



Hong Kong Testing Company Limited

香港試驗有限公司

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ACCREDITED TEST : Calibration Services 校正服務
CATEGORIES Construction Materials 建築材料
認可測試類別 Environmental Testing 環境測試

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Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED® 特定測試或量度的特性®	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment - Compacting bar	Verification in accordance with in-house method CAL-FSH-0102 for the dimensional and mass requirements as specified in CS1: 2010 Vol. 1 App. A10	
	Dimensions of ramming face: 25 mm x 25 mm	0.05 mm
	Length: 380 mm	0.1 mm
- Concrete test cube mould	Mass: 1.8 kg	1 g
	Verification in accordance with in-house method CAL-FSH-0303 for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A25	
	Dimensions: 100 mm or 150 mm	0.04 mm
	Flatness: not more than 0.03 mm or 0.06 mm	0.01 mm
- Curing tank	Perpendicularity: 0.5 mm	0.05 mm
	Parallelism: 1 mm	0.05 mm
	On-site verification for following parameters in accordance with in-house method CAL-CON-0102 for requirements in CS1: 2010 Vol. 1 App. A28	
	Temperature distribution at range of (27 ± 3) °C	0.3 K
	Efficiency of circulation	1 min

® Unless otherwise specified, accredited activities are conducted at the laboratory.

* The calibration uncertainty of a device under test, which is usually reported at 95% confidence level, depends on both the CMC of the laboratory and the performance of the device during calibration.

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Construction materials testing equipment (cont'd) - Slump cone	Verification in accordance with in-house method CAL-FSH-0202 for the dimensional requirements as specified in CS1: 2010 Vol. 1 App. A5 Internal diameter of top: 100 mm Internal diameter of base: 200 mm Wall thickness: minimum 1.5 mm Height of cone: 300 mm	0.12 mm 0.12 mm 0.12 mm 0.10 mm
- Tamping rod	Verification in accordance with in-house method CAL-FSH-0202 for the dimensional requirements as specified in CS1: 2010: Vol. 1 App. A6 Diameter of rod: 16 mm Length of rod: 600 mm	0.1 mm 0.1 mm

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Mass and related measurements - Force measurements - Concrete testing machine - Universal testing machine in compression mode	On-site calibration for compressive force using grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1992, or CS1: 1990 Vol.2 App. D (constant true force method for above two standards) over the following range : 5 kN to 3000 kN	0.6 % of reading
	On-site calibration for compressive force using Class 1 load cells and verification of class in accordance with BS EN 12390-4: 2000 Annex B and Table 1, or CS1: 2010 Vol. 2 App. D (constant true force method for above two standards) over the following range : 5 kN to 3000 kN	0.6 % of reading
	On-site verification for strain ratio by performing strain gauged column and proving test (stability test) in accordance with BS 1881: Part 115: 1986 (Amd. 6536), or BS EN 12390-4: 2000 Annex A and Table 3, or CS1: 1990 Vol. 2 App. D, or CS1: 2010 Vol. 2 App. D over the following range of compressive force: 200 kN to 2000 kN	0.03 strain ratio
	On-site calibration for compressive force using Grade 1.0 load cells and verification of grade true force method in accordance with BS 1610: Part 1: 1985, or CS1: 1990 App. D (constant true force method for above two standards) over the following range : 5 kN to 3000 kN	0.6 % of reading

