

Universal Decimal Classification —

English full edition —
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UDC 625 Civil engineering of land
transport —
Railway engineering —
Highway engineering

UDC 025.45:625

Cooperating organizations

The Documentation Standards Committee, under whose supervision this British Standard was prepared, consists of representatives from the following Government departments and scientific, technical and professional organizations:

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Foreword

The English version of the Universal Decimal Classification (UDC) is being prepared and published as BS 1000 by the British Standards Institution (BSI) at the original joint request of the British Society for International Bibliography (BSIB) and the Association of Special Libraries and Information Bureaux (ASLIB), now amalgamated as Aslib. It has the approval of the Lake Placid Education Foundation, New York, proprietors of the Dewey Decimal Classification, from which the UDC derives. The first English Full Edition is the 4th International edition authorized by the International Federation for Documentation (FID), The Hague, Netherlands.

This section is part of the English Full Edition. It should be used in conjunction with the Abridged English Edition, BS 1000A, which refers to many other subjects of interest not listed in this schedule, and provides a conspectus of the whole scheme, together with an introduction to its use. For further practical information about the principles, application and utilization of the scheme, users should refer to BS 1000C.

This edition of UDC 625 includes modifications authorized in “Extensions and Corrections to the UDC” up to and including Series 9, No. 2, dated March 1976. Subsequent issues of “Extensions and Corrections to the UDC” should be consulted to keep the schedule up to date. Further information about this and other UDC publications is given on page 21. British Standards related to this part of BS 1000 are listed on the inside back cover.

A British Standard does not purport to include all the necessary provisions of a contract. Users of British Standards are responsible for their correct application.

Compliance with a British Standard does not of itself confer immunity from legal obligations.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 22, an inside back cover and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.

Scope

Under 625 is classed information about the civil engineering of land transport, particularly railway and highway engineering. Transport vehicle engineering comes under 629, administrative and organizational aspects of transport services and traffic come under 656, whilst rail and road transport from the commercial or economic point of view are classed under 385 and 388 respectively.

Related subjects

383/388	Communications. Transport
528.42	Engineering surveys
621.13	Railway steam locomotives. Steam railcars
621.33	Electric traction. Electric locomotion
621.86	Materials handling
621.87	Cranes. Transporters. Lifts. Escalators. Levellers. Excavators. Dredgers
622.62	Haulage on railways and tracks: trams and tubs, locomotives. Cable railways — Mining
624	Civil and structural engineering
629	Transport vehicle engineering
654	Telecommunication services: organization, administration and operation
656/656.7	Transport services. Traffic organization and control
69	Building: materials, construction, trades
711	Principles and practice of physical planning. Regional, town and country planning
712	Planning of landscape, natural and designed. Parks. Gardens
725.3	Buildings for transport, traffic, storage

Auxiliary signs and subdivisions

Full information about the common and special auxiliary signs and subdivisions (often abbreviated to “common and special auxiliaries”) will be found in BS 1000A and BS 1000C.

Colon sign of relation. For the classification of information for the public, as in abstracts and bibliographies, maximum use of colon combinations rather than of common or special auxiliaries is recommended. The use of the colon sign of relation is preferable for multiple entry systems, as it will help prevent the concealment of information. This usually results in longer notation, however, and for information for more restricted use, the application of auxiliaries, where available, may be simpler and more convenient provided that there is an adequate alphabetical subject index.

Common auxiliaries. The common auxiliaries of language = . . . , form (0 . . .), place (1/9), race and nationality (= . . .), time “ . . . ”, point of view .00 . . . , materials –03 . . . , and persons –05 . . . are applicable throughout the UDC. However, they should be used mainly to express concepts not otherwise provided for in the schedules.

Special auxiliaries. The .0 special auxiliaries listed at 625 are applicable throughout the schedule. They may be detached and applied to any subdivision of 625 where the result forms a meaningful combination, e.g.

625.098 Traffic noise

625.712 Urban roads

625.712.098 Traffic noise on urban roads

The –1/–3 and –5/–9 special auxiliaries listed at 62 are applicable throughout the schedule.

Typographic presentation

Small type is used for cancelled numbers and text.

The arrow → means either “see” or “see also” according to the context.

