

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 It will be withdrawn upon publication of all seven parts of the revised BS 6262.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)