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Adhesives	Pull-off test of repair mortar	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 2.1.15 Method 1 (by coring method) Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 2.1.15 Method 1 with modification (by coring method) In-house method MTS-PHY-0102 (by saw-cutting method)
	Pull-off test of tiles	In-house method MIS-PHY-0101 (saw-cutting method) In-house method MIS-PHY-0102 (by coring method)
Admixtures (Chemical analysis)	Acid-soluble alkali content (equivalent Na ₂ O)	In-house Method CON-CHM-1201
	Ash content	BS 5075: Part 1: 1982 (Amd. 4910) App. D.2
	Chloride ion content	BS 5075: Part 1: 1982 (Amd. 4910) App. E
	Dry material content	BS 5075: Part 1: 1982 (Amd. 4910) App. D.1
	Relative density (of liquid admixture)	BS 5075: Part 1: 1982 (Amd. 4910) App. D.3
Aggregates	Sampling	BS 812: Part: 102: 1989 CS3: 2013 Section 8
	Particle size distribution	BS 812: Section 103.1: 1985 + Amd. 6003 (by sieve analysis) CS3: 2013 Section 10 + Amd. 1/2013 (by sieve analysis)
	Flakiness index	BS 812: Section 105.1: 1985 BS 812: Section 105.1: 1989 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	Methylene blue value	CS3: 2013 Section 13

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Aggregates (cont'd)	Los Angeles value	CS3: 2013 Section 14
	Aggregate impact value	BS 812: Part 112: 1990 + Amd. 8772 CS3: 2013 Section 15
	Ten per cent fines value	BS 812: Part 111: 1990 CS3: 2013 Section 16
	Particle densities and water absorption	BS 812: Part 2: 1995 + Amd. 1 & 2 (Wire basket method, Gas jar method and Pycnometer method) CS3: 2013 Section 17
	Moisture content	BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18 (by oven drying method)
	Soundness	BS 812: Part 121: 1989 CS3: 2013 Section 19
	Drying shrinkage	CS3: 2013 Section 20
	Effect of organic substances by mortar method	CS3: 2013 Section 22 + Amd. 1/2016
	Alkali silica reaction potential by ultra-accelerated mortar bar test	CS1: 2010 Section 22 + Amd. 1/2013
	Aggregate crushing value	BS 812: Part 110: 1990
	Bulk density, voids and bulking	BS 812: Part 2: 1975 + Amd. 4615
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4572 (by decantation method)
	Resistance to degradation of small size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131-96 ASTM C131-96 with modifications
Resistance to degradation of large size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C535-96	
Shell content in coarse aggregates	BS 812: Part 106: 1985	

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Aggregates (Chemical analysis)	Total sulphate content (acid extraction)	BS 812: Part 118: 1988 Cl. 6 <i>Excluding</i> Cl. 4
	Total sulphur content	CS3: 2013 Section 21.6
	Water-soluble sulphate content	BS 812: Part 118: 1988 Cl. 5 <i>Excluding</i> Cl. 4
	Acid-soluble sulphate content	CS3: 2013 Section 21.5
	Water-soluble chloride salts	BS 812: Part 117: 1988 BS 812: Part 4: 1976 BS EN 1744-1: 2009+A1: 2012 Cl.7 <i>Excluding</i> Cl. 7.2
	Water-soluble chloride ion content	CS3: 2013 Section 21.3
	Acid-soluble chloride ion content	CS3: 2013 Section 21.4
	Presence of humus	CS3: 2013 Section 21.7
	Acid-soluble material	BS 812: Part 119: 1985 <i>Excluding</i> Cl. 4
	Soluble calcium oxide content	HKHA MTS (97/99) Specification Part D 1.4.9
	Soluble silica content	HKHA MTS (97/99) Specification Part D 1.4.9

