 24033** **single line working**
movement of trains in either direction over a single **track** (01), as a temporary expedient

**04 24034** **protect**
provide staff for safety purposes during **track work** (04 24026)

## 4.5 Processes (04 25xxx)

**04 25001** **pumping**
forcing up of fine particles of **ballast** (04 23001) caused by vertical movement of **track** (01) support in wet conditions

**04 25002** **buckle**
track distortion
misalignment of **track** (01) caused by thermal **stress** (01)

**04 25003 rail creep**
longitudinal movement of **rail** (04 22051) induced by **railway** (01) traffic **load** (01) or temperature change

**04 25004 voiding**
creation of **space** (01) under a **sleeper** (01) due to displacement of **ballast** (04 23001) by **railway** (01) traffic **load** (01)

**04 25005 centre binding**
condition in **track** (01) when a **sleeper** (01) is supported only at or near its centre

**04 25006 end binding**
condition in **track** (01) when a **sleeper** (01) is supported only at its ends

**04 25007 cess heave**
**deformation** (01) of **cess** (04 28009) caused by changes in **moisture content** (12 27033) of **clay** (BS EN 12670) **soil** (01) and **effects of action** (BS ISO 15686) of **railway** (01) traffic **load** (01)

*NOTE Although the BS ISO 15686 series covers service life planning, "effects of action" is not specifically defined in the standard*

**04 25008 rail end batter**
significant localized wear of **crown of rail** (04 22072) at **rail end** (04 22073)

**04 25009 star cracking**
**fatigue** (03 17001) cracking around a **bolt** (01) hole in a **rail** (04 22051)

**04 25010 squat**
localized fragmentation and cracking of **running surface** (04 22076)

**04 25011 wheel burn**
**defect** (01) in **crown of rail** (04 22072) caused by slipping wheels

**04 25012 shelling**
flaking of **running surface** (04 22076)

**04 25013 corrugation**
wavelike longitudinal profile of **crown of rail** (04 22072) that develops in use

**04 25014 lip**
burr
lateral **deformation** (01) of **head of rail** (04 22069) **rail profile** (04 22068) caused by **railway** (01) traffic **load** (01)

**04 25015 sidewear**
wear of metal from **running face** (04 22077)

**04 25016 headwear**
wear on **head of rail** (04 22069)

**04 25017 rail cripple**
permanent **deformation** (01) of alignment of **rail** (04 22051)

**04 25018 galling**
wear on **foot of rail** (04 22070), **bull head chair** (04 22117) or **baseplate** (04 22118)

## 4.6 Plant, equipment and documents (04 26xxx)

**04 26001 analogue trace**
graphical record produced by a **track recording vehicle** (04 26002)

**04 26002 track recording vehicle**
on-track vehicle equipped to **measure** (01) and record **track** (01) geometry

**04 26003 automatic tamping machine**
on-track machine with an automatic **levelling** (BS 6953) device that lifts **track** (01) and packs **ballast** (04 23001) under **sleepers** (01) to restore both longitudinal and **cross levels** (04 27001) of **rails** (04 22051)

**04 26004 automatic tamping and lining machine**
**automatic tamping machine** (04 26003) that also lifts and **slews** (04 24024) **track** (01) simultaneously to restore **levels** (01) and alignment

**04 26005 pneumatic ballast injection machine**
stoneblower
on-track machine, with an automatic **levelling** (BS 6953) device, that lifts **track** (01) and injects a measured amount of small **stone** (01) under **sleepers** (01) to restore longitudinal and **cross levels** (04 27001) of **rails** (04 22051)

**04 26006 ballast regulator machine**
on-track machine that distributes **ballast** (04 23001) to required **ballast profile** (04 22222)

**04 26007 ballast consolidating machine**
on-track machine that mechanically consolidates **ballast** (04 23001)

**04 26008 ballast hopper**
on-track vehicle that conveys **ballast** (04 23001) and discharges it to the **track** (01)

**04 26009 ballast wagon**
on-track vehicle that conveys **ballast** (04 23001)

**04 26010 ballast plough**
on-track vehicle fitted with an adjustable steel blade that distributes **ballast** (04 23001) across the width of the **track** (01)