The symbol ≈ “subdivide as” means that the number preceding it may be subdivided in the same way as, and with meanings analogous to the subdivisions of, the number which follows it.

Schedule

625 Civil engineering of land transport.**Railway engineering. Highway engineering.**

Machinery details may be denoted by the -1/-3 and -5/-9 special auxiliaries listed at 62

Special auxiliary subdivisions for 625

625.02	THEORY OF ROAD PAVEMENT DESIGN	625.032.825	Curve resistance
.021	Flexible road pavements, <i>e.g.</i> bitumen macadam, tarmacadam, gravel	.826	Braking resistance
.022	Rigid road pavements, <i>e.g.</i> concrete	.84	Risk of derailment of the driving wheels
.023	Stabilized soil road pavements, <i>e.g.</i> mixed-in-place, lean concrete	.86	Equations of motion. Requisite motive, propulsive or tractive forces. Tractive effort (output performance). Energy dissipation
625.03	INTERACTION BETWEEN VEHICLE AND TRACK. THEORETICAL INVESTIGATIONS. PRACTICAL EXPERIMENTS AND RESULTS. RESISTANCE TO MOTION	.87	Determination of the running schedules and duration of run → 629.4.014 Functional capabilities and mode of use of vehicles, <i>i.e.</i> vehicle characteristics
.031	Contact between vehicle and track	629.42	Kinds of traction. Motive power units
.1	Between wheel and track. Rail and tyre sections	656.22	Train services. Timetables
.3	Geometrical relations between vehicle and track. Steering of the vehicle in a curved path	.033	Stresses in the vehicle and the track
.032	Chemical processes and physical (mainly mechanical) effects acting between vehicle and track → 629.015 Mechanics and dynamics of vehicles 629.017 Operational reliability. Stability. Manoeuvrability. Braking capacity	.3	Track resistance
.3	Action and effect of contact between single wheel and track <i>For friction</i> → 531.4	.32	To vertical static forces
.32	Surface properties of wheel and track. Roughness etc	.34	To vertical dynamic forces
.37	Wheel slip	.35	To horizontal forces in a straight track
.39	Corrugation of track <i>For formation of corrugation</i> → 625.033.373.4	.36	To horizontal forces in a curved track. Centrifugal force
.4	Mechanical actions and effects between vehicle and track in a straight path	.37	Track deformation. Displacement of the track. Creep and misalignment of the rails → 625.143.58. Rail creep. Precautions against rail creep. Anti-creep devices
.42	With stationary vehicle	.372	Due to fissures and flaws in track or road surface → 625.143.3 Rail fractures, fissures
.43	With moving vehicle	.373	Due to wear
.432	Effects of uneven track or wheels out of round	.2	Normal wear
.433	Effects of unbalanced masses	.4	Wear due to braking. Formation of corrugation. Formation of ruts → 625.032.39 Corrugation of track
.434	Dipping, rolling, swaying movements. Hunting	.38	Bearing capacity of the substructure (track formation). Track stability
.435	Vibrations of the vehicle	.4	Stresses in the vehicle 625.033.42/.46 ≈ 625.033.32/.36
.44	Effects of track elasticity	.47	Due to traction or propulsion forces and other effects of motion
.5	Mechanical actions and effects between vehicle and track on a curved path	625.04	INFLUENCES ON TRACKS AND ROADS. PROPERTIES OF TRACKS AND ROADS IN RELATION TO THESE INFLUENCES
.52	Curve with constant radius	.041	Influence of the method of construction
.55	Run-on and run-off of curves. Running over transition curves	.1	Of the formation of earthworks or substructures
.6	Mechanical actions and effects while running over bridges, level crossing etc <i>For calculation of the dynamic stress of loads moved over bridges</i> → 624.21.042.8	.2	Of combinations of materials
.7	Risk of overturning, derailment or skidding of the vehicle	.3	Of heating the materials
.72	Risk of overturning	.4	Of the method of laying track or wearing course
.75	Risk of derailment or skidding	.042	Atmospheric and physical influences and properties in relation to these influences
.8	Effects of and reactions to motion of vehicle. Resistance to motion. Traction (tractive) resistance	.1	Influence of water
.82	Resistance to motion and reactions caused by braking forces	.2	Influence of frost → 624.142 Effects of low temperature. Frost action. Frost damage — Civil and structural engineering
.821	Aerodynamic and rolling resistances → 533.68 Aerodynamic studies including interference problems of bodies moving on or near the ground, decks or water	.3	Influence of heat, temperature
.823	Effects of acceleration and deceleration	.35	Condensation
.824	Gradient resistance	.4	Influence of air
		.5	Influence of light on the surface. Diffusion, scattering of light. Absorption. Reflection
		625.06	BINDERS AND THEIR USE
		.061	Hot binders
		.062	Binders in solution form
		.2	Road oils (mixture of bitumen and heavy oils)