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Bituminous materials	Bitumen content of bituminous paving materials by ignition method	ASTM D6307-98 ASTM D6307-05 ASTM D6307-16
	Bulk specific gravity and density of compacted bituminous mixtures using automatic vacuum sealing method	ASTM D6752/D6752M-11 ASTM D6752/D6752M-11 with modifications ASTM D6752/D6752M-17 ASTM D6752/D6752M-17 with modifications ASTM D6752/D6752M-18 ASTM D6752/D6752M-18 with modifications
	Bulk specific gravity and density of compacted bituminous mixtures using coated specimen	ASTM D1188-96 (Reapproved 2002)
	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726-96a ASTM D2726-14/D2726M-14
	Mechanical size analysis of extracted aggregates	ASTM D5444-08 ASTM D5444-15 with modifications
	Percentage air voids in compacted dense bituminous paving mixtures	ASTM D3203-94 ASTM D3203-11 ASTM D3203/D3203M-17
	Polymer modified binder content and particle size distribution of polymer modified friction course and cushion course materials by centrifuge method and ignition method.	ASTM C117-95 and ASTM C136-96a with modification Particular Specification for Highways Department Guidance Notes on Road Surface Requirements for Expressways and High Speed Roads RD/GN/032 (Jun 2007 App. B)
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-95 (Method A using ashing method) ASTM D2172/D2172M-17 Method A (By centrifuge extractor)

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Bituminous materials (cont'd)	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-95 Procedure B and ASTM C136-84a with modifications ASTM C117-95 Procedure B and ASTM C136-95a with modifications ASTM C117-95 Procedure B and ASTM C136-96a with modifications ASTM C117-13 Procedure B with modifications and ASTM C136-14 with modifications
	Sieve analysis of mineral fillers for asphalt paving mixtures	ASTM D546-17
	Theoretical maximum specific gravity and density of bituminous paving mixtures	ASTM D2041-95 with modifications (Weighing in water method) ASTM D2041/D2041M-11 with modifications (Weighing in water method)
	Thickness or height of compacted asphalt mixture specimens	ASTM D3549-93a (excluding Cl. 6.2 & 6.3) ASTM D3549/D3549M-17
	Viscosity of asphalt binder using a rotational viscometer	AASHTO T316-06 with modifications AASHTO T316-13 (2017) with modifications

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Blocks and bricks	Bending strength of paving flags	BS EN 1339: 2003 + Corr. 1: 2006 Annex F in conjunction with the following specification(s): General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.84 (3)
	Dimensions of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. A & C BS EN 1344: 2002 Annex B Highway Department Specification for Clay Pavers and Clay Paving Setts (2008)
	Dimensions of natural stone setts	BS EN 1342: 2001 Annex A
	Dimensions of natural stone slabs	BS EN 1341: 2001 Annex A Highways Department Specification for Natural Granite Pavers and Miscellaneous Items (2008)
	Dimensions of paving blocks	BS 6717: 2001 Annex B BS EN 1338: 2003 Annex C: C.1 - C.3 in conjunction with the following specification(s): General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 11.86 (4) General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.86 (4)
	Dimensions of paving flags	BS 7263: Part 1: 2001 Annex B BS EN 1339: 2003 Annex C General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 11.86 (4) General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.86 (4)
	Unpolished slip/skid resistance value of clay pavers	BS EN 1344: 2002 Annex F General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 11.87 (4) & (5) Highway Department Specification for Clay Pavers and Clay Paving Setts (2008)
	Unpolished slip/skid resistance of natural stone slabs	BS EN 1341: 2001 Annex D BS EN 1342: 2001 Annex C Highways Department Specification for Natural Granite Pavers and Miscellaneous Items (2008)

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Blocks and bricks (cont'd)	Water absorption of masonry units and segmental pavers	AS/NZS 4456.14: 2003 General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 11.88 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 11.88 Highway Department Specification for Clay Pavers and Clay Paving Setts (2008) Highways Department Specification for Natural Granite Pavers and Miscellaneous Items (2008)
	Wet pendulum test for slip resistance	AS 4586-2013 App. A
	Compressive strength of paving blocks	General Specification for Civil Engineering Works (2006) Vol. 1 App. 11.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 11.1
	Flexural strength & breaking load of natural stone slabs	BS EN 12372: 2006 in conjunction with the following specification: BS EN 1341: 2001 Annex B Highways Department Specification for Natural Granite Pavers and Miscellaneous Items (2008)
	Transverse breaking load of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. D
	Transverse breaking load of clay pavers	BS EN 1344: 2002 Annex D Highway Department Specification for Clay Pavers and Clay Paving Setts (2008)
	Transverse breaking load of natural granite pavers	Highways Department Specification for Natural Granite Pavers and Miscellaneous Items (2008)

