

### **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.

(HUI Siu-wai)  
Building Authority

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

**(1) Design and Construction**

<b>Category</b>	<b>Standard/ Technical Criterion</b>	<b>Title</b>
Concrete	Hong Kong Code of Practice	Code of Practice for Structural Use of Concrete 2013
Fire Resisting Construction	Hong Kong Code of Practice	Code of Practice for Fire Safety in Buildings 2011
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 2016
Steel	Hong Kong Code of Practice	Code of Practice for the Structural Use of Steel 2011
	Explanatory Materials	Explanatory Materials to Code of Practice for the Structural Use of Steel 2011
	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
Dead and Imposed Loads	Hong Kong Code of Practice	Code of Practice for Dead and Imposed Loads 2011
Aluminium	BS 8118: Part 1: 1991 <sup>^</sup>	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 <sup>#</sup>	Code of practice for glazing for buildings

<b>Category</b>	<b>Standard/ Technical Criterion</b>	<b>Title</b>
Glass	BS 5516: Part 1 & 2: 2004	Patent glazing and sloping glazing for buildings
Stainless Steel	SCI Publication P291	Structural Design of Stainless Steel
Timber	BS 5268-2:2002	Structural Use of Timber. Code of Practice for Permissible Stress Design, Materials and Workmanship
	BS 5268-3:2006	Structural Use of Timber. Code of Practice for Truss Rafter Roofs
	BS 5268-4:1990	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.

^ BS 8118 : Part 1 : 1991 (BS 8118) has been replaced by various parts of BS EN 1999 and both of which adopt limit state design approach. The use of BS 8118 for the design of structural aluminium works will continue to be accepted for local applications. With effect from 1 January 2017, a partial load factor of 1.4 for wind load should be adopted in lieu of the corresponding partial load factor as specified in Table 3.1 of BS 8118, except for amendment submissions where approval for structural plans with the original design adopting the original partial load factor of 1.2 for wind load as specified in BS 8118 has been approved.

**(2) Materials, Workmanship and Testing**

**(a) Concrete**

<b>Category</b>	<b>Standard/ Technical Criterion</b>	<b>Title</b>
Material, Steel Reinforcing Bars, Testing	Hong Kong Code of Practice	Code of Practice for Structural Use of Concrete 2013
	BS 3892: Part 1: 1997 <sup>*1</sup>	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)
Coil and Decoiled product for Steel Reinforcing Bar	BS 4449:2005 + A2:2009	Steel for the reinforcement of concrete – Weldable reinforcing steel – Bar, coil and decoiled product - Specification
Prescribed Mix Concrete for Minor Structural and Non-structural Works	BS EN 206: 2013	Concrete – Specification, performance, production and conformity
	BS 8500	Concrete – Complementary British Standard to BS EN 206: 2013
	Part 1: 2015	Part 1: Method of specifying and guidance for the specifier
	Part 2: 2015	Part 2: Specification for constituent materials and concrete

<sup>\*1</sup> Updated version other than that shown in Annex A of Code of Practice for Structural Use of Concrete 2013

**(b) Steel**

<b>Category</b>	<b>Standard/ Technical Criterion</b>	<b>Title</b>
Material, Bolt, Welding Consumables, Welding Standard, Welding Procedure Specification, Welder Qualification Tests, Protective Treatment, Destructive Test of Material, Non-Destructive Test Materials	Hong Kong Code of Practice	Code of Practice for the Structural Use of Steel 2011

**(c) Aluminium**

<b>Category</b>	<b>Standard/ Technical Criterion</b>	<b>Title</b>
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: 2008 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: 2009	Aluminium and aluminium alloys. Chemical composition and form of wrought products

<b>Category</b>	<b>Standard/ Technical Criterion</b>	<b>Title</b>
Material	BS EN 755 Part 1: 2008 Part 2: 2008 Part 3-6: 2008 Part 7-8: 2008 Part 9: 2008	Aluminium and aluminium alloys. Extruded rod/bar, tube and profiles
	BS EN 12020 Part 1 : 2001 Part 2: 2008	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
Testing	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

<b>Category</b>	<b>Standard/ Technical Criterion</b>	<b>Title</b>
Testing	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

**(d) Timber**

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

**(e) Glass**

<b>Category</b>	<b>Standard/ Technical Criterion</b>	<b>Title</b>
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
	BS EN 1863 Part 1: 2000 Part 2: 2004	Glass in building. Heat strengthened soda lime silicate glass

Material	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
	ASTM E2190 – 02	Standard Specification for Insulating Glass Unit Performance and Evaluation
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

**(f) Stainless Steel**

Category	Standard/ Technical Criterion	Title
Material	BS EN 10088 Part 1-3: 2005	Stainless steels
Bolt	BS EN ISO 3506 Part 1 to 3: 2009	Mechanical properties of corrosion-resistant stainless steel fasteners
Welding Consumables	DD ENV 1090 Part 6 : 2001	Execution of steel structures. Supplementary rules for stainless steel
Welding Standard	BS EN 1011 Part 3: 2000	Welding. Recommendations for welding of metallic materials. Arc welding of stainless steels



Welding Procedure Specification	BS EN ISO 15614 Part 1: 2004 + A1:2008 Part 8: 2002	Specification and qualification of welding procedures for metallic materials. Welding procedure test
Weld Qualification Tests	BS EN 287 Part 1: 2011	Qualification test of welders. Fusion welding. Steels
Testing of Material	BS EN 10045 Part 1:1990	Charpy impact test on metallic materials. Test method (V- and U-notches)
	BS EN ISO 148 Part 1:2010	Metallic materials – Charpy pendulum impact test. Test method
	BS EN 10002 Part 1: 2001	Tensile testing of metallic materials. Method of test at ambient temperature
	BS EN ISO 6892 Part 1:2009	Metallic materials – Tensile testing. Method of test at ambient temperature
Non-destructive Test of Welds	BS EN 970: 1997	Non-destructive examination of fusion welds. Visual examination
	BS EN ISO 17637:2011	Non-destructive testing of welds. Visual testing of fusion-welded joints
	BS EN 571 Part 1:1997	Non-destructive testing. Penetrant testing. General principles
	BS EN ISO 3452 Part 1:2013	Non-destructive testing. Penetrant testing. General principles
	BS EN 1714:1998	Non destructive testing of welded joints. Ultrasonic testing of welded joints

Non-destructive Test of Welds	BS EN ISO 17640 : 2010	Non-destructive testing of welds. Ultrasonic testing, Techniques, testing levels and assessment
	BS EN ISO 5817 : 2007	Welding – Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) – Quality levels for imperfections

**(g) Miscellaneous Materials**

<b>Category</b>	<b>Standard</b>	<b>Title</b>
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
	ASTM C880 – 09	Standard Test Method for Flexural Strength of Dimension Stone
	ASTM C1354 – 09	Standard Test Method for Strength of Individual Stone Anchorages in Dimension Stone
Masonry	BS 3921: 1985	Specification for clay bricks

<b>Category</b>	<b>Standard</b>	<b>Title</b>
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 July 2016. Such editions are the most suitable for Hong Kong and may not be the latest version of a Standard.

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