

British standards and codes of practice relating to steel construction

The following is a list of british standards relating to various aspects of the use of steel in construction. The list is not exhaustive and is subject to alteration as new or amended standards are introduced. Please contact the bsi direct for further information.

Structural steel design

Loading

BS 5400 : steel concrete and composite bridges

Part 2 : 1978 : specification for loads

BS 6399 : loading for buildings

Part 1 : 1996 : code of practice for dead and imposed loads

Part 2 : 1997 : code of practice for wind loads

Part 3 : 1988 : code of practice for imposed roof loads

BS 8100 : lattice towers and masts

Part 1 : 1986 : code of practice for loading

CP3 : code of basic data for the design of buildings

Chapter v : part 2 : 1972 : wind loads

(replaced by BS 6399 : part 2 : 1997, but remains current so as to allow an overlap period)

DD ENV1991 : eurocode 1 : basis of design and actions on structures

DD ENV1991-2-2 : 1996 : actions on structures exposed to fire (together with uk nad)

DD ENV1991-2-3 : 1996 : actions on structures : snow loads

DD ENV1991-2-4 : 1997 actions on structures : wind actions (together with uk nad)

DD ENV1991-4 : 1996 : actions in silos and tanks

Design

BS 449 : specification for the use of structural steel in building

Part 2 : 1969 : metric units

BS 2573 : rules for the design of cranes

Part 1 : 1983 : specification for classification, stress calculations and design criteria for structures

BS 2853 : 1957 : specification for the design and testing of steel overhead runway beams

BS 4076 : 1989 : specification for steel chimneys

BS 4211 : 1994 : specification for ladders for permanent access to chimneys, other high structures, silos and bins

BS 5395 : stairs, ladders and walkways

Part 1 : 1977(1984) : code of practice for the design of straight stairs

Part 2 : 1984 : code of practice for the design of helical and spiral stairs

Part 3 : 1985 : code of practice for the design of industrial type stairs, permanent ladders and walkways

BS 5400 : steel, concrete and composite bridges

Part 3 : 1982 : code of practice for design of steel bridges

Part 5 : 1979 : code of practice for design of composite bridges

Part 9 : 1983 : bridge bearings

Part 10 : 1980 : code of practice for fatigue

BS 5427 : code of practice for the use of profiled sheet for roof and wall cladding on buildings

Part 1 : 1996 : design

BS 5500 : 1997 : specification for unfired fusion welded pressure vessels

BS 5502 : buildings and structures for agriculture

Part 11 : 1996 : guide to regulations and sources of information

Part 21 : 1990 (1995) : code of practice for selection and use of construction materials

Part 20 : 1990 (1997) : code of practice for general design considerations

Part 22 : 1993 : code of practice for design, construction and loading

Part 23 : 1990 : code of practice for fire precautions

BS 5950 : structural use of steelwork in building

Part 1 : 1990 : code of practice for design in simple and continuous construction : hot rolled sections

Part 3 : section 3.1 : 1990 : design of simple and continuous composite beams

Part 4 : 1994 : code of practice for design of floors with profiled steel sheeting

Part 5 : 1987 : code of practice for design of cold formed sections

Part 6 : 1995 : code of practice for design of light gauge profiled steel sheeting

Part 8 : 1990 : code of practice for fire resistant design

Part 9 : 1994 : code of practice for stressed skin design

BS 5973 : 1993 : access and working scaffolds and special scaffold structures in steel

BS 5975 : 1996 : code of practice for falsework

BS 6180 : 1995 : code of practice for barriers in and about buildings

BS 7608 : 1993 : code of practice for fatigue design and assessment of steel structures

BS 8100 : lattice towers and masts

Part 2 : 1986 : guide to the background and use of part 1

Part 4 : 1995 : code of practice for loading of guyed masts

Dd 133 : 1986 : code of practice for strength assessment of members of lattice towers and masts