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Cement & Portland pulverized fuel ash cement (PPFAC)	Compressive strength of broken mortar prisms in the force range 2 kN - 300 kN	BS EN 196-1: 1995
	Density	BS EN 196-6: 1992 Annex NC
	Fineness	BS EN 196-6: 1992 (by Blaine Method)
	Flexural strength of mortar prisms in the force range 1 kN – 30 kN	BS EN 196-1: 1995
	Setting times	BS EN 196-3: 1995
	Soundness	BS EN 196-3: 1995
	Standard consistence	BS EN 196-3: 1995

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Cement (Chemical analysis)	Alumina content (Al_2O_3)	BS 4550: Part 2: 1970 Cl. 7.2
	Insoluble residue content	BS 4550: Part 2: 1970 Cl. 3.1
	Residue insoluble in hydrochloric acid and sodium carbonate	BSEN196-2: 1995 Cl. 9
	Iron oxide content (Fe_2O_3)	BS 4550: Part 2: 1970 Cl. 8
	Lime saturation factor	BS 12: 1978 Cl. 6.1
	Loss-on-ignition (L.O.I.)	BS 4550: Part 2: 1970 Cl. 13.2 BS EN 196-2: 1995 Cl. 7
	Magnesia content (MgO)	In-house Method CEM-CHM-0301
	Sulphuric anhydride (SO_3)	BS 4550: Part 2: 1970 Cl. 10
	Sulphate content (as SO_3)	BS EN 196-2: 1995 Cl. 8
	Total calcium oxide content (CaO)	In-house Method CEM-CHM-0201
	Total silica content (SiO_2)	BS 4550: Part 2: 1970 Cl. 4.2
	Chloride content	BS 4550: Part 2: 1970 (Amd. 5713) BS EN 196-21: 1992 Cl. 4
	Tricalcium aluminate content (C_3A)	BS 12: 1989 Cl. 8.4
	Heat of hydration	BS 4550: Part 3: Section 3.8: 1978 with modification
	Acid-soluble alkali content (equivalent Na_2O)	In-house method CON-CHM-1101
	Alkali content (equivalent Na_2O)	In-house method CON-CHM-1105

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Coating	Pull-off test of coating in the force range 1 kN - 50 kN	In-house method MIS-PHY-0201 (by cutting method) In-house method MIS-PHY-0202 (by coring method)	
Concrete (diagnostic)	Carbonation test	Building Research Establishment Information Paper IP 6/81 BS EN 14630: 2006	
	Covermeter survey	BS 1881: Part 204: 1988	
	Half-cell potential measurement	ASTM C876-91	
	Surface hardness measurement	BS 1881: Part 202: 1986 Cl. 6 BS EN 12504-2: 2012 BS EN 12504-2: 2021	
	Acid-soluble alkali content (equivalent Na ₂ O)	In-house method CON-CHM-1001	
Concrete (Chemical analysis)	Aggregate / cement ratio	BS 1881: Part 124: 1988 Cl. 5.9	
	Cement and aggregate content (by CaO determination)	BS 1881: Part 124: 1988 Cl. 5.4 & 5.9 CS1: 1990 Section 21.6 CS1: 2010 Section 21.6	
	Chloride ion content	BS 1881: Part 124: 1988 Cl. 10.2 CS1: 1990 Section 21.10.2 (Amd. 1201) CS1: 2010 Section 21.10.2	
	Detection of PFA	In-house method CON-CHM-1501	
	Sulphate content	BS 1881: Part 124: 1988 Cl. 10.3 CS1: 1990 Section 21.10.3 CS1: 2010 Section 21.10.3	
	pH value	In-house method CON-CHM-0801	
	Original water content (as original total water/cement ratio)	BS 1881: Part 124: 1988 Cl. 7 CS1: 1990 Section 21.7 CS1: 2010 Section 21.7	

