

Building (Construction) Regulations

The Building (Construction) Regulations set out the performance requirements for the design and construction of building, street, building works and street works. However, they do not contain reference to any specific prescriptive standard.

2. Appendix A lists those standards or technical criteria accepted by the Building Authority as complying with the performance requirements in the Regulations. Plans based on other standards or technical criteria may be approved if they can be shown to achieve the performance requirements. It will facilitate the processing of such plans if full background to other standards or technical criteria, and their compatibility with local conditions, is detailed in the submission.

3. In this connection, please approach the Buildings Department at an early stage for agreement in principle to any alternative standard being considered.



(CHEUNG Hau-wai)
Building Authority

Ref. : BD GP/BREG/C/23

First issue December 1990

Last revision August 1994

This revision February 2007 (AD/NB2) - Appendix A revamped

Index under : Acceptable Standards - B(C)R
Building (Construction) Regulations

Standards Acceptable to the
Building Authority

Design and Construction

Category	Standard	Title
Concrete	Hong Kong Code of Practice	Code of Practice for Structural Use of Concrete 2004
Fire Resisting Construction	Hong Kong Code of Practice	Code of Practice for Fire Resisting Construction 1996
Foundation	Hong Kong Code of Practice	Code of Practice for Foundations
Precast Concrete	Hong Kong Code of Practice	Code of Practice for Precast Concrete Construction 2003
Steel	Hong Kong Code of Practice	Code of Practice for the Structural Use of Steel 2005
		Code of Practice for the Structural Use of Steel 1987 ^{#1}
	BS 4076: 1989	Specification for steel chimneys
Wind Effect	Hong Kong Code of Practice	Code of Practice on Wind Effects in Hong Kong 2004
Aluminium	BS 8118: Part 1: 1991	Structural use of aluminium. Code of practice for design
Glass	BS 6262 Part 1-4, 6 & 7: 2005	Glazing for buildings
	BS 6262: 1982 ^{#2}	Code of practice for glazing for buildings
	BS 5516 Part 1 & 2: 2004	Patent glazing and sloping glazing for buildings
Miscellaneous	BS 5628: Part 1: 2005	Code of practice for the use of masonry. Structural use of unreinforced masonry
	BS 6031: 1981	Code of practice for earthworks
	BS 8298: 1994	Code of practice for design and installation of natural stone cladding and lining

#1 This code will be phased out on 31 August 2007.

#2 BS 6262: 1982 has been partially replaced by various parts of BS 6262: 2005. It will be withdrawn upon publication of all seven parts of the revised BS 6262.

Concrete Materials, Workmanship and Testing

Category	Standard	Title
Materials	BS 12: 1996	Specification for Portland cement
	BS 882: 1983	Specification for aggregates from natural sources for concrete
	BS 1014: 1975	Specification for pigments for Portland cement and Portland cement products
	BS 3892: Part 1: 1982	Pulverized-fuel ash. Specification for pulverized-fuel ash for use as a cementitious component in structural concrete (The criterion for water requirement may not apply)
	BS 4027: 1980	Specification for sulphate-resisting Portland cement
	BS 5075 Part 1: 1982 Part 3: 1985	Concrete admixtures
	BS 6588: 1985	Specification for Portland pulverized-fuel ash cement
	BS 8500 Part 1 & 2: 2002	Concrete. Complementary British Standard to BS EN 206-1
	BS EN 197: Part 1: 2000	Cement. Composition, specifications and conformity criteria for common cements
	BS EN 206: Part 1: 2000	Concrete. Specification, performance, production and conformity
	BS EN 446: 1997	Grout for prestressing tendons. Grouting procedures
	BS EN 447: 1997	Grout for prestressing tendons. Specification for common grout
	BS EN 12620: 2002	Aggregates for concrete
Reinforcement	Hong Kong Construction Standard CS2: 1995	Carbon Steel Bars for the Reinforcement of Concrete
	BS 4447: 1973	Specification for the performance of prestressing anchorages for post-tensioned construction
	BS 4449: 1997	Specification for carbon steel bars for the reinforcement of concrete
	BS 4482: 1985	Specification for cold reduced steel wire for the reinforcement of concrete
	BS 4483: 1998	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

Category	Standard	Title
Reinforcement	BS 7123: 1989	Specification for metal arc welding of steel for concrete reinforcement
	BS 7973 Part 1 & 2: 2001	Spacers and chairs for steel reinforcement and their specification
	BS 8666: 2000	Specification for scheduling, dimensioning, bending and cutting of steel reinforcement for concrete
	EN 10080	Steel for the reinforcement of concrete
	EN 10138	Prestressing steels
	EN ISO 17660	Permitted welding process for reinforcement
Testing	Hong Kong Construction Standard CS1: 1990	Testing Concrete (Volume 1 & 2)
	Hong Kong Construction Standard CS2: 1995	Carbon Steel Bars for the Reinforcement of Concrete
	BS EN 445: 1997	Grout for prestressing tendons. Test methods