DD ENV1993 : eurocode 3 : design of steel structures

DD ENV1993-1-1 : 1992 : general rules and rules for buildings (together with uk nad)

DD ENV1994 : eurocode 4 : design of composite steel and concrete structures

DD ENV1994-1-1 : 1994 : general rules and rules for buildings (together with uk nad)

DD ENV1998 : eurocode 8 : design provisions for earthquake resistance of structures

DD ENV1998-1-1 : 1996 : general rules : seismic actions and general requirements for structures

DD ENV1998-1-2 : 1996 : general rules : general rules for buildings

DD ENV1998-1-3 : 1996 : general rules : specific rules for various materials and elements

DD ENV1998-1-4 : 1996 : general rules : strengthening and repair of buildings

DD ENV1998-2 : 1996 : bridges

DD ENV1998-5 : 1996 : foundations, retaining structures and geotechnical aspects

Iso 10721 : steel structures

Iso 10721-1 : 1997 : part 1 : materials and design

(will not be implemented as a British standard. This international standard establishes a common basis for drafting national standards for the use of materials in steel structures and for their design, in order to ensure adequate and consistent measures regarding safety and serviceability).

Steel fabrication and erection

BS 4604 : specification for the use of high strength friction grip bolts in structural steelwork. Metric series

Part 1 : 1970 : general grade

Part 2 : 1970 : higher grade (parallel shank)

BS 5400 : steel, concrete and composite bridges

Part 6 : 1980 : specification for materials and workmanship, steel

BS 5531 : 1988 : code of practice for safety in erecting structural frames

BS 5950 : structural use of steelwork in building

Part 2 : 1992 : specification for materials, fabrication and erection : hot rolled sections

Part 7 : 1992 : specification for materials and workmanship : cold formed sections

Steel piling

BS 4 : part 1 : 1993 : structural steel sections : specification for hot-rolled sections

BS 449 : specification for the use of structural steel in building

Part 2 : 1969 : metric units

BS 5400 : steel concrete and composite bridges

Part 1 : 1988 : general statement

BS 5493 : 1977 : code of practice for protective coating of iron and steel structures against corrosion

BS 5930 : 1981 : code of practice for site investigations

BS 5950 : structural use of steelwork in building

Part 1 : 1990 : code of practice for design in simple and continuous construction : hot rolled sections

BS 6349 : maritime structures

Part 1 : 1984 : general criteria

BS 8002 : 1994 : code of practice for earth-retaining systems

BS 8004 : 1986 : code of practice for foundations

BS 8081 : 1989 : code of practice for ground anchorages

BS EN 10248 : hot rolled sheet piling of non alloy steels

BS EN 10248-1 : 1996 : technical delivery conditions

BS EN 10248-2 : 1996 : tolerances on shape and dimensions

BS EN 10249 : cold formed sheet piling of non alloy steels

BS EN 10249-1 : 1996 : technical delivery conditions

BS EN 10249-2 : 1996 : tolerances on shape and dimensions

DD ENV1997 : eurocode 7 : geotechnical design

DD ENV1997-1 : 1995 : general rules (together with uk nad)

Structural steel

BS 970 : specification for wrought steels for mechanical and allied engineering purposes

BS 1449 : steel plate, sheet and strip (many sections)

(nb: several sections withdrawn and replaced by bs ens)

BS 1501 : steels for pressure purposes : plates

Part 3 : 1990 : specification for corrosion and heat-resisting steels

BS 1502 : 1982 (1990) : specification for steels for fired and unfired pressure vessels : sections and bars

BS 1639 : 1964 (1997) : methods for bend testing of metals

BS 4360 : specification for weldable structural steels

(withdrawn. Replaced by bs 7668 : 1994, bs en 10029 : 1991, parts 1-3 of bs en 10113 : 1993, bs en 10137 : 1996, bs en 10155 : 1993 and bs en 10210-1 : 1994).