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Concrete	Assessment of the cement, aggregate and water content of fresh concrete	In-house method FSH-PHY-1001 DD 83: 1983 Section 3 Cl. 5
	Bleeding test	ASTM C232-99 Method A ASTM C232 / C232M-09 Method A
	Sampling fresh concrete on site	BS 1881: Part 101: 1983 CS1: 2010 Section 1
	Slump of fresh concrete	CS1: 2010 Section 2 Part I
	Compaction factor of fresh concrete	CS1: 2010 Section 2 Part II
	Flow table test	CS1: 2010 Section 2 Part IV
	Slump flow test	CS1: 2010 Section 2 Part V
	Stiffening time of fresh concrete	CS1: 2010 Section 3
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Making test beams from fresh concrete	CS1: 2010 Section 8
	Making test cylinders from fresh concrete	CS1: 2010 Section 9
	Obtaining core samples	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 6.1
Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance & Building Materials Specification Part D Cl. 4.2.1	

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Concrete (cont'd)	Curing of test specimens (Tropical zone temperature)	BS 1881: Part 111: 1983 CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN - 3000 kN	BS 1881: Part 116: 1983 CS1: 2010 Section 12
	Tensile splitting strength of cylinders in the force range 20 kN – 3000 kN	CS1: 2010 Section 13
	Flexural strength of concrete test beams in the force range 5 kN – 100 kN	CS1: 2010 Section 14
	Compressive strength of concrete cores in the force range 50 kN - 3000 kN	BS 1881: Part 120: 1983 CS1: 2010 Section 15
	Density of hardened concrete	BS 1881: Part 114: 1983 Section 6 + Amd. 6098 CS1: 2010 Section 16
	Water absorption	BS 1881: Part 122: 1983
Dimension stones	Compressive strength	ASTM C170-90 (Reapproved 1999) ASTM C170/C170M-15a
	Flexural strength	ASTM C880-98 ASTM C880/C880M-15
	Strength of individual stone anchorages	ASTM C1354-96 (Reapproved 2004) ASTM C1354/C1354M-15

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Dimension stones	Absorption and bulk specific gravity	ASTM C97-02 ASTM C97/C97M-15
Foundation	Plate load test (PLT)	BS 1377: Part 9: 1990 + Amd. No.1 Cl. 4.1 (incremental loading) Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h)
Ground granulated blastfurnace slag (GGBS)	Activity index	BS EN 196-1: 2005 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.3
	Compressive strength of broken mortar prism in the force range 20 kN – 250 kN	BS EN 196-1: 1995
	Density	BS EN 196-6: 1992 Annex NC in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.5g
	Fineness	BS EN 196-6: 1992 (by Blaine Method) in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.1
	Flexural strength of mortar prism in the force range 1 kN – 25 kN	BS EN 196-1: 1995
	Initial setting time	BS EN 196-3: 1995 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2
	Moisture content	BS EN 15167-1: 2006 Annex A (Oven drying method)
	Standard consistence	BS EN 196-3: 1995
	Ground water (Chemical analysis)	pH value
Sulphate content		GEOSPEC 3:2001 Test 9.3

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Grout	Bleeding and free expansion Flow of grout for pre-placed aggregate concrete (flow cone method)	ASTM C940-89 ASTM C940-98a General Specification for Civil Engineering Works (2006) Vol.1 Cl. 7.160 & Vol.2 Cl. 17.60 ASTM C939-94a ASTM C939/C939M-16a
Metallic materials	Bond property of steel reinforcing bars by surface geometry measurement	BS EN ISO 15630-1: 2002 Cl. 10, 11.2 & 11.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.4 & 9 BS 4482: 2005 + Amd. 1 Cl. 7.4.2