Steel Materials, Workmanship and Testing

Category	Standard	Title
Material	BS 4360: 1986 ^{#3}	Specification for weldable structural steels
	BS 5950: Part 7: 1992	Structural use of steelwork in building. Specification for materials and workmanship: cold formed sections
	BS 7668: 1994 ^{#3}	Specification for weldable structural steels. Hot finished structural hollow sections in weather resistant steels
	BS 7668: 2004	Weldable structural steels. Hot finished structural hollow sections in weather resistant steels. Specification
	BS EN 10025 Part 1-6: 2004	Hot rolled products of structural steels
	BS EN 10113 ^{#3} Part 2 & 3: 1993	Hot-rolled products in weldable fine grain structural steels
	BS EN 10137 ^{#3} Part 2: 1996	Plates and wide flats made of high yield strength structural steels in the quenched and tempered or precipitation hardened conditions. Delivery conditions for quenched and tempered steels
	BS EN 10155: 1993 ^{#3}	Structural steels with improved atmospheric corrosion resistance. Technical delivery conditions

#3 To be phased out on 31 August 2007

Material	BS EN 10164: 1993 ^{#3}	Steel products with improved deformation properties perpendicular to the surface of the product. Technical delivery conditions
	BS EN 10164: 2004	Steel products with improved deformation properties perpendicular to the surface of the product. Technical delivery conditions
	BS EN 10210 ^{#3} Part 1: 1994	Hot finished structural hollow sections of non-alloy and fine grain structural steels. Technical delivery requirements
	BS EN 10210 Part 1: 2006	Hot finished structural hollow sections of non-alloy and fine grain steels. Technical delivery requirements
	BS EN 10219 ^{#3} Part 1: 1997	Cold formed welded structural sections of non-alloy and fine grain steels. Technical delivery requirements
	BS EN 10219 Part 1: 2006	Cold formed welded structural hollow sections of non-alloy and fine grain steels. Technical delivery requirements
Bolt	BS 3692: 1967 ^{#3}	Specification for ISO metric precision hexagon bolts, screws and nuts. Metric units
	BS 3692: 2001	ISO metric precision hexagon bolts, screws and nuts. Specification
	BS 4190: 1967 ^{#3}	Specification for ISO metric black hexagon bolts, screws and nuts
	BS 4190: 2001	ISO metric black hexagon bolts, screws and nuts. Specification
	BS 4320: 1968	Specification for metal washers for general engineering purposes. Metric series
	BS 4395 ^{#3} Part 1 & 2: 1969	Specification for high strength friction grip bolts and associated nuts and washers for structural engineering
	BS 4604 Part 1 & 2: 1970	Specification for the use of high strength friction grip bolts in structural steelwork. Metric series
	BS 4933: 1973	Specification for ISO metric black cup and countersunk head bolts and screws with hexagon nuts
	BS 7419: 1991	Specification for holding down bolts
	BS EN 14399 Part 1-6: 2005	High strength structural bolting assemblies for preloading
	BS EN ISO 4014: 2001	Hexagon head bolts. Product grades A and B
	BS EN ISO 4016: 2001	Hexagon head bolts. Product grade C
	BS EN ISO 4017: 2001	Hexagon head screws. Product grades A and B
	BS EN ISO 4018: 2001	Hexagon head screws. Product grade C
	BS EN ISO 4032: 2001	Hexagon nuts, style 1. Product grades A and B
	BS EN ISO 4033: 2001	Hexagon nuts, style 2. Product grades A and B
	BS EN ISO 4034: 2001	Hexagon nuts. Product grade C
	BS EN ISO 7091: 2000	Plain washers. Normal series. Product grade C