BS 5996 : 1993 : specification for acceptance levels for internal imperfections in steel plate, strip and wide flats, based on ultrasonic testing

BS 7191 : 1989 : specification for weldable structural steels for fixed offshore structures

BS 7668 : 1994 : specification for weldable structural steels. Hot finished structural hollow sections in weather resistant steels

BS EN 10002 : tensile testing of metallic materials

BS EN 10002-1 : 1990 : method of test at ambient temperature

BS EN 10020 : 1991 : definition and classification of grades of steel

BS EN 10021 : 1993 : general technical delivery requirements for steel and iron products

BS EN 10025 : 1993 : hot-rolled products of non-alloy structural steels : technical delivery conditions

BS EN 10027 : designation systems for steel

BS EN 10027-1 : 1992 : steel names, principal symbols

BS EN 10027-2 : 1992 : steel numbers

(see also dd 214)

BS EN 10028 : flat products made of steels for pressure purposes

BS EN 10028-1 : 1993 : general requirements

BS EN 10028-2 : 1993 : non alloy and alloy steels with specified elevated temperature properties

BS EN 10028-3 : 1993 : weldable fine grain steels, normalized

BS EN 10028-4 : 1995 : nickel alloy steels with specified low temperature properties

BS EN 10028-5 : 1997 : weldable fine grain steels, thermomechanically rolled

BS EN 10028-6 : 1997 : weldable fine grain steels, quenched and tempered

BS EN 10045 : charpy impact test on metallic materials

BS EN 10045-1 : 1990 : test method (v- and u- notches)

BS EN 10048 : 1997 : hot rolled narrow steel strip : tolerances on dimensions and shape

BS EN 10079 : 1993 : definition of steel products

BS EN 10113 : hot-rolled products in weldable fine grain structural steels

BS EN 10113-1 : 1993 : general delivery conditions

BS EN 10113-2 : 1993 : delivery conditions for normalized / normalized rolled steels

BS EN 10113-3 : 1993 : delivery conditions for thermomechanical rolled steels

BS EN 10137 : plates and wide flats made of high yield strength structural steels in the quenched and tempered or precipitation hardened conditions

BS EN 10137-1 : 1996 : general delivery conditions

BS EN 10137-2 : 1996 : quenched and tempered steels

BS EN 10137-3 : 1996 : precipitation hardened steels

BS EN 10155 : 1993 : structural steels with improved atmospheric corrosion resistance. Technical delivery conditions

BS EN 10164 : 1993 : steel products with improved deformation properties perpendicular to the surface of the product : technical delivery conditions

BS EN 10204 : 1991 : metallic products : types of inspection documents

BS EN 10210-1 : 1994 : hot finished structural hollow sections of non-alloy and fine grain structural steels. Technical delivery requirements

BS EN 10219-1 : 1997 : cold formed structural hollow sections of non-alloy and fine grain structural steels. Technical delivery requirements

BS EN 10248-1 : 1996 : hot rolled sheet piling of non alloy steels : technical delivery conditions

BS EN 10249 -1 : 1996 : cold formed sheet piling of non alloy steels : technical delivery conditions

Cr 10260 - see dd214

Dd 214 : 1993 (cen report cr 10260 : eciss information circular ic10) : designation systems for steel : additional symbols for steel names

Steel products

BS 4 : part 1 : 1993 : structural steel sections. Specification for hot-rolled sections

BS 4848 : hot rolled structural steel sections

Part 4 : 1972(1986) : equal and unequal angles

BS EN 10024 : 1995 : hot rolled taper flange i sections : tolerances on shape and dimensions

BS EN 10029 : 1991 : tolerances on dimensions, shape and mass for hot rolled steel plates 3mm thick or above

BS EN 10034 : 1993 : structural steel i and h sections : tolerances on shape and dimensions