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Metallic materials (cont'd)	Bend test of carbon steel bars	BS 4449: 1988 Cl. 10.2 Building Ordinance Office PNAP 122 (Jul 1994) CS2: 1995 Cl. 6.1 & 6.3
	Charpy V-notch impact test	BS EN 10045-1: 1990 in conjunction with the following specification(s): BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-4: 2004 Cl. 10.2, Table 6 & 7 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A.3 & B.3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A.3, B.4 & B.5
	Mass per metre square unit area, pitch and dimension of steel fabrics for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 12 in conjunction with the following specification(s): BS 4483: 2005 Cl. 7.3, 8.1.3.2 & BS 4449: 2005 Cl. 7.3
	Mass per metre of steel reinforcing bars	BS 4449: 2005 + A2: 2009 Cl. 7.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2
	Rebend test of carbon steel bars	BS 4449: 1988 Cl. 10.3 Building Ordinance Office PNAP 122 (Jul 1994) CS2: 1995 Cl. 6.1 & 6.4
	Rebend test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete	BS EN ISO 15630-1: 2002 Cl. 7 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.5 BS 4482: 1985 Cl. 12.2 & App. C.5 with modification BS 4483: 1985 Cl. 12.1 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.5 & 8.1.3.2
	Static tension test, static compression test, cyclic tension & compression tests for mechanical connector systems (Type 2 Splice) for steel reinforcing bars in the force range 12 kN - 2000 kN	ICC Evaluation Service, Inc. AC133 (Approved May 2008, Effective 1 Jun 2008) Cl. 4.1.2 ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jul 2010) Cl. 4.1.2 in conjunction with the following specification(s): Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.4(b), (c) & (d)
Tensile test of carbon steel bars in the force range 12 kN – 2000 kN	CS2: 1995 Cl. 6.1 & 6.2 BS 4449: 1988 Cl. 10.1 Building Ordinance Office PNAP 122 (Jul 1994)	

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Metallic materials (cont'd)	<p>Tensile test of metallic materials in the Force range 12 kN – 2000 kN</p> <p>Tensile test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete in the force range 12 kN – 2000 kN</p>	<p>BS 18: 1987 in conjunction with the following specification(s): BS 4360: 1986 Cl. 23</p> <p>BS EN 10002-1: 2001 BS EN ISO 6892 -1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS 4360: 1990 Cl. 23 BS EN 10025-1: 2004 Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 & Table 7 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10210-1: 1994 Cl. 6.6.1, 9.2 & 9.2.1 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2</p> <p>BS EN 10002-1: 2001 BS EN ISO 6892 -1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 BS 4482: 1985 Cl. 12.1 & App. C.3 with modifications BS 4483: 1985 Cl. 12.1 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.2, 7.2.3, 8.1.3.1 & 9 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4</p>

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Metallic materials (cont'd)	<p>Tensile test & slip/permanent elongation test of mechanical coupler for reinforcing bar in the force range 12 kN – 2000 kN</p> <p>Weld shear force test of steel fabrics for reinforcement of concrete</p>	<p>BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B & ISO 15835-2: 2018 Cl. 5.4 excluding 5.4.4 in conjunction with the following specification(s): BS 8110: Part 1: 1985 Cl. 3.12.8.16.2 BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 Buildings Department Code of Practice for Structural Use of Concrete (2004) Cl. 3.2.8.2 Buildings Department Code of Practice for Structural Use of Concrete (2013) Cl. 3.2.8.3 General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 15.35 General Specification for Civil Engineering Works (2020) Vol. 2 Cl. 15.35 ISO 15835-1: 2018 Cl. 5.4.1 Option 2 & 5.4.2</p> <p>BS EN ISO 15630-2: 2010 Cl. 7 ISO 10287: 1992 in conjunction with the following specification(s): BS 4483: 1985 Cl. 12.2 BS 4483: 1998 Cl. 13.2 BS 4483: 2005 Cl. 7.2.2 & 7.2.4</p>