625.062.3	Cutbacks (mixture of bitumen and light oils)	625.088	Machinery and equipment for the preparation of road material
.063	Binders in emulsion form	.089	Surfacing. Repair and minor improvements
.065	Binders in powder form	.1	Surfacing. Surface dressing
.066	Coating. Impregnation. Pretreatment of road-making materials	.11	Wearing surface in general
.2	Coating	.111	Wearing surface
	<i>Further particulars may be denoted by the 0611.065 special auxiliaries above</i>	.5	High-quality wearing surface
.067	Grouting (penetration, injection method)	.112	Sealing coat
.068	Mixing methods	.12	Surface dressing. Addition, spreading of chippings. Gritting
.1	Mixing of aggregate and binder before laying (Plant mix)		→ 625.75 Surface treatment
.2	<i>In situ</i> mixing of aggregate and binder	.17	Provision for surface boxes, street furniture etc
625.07	AGGREGATES AND OTHER (MINERAL) MATERIALS	.2	Minor repairs
	→ 625.02 Theory of road pavement design	.21	Removal of material from worn areas
.071	Preparation. Grading	.23	Replacing worn or damaged sections. Repairs to road pavement
.072	Coarse aggregate. Crushed stone. Gravel. Other aggregates with particle size larger than sand	.25	Repair to cracks, crevices etc. Use of concrete and similar materials
.073	Fine aggregate. Sand and other fine-grain materials	.26	Elimination of local surface deformations and irregularities
.074	Fillers. Powders. Flours	.4	Minor improvements
625.08	PLANT AND MACHINERY FOR ROAD CONSTRUCTION. FINISHING. MAINTENANCE, REPAIR AND MINOR IMPROVEMENTS	.42	Raising of level
.083	Filling of joints and voids	.43	Lowering of level
.2	With sand	.45	Widening
.4	With cement mortar	.46	Narrowing
.5	With bituminous materials	.47	Re-alignment
.084	Rolling. Road rollers	.48	Alteration of type of road pavement
.085	Compaction. Compaction equipment	625.09	OTHER MATTERS
.086	Scrapers. Road graders	.094	Special coloured surfacings
.087	Scarifying of the road pavement	.095	Skid prevention
.5	Road scarifiers		→ 624.144.8 Devices to prevent and minimize slipping and skidding on ice and snow
			625.032.37 Wheel slip
		.096	Traffic safety and restriction during roadworks
		.097	Dust formation and prevention
		.098	Traffic noise