BS EN 10051 : 1992 + a1 : 1997 : specification for continuously hot-rolled uncoated plate, sheet and strip of non-alloy and alloy steels. Tolerances on dimensions and shape (including amendment a1 : 1997)

BS EN 10055 : 1996 : hot rolled steel equal flange tees with radiused root and toes : dimensions and tolerances on shape and dimensions

BS EN 10056-2 : 1993 : specification for structural steel equal and unequal angles : tolerances on shape and dimensions

BS EN 10067 : 1997 : hot rolled bulb flats : dimensions and tolerances on shape, dimensions and mass

BS EN 10163 : specification for delivery requirements for surface conditions of hot-rolled steel plates, wide flats and sections

BS EN 10163-1 : 1991 : general requirements

BS EN 10163-2 : 1991 : plates and wide flats

BS EN 10163-3 : 1991 : sections

BS EN 10210-2 : 1997 : hot finished structural hollow sections of non-alloy and fine grain structural steels. Tolerances, dimensions and sectional properties

BS EN 10219-2 : 1997 : cold formed structural hollow sections of non-alloy and fine grain structural steels. Tolerances, dimensions and sectional properties

BS EN 10248-2 : 1996 : hot rolled sheet piling of non alloy steels : tolerances on shape and dimensions

BS EN 10249-2 : 1996 : cold formed sheet piling of non alloy steels : tolerances on shape and dimensions

Euronorm 91 : 1981 : hot-rolled wide flats : tolerances on dimensions, shape and mass

Cold rolled thin gauge sections and sheets

BS 1449 : steel plate, sheet and strip

Section 1.9 : 1991 : specification for cold rolled narrow strip based on formability

BS 2994 : 1976 (1987) : specification for cold rolled steel sections

BS 5950 : structural use of steelwork in buildings

Part 5 : 1987 : code of practice for the design of cold rolled sections

Part 6 : 1995 : code of practice for design of light gauge profiled steel sheeting

Part 7 : 1992 : specification for materials and workmanship : cold formed sections

Part 9 : 1994 : code of practice for stressed skin design

BS EN 10048 : 1997 : hot rolled narrow steel strip : tolerances on dimensions and shape

BS EN 10130 : 1991 : cold rolled low carbon steel flat products for cold forming : technical delivery conditions

BS EN 10131 : 1991 : cold rolled uncoated low carbon and high yield strength steel flat products for cold forming

BS EN 10140 : 1997 : cold rolled narrow steel strip : tolerances on dimensions and shape

BS EN 10142 : 1991 + a1 : 1995 : continuously hot-dip zinc coated low carbon steel sheet and strip for cold forming : technical delivery conditions (including amendment a1 : 1995)

BS EN 10143 : 1993 : continuously hot dip metal coated steel sheet and strip : tolerances on dimensions and shape

BS EN 10147 : 1992 + a1 : 1995 : continuously hot-dip zinc coated structural steel sheet and strip : technical delivery conditions (including amendment a1 : 1995)

BS EN 10149 : hot rolled flat products made of high yield strength steels for cold forming

BS EN 10149-1 : 1996 : general delivery conditions

BS EN 10149-2 : 1996 : delivery conditions for thermomechanically rolled steels

BS EN 10149-3 : 1996 : delivery conditions for normalized or normalized rolled steels

BS EN 10169 : continuously organic coated (coil coated) steel flat products

BS EN 10169-1 : 1997 : general information (definitions, materials, tolerances, test methods)

BS EN 10214 : 1995 : continuously hot-dip zinc-aluminium (za) coated steel strip and sheet : technical delivery conditions

BS EN 10215 : 1995 : continuously hot-dip aluminium-zinc (az) coated steel strip and sheet : technical delivery conditions

BS EN 10238 : 1997 : automatically blast cleaned and automatically primed structural steel products

Iso 4995 : 1993 : hot rolled steel sheet of structural quality

Iso 4997 : 1991 : cold reduced steel sheet of structural quality

Iso 5951 : 1993 : hot rolled steel sheet of higher yield strength with improved formability