#3 To be phased out on 31 August 2007

Category	Standard	Title
Welding consumables	BS 639: 1986 ^{#3}	Specification for covered carbon and carbon manganese steel electrodes for manual metal-arc welding
	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 ^{#3}	Welding consumables. Covered electrodes for manual metal arc welding of non-alloy and fine grain steels. Classification
	BS EN 756: 2004	Welding consumables. Solid wires, solid wire-flux and tubular cored electrode-flux combinations for submerged arc welding of non-alloy and fine grain steels. Classification
	BS EN ISO 2560: 2005	Welding consumables. Covered electrodes for manual metal arc welding of non-alloy and fine grain steels. Classification
Welding standard	BS 5135: 1984 ^{#3}	Specification for arc welding of carbon and carbon manganese steels
	BS EN 1011 Part 1: 1998 Part 2: 2001	Welding. Recommendations for welding of metallic materials
	BS EN 22553: 1995	Welded, brazed and soldered joints. Symbolic representation on drawings
Welding procedure specification	BS 4870 Part 1: 1981 ^{#3} Part 3: 1985 ^{#3} Part 4: 1988 ^{#3}	Specification for approval testing of welding procedures
	BS EN 288: 1992 ^{#3}	Specification and approval of welding procedures for metallic materials. Welding procedures specification for arc welding
	BS EN 1418: 1998	Welding personnel. Approval testing of welding operators for fusion welding and resistance weld setters for fully mechanized and automatic welding of metallic materials
	BS EN ISO 15614 Part 1: 2004 Part 8: 2002	Specification and qualification of welding procedures for metallic materials. Welding procedure test

#3 To be phased out on 31 August 2007

Category	Standard	Title
Welder qualification tests	BS 4871 Part 1: 1982 ^{#3} Part 3: 1985	Specification for approval testing of welders working to approved welding procedures
	BS 4872 Part 1: 1982	Specification for approval testing of welders when welding procedure approval is not required. Fusion welding of steel
	BS EN 287 ^{#3} Part 1: 1992	Approval testing of welders for fusion welding. Steels
	BS EN 287 Part 1: 2004	Qualification test of welders. Fusion welding. Steels
Protective treatment	BS 729: 1971 ^{#3}	Specification for hot dip galvanized coatings on iron and steel articles
	BS 4652: 1995	Specification for zinc-rich priming paint (Organic media)
	BS 4921: 1988	Specification for sherardized coatings on iron or steel
	BS EN 22063: 1994 ^{#3}	Metallic and other inorganic coatings. Thermal spraying. Zinc, aluminium and their alloys
	BS EN ISO 1461: 1999	Hot dip galvanized coatings on fabricated iron and steel articles. Specifications and test methods
	BS EN ISO 2063: 2005	Thermal spraying. Metallic and other inorganic coatings. Zinc, aluminium and their alloys
	BS EN ISO 11124 Part 1-4: 1997	Preparation of steel substrates before application of paints and related products
Destructive test of material	BS 18: 1987 ^{#3}	Method for tensile testing of metals (including aerospace materials)
	BS EN 10002 Part 1: 2001	Tensile testing of metallic materials. Method of test at ambient temperature
	BS EN 10045 Part 1: 1990	Charpy impact test on metallic materials. Test method (V- and U-notches)
	BS EN ISO 6506 Part 1-3: 2005	Metallic materials. Brinell hardness test
	BS EN ISO 6507 Part 1-3: 2005	Metallic materials. Vickers hardness test
Non-destructive test methods	BS 2600 ^{#3} Part 1: 1983 Part 2: 1973	Radiographic examination of fusion welded butt joints in steel
	BS 3923 ^{#3} Part 1: 1986 Part 2: 1972	Methods for ultrasonic examination of welds

#3 To be phased out on 31 August 2007

Category	Standard	Title
Non-destructive test methods	BS 5289: 1976 ^{#3}	Code of practice. Visual inspection of fusion welded joints
	BS 6072: 1981 ^{#3}	Method for magnetic particle flaw detection
	BS 6443: 1984 ^{#3}	Method for penetrant flaw detection
	BS EN 571 Part 1: 1997	Non-destructive testing. Penetrant testing. General principles
	BS EN 970: 1997	Non-destructive examination of fusion welds. Visual examination
	BS EN 1290: 1998	Non-destructive examination of welds. Magnetic particle examination of welds
	BS EN 1435: 1997	Non-destructive examination of welds. Radiographic examination of welded joints
	BS EN 1714: 1998	Non-destructive testing of welded joints. Ultrasonic testing of welded joints
	BS EN ISO 9934 Part 1: 2001	Non-destructive testing. Magnetic particle testing. General principles

Aluminium Materials, Workmanship and Testing

Category	Standard	Title
Material	BS 1161: 1977	Specification for aluminium alloy sections for structural purposes
	BS EN 485 Part 1: 1994 Part 2: 2004 Part 3: 2003 Part 4: 1994	Aluminium and aluminium alloys. Sheet, strip and plate
	BS EN 515: 1993	Aluminium and aluminium alloys. Wrought products. Temper designations
	BS EN 573 Part 1: 2004 Part 2: 1995 Part 3: 2003 Part 4: 2004	Aluminium and aluminium alloys. Chemical composition and form of wrought products
	BS EN 755 Part 1-2: 1997 Part 3-6: 1996 Part 7-8: 1998 Part 9: 2001	Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles
	BS EN 12020 Part 1 & 2: 2001	Aluminium and aluminium alloys. Extruded precision profiles in alloys EN AW-6060 and EN AW-6063

