



Castco Testing Centre Ltd.

佳力高試驗中心有限公司

ADDRESS : 6/F., Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
地址 香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

ENQUIRY : Dr Stephen LEE Shu-hang, Executive Director
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CLIENTELE : Public
服務對象 公眾



Castco Testing Centre Ltd.
佳力高試驗中心有限公司

ADDRESS

地址

- Main Laboratory** : 29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 29 號 A
- Branch Laboratories** : 6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安居街 33 號得利中心 6 樓
- : 31, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong
香港新界粉嶺安樂村安全街 31 號
- Test Location at Zhongshan** : No. 68, Bijiaotou Group, Baiqi Village, Nanlang Street, Zhongshan City, Guangdong Province, China
中國廣東省中山市南朗街道白企村碑角頭小組 68 號
- ACCREDITED TEST CATEGORIES** : Calibration Services 校正服務
Chemical Testing 化學測試
Chinese Medicine 中藥
Construction Materials 建築材料
Environmental Testing 環境測試
Food 食品
Miscellaneous 雜類
Pharmaceutical Products 藥物
Physical and Mechanical Testing 物理及機械測試

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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		
- BRE screed tester	Verification in accordance with in-house method CAL-BRE for the dimensional and mass requirements as specified in BS 8204: Part 1: 1987: App. B2; or BS 8204: Part 1: 1999: Annex C2 Travel distance: 1000 mm Diameter of tool piece: 25.23 mm Mass of annular weight: 4.00 kg Depth measuring device: 0 to 10 mm	0.5 mm 0.02 mm 2.1 g 0.02 mm
- Cement grout flow cone	Verification in accordance with in-house method CAL-FLOW-CONE for the performance as specified in ASTM C939-02 Cl. 8, or ASTM C939-10 Cl. 9 Time of efflux of water from cone: 8.0 s	0.06 s
- Compacting bar	Verification in accordance with in-house method CAL-COMP-BAR for the dimensional and mass requirements as specified in CS1: 1990: Vol. 1 (Amd. 1102) App. A9; or CS1: 2010: Vol. 1 App. A10 Dimensions of ramming face: 25 mm x 25 mm Length: 380 mm Mass: 1.8 kg	0.02 mm 1 mm 2.1 g
- Covermeter	Calibration for depth of cover in accordance with in-house method CAL-COVER using a device as specified in BS 1881: Part 204: 1988 Cl. 6.2 (Method A) over the following range : 12 mm to 100 mm	1.5 mm

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Construction materials testing equipment (cont'd) - Cube mould	Verification in accordance with in-house method CAL-MOULD for the dimensional requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) App. A21 excluding A21.2(e); or CS1: 2010 Vol. 1 App. A25 Dimensions: 100 mm or 150 mm Flatness: not more than 0.03 mm or 0.06 mm Squareness: 0.5 mm Parallelism: 1 mm On-site verification in accordance with in-house method CAL-MOULD for the dimensional requirements as specified in CS1: 1990 Vol. 1 (AMD 1102) App. A21 excluding A21.2(e); or CS1: 2010 Vol. 1 App. A25 Dimensions: 100 mm or 150 mm Flatness: not more than 0.03 mm or 0.06 mm Squareness: 0.5 mm Parallelism: 1 mm Verification in accordance with in-house method CAL-MOULD for the dimensional requirements as specified in BS 4550: Part 3: Section 3.4: 1978 Cl. 2.3.1.3 Dimension: 70.7 mm Flatness: not more than 0.03 mm or 0.06 mm Squareness: 0.5 mm On-site verification in accordance with in-house method CAL-MOULD for the dimensional requirements as specified in BS 4550: Part 3: Section 3.4: 1978 Cl. 2.3.1.3 Dimension: 70.7 mm Flatness: not more than 0.03 mm or 0.06 mm Squareness: 0.5 mm	0.03 mm 0.007 mm 0.02 mm 0.06 mm 0.03 mm 0.007 mm 0.02 mm 0.06 mm 0.03 mm 0.007 mm 0.02 mm 0.03 mm 0.007 mm 0.02 mm

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Construction materials testing equipment (cont'd)		
- Curing tank	On-site verification for the following parameters in accordance with in-house methods CAL-TANK-TEMP and CAL-TANK-CIR for the requirements as specified in CS1: 1990: Vol. 1 App. A24; or CS1: 2010: Vol. 1 App. A28	
	- temperature distribution at a range of (27 ± 3) °C	0.4 K
	- efficiency of circulation	0.5 min
- Cylinder mould	Verification in accordance with in-house method CAL-CYLMOULD for the dimensional requirements as specified in CS 1: 1990: Vol. 1 App. A23 excluding A23.2 (e) and (f)	
	Dimension: 150 mm to 300 mm	0.05 mm
	Flatness: 0.03 mm to 0.15 mm	0.007 mm
	Squareness: 1.0 mm	0.02 mm
	Parallelism: 1.0 mm	0.06 mm
	On-site verification in accordance with in-house method CAL-CYLMOULD for the dimensional requirements as specified in CS 1: 1990: Vol. 1 App. A23 excluding A23.2 (e) and (f)	
	Dimension: 150 mm to 300 mm	0.05 mm
	Flatness: 0.03 mm to 0.15 mm	0.007 mm
	Squareness: 1.0 mm	0.02 mm
	Parallelism: 1.0 mm	0.06 mm

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Construction materials testing equipment (cont'd)		
- Cylinder mould (cont'd)	Verification in accordance with in-house method CAL-CYLMOULD for the dimensional requirements as specified in CS 1: 2010: Vol. 1 App. A27 Dimension: 150 mm to 300 mm Flatness: 0.03 mm to 0.15 mm Straightness: 0.5 mm Perpendicularity: 1.0 mm Parallelism: 1.0 mm On-site verification in accordance with in-house method CAL-CYLMOULD for the dimensional requirements as specified in CS 1: 2010: Vol. 1 App. A27 Dimension: 150 mm to 300 mm Flatness: 0.03 mm to 0.15 mm Straightness: 0.5 mm Perpendicularity: 1.0 mm Parallelism: 1.0 mm	0.05 mm 0.007 mm 0.007 mm 0.02 mm 0.06 mm
- Drying oven	On-site verification of temperature at center, temperature variation and evaporation rate in accordance with AS 1289.0: 2000 Cl. 4.2.1 and 4.2.3 over the following range : Temperature: 105 °C to 110 °C Evaporation rate at 105 °C to 110 °C: 10 g/hr to 50 g/hr On-site verification of temperature variation in accordance with in-house method CAL-OVEN2 over the following range : 45 °C to 200 °C	1.0 °C 0.5 g/hr 0.8 °C to 1.2 °C

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Construction materials testing equipment (cont'd)		
- Flow table for determination of flow of fresh concrete	Verification in accordance with in-house method CAL-FLOW-TABLE for the dimensional and mass requirements as specified in CS 1: 1990 Vol. 2 (Amd. 1206) App. E1; CS 1: 2010 Vol. 1 App. A15.1; or BS EN 12350-5: 2000 Cl. 4.1 Dimensions of metal plate: 700 mm x 700 mm Thickness of metal plate: minimum 2 mm Diameter of central circle: 210 mm Fall height: 40 mm Mass: 16 kg	1 mm 0.06 mm 0.06 mm 0.06 mm 5 g
- Friction tester (TRRL type portable skid- resistance tester)	Verification in accordance with in-house method CAL-FRICTION-TESTER for the dimensional and mass requirements as specified in BS EN 1097-8: 2000 Cl. 7.3.2.1, 7.3.2.6, 7.3.2.8 to 7.3.2.11 and Annex D Dimensions: 10 mm to 600 mm Mass: 0.01 kg to 20 kg Movement: 0.5 mm to 200 mm Static force/deflection: 21.0 N/mm to 23.4 N/mm	1 mm 0.6 g 0.07 mm 0.007 N/mm

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Construction materials testing equipment (cont'd)		
- Heat soak oven	On-site calibration in accordance with BS EN 14179-1: 2005 Annex A for the temperature and time as listed in Section 18(e) of Buildings Department APP-37 (May 2012) Temperature: 0 °C to 320 °C Time: 2 hrs to 20 hrs On-site calibration in accordance with BS EN 14179-1: 2016 Annex A for the temperature and time as listed in Section 9.3.1(5) & section 9.3.2 of Buildings Department Code of Practice for Structural Use of Glass 2018 Temperature: 0 °C to 290°C Time: 2 hrs to 20 hrs	2.0 °C 8.2 min 2.0 °C 8.2 min
- Metal mould for determination of flow of fresh concrete	Verification in accordance with in-house method CAL-FLOW-MOULD for the dimensional requirements as specified in CS 1: 1990: Vol.2 (Amd. 1206) App. E2; CS 1: 2010: Vol 1. App. A15.2; or BS EN 12350-5: 2000 Cl. 4.2 Internal diameter of top: 130 mm Internal diameter of base: 200 mm Height: 200 mm Thickness of metal: 1.5 mm	 0.5 mm 0.5 mm 0.5 mm 0.03 mm
- Mixer	On-site calibration in accordance with in-house method CAL-MIXER-SPD for rotation speed of mixing blade and mixing bowl over the following range : 100 rpm to 2000 rpm	 1.2 rpm

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Construction materials testing equipment (cont'd)		
- Rebound hammer	Calibration for rebound value in accordance with in-house method CAL-HAM using an anvil complying with BS EN 12504-2: 2001 Cl. 4.2	0.7 rebound count
	Calibration for the friction of rider in accordance with in-house method CAL-HAM over the following range :	
	0.49 N to 0.78 N	0.016 N
- Rolling type straightedge for road surface irregularity measurement	Calibration for depression in accordance with in-house method CAL-ROLLING over the following range :	
	1 mm to 10 mm	0.22 mm
- Slump cone	Verification in accordance with in-house method CAL-SLUMP-CONE for the dimensional requirements as specified in CS 1: 1990: Vol. 1 App. A4; or CS 1: 2010: Vol. 1 App. A5	
	Height: 300 mm	0.6 mm
	Wall thickness: minimum 1.5 mm	0.07 mm
	Internal diameter of base: 200 mm	0.07 mm
	Internal diameter of top: 100 mm	0.07 mm

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Construction materials testing equipment (cont'd)		
- Tamping bar for determination of flow of fresh concrete	Verification in accordance with in-house method CAL-FLOW-TAMPBAR for the dimensional requirements as specified in CS1: 1990: Vol. 2 (Amd. 1206) App. E3; CS1: 2010: Vol.1 App. A15.3; or BS EN 12350-5: 2000 Cl. 4.3 Dimensions of square section: 40 mm x 40 mm Length of square section: 200 mm Length of circular handle: 120 mm to 150 mm	0.02 mm 1 mm 1 mm
- Tamping rod	Verification in accordance with in-house method CAL-TAMP-ROD for the dimensional requirements as specified in CS1: 1990: Vol. 1 (Amd. 1102) App. A5; or CS1: 2010: Vol. 1 App. A6 Diameter: 16 mm Length: 600 mm	0.02 mm 1 mm
- Test sieve aperture size greater than 4 mm	Verification in accordance with in-house method CAL-SIEVE-PER for the dimensional requirements as specified in BS 410: 1986 Aperture size: 4 mm to 125 mm Pitch of hole: 5.8 mm to 160 mm Bridge width: 0.9 mm to 17.5 mm Plate thickness: 0.8 mm to 4.0 mm Verification in accordance with in-house method CAL-SIEVE-PER for the dimensional requirements as specified in BS 410-2: 2000; or ISO 3310-2: 1999 Hole: 4 mm to 125 mm Pitch: 4.9 mm to 184 mm Plate thickness: 0.8 mm to 3.5 mm	0.03 mm 0.03 mm 0.03 mm 0.03 mm 0.03 mm 0.03 mm 0.03 mm