Iso 6316 : 1993 : hot rolled steel strip of structural quality

Stainless steels

BS 7475 : 1991 : specification for fusion welding of austenitic stainless steels

BS EN 10088 : stainless steels

BS EN 10088-1 : 1995 : list of stainless steels

BS EN 10088-2 : 1995 : technical delivery conditions for sheet/plate and strip for general purpose

BS EN 10088-3 : 1995 : technical delivery conditions, semi-finished products, bars. Rods and sections for general purposes

BS EN 10258 : 1997 : cold-rolled stainless steel and narrow strip and cut lengths : tolerances on dimensions and shape

BS EN 10259 : 1997 : cold-rolled stainless and heat-resisting steel wide strip and plate/sheet : tolerances on dimensions and shape

Castings and forgings

BS 3100 : 1991 : specification for steel castings for general engineering purposes

BS 4080 : specification for severity levels for discontinuities in steel castings

Part 2 : 1989 : surface discontinuities revealed by penetrant flaw detection

BS 4570 : 1985 : specification for fusion welding of castings

BS 4670 : 1971 (1987) : specification for alloy steel forgings

BS 6208 : 1990 : method for ultrasonic testing of ferritic steel castings including quality levels

BS 6615 : 1996 : specification for dimensional tolerances for metal and metal alloy castings

BS EN 1369 : 1997 : founding : magnetic particle inspection

BS EN 1560 : 1997 : founding : designation system for cast iron : material symbols and material number

BS EN 1561 : 1997 : founding : grey cast irons

BS EN 1563 : 1997 : founding : spheroidal graphite cast irons

BS EN 1564 : 1997 : founding : austempered ductile cast irons

BS EN 10213 : technical delivery conditions for steel castings for pressure purposes

BS EN 10213-1 : 1996 : general

BS EN 10213-2 : 1996 : steel grades for use at room temperature and at elevated temperatures

BS EN 10213-3 : 1996 : steels for use at low temperatures

BS EN 10213-4 : 1996 : austenitic and austenitic-ferritic steel grades

Steel construction components

BS 405 : 1987 : specification for uncoated expanded metal carbon steel sheets for general purposes

BS 1091 : 1963 (obsolescent) : specification for pressed steel gutters, rainwater pipes, fittings and accessories (*superseded in part or entirely by bs en 1462 : 1997*)

BS 1245 : 1975 (1986) : specification for metal door frames (steel)

BS 1494 : specification for fixing accessories for building purposes

Part 1 : 1964 : fixings for sheet, roof and wall coverings

BS 2994 : 1976(1987) : specification for cold rolled steel sections

BS 4592 : industrial type flooring, walkways and stair treads

Part 1 : 1995 : specification for open bar gratings

Part 2 : 1987 (1994) : specification for expanded metal grating panels

Part 3 : 1987 : specification for cold formed planks

Part 5 : 1995 : specification for solid plates in steel, aluminium and glass reinforced plastics

BS 4904 : 1978 (1997) : specification for external cladding colours for building purposes

BS 5234 : partitions, including matching linings

Part 1 : 1992 : code of practice for design and installations

BS 5427 : code of practice for the use of profiled sheet for roof and wall cladding on buildings

Part 1 : 1996 : design

BS 5977 : lintels

Part 2 : 1983 : specification for prefabricated lintels

BS 6510 : 1984 : specification for steel windows, sills, window boards and doors

BS EN 1462 : 1997 : brackets for eaves gutters : requirements and testing

Reinforcement etc.

