

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 stipulated 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.



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Building Authority

Ref. : BD GP/BREG/C/23

This PNAP is previously known as PNAP 140

First issue December 1990

Last revision February 2007

This revision March 2011(AD/NB2) - Appendix A revised

**Standards/Technical Criteria Acceptable to the
Building Authority**

Design and Construction

Category	Standard/ Technical Criterion	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
	Explanatory Materials	Explanatory Materials to Code of Practice for the Structural Use of Steel 2005
	BS 4076: 1989	Specification for steel chimneys
Wind Effect	Hong Kong Code of Practice	Code of Practice on Wind Effects in Hong Kong 2004
	Explanatory Materials	Explanatory Materials to the 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: Part 5: 1982 [#]	Code of practice for glazing for buildings
	BS 5516: Part 1 & 2: 2004	Patent glazing and sloping glazing for buildings

Category	Standard/ Technical Criterion	Title
Timber	BS5268-2:2002	Structural Use of Timber. Code of Practice for Permissible Stress Design, Materials and Workmanship
	BS5268-3:2006	Structural Use of Timber. Code of Practice for Truss Rafter Roofs
	BS5268-4:1990	Structural Use of Timber. Fire Resistance of Timber Structures
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

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/ Technical Criterion	Title
Material	Hong Kong Code of Practice	Code of Practice for Structural Use of Concrete 2004
	BS 882: 1992 ^{*1}	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: 1997 ^{*1}	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: 1996 ^{*1}	Specification for sulphate-resisting Portland cement

Category	Standard/ Technical Criterion	Title
Material	BS 6588: 1985	Specification for Portland pulverized-fuel ash cement
Steel Reinforcing Bars	Hong Kong Code of Practice	Code of Practice for Structural Use of Concrete 2004
	Hong Kong Construction Standard CS2: 1995	Carbon Steel Bars for the Reinforcement of Concrete
Testing	Hong Kong Code of Practice	Code of Practice for the Structural Use of Concrete 2004
	Hong Kong Construction Standard CS1:2010	Testing Concrete (Volume 1 & 2)
	Hong Kong Construction Standard CS2 : 1995	Carbon Steel Bars for the Reinforcement of Concrete

*1 Updated version other than that shown in Annex A of Code of Practice for Structural Use of Concrete 2004.

Steel Materials, Workmanship and Testing

Category	Standard/ Technical Criterion	Title
Material	Hong Kong Code of Practice	Code of Practice for the Structural Use of Steel 2005
	BS 7668: 2004 ^{*2}	Weldable structural steels. Hot finished structural hollow sections in weather resistant steels. Specification
	BS EN 10164: 2004 ^{*2}	Steel products with improved deformation properties perpendicular to the surface of the product. Technical delivery conditions
	BS EN 10210 ^{*2} Part 1: 2006	Hot finished structural hollow sections of non-alloy and fine grain steels. Technical delivery requirements
	BS EN 10219 ^{*2} Part 1: 2006	Cold formed welded structural hollow sections of non-alloy and fine grain steels. Technical delivery requirements
Bolt	Hong Kong Code of Practice	Code of Practice for the Structural Use of Steel 2005

Category	Standard/ Technical Criterion	Title
Bolt	BS 3692: 2001 ^{*2}	ISO metric precision hexagon bolts, screws and nuts. Specification
	BS 4190: 2001 ^{*2}	ISO metric black hexagon bolts, screws and nuts. Specification
	BS EN 14399 Part 1-6: 2005	High strength structural bolting assemblies for preloading
Welding Consumables	Hong Kong Code of Practice	Code of Practice for the Structural Use of Steel 2005
	BS EN ISO 2560: 2005	Welding consumables. Covered electrodes for manual metal arc welding of non-alloy and fine grain steels. Classification
Welding Standard	Hong Kong Code of Practice	Code of Practice for the Structural Use of Steel 2005
Welding procedure specification	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

^{*2} Updated version other than that shown in Annex A of Code of Practice for the Structural Use of Steel 2005

Category	Standard/ Technical Criterion	Title
Welder Qualification Tests	BS 4871 Part 3: 1985	Specification for approval testing of welders working to approved welding procedures. Arc welding of tube to tube-plaste joints in metallic materials
	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 Part 1: 2004	Qualification test of welders. Fusion welding. Steels

Category	Standard/ Technical Criterion	Title
Protective Treatment	Hong Kong Code of Practice	Code of Practice for the Structural Use of Steel 2005
	BS EN ISO 11124 Part 1-4: 1997	Preparation of steel substrates before application of paints and related products
Destructive Test of Material	Hong Kong Code of Practice	Code of Practice for the Structural Use of Steel 2005
	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 Materials	Hong Kong Code of Practice	Code of Practice for the Structural Use of Steel 2005

Aluminium Materials, Workmanship and Testing

Category	Standard	Title
Material	BS 8118: Part 2: 1991	Structural use of aluminium. Specification for materials, workmanship and protection
	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

Category	Standard	Title
Material	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
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

Category	Standard	Title
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 1002 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

Timber Materials & Workmanship

Category	Standard	Title
Preservative Treatment	BS 5268-5: 2000	Structural Use of Timber. Code of Practice for the Preservative Treatment of Structural Timber.

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

Category	Standard	Title
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
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 March 2011. Such editions are the most suitable for Hong Kong and may not be the latest version of a Standard.

(Rev. 3/2011)