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Electrical measurements - Time and frequency measuring instruments - Stop watch / Timer	Calibration for time in accordance with in-house method CAL-TIMER over the following ranges : 1 s to 1800 s above 1800 s to 3600 s	0.1 s 2 s

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Length and related measurements - Angle measurements - Try square - Square with inner length of blade from 25 mm to 160 mm - Square with inner length of blade above 160 mm to 600 mm - Form measurements - Straight edge - Length of straight edge from 50 mm to 600 mm	Calibration for deviation from squareness in accordance with in-house method CAL-SQUARE over the following ranges : 20 µm to 1000 µm 20 µm to 1000 µm Calibration for straightness of working area in accordance with in-house method CAL-STR-EDGE over the following range : 20 µm to 1000 µm	9 µm 25 µm 11 µm

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Length and related measurements (cont'd)		
- Length measurements		
- Calliper	Calibration for length in accordance with in-house method CAL-CALLIPER-DVR over the following ranges :	
- Dial type:	External measurement: 0.5 mm to 600 mm Internal measurement: 10 mm to 600 mm	25 µm 41 µm
- Digital type :	External measurement: 0.5 mm to 600 mm Internal measurement: 10 mm to 600 mm	15 µm 35 µm
- Vernier type :	External measurement: 0.5 mm to 600 mm Internal measurement: 10 mm to 600 mm	25 µm 41 µm
- Coating thickness measuring device	Calibration for thickness in accordance with in-house method CAL-ELCO over the following ranges :	
	12.5 µm to 50 µm above 50 µm to 1.0 mm above 1.0 mm to 1.5 mm	1.4 µm 2.2 µm 2.6 µm
- Dial gauge	Calibration for length using gauge blocks in accordance with BS 907: 2008 Cl. 9 and Annex B over the following ranges :	
	0.002 mm to 13 mm above 13 mm to 50 mm above 50 mm to 80 mm	1.4 µm 6.2 µm 6.3 µm
	Calibration for length using micrometer head in accordance with BS 907: 2008 Cl. 9 and Annex B over the following ranges :	
	0.002 mm to 5 mm above 5 mm to 80 mm	7 µm 9 µm

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Length and related measurements (cont'd)		
- Length measurements (cont'd)		
- Displacement transducer	Calibration for length in accordance with GEOSPEC 3: 2001 App. A Cl. A.3.4 over the following ranges :	
	0.5 mm to 13 mm	1.4 μ m
	above 13 mm to 25 mm	1.9 μ m
	above 25 mm to 50 mm	1.9 μ m
- Linear variable displacement transducer (LVDT)	Calibration for length in accordance with in-house method CAL-LIN-DISP over the following ranges :	
	0.5 mm to 10 mm	1.4 μ m
	above 10 mm to 100 mm	8 μ m
- Engineer's steel measuring rule	Calibration for length in accordance with in-house method CAL-ST-RULE over the following range :	
	0.01 m to 2 m	0.3 mm

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Length and related measurements (cont'd)		
- Length measurements (cont'd)		
- Extensometer	On-site calibration for displacement using calibration rig and verification of grade in accordance with BS 3846: 1970 (excluding the determination of calibration factor) over the following ranges :	
- Grade A with gauge length from 100 mm to 500 mm	0.003 mm to 25 mm	0.7 µm to 20 µm
- Grade B with gauge length from 50 mm to 500 mm	0.003 mm to 25 mm	0.7 µm to 20 µm
- Grade C with gauge length from 25 mm to 500 mm	0.003 mm to 25 mm	0.7 µm to 20 µm
- Grade D with gauge length from 25 mm to 500 mm	0.003 mm to 25 mm	0.7 µm to 20 µm
- Extensometer	On-site calibration for displacement using calibration rig and verification of class in accordance with BS EN ISO 9513: 2012 + Cor. May 2013; ISO 9513: 2012 + Cor. 1: 2013; BS EN ISO 9513: 2002; over the following range :	
- Class 0.5 with gauge length from 25 mm to 500 mm	0.003 mm to 50 mm	0.7 µm to 20 µm

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Length and related measurements (cont'd)		
- Length measurements (cont'd)		
- External micrometer	Calibration for length in accordance with BS 870: 2008 Annex. A Cl. A.6 & A.7 over the following range : 0.5 mm to 100 mm	2 µm
- Feeler gauge	Calibration for mean thickness in accordance with in-house method CAL-FEELER-ACC over the following range : 0.03 mm to 5.00 mm	3 µm
- Levelling staff	Calibration for length in accordance with in-house method CAL-LEVEL-STAFF over the following range : 0.1 m to 5 m	1.0 mm
- Measuring tape	Calibration for length in accordance with in-house method CAL-MTAPE over the following range : 0.1 m to 150 m	0.3 mm per 5 m
- Microscope	Calibration for length in accordance with in-house method CAL-MICROSCOPE over the following range : 0.1 mm to 8 mm	13 µm

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Scope of Accreditation
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Page 16 of 160
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Length and related measurements (cont'd)		
- Length measurements (cont'd)		
- Plastic calibration foil	Calibration for thickness in accordance with in-house method CAL-ELCO-FOILS over the following ranges :	
	12.5 µm to 50 µm	3.0 µm
	above 50 µm to 1000 µm	3.4 µm
	above 1000 µm to 1500 µm	3.9 µm
- Steel measuring tape	Calibration for length in accordance with in-house method CAL-MTAPE over the following range :	
	0.1 m to 150 m	0.3 mm per 5 m

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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*
Mass and related measurements		
- Force measurements		
- Compression testing machine	On-site calibration for compressive force using Grade 0.5 / Grade 1.0 load cells and verification for grade in accordance with BS 1610: Part 1: 1985 (Amd. 6175); or BS 1610: Part 1: 1992 (constant true force method or indicated force method for above two standards) over the following range : 0.05 kN to 3000 kN	0.04 % to 1.2 % of reading
	On-site calibration for compressive force using Class 0.5/ Class 1 load cells and verification for class in accordance with BS EN ISO 7500-1: 2018; or ISO 7500-1: 2018 (constant true force method or indicated force method for the above two standards) over the following range : 0.05 kN to 3000 kN	0.04 % to 1.2 % of reading
- Concrete testing machine	On-site calibration for compressive force using Class 0.5/ Class 1 load cells and verification for class in accordance with BS EN 12390-4: 2000 Annex B (constant true force method or indicated force method) over the following range : 0.05 kN to 3000 kN	0.04 % to 1.2 % of reading

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Mass and related measurements - Force measurements (cont'd) - Concrete testing machine (cont'd) - Force measuring device	On-site calibration for strain ratio by performing strain gauged column and proving test (stability test) in accordance with BS 1881: Part 115: 1986 (Amd. 6536) App. A; CS 1: 1990: Vol. 2 App. D; BS EN 12390-4: 2000 Annex A & Table 3; or CS 1: 2010: Vol. 2 App. D over the following range of compressive force: 200 kN to 2000 kN Calibration for compressive force in accordance with GEOSPEC 3: 2001 App. A Cl. A.3.1 over the following ranges : 0.05 kN to 1 kN above 1 kN to 20 kN above 20 kN to 100 kN Calibration for compressive force in accordance with in-house method CAL-FMD over the following ranges : 0.05 kN to 0.15 kN above 0.15 kN to 0.45 kN above 0.45 kN to 100 kN above 100 kN to 14000 kN	0.03 strain ratio 2 % to 3 % of reading 1 % of reading 0.3 % of reading 1.3 % of reading 1.0 % of reading 0.3 % of reading 0.6 % of reading

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Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Force measuring device for pile tests - load cell	Calibration for compressive force in accordance with in-house method CAL-LOAD-BSEN over the following ranges :	1.9 % of reading 1.4 % of reading 1.0 % of reading
- Force measuring device for pile tests - load cell with hydraulic jack	Calibration for compressive force in accordance with in-house method CAL-FMD+JACK over the following ranges :	1.0 % of reading 0.6 % of reading
- Force measuring device for site tests - load cell	Calibration for compressive force in accordance with in-house method CAL-LOAD-BSEN (SML) over the following ranges :	2.0 % of reading 1.5 % of reading 1.0 % of reading
- Force measuring device for site tests - load cell with hydraulic jack	Calibration for compressive force in accordance with in-house method CAL-LOAD+JACK(SML) over the following ranges :	2.0 % of reading 1.5 % of reading 1.0 % of reading

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Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Pull out tester	Calibration for pull out force in accordance with in-house method CAL-PULL-OT over the following ranges :	2 % of reading 1 % of reading 0.5 % of reading
	0.05 kN to 0.2 kN above 0.2 kN to 2 kN above 2 kN to 100 kN	
- Static uniaxial force testing machine (compression mode)	On-site calibration for compressive force using Class 0.5/ Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 2004; BS EN ISO 7500-1: 2018; or ISO 7500-1: 2018 (constant true force method or indicated force method for above three standards) over the following range :	
	0.05 kN to 3000 kN	0.04 % to 2 % of reading
- Static uniaxial force testing machine (tension mode)	On-site calibration for tension force using Class 0.5/ Class 1 load cells and verification of class in accordance with BS EN ISO 7500-1: 2004; BS EN ISO 7500-1: 2018; or ISO 7500-1: 2018 (constant true force method or indicated force method for above three standards) over the following range :	
	0.2 kN to 2000 kN	0.3 % of reading

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Mass and related measurements (cont'd)		
- Force measurements (cont'd)		
- Universal testing machine (compression mode)	On-site calibration for compressive force using Grade 0.5 / Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1985 (Amd. 6175); or BS 1610: Part 1: 1992 (constant true force method or indicated force method for above two standards) over the following range :	0.04 % to 1.2 % of reading
- Universal testing machine (tension mode)	On-site calibration for tension force using Grade 0.5/Grade 1.0 load cells and verification of grade in accordance with BS 1610: Part 1: 1985 (Amd. 6175) (constant true force method or indicated force method) over the following range :	0.3 % of reading

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- Hardness measurements		
- Hardness testing machine (Brinell hardness)	On-site indirect calibration for Brinell hardness scales in accordance with BS EN ISO 6506- 2: 1999 Cl. 5 and Annex A; BS EN ISO 6506-2: 2005 Cl. 5; at the following specific values :	
	HB 187.5	1.6 % of reading
	HB 250	1.2 % of reading
	HB 750	1.2 % of reading
	HB 1000	1.4 % of reading
	HB 3000	1.2 % of reading
- Hardness testing machine (Rockwell hardness)	On-site indirect calibration for Rockwell hardness scales in accordance with BS EN ISO 6508-2: 1999 Cl. 5; BS EN ISO 6508-2: 2005 Cl. 5; OR at the following ranges :	
	55 HRA to 83 HRA	0.8 HRA
	40 HRB to 94 HRB	1.2 HRB
	26 HRC to 63 HRC	0.7 HRC
- Hardness testing machine (Vickers hardness)	On-site indirect calibration for Vickers hardness scales in accordance with BS EN ISO 6507-2: 1998 Cl. 5 and Annex A; BS EN ISO 6507-2: 2005 Cl. 5; at the following ranges :	
	223 HV 5 to 761 HV 5	2.1 % of reading
	187 HV 10 to 733 HV 10	2.2 % of reading
	166 HV 30 to 763 HV 30	2.1 % of reading