**04 26011 rail planer**
on-track machine with planing equipment used to re-profile **rail** (04 22051)

**04 26012 track gauge**
implement for setting, checking or **measuring** (01) **gauge** (04 27003) between **running rails** (04 22056)

**04 26013 platform gauge**
implement for setting or checking clearance between **railway platforms** (01) and **track** (01)

**04 26014 bridge gauge**
implement for setting or checking clearance between **overbridge** (04 11042) and **track** (01)

**04 26015 rail flaw detector**
ultrasonic apparatus to **test** (11 14010) **rail** (04 22051) non-destructively

**04 26016 voidmeter**
device for **measurement** (01) of difference between **static level** (04 27020) and **dynamic level** (04 27021)

**04 26017 expansion iron**
spacer placed temporarily between **rail ends** (04 22073) when laying **track** (01) to provide an **expansion gap** (04 28003)

**04 26018 rail end straightener**
equipment for straightening **rail** (04 22051) vertically

**04 26019 rail grinder**
powered grinding equipment for profiling **rail** (04 22051)

**04 26020 rail bender**
jim crow
portable equipment for bending **rail** (04 22051)

**04 26021 rail nip**
rail tongs
manually operated scissor type **tool** (01) for carrying **rails** (04 22051)

**04 26022 rail turning bar**
steel **bar** (01) for turning over a **rail** (04 22051)

**04 26023 slewing bar**
steel **bar** (01) used to **line** (04 24020) manually

**04 26024 rail puller**
portable equipment to move **rail** (04 22051) along **track** (01)

**04 26025 rail tensor**
hydraulically powered equipment to **stress** (04 24016 ) and **restress** (04 24017) **rails** (04 22051)

**04 26026 off-tracking equipment**
equipment for transferring on-track **plant** (01) from **track** (01) to side of **railway** (01)

**04 26027 sleeper tongs**
timber dogs
manually operated scissor type **tool** (01) for carrying **sleepers** (01)

**04 26028 rail lifting clamp**
clamp attached to **head of rail** (04 22069) for lifting **rail** (04 22051) by **crane** (01)

**04 26029 tamping tine**
spade-shaped **attachment** (01) to a portable **electric** (07 17002) vibratory hammer or an on-track machine to **pack ballast** (04 24007)

**04 26030 rail lubricator**
equipment for lubricating **running face** (04 22077) on curved **track** (01) to reduce **sidewear** (04 25015)

## 4.7 Properties (04 27xxx)

**04 27002 depth of cut**
vertical **dimension** (01) from underside of a **sleeper** (01) to **ballast** (04 23001) **excavation** (01) **level** (01)

**04 27003 gauge**
distance between **running faces** (04 22077)

**04 27004 standard gauge**
**gauge** (04 27003) within the range 1 432 mm to 1 435 mm inclusive

**04 27005 narrow gauge**
**gauge** (04 27003) significantly less than **standard gauge** (04 27004)

**04 27006 broad gauge**
**gauge** (04 27003) greater than **standard gauge** (04 27004)

**04 27007 alignment of track**
position of each **rail** (04 22051) on **plan** (BS ISO 10209-1)

**04 27008 switch radius**
switch curve
radius of **switch rail** (04 22143)

**04 27009 turnout radius**
radius of curved **track** (01) in a **turnout** (04 22034)

*NOTE Usually between **switch heel** (04 22152) and **crossing** (04 22032).*

**04 27010 cant**
**height** (01) by which a **high rail** (04 22059) exceeds a **low rail** (04 22058) to counteract centrifugal and other **forces** (01)

**04 27011 cross level**
difference in **level** (01) between **gauge rails** (04 22060) measured across **track** (01)

**04 27012 equilibrium cant**
**cant** (04 27010) that produces an equal **load** (01) on each **rail** (04 22051) at a given **railway** (01) traffic speed

**04 27013 cant deficiency**
**cant** (04 27010) permitted that is less than the **equilibrium cant** (04 27012) required