Principal divisions

625.1/.5	RAILWAYS. TRAMWAYS. CABLE RAILWAYS. AERIAL ROPEWAYS AND CABLEWAYS	625.114	Studies of the cross-section of the track formation. Calculation of the earthworks. Clearance, train gauge
	<i>The -1/-3 and -5/-9 special auxiliaries listed under 62 are particularly applicable here</i>	.115	Theoretical studies of the superelevation and of gauge widening
625.1	RAILWAYS IN GENERAL. PERMANENT WAY. TRACK CONSTRUCTION	.12	Foundations and subgrade. Drainage
	→ 624.19 Tunnels and tunnelling	.121	Acquisition of land. Ground in railway ownership
	624.21/.8 Bridges		→ 347.243.1 Expropriation for purposes of public utility — Law
	629.4 Transport by rail. Locomotives and rolling stock. Railway yards. Installations and services concerned with rolling stock		351.71 2.5 Expropriation for public purposes — Public administration
	656.2 Transport by rail. Railways	.122	Construction and consolidation of earthworks. Cuttings, embankments, fills, landslips, slips, wash-outs. Methods of protection
	725.3 Buildings for transport, traffic, storage	.123	Drainage installations. Precautions against flooding. Lowering of the water table (ground water lowering). Precautions against frost etc
.11	Theoretical investigations. Route planning and specification		→ 624.139 Frozen ground engineering
.111	General studies of line layout. Projects and plans for lines. Topographical surveys. General questions relating to the line including stations, junctions, engineering structures, level crossings, tunnels. Specification of new or existing lines. Plans for extension of installations	.14	Permanent way in general
.112	Track gauge. Matters relating to the junction of lines of differing gauge	.141	Ballast. Ballasting materials
.113	Studies of longitudinal section. Gradients. Curves. Transition curves in the horizontal and vertical planes	.1	Selection and quality of the ballasting materials
		.2	Depth and profile of the ballast
		.3	Drainage of the ballast
		.142	Transverse and longitudinal sleepers. Ties
		.1	Basic problems. Comparisons
		.2	Timber (wooden) sleepers. Cross-ties
		.21	Transverse sleepers
		.212	Dimensions. Shapes, cross-sections
		.213	Materials
		.214	Drying. Adzing. Drilling. Dowelling, pegging

625.142.215	Impregnation, soaking	625.143.58	Rail creep. Precautions against rail creep.
.216	Adzing. Re-adzing		Anti-creep devices
.217	Precautions against cracking or splitting.	.59	Other matters concerning fastening to rails
	Hooping, binding of sleepers	.144	Track laying
.22	Longitudinal sleepers	.1	Design. Equipment. Spacing of sleepers. Length and location of joints. Rail length
	625.142.22 $\cong$ 625.142.21		→ 625.143.1 Rail profile. Rail sections and weight of rails. Length of rails. Classification (types) of rails
.23	Isolated (independent block) supports	.2	Widening of gauge and superelevation. Laying of rails on curves
	625.142.23 $\cong$ 625.142.21		→ 625.115 Theoretical studies or planning of the superelevation and of gauge widening
.3	Steel sleepers	.21	Measuring equipment for curves
.4	Stone sleepers. Concrete sleepers	.3	Construction of junction tracks
.42	Transverse sleepers of reinforced concrete	.4	Track laying work. Preparation of the track.
.43	Composite concrete sleepers		Pegging-out, filling-in, ballasting, rail-bending, packing and tamping of sleepers etc
.44	Prestressed concrete sleepers	.5	Machines for track laying and installation.
.45	Other types of stone or concrete sleeper		Appliances for conveyance and installation of prefabricated track. Machines and appliances for testing the track system, for rail-lifting and for preparation of track formation. Track-tamping machinery
.143	Rails and rail fastenings	.6	Machines and equipment for operations on individual track components. Portable drilling machines for sleepers and rails. Rail tongs.