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Mass and related measurements (cont'd)		
Mass measurements		
- Balance	Calibration for mass in accordance with in-house method CAL-BAL-NMI using OIML Class F1 weights from 1 mg to 100 kg over the following range : 1 mg to 100 kg	0.6 mg to 1.1 g
	On-site calibration for mass in accordance with in-house method CAL-BAL-NMI using OIML Class F1 weights from 1 mg to 100 kg over the following range : 1 mg to 100 kg	0.6 mg to 1.1 g
- Weight	Calibration for mass in accordance with in-house method CAL-WEIGHTS-NMI over the following ranges : 1 mg to 20 g above 20 g to 100 g above 100 g to 1 kg above 1 kg to 5 kg above 5 kg to 20 kg	0.06 mg to 0.1 mg 0.2 mg 1.5 mg to 2.6 mg 12 mg to 16 mg 1.1 g

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Mass and related measurements (cont'd)		
- Pressure measurements		
- Pressure gauge and pressure transducer (bourdon tube types or transducer types)	Calibration for gauge pressure in accordance with in-house method CAL-PRESSURE; or GEOSPEC 3: 2001 App. A Cl. A.3.2 using reference pressure transducer with water as pressure medium over the following range :	0.2 % FS
	20 kPa to 1000 kPa	
- Bourdon tube pressure gauge	Calibration for gauge pressure in accordance with BS 1780: 1985 Cl. 7; or BS EN 837-1: 1998 Cl. 10.2 using dead-weight tester with nitrogen gas as pressure medium over the following ranges :	0.3 % FS
	20 kPa to 1000 kPa	0.3 % FS
	above 1000 kPa to 3500 kPa	
	Calibration of gauge pressure in accordance with BS 1780: 1985 Cl. 7; or BS EN 837-1: 1998 Cl. 10.2 using reference pressure transducer with water as pressure medium over the following range :	0.2 % FS
	20 kPa to 1000 kPa	

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Mass and related measurements (cont'd) - Pressure measurements (cont'd) - Pressure transducer	Calibration of gauge pressure in accordance with in-house method CAL-PRESSURE-1780 using dead-weight tester with nitrogen gas as pressure medium over the following ranges : 20 kPa to 1000 kPa above 1000 kPa to 3500 kPa Calibration of gauge pressure in accordance with in-house method CAL-PRESSURE-1780 using reference pressure transducer with water as pressure medium over the following range : 20 kPa to 1000 kPa	0.3 % FS 0.3 % FS 0.2 % FS
- Vacuum pressure gauge	Calibration of pressure in accordance with in-house method CAL-VAC over the following range : 0 kPa to to 101 kPa	1.1 kPa

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Mass and related measurements (cont'd)		
- Volume measurements		
- Volume change measuring device (burette type or transducer type)	Calibration for volume change in accordance with in-house method CAL-VOL-CHG; or GEOSPEC 3: 2001 App. A Cl. A.3.3 over the following range :	0.2 ml
- Volumetric glassware	Calibration for contained capacity with temperature corrections specified in BS 1797: 1987 in accordance with in-house method CAL-MEACON-VOL over the following range :	0.14 ml to 7 ml

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Temperature and humidity measurements - Temperature measurements - Dial thermometer	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges : -15 °C to 100 °C above 100 °C to 200 °C above 200 °C to 320 °C Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges : 8 °C to 85 °C	0.7 °C 3.0 °C 6.1 °C 0.6 °C
- Digital thermometer	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges : -15 °C to 100 °C above 100 °C to 200 °C above 200 °C to 320 °C Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges : 8 °C to 85 °C	0.3 °C 0.7 °C 2.0 °C 0.15 °C

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Temperature and humidity measurements (cont'd) - Temperature measurements (cont'd) - Liquid in glass thermometer (LIGT)	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges : -15 °C to 100 °C above 100 °C to 200 °C Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges : 8 °C to 85 °C	0.32 °C 0.72 °C 0.16 °C
- Digital thermometer with PRT sensor	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges : -15 °C to 100 °C above 100 °C to 200 °C above 200 °C to 320 °C	0.3 °C 0.7 °C 2.0 °C

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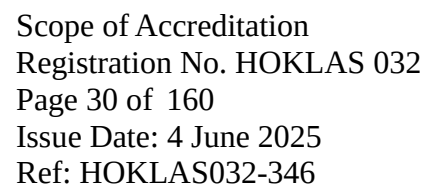
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Temperature and humidity measurements (cont'd)		
- Temperature measurements (cont'd)		
- Temperature recorder with sensors	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	-15 °C to 100 °C	0.4 °C
	above 100 °C to 200 °C	0.8 °C
	Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	8 °C to 85 °C	0.32 °C
- Digital thermometer with thermocouple sensor	Calibration for temperature using dry well calibrator as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	-15 °C to 100 °C	0.32 °C
	above 100 °C to 200 °C	0.70 °C
	above 200 °C to 320 °C	2.0 °C
	Calibration for temperature using water bath as the medium in accordance with in-house method CAL-THERMOMETER over the following ranges :	
	8 °C to 85 °C	0.24 °C

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Temperature and humidity measurements (cont'd) - Humidity measurements - Hygrometer / psychrometer	Calibration of humidity and temperature using conditioned chamber in accordance with in-house method CAL-THER-HYGRO over the following ranges : 30 % RH to 95 % RH 23 ± 2 °C	4.4 % RH 1.0 °C
- Conditioning chamber	On-site calibration of humidity and temperature in accordance with in-house method CAL-WKN-CHAMBER over the following range : 30 % RH to 95 % RH 23 ± 2 °C	3.6% RH 0.8 °C

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Construction Materials 建築材料		
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
Adhesive	Pull-off test of repair mortar	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.15 Method 1
	Pull-off test of tiles	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 7.11 In-house method PULL.TILE
	Pull-off test of concrete	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.1.3
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 + Amd. 1/2013 Section 10 (by sieve analysis)
	Flakiness index	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
	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. 9195 & 10379 CS3: 2013 Section 17
	Moisture content	BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18 (by oven drying method)

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Aggregates (cont'd)	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 + Amd. 1/2016 Section 22
	Alkali silica reaction potential by ultra-accelerated mortar-bar test	ASTM C1260-94 CS1: 2010 + Amd. 1/2013 Section 22 RILEM TC 106-2: 2000
	Aggregate crushing value	BS 812: Part 110: 1990
	Bulk density, voids and bulking	BS 812: Part 2: 1995
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 & 6587 (by decantation method)
	Compacting fraction value of aggregates for granular bed	General Specification for Civil Engineering Works (2006) Vol. 1 App. 5.2
	Foreign material content in recycled aggregates	Building Research Establishment Digest 433 (Nov 1998)
	Resistance to degradation of small size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C131-81 with modification ASTM C131-96 with modification
	Resistance to degradation of large size coarse aggregate by abrasion and impact in the Los Angeles Machine	ASTM C535-81 with modification ASTM C535-96 with modification
	Shell content in coarse aggregates	BS 812: Part 106: 1985

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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 with modification ASTM D6752/D6752M-18 with modification
	Bulk specific gravity and density of non-absorptive compacted bituminous mixtures	ASTM D2726-96a ASTM D2726/D2726M-14 with modification
	Mechanical size analysis of extracted aggregate	ASTM D5444-15 with modification
	Percent air voids in compacted dense bituminous paving mixtures	ASTM D3203-94 ASTM D3203-11 ASTM D3203/D3203M-17
	Polymer modified binder content of bituminous paving materials by combination of both centrifuge and ignition method	ASTM D2172-95 Method A & ASTM D6307-98 ASTM D2172-95 Method A & ASTM D6307-05 ASTM D2172/D2172M-17 Method A & ASTM D6307-16 Particular Specification for Highways Department Guidance Notes on Road Surface Requirements for Expressways and High Speed Roads RD/GD/032 (Jun 2007) App. B
	Quantitative extraction of bitumen from bituminous paving mixtures	ASTM D2172-95 (Method A using ashing method) with modifications ASTM D2172/D2172M-17 (Method A using ashing method) with modifications
	Sieve analysis of fine and coarse aggregates and materials finer than 75 micron sieve in mineral aggregates by washing	ASTM C117-95 ASTM C117-13 ASTM C136-96a with modifications ASTM C136/C136M-14 with modifications
	Theoretical maximum specific gravity and density of bituminous paving mixtures	ASTM D2041-95 (Weighing in water method using type A container) with modifications ASTM D2041/D2041M-11 (Weighing in water method) with modifications

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Bituminous materials (cont'd)	Thickness or height of compacted asphalt mixture specimens	ASTM D3549-93a excluding Cl. 6.2 & 6.3 ASTM D3549/D3549M-17 excluding Cl. 7.3 & 7.4
	Viscosity of asphalt binder using rotational viscometer	AASHTO T316-06 with modification AASHTO T316-13 (2017) with modification
Blocks & Bricks	Bending strength and breaking load of concrete paving flags	BS EN 1339: 2003 Annex F
	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
	Compressive strength of interlocking blocks	Hong Kong Housing Authority Specification (2022) EXT3.T110.9 - T160.9
	Compressive strength of masonry units	BS EN 772-1: 2011 + A1: 2015 excluding Cl. 7.3.4
	Compressive strength of precast concrete masonry units	BS 6073: Part 1: 1981 App. B
	Compressive strength of precast concrete paving blocks	BS 6717: Part 1: 1993 Annex B
	Compressive strength of clay bricks	BS 3921: 1985 App. D
	Dimensions of clay bricks	BS 3921: 1985 App. A
	Dimensions of clay pavers	BS EN 1344: 2002 Annex B
	Dimensions of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. A & C
	Dimensions of concrete masonry units	BS 6073: Part 1: 1981 App. A BS EN 772-16: 2011
	Dimensions of concrete paving blocks	BS 6717: 2001 Annex B
	Dimension of masonry units	BS EN 772-16: 2011

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Blocks & Bricks (cont'd)	Net and gross dry density of masonry units	BS EN 772-13: 2000
	Skid resistance value of clay and calcium silicate pavers	BS 6677: Part 1: 1986 App. E
	Skid resistance test of clay and calcium silicate pavers	ASTM E303-93 (Reapproved 1998)
	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
	Transverse strength of precast concrete masonry units	BS 6073: Part 1: 1981 App. C
	Unpolished slip/skid resistance value of clay pavers	BS EN 1344: 2002 Annex F
	Water absorption of masonry units, segmental pavers and flags	AS/NZS 4456.14: 1997 AS/NZS 4456.14: 2003
	Water absorption of concrete flags, kerbs, channels and edgings	BS 7263: Part 1: 1994 Annex C
	Water absorption of clay bricks	BS 3921: 1985 App. E
	Water absorption of aggregate concrete, autoclaved aerated concrete, manufactured stone and natural stone masonry units due to capillary action and the initial rate of water absorption of clay masonry units	BS EN 772-11: 2011

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Cement & Portland pulverised fuel ash cement (PPFAC)	Sampling	BS EN 196-7: 2007
	Compressive strength of broken mortar prisms in the force range 4 kN - 250 kN	BS EN 196-1: 2005 BS EN 196-1: 2016
	Density	BS EN 196-6: 2010 Annex NC BS EN 196-6: 2018 Annex NC
	Fineness	BS EN 196-6: 2010 (by Blaine method) BS EN 196-6: 2018 (by Blaine method)
	Flexural strength of mortar prisms	BS EN 196-1: 2005 BS EN 196-1: 2016
	Setting times	ASTM C191-92 BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016
	Soundness	BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016
	Standard consistence	BS EN 196-3: 2005 + A1: 2008 BS EN 196-3: 2016
Cement stabilised soil	Unconfined compressive strength of cement stabilised soil cores (with or without capping)	Interim Guidelines on Testing of Unconfined Compressive Strength of Cement Stabilised Soil Cores in Hong Kong (Oct 2017) App. B published by Geotechnical Division of The Hong Kong Institution of Engineers