BS 4449 : 1997 : specification for carbon steel bars for the reinforcement of concrete

BS 4466 : 1989 : specification for scheduling, dimensioning, bending and cutting of steel reinforcement for concrete

BS 4482 : 1985 : specification for cold reduced steel wire for the reinforcement of concrete

BS 4483 : 1985 : specification for steel fabric for the reinforcement of concrete

BS 4486 : 1980 : specification for hot rolled and hot rolled and processed high tensile alloy steel bars for the prestressing of concrete

BS 5896 : 1980 : specification for high tensile steel wire and strand for the prestressing of concrete

BS 6744 : 1986 : specification for austenitic stainless bars for the reinforcement of concrete

BS 7123 : 1989 : specification for metal arc welding of steel for concrete reinforcement

BS 7295 : fusion bonded epoxy coated carbon steel bars for the reinforcement of concrete

Part 1 : 1990 : specification for coated bars

Part 2 : 1990 : specification for coatings

Welding materials and processes

General

BS 499 : welding terms and symbols

Part 1 : 1991 : glossary for welding, brazing and thermal cutting

BS EN 719 : 1994 : welding co-ordination. Tasks and responsibilities

BS EN 729 : quality requirements for welding. Fusion welding of metallic materials

BS EN 729-1 : 1995 : guidelines for selection and use

BS EN 729-2 : 1995 : comprehensive quality requirements

BS EN 729-3 : 1995 : standard quality requirements

BS EN 729-4 : 1995 : elementary quality requirements

BS EN 24063 : 1992 : welding, brazing , soldering and braze welding of metals : nomenclature of processes and reference numbers for symbolic representation on drawings

BS EN 29692 : 1994 : specification for metal-arc welding with covered electrode , gas shielded metal arc-welding and gas welding. Joint preparation for steel

Process and consumables

BS 4515 : 1996 : specification for welding of steel pipelines on land and offshore

BS 4570 : 1985 : fusion welding of steel castings

BS 5135 : 1984 : specification for arc welding of carbon and carbon manganese steels

BS 5465 : 1987 : specification for electrodes and fluxes for the submerged arc welding of austenitic stainless steels

BS 7084 : 1989 : specification for carbon and carbon-manganese steel tubular cored welding electrodes

BS 7123 : 1989 : specification for metal arc welding of steel for concrete reinforcement

BS 7475 : 1991 : specification for fusion welding of austenitic stainless steels

BS EN 440 : 1995 : welding consumables : wire electrodes and deposits for gas shielded metal arc welding of non-alloy and fine grain steels : classification

BS EN 499 : 1995 : welding consumables : covered electrodes for manual metal arc welding of non alloy and fine grain steels : classification

BS EN 756 : 1996 : welding consumables : wire electrodes and wire-flux combinations for submerged arc welding of non-alloy and fine grain steels : classification

BS EN 757 : 1997 : welding consumables : covered electrodes for manual metal arc welding of high strength steels : classification

BS EN 758 : 1997 : welding consumables : tubular cored electrodes for metal arc welding with and without a gas shield of non-alloy and fine grain steels : classification

BS EN 759 : 1997 : welding consumables : technical delivery conditions for welding filler metals : types of product, dimensions, tolerances and marking

BS EN 760 : 1996 : welding consumables : fluxes for submerged arc welding : classification

Testing and examination

BS 709 : 1983 : methods of destructive testing fusion welded joints and weld metal in steel

BS 2600 : radiographic examination of fusion welded butt joints in steel

Part 1 : 1983 : methods for steel 2mm up to and including 50mm thick

Part 2 : 1973 : methods for steel over 50mm up to and including 200mm thick

BS 2704 : 1978(1983) : specification for calibration blocks for use in ultrasonic flaw detection blocks for use in ultrasonic flaw detection

BS 2910 : 1986 : methods for radiographic examination of fusion welded circumferential butt joints in steel pipes

BS 3683 : glossary of terms used in non-destructive testing

Part 2 : 1985 : magnetic particle flaw detection

Part 3 : 1984 : radiological flaw detection

Part 4 : 1985 : ultrasonic flaw detection

BS 3923 : methods for ultrasonic examination of welds

Part 1 : 1986 : methods for manual examination of fusion welds in ferritic steels