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Polymer latex (Chemical analysis)	Polymer solids content	HKHA Standard 002: 1990 (modified) Cl. 2
Polymer modified mortar and prebagged materials (Chemical analysis)	Cement content and sand/cement ratio (by CaO determination)	HKHA Standard 002: 1990 (modified) Cl. 7
	CO ₂ content (gasometric)	HKHA Standard 002: 1990 (modified) Cl. 7
	Polymer solids	HKHA Standard 002: 1990 (modified) Cl. 8
	Sample treatment	HKHA Standard 002: 1990 (modified) Cl. 6
Pulverized fuel ash (PFA)	Fineness	BS 3892: Part 1: 1997 Annex D
	Initial setting time	BS EN 196-3: 1995 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 10 with modifications
	Moisture content	BS 3892: Part 1: 1997 Annex C
	Particle density	BS EN 196-6: 1992 Annex NC in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 7
	Soundness	BS EN 196-3: 1995 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 11 with modifications
	Strength factor	BS 3892: Part 1: 1997 Annex F with modifications
	Water requirement	BS 3892: Part 1: 1997 Annex E BS 3892: Part 1: 1997 Annex E with modifications

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Pulverized fuel ash (Chemical analysis)	Chloride	BS EN 196-21: 1992 Cl. 4
	Loss-on-ignition	BS 4550: Part 2: 1970 Cl. 13.2 BS EN 196-2: 1995 Cl. 7
	Magnesium oxide content (MgO)	BS 3892: Part 1: 1982 App. C
	Sulphuric anhydride content (SO ₃)	BS 4550: Part 2: 1970 Cl. 10 BS EN 196-2: 1995 Cl. 8
	Total alkali content (equivalent Na ₂ O)	In-house method CON-CHM-1102
	Alkali content (equivalent Na ₂ O)	In-house method CON-CHM-1106
Repair mortar	Compressive strength of repair mortar cubes in the force range 50 kN - 2000 kN	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 2.1.1
	Flow	BS 4551: Part 1: 1998
	Obtaining inspection core samples	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Maintenance and Building Materials Specification Part D Cl. 2.1.22

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Road surfaces	Texture depth of carriageways (by sand patch test)	General Specification for Civil Engineering Works (2006) Vol. 1 App. 10.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 10.1
	Surface regularity of carriageways (by a 3 meter / rolling straightedge method)	Highways Department (Research and Development Division) Guidance Notes on Road Testing - RD/GN/009 (Sep 1989) with modification General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 10.55 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 10.55
	Skid resistance of road surfaces/markings using a portable pendulum tester	BS EN 1436: 1998 + Amd. 14288 Annex D Highways Department Terms Contract Particular Specification (2010) Cl. 12.45 Highways Department (Research and Development Division) Guidance Notes on Road Testing -RD/GN/009 (Sep 1989)
	Luminance coefficient under defuse illumination (Qd) and retro-reflected luminance (RL) of road markings	BS EN 1436: 1998 + Amd. 14288 Annex A & B excluding Annex B.7 Highways Department Terms Contract Particular Specification (2010) Cl. 12.45
	Thickness of road marking materials (by micrometer method)	BS 3262: Part 3: 1989 + Amd. 8785 & 10205 App. B Highways Department Terms Contract Particular Specification (2010) Cl. 12.46
	Permeability of friction course material	General specification for Civil Engineering Works (2006) Vol. 1 App. 9.1 General specification for Civil Engineering Works (2020) Vol. 1 App. 9.1

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Soil (Phase I)	Moisture content by oven-drying at 45°C ± 5°C	GEOSPEC 3: 2001 Test 5.1
	Moisture content by oven-drying at 105°C ± 5°C	GEOSPEC 3: 2001 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1
	Particle density by small pycnometer method	GEOSPEC 3: 2001 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5
Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6	

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Soil (Phase I) (cont'd)	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6
	Dry density/moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7
	Dry density/moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8