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Coating	Dry-film coating thickness by wedge cut method	ASTM D4138-07a (Reapproved 2022) Procedure A BS EN 2808: 2019 Method 6B
	Coating thickness by magnetic method	BS EN ISO 2178: 1995
	Pull-off test of coating	In-house Method PULL.COAT In-house Method PULL-COAT-SQ&REC ASTM D4541-02 Test Method C & Method E ASTM D4541-17 Test Method C & Method E ASTM D7234-19 BS 3900-E10: 2003 Cl. 9.4.2 BS EN ISO 4624: 2003 Cl. 9.4.2
	Mass per unit area of hot dip galvanized coating by gravimetric method	BS 729: 1971 App. A BS 2989: 1991 App. A BS EN 10346: 2015 Annex A BS EN ISO 1460: 1995 BS EN ISO 1460: 2020 in conjunction with following specification(s): BS 2989: 1991 Cl. 3.3 BS EN 10346: 201 5 Cl. 8.5.5.1

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Concrete	Sampling fresh concrete on site	CS1: 2010 + Amd. 1/2017 Section 1
	Slump of fresh concrete	CS1: 2010 + Amd. 1/2017 Section 2 Part I
	Compacting 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 + Amd. 1/2013 Section 3
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Air content of fresh concrete	CS1: 2010 Section 6
	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 + Amd. 1/2013 Section 9
	Curing of test specimens	CS1: 2010 Section 10
	Mixing and sampling of fresh concrete	CS1: 2010 Section 11
	Compressive strength of concrete cubes in the force range 10 kN - 3000 kN	CS1: 2010 + Amd. 1/2013 Section 12
	Tensile splitting strength of cylindrical specimens	CS1: 2010 + Amd. 1/2013 Section 13
	Flexural strength of concrete test beams	CS1: 2010 Section 14
	Obtaining core samples	CS1: 2010 + Amd. 1/2013 Section 15
	Compressive strength of concrete cores in the force range 10 kN - 3000 kN	CS1: 2010 + Amd. 1/2013 Section 15
	Density of hardened concrete	CS1: 2010 Section 16
	Depth of penetration of water under pressure	CS1: 2010 Section 18

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Concrete (cont'd)	Concrete's ability to resist chloride ion penetration	AASHTO T277-07 ASTM C1202-05 ASTM C1202-07 CS1: 2010 Section 19
	Assessment of the cement, aggregates and water contents of fresh concrete	DD 83: 1983 Sections 2 & 3(Pressure filter Sandberg method)
	Bleeding test	ASTM C232/C232M-21
	Estimating concrete strength by the maturity method	ASTM C1074-19e1 Cl. 6, 7, 8.2, 8.5 -8.6, 8.8, 9.1-9.4
	Flexural toughness and first-crack strength of fiber-reinforced concrete	ASTM C1018-94b ASTM C1018-97
	Temperature measurement of the fresh concrete	BS 5328: Part 4: 1990 Cl. 3.4(b) in conjunction with the following specification: BS EN 206: 2013 + A2: 2021 Cl. 5.2.9
	Temperature monitoring of fresh concrete	In-house method SITE-CON-TEMP In-house method (HY-MON)
	Water absorption	BS 1881: Part 122: 2011
	Monitoring of setting time of fresh concrete	Hong Kong Housing Authority Materials Testing Services (2022/2024) for Construction Materials Specification Part D Cl. 1.3.9
	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.2.1
	Reinforcement survey	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.3.13
	Crack survey	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 4.3.14



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Concrete (cont'd)	Dry cutting of mini-cores	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 6.2
	Cutting of stitch cores	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 6.3
	Obtaining drilling powder samples	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 6.4
	Suitability of water for making concrete (strength and setting time)	BS EN 196-1: 1995 BS EN 196-3: 1995 in conjunction with the following specification: BS EN 1008: 2002 Cl. 4.4

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Concrete (diagnostic)	Carbonation accelerating test	GB/T 50082-2009 Cl. 11 with modification
	Carbonation test	BS EN 14630: 2006 Building Research Establishment Information Paper IP 6/81 Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 (Method 2)
	Covermeter survey	BS 1881: Part 204: 1988
	Half-cell potential measurement	ASTM C876-91 (Method A and B for Pre-Wetting) ASTM C876-09 (Method A and B for Pre-Wetting) ASTM C876-15
	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 Issue 2 (2022) + Amd. 1/2024
	Infrared thermography survey for detection of thermal anomalies of exposed water-proof membranes/coatings	Hong Kong Concrete Institute TM4 Issue 1 (2024)
	Resistivity measurement	BS 1881: Part 201: 1986 Cl. 2.3
	Spark test for basement waterproofing	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance & Building Materials Specification Part D Cl. 10.6
	Surface hardness measurement	BS 1881: Part 202: 1986 BS EN 12504-2: 2012 BS EN 12504-2: 2021
	Surface penetration radar survey for determination of concrete cover and distribution of steel reinforcement	Hong Kong Concrete Institute TM2 Issue 1 (2009)
	Ultrasonic pulse velocity measurement (direct & semi-direct transmissions)	ASTM C597-16 BS 1881: 203: 1986 BS EN 12504-4: 2004 BS EN 12504-4: 2021

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Dimension stones	Absorption and bulk specific gravity	ASTM C97-18
	Compressive strength	ASTM C170-24a
	Flexural strength	ASTM C880-24
	Modulus of rupture	ASTM C99-24
	Strength of individual stone anchorages	ASTM C1354-22
Doors	Dimensional accuracy and squareness of door leaves	BS 5278: 1976 in conjunction with the following specification: Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(f) Test No. 1 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(f) Test No. 1
	General flatness and evenness of door leaves	BS 5277: 1976 in conjunction with the following specification: Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(g) Test No. 2 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(g) Test No. 2
	Behaviour under humidity variations of door leaves	BS 5369: 1987 (BS EN 43) in conjunction with the following specification: Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(h) Test No. 3 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(h) Test No. 3
	Resistance to impact (hard body) of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(i) Test No. 4 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(i) Test No. 4
	Resistance to torsion of door leaves	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(j) Test No. 5 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(j) Test No. 5
	Strength in the plane of the door leaves	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(k) Test No. 6 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(k) Test No. 6

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Doors (cont'd)	Slamming open of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(l) Test No. 7 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(l) Test No. 7
	Slamming close of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(m) Test No. 8 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(m) Test No. 8
	Resistance to jarring and vibration of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(n) Test No. 9 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(n) Test No. 9
	Resistance to impact (heavy body) of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(o) Test No. 10 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(o) Test No. 10
	Resistance to closing against an obstruction of doorsets	Hong Kong Housing Authority Specification Library (2018) COM5.M040.A(2)(p) Test No. 11 Hong Kong Housing Authority Specification Library (2022) COM5.M040.9(2)(p) Test No. 11

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Doors (cont'd)		
- Ironmongery		
- Lever Handle Furniture and Locks	Strength of return mechanism	BS 4951: 1973 App. B.2
	Strength of Furniture and methods of fixing	BS 4951: 1973 App. B.3
	Durability of mechanism	BS 4951: 1973 App. B.4
	Repeat of strength of furniture and methods of fixing	BS 4951: 1973 App. B.5
	Repeat of strength of retune mechanism	BS 4951: 1973 App. B.6
	Freedom of operation of follower, knob and spring bolt action in rim and mortice locks and latches	BS 5872: 1980 A.2
	Strength of bolt spring	BS 5872: 1980 A.6
	Strength of follower or cam, knob, spring bolt and stopping medium in rim and mortice locks and Latches	BS 5872: 1980 A.7
	Dead bolt against end pressure	BS 5872: 1980 A.13
	Operation of security mechanism	BS 5872: 1980 A.14
	Strength of keys	BS 5872: 1980 A.15
	Spring bolt through follower or knob	BS 5872: 1980 A.16
	Spring bolt through striking plate or staple	BS 5872: 1980 A.17
	Strength of lock or latch case, forend and bolt	BS 5872: 1980 A.19
	Strength of striking plate	BS 5872: 1980 A.21

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Door closers	Mechanical performance and durability test of overhead door closers – Test Sample B : - Set test door to required mass for strength of closer on tester - Open door to determine maximum opening angle - Cycle opening to 90° and allowing to close to 0°, in a time of 3 to 7 seconds, 5000 times - Measure torques and calculate efficiency over region 0° to 4° - Measure closing time - Closing overload test of closer on tester - All closers cycle for a total of 500,000 cycles. Measuring closing time - Calculate efficiency over region 0° to 4° after 500,000 cycles - Measure closing time after 500,000 cycles - Closing overload test after 500,000 cycles Corrosion resistance test of overhead door closer – Test Sample C : - Set test door to required mass for strength of closer on test - Measure opening and closing torque - Expose to neutral salt spray - Measure closing moment after NSS Test	BS EN 1154: 1997 Cl. 7.3.1 para. 1 BS EN 1154: 1997 Cl. 7.3.1 para. 2 & Cl. 5.2.7 BS EN 1154: 1997 Cl. 7.3.3.1 BS EN 1154: 1997 Cl. 7.3.4.1, 7.3.4.2 & Cl. 5.2.3 to 5.2.5 BS EN 1154: 1997 Cl. 7.3.4.3 & Cl. 5.2.6 BS EN 1154: 1997 Cl. 7.3.4.4 & 5.2.8 BS EN 1154: 1997 Cl. 7.3.5.1 & 7.3.6.1 BS EN 1154: 1997 Cl. 7.3.6.2, 7.3.4.1, 7.3.4.2 & Cl. 5.2.3 to 5.2.5 BS EN 1154: 1997 Cl. 7.3.6.3 BS EN 1154: 1997 Cl. 7.3.6.4, 7.3.4.4 & 5.2.8 BS EN 1154: 1997 Cl. 7.4.1 BS EN 1154: 1997 Cl. 7.4.2 BS EN 1154: 1997 Cl. 7.4.3 BS EN 1154: 1997 Cl. 7.4.4, 7.4.2 & 5.2.17

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Fibre reinforced polymers (FRP)	Longitudinal tensile strength of FRP bars for reinforcing or strengthening concrete structures	ACI 440.3R-04 Cl. B1 & B2 ACI 440.3R-12 Cl. B1 & B2
	Transverse shear strength of FRP bars for reinforcing or strengthening concrete structures	ACI 440.3R-04 Cl. B1 & B4 ACI 440.3R-12 Cl. B1 & B4
Fire (other)	Non-combustibility test for building materials	BS 476 Part 4: 1970 + Amd. 2483 and 4390
	Rate of burning and/or extent and time of burning of plastics in a horizontal position	ASTM D635-06
Foundation	Borehole video inspection test	Hong Kong Housing Authority Materials Testing Services (2024/2026) for Non-destructive Pile Testing Cl. D8 & D10
	Compression static loading tests on pile (SLT)	Architectural Services Department General Specification for Building (2017) Section 5.29 Architectural Services Department General Specification for Building (2022) Section 5.29 Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 General Specification for Civil Engineering Works (2020) Vol. 1 App. 8.1 Hong Kong Housing Authority Specification Library (2018) PIL1.T610.8 to PIL1.T1110.8 Hong Kong Housing Authority Specification Library (2022) PIL1.T610.9 to PIL1.T1110.9
	Crosshole sonic logging test (SOLT)	ASTM D6760-16
	Pile dynamic test (PDA)	ASTM D4945-17
	Pile integrity test (PIT)	ASTM D5882-16
	Plate load test (PLT)	BS 1377: Part 9: 1990 Cl. 4.1 (incremental loading) excluding Cl. 4.1.6.1 Buildings Department Code of Practice for Foundations (Apr 2017) Cl. 8.2(2) excluding 8.2(2)(f) to (h) Hong Kong Housing Authority Specification Library (2018) GIN.T190.8 Hong Kong Housing Authority Specification Library (2022) GIN.T190.9