BS 4872 : specification for approval testing of welders when welding procedure approval is not required

Part 1 : 1982 (1995) : fusion welding of steel

Part 2 : 1972 : automatic examination of fusion welded butt joints in ferritic steels

BS 6072 : 1981(1986) : method for magnetic particle flaw detection

BS 7339 : 1990 : code of practice for supplementary checking of metallic materials of construction in pressurized systems

BS EN 287 : approval testing of welders for fusion welding

BS EN 287-1 : 1992 : steels

BS EN 288 : specification and approval of welding procedures for metallic materials

BS EN 288-1 : 1992 : general rules for fusion welding

BS EN 288-2 : 1992 : welding procedure specification for arc welding

BS EN 288-3 : 1992 : welding procedure tests for the arc welding of steels

BS EN 288-5 : 1995 : approval by using approved welding consumables for arc welding

BS EN 288-6 : 1995 : approval related to previous experience

BS EN 288-7 : 1995 : approval by a standard welding procedure for arc welding

BS EN 288-8 : 1995 : approval by a pre-production welding test

BS EN 970 : 1997 : non-destructive examination of fusion welds : visual examination

BS EN 25817 : 1992 : arc-welded joints in steel : guidance on quality levels for imperfections

Pd 6493 : 1991 : guidance on methods for assessing the acceptability of flaws in fusion welded structures

Bolts and fasteners

BS 1494 : specification for fixing accessories for building services

Part 1 : 1964 : fixings for sheet, roof and wall coverings

BS 3692 : 1967 (obsolescent) : specification for iso metric precision hexagon bolts, screws and nuts : metric units

BS 4190 : 1967 (obsolescent) : specification for iso metric black hexagon bolts, screws and nuts

BS 4320 : 1968 : specification for metal washers for general engineering purposes. Metric series

BS 4395 : specification for high strength friction grip bolts and associated nuts and washers for structural engineering

Part 1 : 1969 : general grade

Part 2 : 1969 : higher grade bolts and nuts and general grade washers

BS 4604 : specification for the use of high strength friction grip bolts in structural steelwork. Metric series

Part 1 : 1970 : general grade

Part 2 : 1970 : higher grade (parallel shank)

BS 4620 : 1970 (1988) : specification for rivets for general engineering purposes

BS 4882 : 1990 : specification for bolting for flanges and pressure containing purposes

BS 4933 : 1973 (obsolescent) : specification for iso metric black cap and countersunk head bolts and screws with hexagonal nuts

BS 6105 : 1981 : specification for corrosion-resistant stainless steel fasteners

BS 7419 : 1991 : specification for holding down bolts

BS 7644 : direct tension indicators

Part 1 : 1993 : specification for compressible washers

Part 2 : 1993 : specification for nut face and bolt face washers

BS EN 20898 : mechanical properties of fasteners

BS EN 20898-1 : 1992 : bolts, screws and studs

BS EN 20898-2 : 1994 : nuts with specified proof load values - coarse thread

BS EN 24014 : 1992 : hexagon head bolts : product grades a and b

BS EN 24016 : 1992 : hexagon head bolts : product grade c

BS EN 24017 : 1992 : hexagon head screws : product grades a and b

BS EN 24018 : 1992 : hexagon head screws : product grade c

BS EN 24032 : 1992 : hexagon nuts, style 1 : products grades a and b

BS EN 24033 : 1992 : hexagon nuts, style 2 : product grades a and b

BS EN 24034 : 1992 : hexagon nuts : product grade c

Fire resistance

BS 476 : fire tests on building materials and structures

Part 20 : 1987 : method for determination of the fire resistance of elements of construction (general principles)

Part 21 : 1987 : methods for determination of the fire resistance of loadbearing elements of construction