**04 27014 cant deficiency gradient**
rate at which **cant deficiency** (04 27013) changes in a given length

**04 27015 cant gradient**
rate at which **cant** (04 27010) changes in a given length

**04 27016 cant limiting value**
minimum or maximum **cant** (04 27010) for specified conditions

**04 27017 cant run up**
length of **track** (01) over which **cant** (04 27010) is increased

**04 27018 cant run down**
length of **track** (01) over which **cant** (04 27010) is decreased

**04 27019 twist**
**cross level** (04 27011) over a stated distance

*NOTE For example, the stated distance could refer to the wheel base of a **railway** (01) vehicle.*

**04 27020 static level**
**level** (01) of **running rails** (04 22056) without **railway** (01) traffic **load** (01)

**04 27021 dynamic level**
**level** (01) of **running rails** (04 22056) with **railway** (01) traffic **load** (01)

**04 27022 installation temperature**
mean temperature of **rail** (04 22051) at time of fastening down

**04 27023 working temperature**
temperature range within which work on **continuous welded rail** (04 22057) can take place

**04 27024 creep resistance**
**performance** (01) of a **sleeper** (01) and **fastening** (01) in resisting **rail creep** (04 25003)

**04 27025 crossing gap**
crossing throat
distance between points of wheel contact in a **crossing** (04 22032) to permit passage of wheel flanges

**04 27026 flangeway**
gap between **running face** (04 22077) of **rail** (04 22051) and **check rail** (04 22062) or **guard rail** (04 22063) for passage of a wheel flange

**04 27027 flangeway clearance**
specified **dimension** (01) of a **flangeway** (04 27026)

**04 27028 gauge spread**
wide gauge
increase in **gauge** (04 27003) due to wear of **track** (01) **components** (01)

**04 27029 lead length**
distance between **switch toe** (04 22150) and **intersection point** (04 12075)

## 4.8 Spaces (04 28xxx)

**04 28001 switch opening**
gap between **switch rail** (04 22143) and **stock rail** (04 22147) at **switch toe** (04 22150)

**04 28002 switch heel opening**
minimum gap between **switch rail** (04 22143) and **stock rail** (04 22147) at the beginning of the **planing length** (04 22144)

**04 28003 expansion gap**
**joint gap** (01) of an **expansion joint** (04 22094)

**04 28004 crib**
**space** (01) between adjacent **sleepers** (01)

**04 28005 fourfoot**
**space** (01) between **running rails** (04 22056) of a single **standard gauge** (04 27004) **track** (01)

**04 28006 interval**
**space** (01) between two adjacent **tracks** (01)

**04 28007 sixfoot**
**interval** (04 28006) six feet wide

**04 28008 tenfoot**
wideway
**interval** (04 28006) significantly more than six feet wide

**04 28009 cess**
**space** (01) or **footpath** (01) at the side of or between **tracks** (01)

**04 28010 permanent way section**
geographical area of **railway** (01) defined for administrative purposes

**04 28011 gang length**
area allocated to a supervised group of **operatives** (01) carrying out **maintenance** (01)

## 4.9 Miscellaneous (04 29xxx)

**04 29001 loading gauge**
**profile** (01) within which a stationary **railway** (01) vehicle and its **load** (01) has to be confined

**04 29002 structure gauge**
**profile** (01) outside which all **structures** (01) beside the **track** (01) have to be erected

**04 29003 out of gauge load**
**railway** (01) vehicles or **load** (01) having **dimensions** (01) outside the **loading gauge** (04 29001)

**04 29004 kinematic envelope**
**profile** (01) within which a **railway** (01) vehicle in motion is assumed to be contained

*NOTE It has to be within the **structure gauge** (04 29002).*

**04 29005 end throw**
horizontal displacement of a **railway** (01) vehicle at its ends when on curved **track** (01)

**04 29006 centre throw**
horizontal displacement of a **railway** (01) vehicle at its centre point when on curved **track** (01)

**04 29007 equilibrium speed**
speed of a **railway** (01) vehicle at which the **load** (01) applied to each **rail** (04 22051) of curved **track** (01) is equal