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Foundation (cont'd)	Single-hole sonic logging test (SOLT)	ASTM D6760-16
	Tension static loading tests on pile (SLT)	Architectural Services Department, Technical Instruction No. 4/2005: Particular Specification for Tension Piles Buildings Department Code of Practice for Foundations (2017) Cl. 8.10
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)
Foundation (Geotechnical monitoring)	Vibration monitoring	Guidance Note No. GN 10 Vibration Monitoring – Mines Division, Geotechnical Engineering Office, Civil Engineering and Development Department Cl. 5 to Cl. 9
Gatesets	Operation test	Hong Kong Housing Authority Specification Library (2018) COM7.M010.A(2)(d) Hong Kong Housing Authority Specification Library (2022) COM7.M010.9(2)(d)
	Slamming closed test	Hong Kong Housing Authority Specification Library (2018) COM7.M010.A(2)(e) Hong Kong Housing Authority Specification Library (2022) COM7.M010.9(2)(e)
	Heavy body impact test	Hong Kong Housing Authority Specification Library (2018) COM7.M010.A(2)(g) Hong Kong Housing Authority Specification Library (2022) COM7.M010.9(2)(g)
	Endurance performance test	Hong Kong Housing Authority Specification Library (2018) COM7.M010.A(2)(m) Hong Kong Housing Authority Specification Library (2022) COM7.M010.9(2)(m)
Glass	Impact test of glass	BS 6206: 1981 + Amd. 4580, 5189, 7589 & 8693

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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
	Density	BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.5g
	Fineness	BS EN 196-6: 2010 (Blaine method) in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.1
	Initial setting time	BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2
	Standard consistence	BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification: BS EN 15167-1: 2006 Cl. 5.3.2.2

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香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
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Grout	Bleeding and free expansion	Hong Kong Housing Authority Specification Library (2018) PIL1.T320.8 Hong Kong Housing Authority Specification Library (2022) PIL1.T320.9 General Specification for Building (2017) Section 5.21 General Specification for Building (2022) Section 5.21 General Specification for Civil Engineering Works (2006) Vol.2 Cl. 17.60
	Bleeding and volume change by wick-induced test	BS EN 445: 2007 Cl. 4.5 General Specification for Civil Engineering Works (2006) Section 17.60 + Amd. 1/2013 General Specification for Civil Engineering Works (2020) Section 17.60
	Changes in height	ASTM C1090-96 ASTM C1090-15
	Compressive strength of grout cubes in the force range 10 kN – 3000 kN	CS1: 2010 + Amd. 1/2013 Section 12
	Early change in height	ASTM C827-95a (Reapproved 1997) ASTM C827-16
	Expansion and bleeding of freshly mixed grout for preplace-aggregate concrete	ASTM C940-98a ASTM C940-98a/16 with modification
	Flow of grout for preplaced-aggregate concrete by flow cone method	ASTM C939-10 ASTM C939/939M-16a
	Fluidity test by cone method	BS EN 445: 2007 Cl. 4.3.1 General Specification for Civil Engineering Works (2006) Section 17.66 + Amd. 1/2013 General Specification for Civil Engineering Works (2020) Section 17.66
	Setting time	ASTM C953-87 (Reapproved 1997) ASTM C953-17
	Recovery value, reduction in mass, extrusion	Hong Kong Housing Authority Specification Library (2018) EXT2.T620.8 to EXT2.T680.8 Hong Kong Housing Authority Specification Library (2022) EXT2.T620.9 to EXT2.T680.9
Joint filler		

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香港新界粉嶺安樂村安全街 29 號 A

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Manhole covers / steps	Bending test of manhole steps	BS 1247: Part 1: 1990 App. A
	Dimension measurement of manhole steps	BS 1247: Part 1: 1990 Cl. 3
	Loading test for manhole covers, road gully gratings and frames for drainage purpose	BS 497: Part 1: 1976 Cl. 7 & 14
	Loading test of manhole covers and gully gratings	BS EN 124: 1994 + Amd. 8587 Cl. 8 BS EN 124-1: 2015 Cl. 8
	Mass determination and loading test of manhole covers, gully gratings and kerb overflow weirs	Hong Kong Housing Authority Specification Library (2018) DRA2.T430.8 to DRA2.T490.8 Hong Kong Housing Authority Specification Library (2022) DRA2.T430.9 to DRA2.T490.9
	Mass determination and resistance to fracture of manhole covers, gully gratings and kerb overflow weirs	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 5.95 & App. 5.3 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 5.95 & App. 5.3
	Pull-out test of manhole steps	BS 1247: Part 1: 1990 App. B
	Pull-out test of steps for underground man entry chambers	BS EN 13101: 2002 Annex D in conjunction with the following specification: BS EN 13101: 2002 Cl. 4.3.9
	Twist test of manhole steps	BS 1247: Part 1: 1990 Cl. 7.1
	Twist test of steps for underground man entry chambers	BS EN 13101: 2002 Annex A in conjunction with the following specification: BS EN 13101: 2002 Cl. 4.3.6
	Vertical loading test of steps for underground man entry chambers	BS EN 13101: 2002 Annex B in conjunction with the following specification: BS EN 13101: 2002 Cl. 4.3.7

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香港新界粉嶺安樂村安全街 29 號 A

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Metallic materials	Bend test of carbon steel bars	BS 4449: 1988 Cl. 10.2 CS2: 1995 Cl. 6.1 & 6.3
	Bend test of stainless steel bars	BS 6744: 2001 + A2: 2009 Annex E (excluding cold worked stainless steel bars)
	Bond property of steel reinforcing bars by surface geometry measurement	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 10, 11.2 & 11.3 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2 in conjunction with following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.4 & 9 BS 4482: 2005 Cl. 7.4.2 & 9
	Brinell hardness test of metallic materials in the scale of HBW 95.5 / 653	BS EN ISO 6506: Part 1: 1999 BS EN ISO 6506: Part 1: 2014
	Charpy V-notch and/or U-notch impact test	BS EN 10045-1: 1990 BS EN ISO 148-1: 2016 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
	Effective cross-sectional area and mass per meter of stainless steel bars	BS 6744: 2001 + A2: 2009 Cl. 6.1 (excluding cold worked stainless steel bars)
	Mass per metre of cold reduced steel wires	BS 4482: 1985 Cl. 9 & App. A BS EN ISO 15630-1: 2002 Cl. 12 in conjunction with the following specification: BS 4482: 2005 Cl. 7.3 & 9
	Mass per meter of steel reinforcing bars	BS EN ISO 15630-1: 2002 + Corr. 1 Cl. 12 CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2 in conjunction with the following specification(s) BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.3 & 9

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
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Metallic materials (cont'd)	Pitch and mass per meter square of steel fabric for reinforcement of concrete	BS 4483: 1998 Cl. 6 & 10 BS 4483: 2005 Cl. 7.3 & General Specification for Civil Engineering Works (2020) + Amd. 1/2025 Vol. 2 Section 15
	Performance test of tension bonded epoxy coated carbon steel bars	BS 7295: Part 1: 1990 Cl. 4 + Amd. 6955 with modifications
	Proof load test of stainless steel nuts in the force range 5 kN – 3000 kN	BS 6105: 1981 Cl. 6.6, Table 3 & 4
	Proof load test of steel nuts in the force range 5 kN – 3000 kN	BS 3692: 2001 Annex C.1 BS 3692: 2014 Annex C.1 BS 4190: 2014 Annex A.1 BS EN 20898-2: 1994 Cl. 5-7 & 8.1 BS EN ISO 898-2: 2022 Cl. 9.1 ISO 898-2: 1992 Cl. 5-7 & 8.1
	Rebend test of carbon steel bars	BS 4449: 1988 Cl. 10.3 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 + Corr. 1 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 & 9 BS 4482: 1985 Cl. 12.2 & App. C.5 with modifications BS 4482: 2005 Cl. 7.2.4 & 9 BS 4483: 1998 Cl. 13.1 BS 4483: 2005 Cl. 7.2.5, 8.1.3.2 & 9
	Rockwell hardness test in the scale range HRA to HRC	BS EN ISO 6508-1: 1999 BS EN ISO 6508-1: 2023
	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 10 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 Oct 2020) Cl. 4.3 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)

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

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Metallic materials (cont'd)	Surface geometry of stainless steel bars	BS 6744: 2001 + A2: 2009 Cl. 10 & Annex C (excluding cold worked stainless steel bars)
	Tensile test of carbon steel bars in the force range 5 kN – 3000 kN	CS2: 1995 Cl. 6.1 & 6.2 BS 4449: 1988 Cl. 10.1
	Tensile test of high tensile 7-wire strands in the force range 5 kN – 3000 kN	BS 18-2: 1971 BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Method A & Method B & BS EN ISO 15630-3: 2019 Cl. 5 in conjunction with the following specification(s): BS 5896: 1980 App. A BS 5896: 2012 Cl. 7.2.2
	Tensile test of metallic materials in the force range 5 kN – 3000 kN	BS 18: 1987 BS EN 10002-1 : 1990 BS EN 10002-1 : 2001 BS EN ISO 6892-1: 2009 Cl. 10.3 & 10.4 Method A & Method B BS EN ISO 6892-1: 2016 Cl. 10.3.2 & 10.3.3 Method A & Method B BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Method A & Method B in conjunction with the following specification(s): BS 1452: 1990 Cl. 4 BS 4360: 1986 Cl. 23 BS 4360: 1990 Cl. 23 BS 4486: 1980 Cl. 9.1.6 BS 6744: 2001 + A2: 2009 (excluding cold worked stainless steel bars) 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: 2006 Cl. 6.6.1, 9.2.1 & 9.2.2 BS EN 10219-1: 2006 Cl. 6.7.1, 9.2.1 & 9.2.2 BS EN 1561: 1997 Cl. 9.1 & Table 1 & 2

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佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

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Metallic materials (cont'd)	Tensile test of reinforcing bars, wire rods, welded fabrics or cold reduced wires for reinforcement of concrete in the force range 0.2 kN – 3000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.3 & 10.4 Method A & Method B BS EN ISO 6892-1: 2016 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B in conjunction with the following specification(s): BS 4449: 1997 Cl. 11.1 & 11.2 (up to 16 mm dia.) 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 4482: 2005 Cl. 8.1.3.1 & 9 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
	Tensile test & slip/permanent elongation test of mechanical couplers for reinforcing bar in the force range 5 kN – 3000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): 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
	Tensile test of unmachined (finished) bolts, screws and studs in the force range 5 kN – 3000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B in conjunction with the following specification(s): BS EN ISO 898-1: 2013 Cl. 9.2
	Tensile test of machined bolts, screws and studs in the force range 5 kN – 3000 kN	BS EN ISO 6892-1: 2019 Cl. 10.3.2 & 10.3.3 Methods A1, A2 & Method B in conjunction with the following specification(s): BS EN ISO 898-1: 2013 Cl. 9.7

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

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Metallic materials (cont'd)	Vickers hardness test of metallic materials in scale range HV5, HV10 and HV30	BS 427: 1990 BS EN ISO 6507: Part 1: 1998 BS EN ISO 6507: Part 1: 2023
	Weld shear force test of steel fabrics for reinforcement of concrete	BS EN ISO 15630-2: 2002 Cl. 7 ISO 10287: 1992 in conjunction with the following specification(s): BS 4483: 1998 Cl. 13.2 BS 4483: 2005 Cl. 7.2.2 & 7.2.4
Mortar	Dry bulk density of hardened mortar	BS EN 1015-10: 1999
	Flexural strength of hardened mortar in the force range 1 kN – 9.5 kN	BS EN 1015-11: 1999
	Compressive strength of hardened mortar in the force range 10 kN – 140 kN	BS EN 1015-11: 1999
	Adhesive strength of hardened rendering and plastering mortar on substrates	BS EN 1015-12: 2000
	Consistence retentivity and water retentivity of mortar	BS 4551: 2005
	Consistence of fresh mortar (By flow table)	BS EN 1015-3: 1999
	Air content of fresh mortar	BS EN 1015-7: 1999 (Method A)
	Workable life and correction time of fresh mortar	BS EN 1015-9: 1999 (Method A)