.1	Rail profiles. Rail sections and weight of rails.		Sleeper nips. Rail saws. Appliances for bending, straightening, hoisting, planing, shaping of rails.
	Length of rails. Classification (types) of rails		Machines for inserting and withdrawing chair screws and spikes. Tools for screwing down bolts.
.12	Old-type rails. "Mushroom" rails. Single-head rails	.7	Sleeper planing machines
.13	Flat-bottom, flange rails (Vignol rails)		Hand tools for track-laying operations, e.g. packing of sleepers
.14	Bull-head or double-head rails	.145	Appliances for moving and dismantling the track.
.15	Grooved or channelled rails. Tramway rails	.146	Appliances for transport of rails
.17	Junction rails. Connecting rails	.15	Workshops, depots for permanent way.
.18	Guard rails. Check rails. Safety rails		Construction trains
.19	Other types of rail		Connections between tracks. Crossings, cross-overs. Junctions and branches.
.2	Quality of rails. Heat treatment. Standard specifications. Acceptance tests		Track accessories
	→ 620.1 Testing of materials. Defects of materials. Protection of materials	.151	Turnouts. Switches (points) and switch crossings.
.3	Rail fractures, fissures		Curved switch and rail connections
	→ 620.19 Material defects and their testing. Chemical and physicochemical influences. Corrosion. Erosion	.2	Type and shape of switches
	<i>For deformation of track due to wear</i>	.21	According to the direction and number of turnouts
	→ 625.033.373	.23	Trailing of switches
.4	Rail joints and fishplates. Fishbolts	.25	Various types of switch according to the action of the switch blade on the tongue
.42	Positioning of joints. Normal fishplates	.251	Fixed-point (heel-type) switches
.43	Fishplate joints with skew-cut (feathered) rail ends. Thermal expansion gaps for long rails	.253	Spring-tongue switches
.44	Wear of fishplates. Heat treatment	.26	Parts of switches
.45	Arrangement of joints. Relative position of joints in the two rails (alternate, staggered joints)	.261	Switch blades, tongues
.46	Insulation of rail joints	.262	Slide chairs. Switch plates
.47	Fishplates of special design, e.g. cranked fishplates	.3	Switch actuation and means of operation
.48	Welding of joints for all kinds of rail. Continuous welded rail		→ 656.25 Safety measures. Signals — Transport by rail
	<i>Further particulars may be denoted by colon combination, e.g.</i>	.31	Hand operation. Point levers
	625.143.48:621.791 Welding of rails	.32	Automatic operation
.482	Use of long (continuous welded) rail. Stability of rails without joints	.33	Semi-automatic operation
.5	Fastening of rails to sleepers. Rail creep	.34	Remote operation. Signal box mechanisms
.51	Tension fastenings for rails	.5	Various locking and interlocking devices. Control of switches and their transmissions
.52	Base-plates, sole-plates on the transverse sleepers and fastening of rails thereto	.52	Switch, point locking by means of bolt lock on plunger
.525	Elastic, resilient base-plates	.53	Switch locking by means of toggle joint mechanism
.53	Rail chairs (base-plates) for sleepers and fastening of rails thereto	.54	Detector, locking bar
.532	Metallic (steel, iron) rail chairs	.55	Safety locks actuated by break in mechanical transmission wires
.535	Chairs of non-metallic material, e.g. rubber	.57	Compensating apparatus and transmissions for switches
.54	Fastening of rails, base-plates and chairs to transverse sleepers by means of clips, spikes, screws, track bolts etc		
.541	Fastening to timber sleepers		
.542	Fastening to metal sleepers		
.543	Fastening to reinforced concrete sleepers and other types of sleeper		
.56	Fastening of rails to longitudinal sleepers and to isolated supports. Transverse connections (rail braces, spacing ties) for these types of track		
.57	Fastenings and connections for sleeper rails and composite, compound rails, e.g. double, twin, two-piece rails; three-piece, triple rails for tramways		