#3 To be phased out on 31 August 2007

Category	Standard	Title
Connection	BS 1473: 1972	Specification for wrought aluminium and aluminium alloys for general engineering purposes – rivet, bolt and screw stock
	BS 1494 Part 1: 1964	Specification for fixing accessories for building purposes. Fixings for sheet, roof and wall coverings
Welding	BS 4872 Part 2: 1976	Specification for approval testing of welders when welding procedure approval is not required. TIG or MIG welding of aluminium and its alloys
	BS EN 1011 Part 4: 2000	Welding. Recommendations for welding of metallic materials. Arc welding of aluminium and aluminium alloys
	BS EN ISO 4063: 2000	Welding and allied processes. Nomenclature of processes and reference numbers
	BS EN ISO 9606 Part 2: 2004	Qualification test of welders. Fusion welding. Aluminium and aluminium alloys
	BS EN ISO 15614 Part 2: 2005	Specification and qualification of welding procedures for metallic materials. Welding procedure test. Arc welding of aluminium and its alloys
Testing	BS 5080 Part 1: 1993 Part 2: 1986	Structural fixings in concrete and masonry
	BS EN 970: 1997	Non-destructive examination of fusion welds. Visual examination
	BS EN 10002 Part 1: 2001	Tensile testing of metallic materials. Method of test at ambient temperature
	BS EN ISO 6506 Part 1: 2005	Metallic materials. Brinell hardness test. Test method
	BS EN ISO 6507 Part 1: 2005	Metallic materials. Vickers hardness test. Test method
	BS EN ISO 7438: 2005	Metallic materials. Bend test

Glass Materials, Workmanship and Testing

Category	Standard	Title
Material	BS 952 Part 1: 1995 Part 2: 1980	Glass for glazing
	BS 6206: 1981	Specification for impact performance requirements for flat safety glass and safety plastics for use in buildings
	BS EN 572 Part 1-9: 2004	Glass in building. Basic soda lime silicate glass products

Category	Standard	Title
Material	BS EN 1863 Part 1: 2000 Part 2: 2004	Glass in building. Heat strengthened soda lime silicate glass
	BS EN 12150 Part 1: 2000 Part 2: 2004	Glass in building. Thermally toughened soda lime silicate safety glass
	BS EN 14179 Part 1 & 2: 2005	Glass in building. Heat soaked thermally toughened soda lime silicate safety glass
	BS EN ISO 12543 Part 1, 3-6: 1998	Glass in building. Laminated glass and laminated safety glass
Testing	BS 6206: 1981	Specification for impact performance requirements for flat safety glass and safety plastics for use in buildings
	BS EN 12600: 2002	Glass in building. Pendulum test. Impact test method and classification for flat glass

Miscellaneous Materials, Workmanship and Testing

Category	Standard	Title
Stainless Steel	BS EN 10088 Part 1-3: 2005	Stainless steels
	BS EN ISO 3506 Part 1 & 2: 1998	Mechanical properties of corrosion-resistant stainless-steel fasteners
	BS EN 1011 Part 3: 2000	Welding. Recommendations for welding of metallic materials. Arc welding of stainless steels
Sealant	BS 6213: 2000	Selection of construction sealants. Guide
	BS 3712 Part 1: 1991 Part 2: 1973 Part 3: 1974 Part 4: 1991	Building and construction sealants
Gypsum plaster	BS 1191 Part 1 & 2: 1973	Specification for gypsum building plasters
Gypsum plaster board	BS 1230: Part 1: 1985	Gypsum plasterboard. Specification for plasterboard excluding materials submitted to secondary operations
Wood wool slab	BS 1105: 1981	Specification for wood wool cement slabs up to 125mm thick
Natural Stone	BS EN 12372: 1999	Natural stone test methods. Determination of flexural strength under concentrated load
Masonry	BS 3921: 1985	Specification for clay bricks

Category	Standard	Title
Fire - testing	BS 476 Part 4 : 1970 Part 20: 1987 Part 21: 1987 Part 22: 1987 Part 23: 1987 Part 24: 1987	Fire tests on building materials and structures
Anchors	BS 5080 Part 1: 1993 Part 2: 1986	Structural fixings in concrete and masonry

Note : The editions referred to in the list and in the Codes of Practice should include any amendments current in January 2007. Such editions are the most suitable for Hong Kong and may not be the latest version of a Standard.

(Rev. 2/2007)