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佳力高試驗中心有限公司

29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

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Paint	Bend test	BS 3900: E1: 1995 BS EN ISO 1519: 2011
	Coating thickness	BS EN ISO 2808: 2007, BS 3900-C5: 2007 (Method 7C)
	Comparison of contrast ratio (Hiding power)	BS 3900-D4: 1974 BS EN ISO 2814: 2006, BS 3900-D4: 2006
	Surface drying time using ballotini	BS 3900: Part C2: 1994 BS EN ISO 9117-3: 2010
	Through dry	BS 3900: Part C3: 1990 BS EN ISO 9117-1: 2009
	Fineness of grind	BS 3900-C6: 2000 BS EN ISO 1524: 2013
	Examination and preparation of samples	BS 3900: Part A2: 1993 Cl. 4.1.2 - 4.1.6 & 5.1.2 - 5.1.6 BS EN ISO 1513: 2010 Cl. 5.1.1 - 5.1.4 & 5.1.6
	Scratch test	BS 3900: Part E2: 1992 BS EN ISO 1518-1: 2011
	Specular gloss	BS 3900: Part D5: 1997 BS EN ISO 2813: 2000 BS EN ISO 2813: 2014
	Flow time by use of flowcups	BS 3900: Part A6: 1996 BS EN ISO 2431: 2011
	Consistency (Measuring Krebs unit viscosity using a Stormer-type viscometer)	ASTM D 562-01 (Method B) ASTM D 562-10 (Method B) ASTM D 562-10 (Reapproved 2018) (Method B)
	Scrub resistance	ASTM D 2486-96 ASTM D 2486-17 (Method A) SS5: Part F5: 2003
	Accelerated weathering resistance	ASTM G53-88 ASTM G53-96 ASTM G154-12a ASTM G154-16
	Resistance to humid atmospheres containing sulphur dioxide	BS 3900: F8: 1976 BS EN ISO 3231: 1998, BS 3900: F8: 1993
	Cross-cut test	BS EN ISO 2409: 2013

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
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Paint (cont'd) - Multi-layer	Adhesion strength Change in consistency Cracking resistance due to initial stage drying Impact test Low temperature stability Permeability Repeat warming and cooling	JIS A 6910 –1988 Cl. 5.8 JIS A 6910 –1988 Cl. 5.6 JIS A 6910 –1988 Cl. 5.7 & Architectural Services Department General Specification for Building (2022) Cl. 21.93 JIS A 6910 –1988 Cl. 5.11 & Architectural Services Department General Specification for Building (2022) Cl. 21.93 JIS A 6910 –1988 Cl. 5.5 JIS A 6910 –1988 Cl. 5.10 & Architectural Services Department General Specification for Building (2022) Cl. 21.93 JIS A 6910 –1988 Cl. 5.9 (Four sides of specimens are wrapped.)

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

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Paint (cont'd)		
- Bitumen-based	Flash point	BS 3416: 1991 Cl. 5 and Cl. B.1 of App. B BS 3900: Part A13: 1986 Cl. 7.2 (Method 2)
	Drying and over-coating times	BS 3416: 1991 Cl. 6 and Cl. B.2 of App. B, App. C (with modifications) BS 3900: Part C2: 1994 Cl. 7 excluding 7.3 BS 3900: Part A3: 1997 Cl. 3
	Finish	BS 3416: 1991 Cl. 7 and Cl. B.3 of App. B, App. C (with modifications) BS 3900: Part A3: 1997 Cl. 3
	Protection against corrosion	BS 3416: 1991 Cl. 8 & App. B Cl. B4 (with modification) BS 3900: Part H2: 1983 BS 3900: Part G5: 1993 (Method 1 – procedure A) ISO 4628-2: 2003 (E)
	Bend resistance	BS 3416: 1991 Cl. 9 and Cl. B.5 of App. B, App. C (with modifications) BS 3900: Part A3: 1997 Cl. 4 BS 3900: Part E1: 1995 Cl. 6 excluding 6.2.2 & 6.3
	Shelf life	BS 3416: 1991 Cl. 11

Castco Testing Centre Ltd.

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香港新界粉嶺安樂村安全街 29 號 A

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Pipes and fittings - Cast iron pipes and fittings	Cast iron pipes and fittings, joints and accessories - test methods Crushing test of cast iron pipes & fittings Dimensions and masses measurement of cast iron spigot and socket drain pipes and fittings Dimensions measurement of discharge and ventilating pipes and fittings, sand-cast or spun in cast iron Freedom from defects and determination of depth of seal of cast iron spigot and socket drain pipes and fittings Hydrostatic test of cast iron spigot and socket drain pipes and fittings Leakage test of cast iron discharge and ventilating pipes and fittings, sand –cast or spun in cast iron	BS EN 877: 1999 + A1: 2006 <excluding the following> Cl. 4.1.3, Cl. 4.1.4, Cl. 4.6.3 & Cl. 5.7.3.3 BS EN 877: 2021 <excluding the following> Cl. 5.7.3.1, 5.7.3.2, 5.7.3.3 & 5.9.2 BS 437: 1978 App. A BS 437: 2008 Annex A10 in conjunction with the following specification(s): BS 437: 1978 Cl. 8 BS 437: 2008 Cl. 4.5 BS 437: 2008 Annex A1 to A9 In- house method PIP-DIMMAS-CIRON437 in conjunction with the following specification(s): BS 437: 1978 Cl. 5 BS 437: 2008 Cl. 4.3 & 4.4 In- house method PIP-DIM-CIRON416 in conjunction with the following specification(s): BS 416: Part 1: 1990 Cl. 4.1 & 4.2 BS 437: 1978 Cl. 4 and 6 BS 437: 1978 Cl. 7 BS 4772: 1988 App. B in conjunction with the following specification(s): BS 416: Part 1: 1990 Cl. 5

Castco Testing Centre Ltd.

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香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
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Pipes and fittings (cont'd) - Cast iron pipes and fittings (cont'd) - Ductile iron pipes and fittings	Tensile testing of grey (flake graphite) cast iron, malleable cast iron and ductile cast iron in the range 20 kN to 1000 kN	BS 1452: 1990 Cl. 4 & BS 18: 1987 BS 18: 1987 BS EN 10002-1: 1990 ISO BS EN ISO 6892-1: 2009 in conjunction with the following specification(s): BS 416: Part 1: 1990 Cl. 3 BS 437: 1978 Cl. 3 BS 1452: 1990: Cl. 4 BS EN 1561: 1997 Cl. 7.2 BS 6681: 1986 Cl. 7, 8, 9, 10, 11 & 12 ISO 185: 1988 Cl. 4 & 5
	Brinell hardness testing of ductile iron pipes and fittings	BS EN ISO 6506: Part 1: 1990 in conjunction with the following specification(s): BS 4772: 1988 Cl. 2.6 BS EN 545: 2002 Cl. 6.4 BS EN 545: 2006 Cl. 6.4 BS EN 598: 1995 Cl. 6.4 BS EN 598: 2007 + A1: 2009 Cl. 6.4
	Diametral stiffness testing of ductile iron pipes	BS EN 598: 1995 Cl. 7.2 BS EN 598: 2007 + A1: 2009 Cl. 7.3
	Hydrostatic test of ductile iron pipes and fittings	BS 4772: 1988 App. B BS EN 598: 2007 + A1: 2009 Cl. 6.5 in conjunction with the following specification(s): BS 4772: 1988 Cl. 2.2.1
	Straightness of ductile iron pipes	BS 4772: 1988 Cl. 2.9
	Surface condition, dimensions measurement and mass of ductile iron pipes and fittings	In-house method PIP-CDIMMAS-DIRON4772 in conjunction with the following specification(s): BS 4772: 1988 Cl. 2.8, 2.10 & 2.11
	Surface condition and repairs, straightness dimensions measurement of ductile iron pipe, fittings, accessories and their joints for sewage applications	In-house method PIP-SC-DIRON598, PIP-STS-DIRON598 & PIP-DIM-DIRON598 in conjunction with the following specification(s): BS EN 598: 1995 Cl. 4.1.2, 4.2.4, 6.1 & 6.2 BS EN 598: 2007 + A1: 2009 Cl. 4.1.2, 4.2.1 to 4.2.4, 6.1 & 6.2

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香港新界粉嶺安樂村安全街 29 號 A

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Pipes and fittings (cont'd) - Ductile iron pipes and fittings (cont'd)	Surface condition and repairs, straightness dimensions measurement and diametral stiffness testing of ductile iron pipes, fittings, accessories and their joints for water pipelines. Tensile test of ductile iron pipes and fittings Tensile testing of grey (flake graphite) cast iron, malleable cast iron and ductile cast iron in the range 20 kN – 1000 kN Thickness of paint coating and cement mortar lining of ductile iron pipes and fittings Works leaktightness test of ductile iron pipes and fittings	In-house method PIP-SC-DIRON545, PIP-ST-DIRON545, PIP-DIM-DIRON545, PIP-CASION-DMS, PIP-DIRON-DIM-EN545:2010 & PIP-DIRON-ST-EN545:2010 in conjunction with the following specification(s): BS EN 545: 1995 Cl. 4.1.2, 4.2.4, 6.1, 6.2 & Annex C BS EN 545: 2006 Cl. 4.1.2, 4.2.4, 6.1 & 6.2 & Annex C BS EN 545: 2010 Cl. 4.3, 6.1, 6.2, 8.3 & 8.4 Tables 1, 2, 6, 17 to 37 BS 4772: 1988 + Amd. 6270 App. D BS EN 10002-1: 1990 in conjunction with the following specification(s): BS 4772: 1988 + Amd. 6270 Cl. 2.5 BS EN 545: 1995 Cl. 6.3 Method A BS EN 545: 2006 Cl. 6.3 BS EN 10002-1: 1990 in conjunction with the following specification(s): BS EN 598: 1995 Cl. 6.3 In-house method PIP-DIRON-CT-EN545:2010 in conjunction with the following specification(s): BS EN 545: 2010 Cl. 6.7 & 6.8 BS EN 545: 1995 Cl. 6.5 BS EN 545: 2006 Cl. 6.5 BS EN 545: 2010 Cl. 6.5 BS EN 598: 1995 Cl. 6.9 & 6.10 in conjunction with the following specification(s): BS EN 545: 1995 Cl. 4.7 BS EN 545: 2006 Cl. 4.7

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Pipes and fittings (cont'd)		
- Grey iron pipes and fittings	Brinell hardness testing of grey iron pipes, fittings, accessories and their joints for sewage applications and water pipeline	BS EN ISO 6506: Part 1: 1990 in conjunction with the following specification(s): BS 4622: 1970 Cl. 14
	Dimensions measurement and mass of grey iron pipes and fittings	In-house method PIP-DIM-GI4622 in conjunction with the following specification(s): BS 4622: 1970 Cl. 10 & 11
	Hydrostatic test of grey iron pipes and fittings	BS 4622: 1970 Cl. 15.1 in conjunction with the following specification(s): BS 4622: 1970 Cl. 3.4 & 4.2
	Surface condition, straightness and uniformity of grey iron pipes and fittings	In-house method PIP-GREYION-SCI & PIP-GREYION-SU in conjunction with the following specification(s): BS 4622: 1970 Cl. 7 & 9
	Tensile test of grey iron pipes and fittings	BS 4622: 1970 + Amd. 614, 1298 & 3772 Cl. 14