Part 22 : 1987 : methods for determination of the fire resistance of non-loadbearing elements of construction

Part 23 : 1987 : methods for determination of the contribution of components to the fire resistance of a structure

BS 5950 : structural use of steelwork in building

Part 8 : 1990 : code of practice for fire resistant design

BS 8202 : coatings for fire protection of building elements

Part 1 : 1995 : code of practice for the selection and installation of sprayed mineral coatings

Part 2 : 1992 : code of practice for the use of intumescent coating systems to metallic substrates for providing fire resistance

Corrosion prevention

BS 729 : 1971 (1994) : specification for hot dip galvanized coatings on iron and steel articles

BS 1706 : 1990 (1996) : method for specifying electroplated coatings of zinc and cadmium on iron and steel

BS 2523 : 1983 (obsolescent) : specification for lead-based priming paints

BS 2569 : specification for sprayed coatings

Part 2 : 1965 (1997) : protection of iron and steel against corrosion and oxidation at elevated temperatures

BS 3698 : 1964 (1979) (obsolescent) : specification for calcium plumbate priming paints

BS 3900 : methods of test for paints

Part f11 : 1985 (1991) : determination of resistance to cathodic disbonding of coatings for use on land-based buried structures

Part f13 : 1986 (1991) : filiform corrosion test on steel

(also numbered bs en iso 4263 : 1995)

Part h3 : 1983 (1989) : designation of degree of rusting

BS 4147 : 1980(1987) : specification for bitumen based hot-applied coating materials for protecting iron and steel, including suitable primers where required

BS 4164 : 1987 : specification for coal-tar based hot-applied coating materials for iron and steel, including a suitable primer

BS 4652 : 1995 : specification for metallic zinc-rich priming paints (organic media)

BS 4921 : 1988 (1994) : specification for sherardized coatings on iron or steel

BS 5411 : methods of test for metallic and related coatings (parts 1-16)

(parts 1-5, 7, 9-16 renumbered in bs en iso series)

BS 5466 : methods for corrosion testing of metallic coatings (parts 4-9)

(parts 4-6, 8-9 renumbered in bs en iso series)

BS 5493 : 1977 : code of practice for protective coating of iron and steel structures against corrosion

BS 7079 : preparation of steel substrates before application of paints and related products

Group c : surface roughness characteristics of blast-cleaned steel substrates

(renumbered in bs en iso 8503 series)

BS 7361 : cathodic protection

Part 1 : 1991 : code of practice for land and marine applications

BS 7479 : 1991 : method of salt spray corrosion tests in artificial atmospheres

BS EN 22063 : 1994 : metallic and other inorganic coatings : thermal spraying : zinc, aluminium and their alloys

Iso 1461: 1973 : metallic coatings : hot dip galvanized coatings on fabricated ferrous products : requirements

Iso 8501 : preparation of steel substrates before application of paints and related products : visual assessment of surface cleanliness

Part 1 : 1988 : rust grades and preparation grades of uncoated steel substrates and of steel substrates after overall removal of previous coatings preparation grades after removal of previous coatings

Iso 8503 : preparation of steel substrates before application of paints and related products : surface roughness characteristics of blast cleaned steel substrates

Part 1 : 1988 : specifications and definitions for iso surface profile comparators for the assessment of abrasive blast cleaned surfaces

Pd 6484 : 1979 (1990) : commentary on corrosion at bimetallic contacts and its alleviation

Quality assurance

BS EN ISO 9000 : quality management and quality assurance standards

BS EN ISO 9001 : 1994 : quality systems. Model for quality assurance in design, development, production, installation and servicing

BS EN ISO 9002 : 1994 : quality systems. Model for quality assurance in production, installation and servicing

BS EN ISO 9003 : 1994 : quality systems. Model for quality assurance in final inspection and test

BS EN ISO 9004 : quality management and quality assurance standards

BS EN ISO 9004-1 : 1994 : guidelines