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Soil (Phase I) (cont'd)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1
	In-situ bulk density and in-situ dry density of soils by the sand replacement method coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2
	In-situ bulk density and in situ dry density of soils by nuclear densometer method suitable for fine- and medium-grained soils	GEOSPEC 3: 2001 Test 11.3
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4
	California Bearing Ratio (CBR)	GEOSPEC 3: 2001 Test 12.1
Soil (other)	Lift-off test of ground anchors	Highways Department Specification (2004) Cl. 35.07 GEOSPEC 1: 1997 App. A.16
	Pull-out test of soil nails	CEDD Particular Specification for soil nail pull out test (Contract No. GE/2005/13) Cl. 7.227 A1
	Time Domain Reflectometry (TDR) test on soil nails	In-house method SOL-PHY-4402 GEO Guidelines on Test Procedure using Time Domain Reflectometry (TDR) to determine the length of Installed soil nails (July 2017)
Soil (Chemical analysis)	Loss-on-ignition	GEOSPEC 3: 2001 Test 9.2
	Organic matter content	GEOSPEC 3: 2001 Test 9.1
	pH value	GEOSPEC 3: 2001 Test 9.5
	Total sulphate content (asSO ₃)	GEOSPEC 3: 2001 Test 9.3
	Water-soluble sulphate content (as SO ₃)	GEOSPEC 3: 2001 Test 9.3
	Water-soluble chloride content	GEOSPEC 3: 2001 Test 9.4

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Steel (Chemical analysis) - Carbon and low alloy steel	Carbon, Chromium, Copper, Manganese, Molybdenum, Nickel, Nitrogen, Phosphorus, Sulphur, Vanadium	In-house Method STL-CHM-0101 (Spark-OES)
	Carbon equivalent value (CEV)	In-house Method STL-CHM-0101 (by calculation)
- Stainless steel (304, 304L, 316 and 316L)	Carbon, Chromium, Manganese, Molybdenum, Nickel, Nitrogen, Phosphorus, Silicon, Sulphur	In-house Method STL-CHM-0102 (Spark-OES)

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Structural fixings	Tensile proof load test of anchors, dowel bars, and channel inserts by incremental loading in the force range 2 kN – 200 kN	BS 5080: Part1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Tensile proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/curtain wall remedial works in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works or/and steel T-bolts with cast-in channels in the force range 1 kN – 600 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
Tiles	Static coefficient of friction of ceramic tiles by horizontal dynamometer pull-meter method	ASTM C1028-96
Tile adhesives	Initial tensile adhesion strength	BS EN 1348: 2007
	Tensile adhesion strength after water immersion	BS EN 1348: 2007
	Tensile adhesion strength after heat ageing	BS EN 1348: 2007
	Tensile adhesion strength after freeze-thaw cycle	BS EN 1348: 2007
	Early tensile adhesion strength	BS EN 1348: 2007
	Open time	BS EN 1346: 2007
	Slip	BS EN 1308: 2007

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Water (Chemical analysis)	Total alkalinity	APHA 18e 2320B
	Chloride content	APHA 18e 4550 Cl ⁻ B
	pH value	In-house method WAT-CHM-0301
	Sulphate content	In-house method WAT-CHM-0401
	Acid-soluble alkali content (equivalent Na ₂ O)	In-house method CON-CHM-1301
	Total dissolved solids content dried at 180°C	In-house method WAT-CHM-0501

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Environmental Testing 環境測試		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術
Water and wastewater	Physical examination:- - Total suspended solids dried at 103°C - 105°C - Suspended volatile solids ignited at 550°C Organic pollutants:- - Oil & grease - Oxygen-demand (Biochemical) - Oxygen-demand (Chemical)	APHA 17e 2540 D (Gravimetric) APHA 17e 2540 E (Gravimetric) APHA 18e 5520 B Solvent (c & d) mixture (Partition & gravimetric) APHA 18e 5210 B (BOD-5 days) APHA 18e 5220 B (Open reflux)