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Pipes and fittings (cont'd)		
- Copper pipes and fittings	Carbon film test of copper and copper alloys plumbing fittings with ends for capillary soldering or capillary brazing to copper tubes	BS EN 1254-1 : 1998 Annex A in conjunction with the following specification(s): BS EN 1254-1 : 1998 Cl. 5.4.1
	Dimensions measurement of copper and copper alloys plumbing fittings with ends for capillary soldering or capillary brazing to copper tubes	In-house method PIP-COPPER-DIM-EN1254-1: 1998 in conjunction with the following specification(s): BS EN 1254-1: 1998 Cl. 4.3
	Dimensions measurement of copper and copper alloys plumbing fittings with compression ends for use with copper tubes	In-house method PIP-COPPER-DIM-EN1254-2: 1998 in conjunction with the following specification(s): BS EN 1254-2: 1998 Cl. 4.3
	Leaktightness test of copper and copper alloys plumbing fittings with ends for capillary soldering or capillary brazing to copper tubes	In-house method PIP-COPPER-PRE-EN1254-1: 1998 in conjunction with the following specification(s): BS EN 1254-1: 1998 Cl. 5.2
	Leaktightness test of copper and copper alloys plumbing fittings with compression ends for use with copper tubes	BS EN 1254-2: 1998 Cl. 5.4
	Resistance to pull-out of copper and copper alloys plumbing fittings with compression ends for use with copper tubes	BS EN 1254-2: 1998 Cl. 5.5
	Leaktightness under internal hydrostatic pressure whilst subjected to bending of copper and copper alloys plumbing fittings with compression ends for use with copper tubes	BS EN 1254-2: 1998 Cl. 5.6
	Stress corrosion resistance of copper and copper alloys plumbing fittings with ends for capillary soldering or capillary brazing to copper tubes	ISO 6957: 1988 in conjunction with the following specification(s): BS EN 1254-1 : 1998 Cl. 5.6
	Stress corrosion resistance of copper and copper alloys plumbing fittings with compression ends for use with copper tubes	ISO 6957: 1988 in conjunction with the following specification(s): BS EN 1254-2: 1998 Cl. 5.9

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Pipes and fittings (cont'd)		
- Copper pipes and fittings (cont'd)	Carbon film test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	BS EN 1057: 2006 + A1: 2010 Annex B in conjunction with the following specification(s): BS EN 1057: 2006 + A1: 2010 Cl. 7.5 & 10.5
	Dimensions measurement of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	In-house method BC-COPPER-DIM-EN1057-2006 + A1-2010 in conjunction with the following specification(s): BS EN 1057: 2006 + A1: 2010 Cl. 7.3
	Drift expanding test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	BS EN 1057: 2006 + A1 : 2010 Cl. 10.7 BS EN ISO 8493: 2004
	Hydrostatic test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	BS EN 1057: 2006 + A1: 2010 Annex C.2 in conjunction with the following specification(s): BS EN 1057: 2006 + A1: 2010 Cl. 7.4 & 10.9
	Surface quality, dimensions, and tolerances, freedom from defects test (hydrostatic test), tensile test and hardness carbon film test of copper and copper alloys (seamless) round copper tubes for water, gas in sanitary, and heating applications	BS EN 1057: 1996 Cl. 6.3 to 6.5, 8.2, 8.3, 8.5 & 8.9 (Method in C2)
- Non-alloy steel pipes	Dimensions measurement of non-alloy steel tubes	In-house method DIP-NST-DIM-EN10225: 2004 + A1 2007 in conjunction with the following specification(s): BS EN 10255: 2004 + A1: 2007(E) Cl. 8.4
	Flattening test of non-alloy steel tubes	BS EN 10255: 2004 + A1: 2007(E) Cl. 9.5 BS EN ISO 8492: 2013
	Leaktightness test of non-alloy steel tubes	In-house method DIP-NST-LEAK-EN10225: 2004 + A1 2007 in conjunction with the following specification(s): BS EN 10255: 2004 + A1: 2007(E) Cl. 9.6

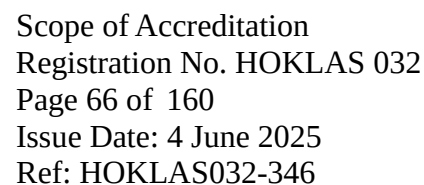
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Pipes and fittings (cont'd)		
- Stainless steel pipes and fittings	Dimensions of Stainless Steel Fittings Leaktightness under internal pressure test of stainless steel fittings Pressure cycle test of stainless steel fittings Resistance to pull-out of assembled joints of stainless steel fitting Leaktightness under internal pressure whilst subjected to bending of stainless steel fittings Compatibility of water fittings with pipe of stainless steel fittings Roll-grooved assembly (Joint Pressure Resistance test) of stainless steel fittings Resistance of press fitting joints and tubes to vibration of stainless steel fittings Intergranular corrosion test of stainless steel	In- house method SSF-DIM-AS3688 in conjunction with the following specification(s): AS 3688: 2016 Section 3, Table 3.6.4 & 3.7.2(B) AS 3688: 2016 Appendix D in conjunction with the following specification(s): AS 3688: 2016 Section 4.2 AS 3688: 2016 Appendix F in conjunction with the following specification(s): AS 3688: 2016 Section 4.4 AS 3688: 2016 Appendix G in conjunction with the following specification(s): AS 3688: 2016 Section 4.5 AS 3688: 2016 Appendix I in conjunction with the following specification(s): AS 3688: 2016 Section 4.7 AS 3688: 2016 Appendix J in conjunction with the following specification(s): AS 3688: 2016 Section 4.8 AS 3688: 2016 Appendix K in conjunction with the following specification(s): AS 3688: 2016 Section 4.9 AS 3688: 2016 Appendix P in conjunction with the following specification(s): AS 3688: 2016 Section 4.13 BS EN ISO 3651-2: 1998
- Steel tubes	Dimensions measurement, visual inspection, tensile test, bend test, flattening test, leaktightness test, and bore test of screwed and socketed steel tubes and tubulars and for plain end steel tubes	BS 1387: 1985 Cl. 2.5, 3.1 to 3.6



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Construction Materials 建築材料		
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Pipes and fittings (cont'd)		
- Welded stainless steel tubes	Dimensions measurement of welded stainless steel tubes	In-house method DIP-WST-DIM-EN10312:2002 in conjunction with the following specification(s): BS EN 10312: 2002 Cl. 8.8, 11.7, Table 1 and 2
	Drift expanding test of welded stainless steel tubes	BS EN 10312: 2002 Cl. 11.2 BS EN ISO 8493: 2004
	Flattening test of welded stainless steel tubes	BS EN 10312: 2002 Cl. 11.3 BS EN ISO 8492: 2013
	Hydrostatic test of welded stainless steel tubes	In-house method DIP-WST-LEAK-EN10312:2002 in conjunction with the following specification(s): BS EN 10312: 2002 Cl. 11.4.3
- Clay pipes and fittings	Bore and length of vitrified clay pipes	In-house method PIP-VTFCLAY-DIM in conjunction with the following specification(s): BS 65: 1991 Cl. 5.1 & 5.2 BS EN 295-1: 1991 Cl. 2.2 & 2.3
	Crushing strength test of vitrified clay pipes & fittings & pipe joints for drains & sewers	BS EN 295: Part 3: 1991 + Amd. A1 Cl. 4 BS 65: 1988 App. B BS 65: 1991 App. B in conjunction with the following specification(s): BS 65: 1988 Cl. 6.2 BS 65: 1991 Cl. 6.2
	Water pressure test (impermeability) of vitrified clay pipes and fittings	BS 65: 1988 Cl. 6.4 & 8.2 BS 65: 1991 Cl. 6.4 & 8.2

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Pipes and fittings (cont'd) - Concrete pipes and fittings	Crushing strength test of precast concrete pipes & fittings	BS 5911: Part 100: 1988 + Amd. 7588 App. D in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 20.4 BS EN 1916: 2002 Annex C in conjunction with the following specification(s): BS EN 1916: 2002 Cl. 4.5.3 & Cl. 6.4 BS 5911: Part 1: 2002 + A2: 2010 Cl. 5.6
	Dimension measurement of precast concrete pipes	In-house method PIP-DIM-5911 in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 9 and 10 BS 5911: Part 1: 2002 + A2: 2010 Annex D in conjunction with the following specification(s): BS 5911: Part 1: 2002 + A2: 2010 Cl. 5.4
	Hydrostatic test of concrete pipes and fittings	BS 5911: Part 100: 1988 + Amd. 7588 App. F in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 20.3 BS EN 1916: 2002 Annex E (excluding joint assembly) in conjunction with the following specification(s): BS EN 1916: 2002 Cl. 4.3.7
	Water absorption test of precast concrete pipes and fittings	BS 5911: Part 100: 1988 + Amd. 7588 App. E in conjunction with the following specification(s): BS 5911: Part 100: 1988 + Amd. 7588 Cl. 20.2 BS EN 1916: 2002 Annex F in conjunction with the following specification(s): BS EN 1916: 2002 Cl. 4.2.6.2 & 6.7

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Pipes and fittings (cont'd)		
- Polyethylene (PE) pipes and fittings	Assessment of the degree of pigment dispersion (blue compound) of polyethylene (PE) compounds, pipes and fittings	ISO 18553: 2002 excluding Cl. 4.1.2 & 4.2.2 in conjunction with the following specification(s): BS EN 12201-1: 2003 Cl. 4.4
	Cohesive resistance for polyethylene (PE) electrofusion socket fittings	ISO 13954: 1997 in conjunction with the following specification(s): BS EN 13244-3: 2002 Cl. 8 BS EN 12201-3: 2003 Cl. 8
	Density of polyethylene (PE) compounds, pipes and fittings	ISO 1183-1: 2004 (Method A - Immersion method) in conjunction with the following specification(s): BS EN 13244-1: 2002 Cl. 4.4 BS EN 12201-1: 2003 Cl. 4.4
	Dimensions measurement of polyethylene (PE) Pipes	EN ISO 3126 : 2005 ISO 3126: 2005 in conjunction with the following specification(s): BS EN 12201-2: 2003 Cl. 6 BS EN 12201-2 : 2011 + A1: 2013 Cl.6 BS EN 13244-2: 2002 Cl. 6.1 to 6.5 ISO 4427: 1996 Cl. 4.1, 4.2 & 4.3 ISO 11922-1: 1997
	Dimensions measurement of polyethylene (PE) electrofusion sockets	ISO 3126: 2005 in conjunction with the following specification(s): BS EN 12201-3: 2003 Cl. 6.1 & 6.2 BS EN 12201-3: 2011 + A1: 2012 Cl.6.2 BS EN 13244-3: 2002 Cl. 6.1 & 6.2
	Elongation at break of polyethylene (PE) pipes	BS EN ISO 6259-1: 2001 ISO 6259-3: 1997 in conjunction with the following specification(s): BS EN 13244-2: 2002 Cl. 8 BS EN 12201-2: 2003 Cl. 8