625.151.58	Control of throwing, and operation of switches and signals. Answer-back (check) signal for indication of correct operation	625.173.3	Line correction
.6	Switch operation from the vehicle	.4	Correction of curvature
.67	By electrical devices	.5	Correction of track top and superelevation.
	→ 621.337.6 Methods and devices for the control of rail-points, line-points and signals, by the vehicle, and by hand inside the vehicle	.6	Packing and tamping
.8	Switch crossings, individual parts of switches, turnouts	.6	Renewal of materials for the permanent way.
.81	Switch crossings. Frogs		Reclamation and reconditioning of old materials.
.811	Crossing piece, crossing vee	.7	Building-up and repair of the track by welding
.1	Solid one-piece crossing		Renewal of the ballast. Cleaning of the ballast
.2	Crossing nose (point of frog)	.174	Keeping the track clear during snowfalls
.3	Wing rails		→ 624.144.5 Snow and ice removal. Snow melting
.812	Guide rails		625.151.9 Laying and maintenance of switches. Clearing of switches in winter
.84	Temporary track connections		629.464.22 Snowploughs
.9	Laying and maintenance of switches. Freeing of switches in winter	.175	Weed-killing (procedure, tools, substances, scheme)
.152	Line, rail, track crossings	.176	Alteration of gauge
	625.152 $\cong$ 625.151	.18	Location and number of tracks. Nature, profile of track (straight or curved, level or inclined etc)
.153	Slip switches		[cancelled] use 625.1 and its subdivisions
	625.153 $\cong$ 625.151	.2	Rolling stock, locomotives etc [cancelled] → 629.4
.154	Turntables. Turn bridges	.01	Parts (other than power units) [cancelled]
.155	Transfer tables. Traversers		→ 629.4.02
.156	Buffer stops and similar devices. Retarders	.22	Cross-section, throw-over on curves [cancelled]
.2	Buffer stops		→ 629.4.012.4
.3	Wheel stops. Scotch blocks. Skid shoes	.23	Passenger coaches, cars, carriages [cancelled]
.4	Sand drag		→ 629.434, 629.45
.6	Stop or brake blocks	.24/.249	Freight wagons, trucks, vans etc [cancelled]
.7	Retarder or check points		→ 629.46
.8	Rail brakes	.26	Repair shops for carriages and wagons [cancelled]
.9	Other devices		→ 629.47/.48
.157	Various additional equipment. Distance indicators etc	.27	Loading, freight transferring, derailling, rerailling, shunting and cleaning appliances [cancelled]
.16	Additional equipment		→ 629.464, 629.48
.161	Houses for crossing keepers. Huts for plate-layers, flagmen, linesmen	.28/.287	Traction. Tractor units. Locomotives [cancelled]
.162	Level crossing barriers		→ 629.42, 629.434, 629.464
.1	Level crossing gates (style and construction)	625.3	RAILWAYS OF SPECIAL CONSTRUCTION
.12	Single gates		<i>Further particulars may be denoted by colon combination with, e.g., the subdivisions of 625.1 or 629</i>
.14	Four-gate crossings		→ 625.5 Cable railways. Funiculars. Telphers.
.2	Operation of the gates		Aerial ropeways and cableways
.21	By the crossing keeper		629.43 Rail transport using special engines.
.22	By remote control		Engines and vehicles for town and suburban transport and for use over relatively short distances <i>especially</i>
.23	By trains		629.431/.434
.4	Road traffic signs at rail crossings. Warning and safety devices. Acoustic warning signals		
	→ 656.055 Fixed traffic signs. Direction signs. Warning signs	.31	Narrow gauge railways
	656.25 Safety measures. Signals — Transport by rail	.311	Between 1 000 mm (3 ft 3½ in) and 1 435 mm (4 ft 8½ in) gauge
.5	Devices for checking correct operation	.312	Up to 1 000 mm (3 ft 3½ in) gauge
.6	Level crossings. Intersection with tramway lines.	.32	Adhesion railways for steep grades
	Other fixed installations	.321	On ordinary rails
.7	Visibility and accident prevention at level crossings. Elimination of level crossings	.322	With middle rails and friction rollers
.8	Boundary stones. Enclosures. Fences	.33	Rack railways
.163	Cultivation and planting of railway land	.34	Monorail with gyro stabilizer
.164	Snow protection equipment. Other types of protective equipment, e.g. for protection against rock falls. Protective galleries etc		→ 625.54 Overhead suspension railways (with rigid tracks)
	→ 624.127 Securing of rock slopes.	.35	Broad gauge railways
	Protective works in mountainous country	.36	Moving footways
	624.144.4 Control of snow drifting, e.g. by snow fences, hedges, galleries	.37	→ 621.876.32 Escalators. Moving stairs
.165	Access roads, ramps. Yards, gardens etc	.39	Railways with driverless trains [cancelled] use colon combination with 62-52
.17	Organization for servicing and maintaining the line		Other railways of special type. Atmospheric railways. Compressed air railways. Balloon railways. Glider railways. Railways with endless screws
.171	Inspection and control of the line. Inspection vehicles	625.4	ELEVATED RAILWAYS. UNDERGROUND RAILWAYS. SUBURBAN RAILWAYS. METROPOLITAN RAILWAYS. TRAMWAYS
.172	Running maintenance. Condition of line. Maintenance of gauge		<i>Further particulars may be denoted by colon combination with, e.g. the subdivisions of 625.1 and 629</i>
625.173	Reconstruction. Renewal work		→ 629.43 Rail transport using special engines.
	<i>For machinery and tools for work on the permanent way</i> → 625.144.5/.7		Engines and vehicles for town and suburban transport and for use over relatively short distances, <i>especially</i> 629.431/.434
.1	Regular inspection. Programmes		
.2	Correction of rails and tracks (surveying, alignment)		