**04 29008 fouling point**
position between converging **tracks** (01) where **railway** (01) vehicles on each **track** (01) would collide

**04 29009 sighting distance**
distance at which **traffic** (01) signals can be observed by advancing **traffic** (01)

**04 29010 clearance point**
position between diverging **tracks** (01) where **loading gauges** (04 29001) clear each other with a specified safety margin

# 5 Air transport (04 3xxxx)

## 5.1 Parts (04 32xxx)

**04 32001 airside**
part of an **airfield** (01) or **airport** (01) that comprises the aircraft and any **customs controlled area** (04 38010)

**04 32002 landside**
part of an **airfield** (01) or **airport** (01) outside the aircraft operational area and any **customs controlled area** (04 38010)

**04 32003 aircraft pavement**
paved surface to facilitate surface movement of aircraft

**04 32004 runway**
defined rectangular area of an **airfield** (01) or **airport** (01) for landing and take-off of aircraft

**04 32005 strip**
defined area, free of obstructions, that encloses a **runway** (04 32004) or **taxiway** (04 32007) and a **stopway** (04 38004) to provide for the safety of aircraft operations

**04 32006 threshold**
beginning of the portion of the **runway** (04 32004) used for landing

**04 32007 taxiway**
defined path on an **airfield** (01) or **airport** (01) for surface movement of aircraft providing a link between one part of the **airfield** (01) or **airport** (01) and another

**04 32008 channelized zone**
part of an **aircraft pavement** (04 32003) that is continually trafficked on the same alignment

**04 32009 apron**
ramp area
part of an **airfield** (01) or **airport** (01) for loading or unloading aircraft and for parking aircraft

**04 32010 aircraft stand**
area of **apron** (04 32009) used regularly for parking aircraft

**04 32011 pier-served stand**
**aircraft stand** (04 32010) with passenger access via a **pier** (04 32012)

**04 32012 pier**
**corridor** (01) between a passenger **building** (01) and **aircraft stands** (04 32010)

**04 32013 loading bridge**
adjustable **bridge** (01) linking a **pier** (04 32012) or **air terminal** (01) to an aircraft

**04 32014 fixed servicing installation**
**installation** (01) to provide **services** (01) to aircraft on an **apron** (04 32009)

*NOTE Services include electricity, compressed air,* ***drinking water*** *(BS ISO 6107-1) and sanitation.*

**04 32015 operational readiness platform**
**ORP**
paved area at each end of and immediately adjacent to one side of the main **runway** (04 32004)

**04 32016 aviation ground lighting**
**lighting** (08 52001) that aids landing, take off and taxiing of aircraft

**04 32017 approach lighting**
pattern of lights arranged to denote the approach line to a **threshold** (04 32006)

**04 32018 barrettes**
short parallel rows of lights at right angles to the centre line of a **runway** (04 32004)

**04 32019 centre line lighting**
series of flush-fitting lights built into the centre line of a **runway** (04 32004), **taxiway** (05 32007) or **aircraft stand** (05 32010) to delineate the centre line

**04 32020 edge lighting**
**aviation ground lighting** (04 32016) delineating the edge of an **aircraft pavement** (04 2003)

**04 32021 visual approach slope indicator**
arrangement of signal lights symmetrically disposed about the centre line of a **runway** (04 32004) to provide guidance in maintaining the required approach slope of a landing aircraft

**04 32022 precision approach path indicator**
arrangement of signal lights on one side of a **runway** (04 32004) that provides guidance in maintaining the required approach slope of a landing aircraft

**04 32023 stop bar**
row of flush-fitting red lights at right angles across a **taxiway** (05 32007) that are illuminated to tell the pilot of a taxiing aircraft to stop

**04 32024 runway guardlights**
wig-wags
alternate isophase orange lamps sited at **runway** (04 32004) and **taxiway** (05 32007) crossing points

**04 32025 frangible mounting**
mounting for equipment designed to limit damage caused by an impact **load** (01)

**04 32026 blast screen**
fixed ground **structure** (01) that reflects the efflux of a jet engine

**04 32027 muffler**
**structure** (01) or equipment that reduces the noise from a stationary jet engine being run for **test** (11 14010) purposes

**04 32028 hydrant fuel system**
**pipe** (01) **installation** (01) distributing aircraft **fuel** (01) from a central supply to fixed outlets on **aircraft stands** (04 32010)

**04 32029 arrester barrier**
net of vertical strips of webbing stretched between hinged **stanchions** (01) either side of the **stopway** (04 38004), near the end of a **runway** (04 32004), capable of being raised by remote control to arrest an aircraft over-running the **runway** (04 32004)

## 5.2 Properties (04 37xxx)

**04 37001 pavement classification number**
dimensionless parameter ascribed to an **aircraft pavement** (04 32003) indicating the maximum **aircraft classification number** (04 37002) for unrestricted trafficking

**04 37002 aircraft classification number**
dimensionless parameter that expresses the relative effect of different aircraft on an **aircraft pavement** (04 32003) with a specified subgrade **strength** (11 27007)

**04 37003 airport elevation**
elevation of the highest point of the **landing area** (04 38002)

**04 37004 emergency distance**
sum of the length of **runway** (04 32004) and the length of the **stopway** (04 38004)

**04 37005 wing tip clearance**
distance between an aircraft wing tip and any obstruction

## 5.3 Spaces (04 38xxx)

**04 38001 movement area**
part of an **airfield** (01) or **airport** (01) that comprises the manoeuvring area, **apron** (04 32009) and aircraft maintenance area

**04 38002 landing area**
**movement area** (04 38001) associated with the landing and take-off of aircraft

**04 38003 runway strip**
**strip** (04 32005), excluding **taxiway** (05 32007)

**04 38004 stopway**
rectangular area at the end of a **runway** (04 32004) designated as a suitable area in which aircraft can be stopped in an abandoned take-off

**04 38005 runway end safety area**
area that extends beyond the end of a **runway** (04 32004) and a **strip** (04 32005) primarily intended to reduce the risk of damage to an aeroplane under-shooting or over-running the **runway strip** (04 38003)

**04 38006 clearway**
rectangular area at the end of a **runway** (04 32004) over which an aircraft may make a portion of its initial climb to a specified height

**04 38007 shoulder**
surfaced area beside an **aircraft pavement** (04 32003)

**04 38008 holding bay**
area of **aircraft pavement** (04 32003) where aircraft can be held on the ground, or bypassed, to facilitate efficient surface movement of aircraft

**04 38009 cleared zone**
part of an **airfield** (01) or **airport** (01) adjacent to a **shoulder** (04 38007) that has a reasonably even surface and is free of obstacles to permit safe operation of aircraft

**04 38010 customs controlled area**
part of **airfield** (01) or **airport** (01) for loading and unloading goods and embarkation and disembarkation of passengers and crew, and within which all aircraft arriving or departing on international flights are brought for customs examination and clearance

**04 38011 compass calibration base**
area that is essentially free from magnetic anomalies so compasses can be calibrated

# Bibliography

For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

**Standards publications**

BS 499-1, *Welding terms and symbols – Part 1: Glossary for welding, brazing and thermal cutting*

BS 3323, ISO 1213-2, *Glossary of terms relating to sampling, testing and analysis of solid mineral fuels*

BS 7941-1, *Methods for measuring the skid resistance of pavement surfaces – Part 1: Sideway-force coefficient routine investigation machine*

BS EN 844-1, *Round and sawn timber – Terminology – Part 1: General terms common to round timber and sawn timber*

BS 6953, ISO 7078, *Terms for procedures for setting out, measurement and surveying in building construction (including guidance notes)*

BS 6068-1.1, BS ISO 6107-1, *Water quality – Vocabulary – Part 1*

BS EN 12620, *Aggregates for concrete including those for use in roads and pavements*

BS EN 12670, *Terminology of natural stone*

BS EN 12970, *Mastic asphalt for waterproofing – Definitions, requirements and test methods*

BS ISO 10209-1, *Technical product documentation – Vocabulary – Part 1: Terms relating to technical drawings: General and types of drawings*

BS ISO 15686, *Buildings and constructed assets – Service life planning*

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