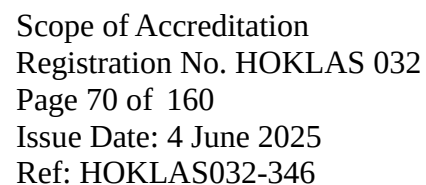
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Pipes and fittings - Polyethylene (PE) pipes and fittings	1,000 hours hydrostatic strength at 80°C of electrofusion polyethylene (PE) fittings Hydrostatic strength of polyethylene (PE) pipes and fittings Melt mass-flow rate (MFR) of polyethylene (PE) compounds, pipes and fittings Oxidation induction time (OIT) of electrofusion polyethylene (PE) fittings	BS 7336: 1990 App. L in conjunction with the following specification(s): Water Industry Specification 4-32-14 Mar 1995 Issue 1 Cl. 7.4 EN 921: 1994 in conjunction with the following specification(s): BS EN 12201-2: 2003 Cl. 7 BS EN 12201-3: 2003 Cl. 7.1 to 7.4 BS EN 13244-2: 2002 Cl. 7 BS EN 13244-3: 2002 Cl. 7.1 to 7.4 EN ISO 1167-1 : 2006 EN ISO 1167-2 : 2006 ISO 1167: 1996 in conjunction with the following specification(s): BS EN 12201-2: 2011 + A1: 2013 Cl.7 BS EN 12201-3: 2011 + A1: 2012 Cl.7 ISO 4427: 1996 Cl. 5 Tables 8 & 9 EN ISO 1133: 1999 (Procedure A) in conjunction with the following specification(s): BS EN 12201-1: 2003 Cl. 4.4 BS EN 12201-2: 2003 Cl. 8 BS EN 12201-3: 2003 Cl. 8 BS EN 13244-1: 2002 Cl. 4.4 BS EN 13244-2: 2002 Cl. 8 BS EN 13244-3: 2002 Cl. 8 ISO 1133: 2005 (mass-measurement method) ISO 4427: 1996 Cl. 3.7 BS 7281: 1990 App. D in conjunction with the following specification(s): Water Industry Specification 4-32-14 Mar 1995 Issue 1 Cl. 8.5



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Pipes and fittings (cont'd)		Oxidation induction time (OIT) of polyethylene (PE) compounds, pipes and fittings	EN 728: 1997 in conjunction with the following specification(s): BS EN 12201-1: 2003 Cl. 4.4 BS EN 12201-2: 2003 Cl. 8 BS EN 12201-3: 2003 Cl. 8 BS EN 13244-1: 2002 Cl. 4.4 BS EN 13244-2: 2002 Cl. 8 BS EN 13244-3: 2002 Cl. 8		
		Thermal stability (Oxidation Induction Time OIT) of polyethylene (PE) compounds and pipes	ISO/TR 10837: 1991 in conjunction with the following specification(s): ISO 4427: 1996 Cl. 3.3 & 6.1		

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Pipes and fittings (cont'd)		
- Thermoplastics pipes and fittings	Dimensions measurement of thermoplastics pipes, fittings and valves	BS 2782: Part 11: 1981 (Method 1101A)
	Longitudinal reversions of thermoplastics pipes	BS 2782: Part 11: 1995 (Method 1102B) BS EN 743: 1995 Cl. 3
	True impact rate boundaries (TIR) of thermoplastics pipes	BS 2782: Part 11: 1989 (Method 1108A)
-	Appearance of thermoplastics ancillary fittings for below ground gravity drainage and sewerage	BS 4660: 2000 Cl. 5
	Appearance of thermoplastics waste pipe and fittings	BS 5255: 1989 Cl. 4
	Impact test of plastic waste traps including bottle trap and U-trap	BS 3943: 1979 + Amd. 4692 Cl. 17 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(v)
	Dimensions measurement of thermoplastic waste pipe and fittings	BS 5255: 1989 Cl. 5 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i) & (iii)
	Impact resistance of thermoplastics waste pipes and two-way floor drain	BS 5255: 1989 Cl. 6.2 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i)
	Leaktightness of thermoplastic pipes and fittings for non-pressure applications	BS 5255: 1989 Cl. 7.2 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i) & (iii)

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Pipes and fittings (cont'd)		
- Thermoplastics pipes and fittings (cont'd)	Heat reversion of thermoplastics waste pipes	BS 5255: 1989 Cl. 6.3 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i)
	Vicat softening temperature of thermoplastics waste pipes and two-way floor drain	BS 5255: 1989 Cl. 6.1 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(i), (ii) & (vi)
	Vicat softening temperature of plastics W.C. connectors	BS 5627: 1984 + Amd. 5396 Cl. 7a.3 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(iii)
	Board stiffness of insulation ductboards	BS EN 13403: 2003 Cl. 7.1

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Pipes and fittings (cont'd)		
- Unplasticized poly(vinyl chloride) (PVC) pipes and fittings	Appearance of unplasticized PVC-U pressure pipes for cold potable water	BS 3505: 1986 Cl. 6.1.1 & 6.1.2
	Appearance of unplasticized PVC-U pipes and plastic fittings for below ground gravity drainage and sewerage	BS 4660: 1989 Cl. 4
	Appearance of unplasticized PVC soil and ventilating pipes, fittings and accessories	BS 4514: 1983 Cl. 3 BS 4514: 2001 Cl. 4
	Dimensions measurement of unplasticized PVC soil and ventilating pipes, fittings and accessories	BS 4514: 1983 Cl. 4.1 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii) & (iv)
	Impact resistance of unplasticized PVC soil and ventilating pipes	BS 4514: 1983 Cl. 5.3 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii)
	Heat reversion of unplasticized PVC soil and ventilating pipes	BS 4514: 1983 Cl. 5.4 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii)
	Proof pressure resistance of unplasticized PVC soil and ventilating pipes, fabricated fittings	BS 4514: 1983 Cl. 5.6 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii) & (iv)
	Tensile properties of unplasticized PVC soil and ventilating pipes	BS 4514: 1983 Cl. 5.2 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii)
	Vicat softening temperature of unplasticized PVC soil and ventilating pipes, fittings and accessories	BS 4514: 1983 (Amd. 4517) Cl. 5.1 in conjunction with the following specification(s): Hong Kong Housing Authority Specification Library (2022) DRA1.M150.9(2)(f)(i)(ii) & (iv)

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Pulverized fuel ash (PFA)	Activity index	BS EN 196-1: 2005 in conjunction with the following specification: BS EN 450-1: 2012 Cl. 5.3.2
	Moisture content	BS 3892: Part 1: 1997 Annex C in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 5
	Fineness	BS 3892: Part 1: 1997 Annex D BS EN 451-2: 2017 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 6 BS EN 450-1: 2012 Cl. 5.3.1
	Particle density	BS EN 196-6: 2010 Annex NC in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 7
	Water requirement	BS 3892: Part 1: 1997 Annex E with modification BS EN 450-1: 2012 Annex B in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 8 with modification BS EN 450-1: 2012 Cl. 5.3.6
	Strength factor	BS 3892: Part 1: 1997 Annex F with modification in conjunction with the following specification: BS 3892: Part 1: 1997 Cl. 9 with modification
	Standard consistence	BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 10 with modification BS EN 450-1: 2012 Cl. 5.3.5
	Initial setting time	BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 10 with modification BS EN 450-1: 2012 Cl. 5.3.5
	Soundness	BS EN 196-3: 2005 + A1: 2008 in conjunction with the following specification(s): BS 3892: Part 1: 1997 Cl. 11 with modification BS EN 450-1: 2012 Cl. 5.3.3

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Construction Materials 建築材料		
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
Repair mortar	Making of test specimens	BS 6319: Part 1: 1983 & Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.1
	Curing of test specimens	BS 6319: Part 1: 1983 & Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.1
	Compressive strength of repair mortar cubes in the force range 20 kN – 1500 kN	BS 6319: Part 2: 1983 & Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.1
	Tensile strength	BS 6319: Part 7: 1985 & Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.3
	Modulus of elasticity in compression	BS 6319: Part 6: 1984 & Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.4
	Coutinho ring shrinkage	Hong Kong Housing Authority Materials Testing Service (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.6 Method 1
	Air permeability	Improvements to the Figg Method for the Air Permeability of Concrete by Cather, Figg, Mansden and O'Brien. Mag. Conc. Res 36 No. 129 Dec 1984 & Hong Kong Housing Authority Materials Testing Service (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.7
	Bond strength of repair mortar systems	BS 6319: Part 7: 1985 & Hong Kong Housing Authority Materials Testing Service (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.14
	Repair mortar inspection core	Hong Kong Housing Authority Materials Testing Services (2024/2027) for Maintenance and Building Materials Specification Part D Cl. 2.1.22
	Flow	BS 4551: Part 1: 1998

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香港新界粉嶺安樂村安全街 29 號 A

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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 Hong Kong Housing Authority Specification Library (2018) EXT2.T910.8 to EXT2.T1010.8 Hong Kong Housing Authority Specification Library (2022) EXT2.T910.9 to EXT2.T1010.9
	Surface regularity of carriageways (by a 3 meter / rolling straightedge method)	General Specification for Civil Engineering Works (2006) Vol. 1 Cl. 10.55 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 10.55 Hong Kong Housing Authority Specification Library (2018) EXT2.T810.8 to EXT2.T850.8 Hong Kong Housing Authority Specification Library (2022) EXT2.T810.9 to EXT2.T850.9
	Slip resistance of new/ existing pedestrian surface material by wet pendulum test	AS 4586: 2013 App. A AS 4663: 2013 App. A
	Skid resistance of road surfaces/markings using a portable pendulum tester	Highways Department (Research and Development Division) Guidance Notes on Road testing - RD/GN/009 (Sep 1989)
Rock	Direct shear strength of jointed rock	ASTM D5607-02 with modifications
	Point load strength index of rock by diametral and axial tests	ASTM D 5731-95 International Society for Rock Mechanics (1985) Suggested method for determining point load strength
	Preparation of rock core specimens and determination of dimensional and shape tolerances	ASTM 4543-85 (reapproved 1991) with modifications
	Unconfined compressive strength of intact rock core specimens	ASTM D2938-95 with modifications
Screed	In-situ crushing resistance of bonded and unbonded levelling screeds	BS 8204: Part 1: 1987 App. B BS 8204: Part 1: 1999 Annex C BS 8204: Part 1: 2003 + A1: 2009 Annex D

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Showers	Endurance test for flow controllers	AS/NZS 3662: 2013 App. F The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex1 Section II D
	Nominal flow rate	AS/NZS 3662: 2013 App. B The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex1 Section I
	Mean spray spread angle	AS/NZS 3662: 2013 App. C The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex1 Section II B
	Temperature drop	AS/NZS 3662: 2013 App. D The Hong Kong Voluntary Water Efficiency Labelling Scheme on Showers for Bathing (Dec 2018) Annex1 Section II C

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香港新界粉嶺安樂村安全街 29 號 A

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Soil (Phase I)	Moisture content by oven-drying at 45°C±5°C	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1
	Moisture content by oven-drying at 105°C±5°C	GEOSPEC 3: 2001 Test 5.2 GEOSPEC 3: 2017 Test 5.2
	Comparative test for the determination of moisture content by oven-drying	GEOSPEC 3: 2001 Test 5.3 GEOSPEC 3: 2017 Test 5.3
	Liquid limit, plastic limit, and plasticity index	GEOSPEC 3: 2001 Test 6.1 GEOSPEC 3: 2017 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2 GEOSPEC 3: 2017 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1 GEOSPEC 3: 2017 Test 7.1
	Particle density by small pycnometer method	GEOSPEC 3: 2001 Test 7.2 GEOSPEC 3: 2017 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1 GEOSPEC 3: 2017 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2 GEOSPEC 3: 2017 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5 GEOSPEC 3: 2017 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6 GEOSPEC 3: 2017 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet-sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7 GEOSPEC 3: 2017 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 GEOSPEC 3: 2017 Test 10.1

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

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Construction Materials 建築材料		
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Soil (Phase I) (cont'd)	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 GEOSPEC 3: 2017 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 GEOSPEC 3: 2017 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 GEOSPEC 3: 2017 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 GEOSPEC 3: 2017 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 GEOSPEC 3: 2017 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 GEOSPEC 3: 2017 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 GEOSPEC 3: 2017 Test 10.8
	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 GEOSPEC 3: 2017 Test 11.1

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

Construction Materials 建築材料		
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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-, medium-, and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001 Test 11.2 GEOSPEC 3: 2017 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 GEOSPEC 3: 2017 Test 11.3
	Relative compaction of fill material	Buildings Department PNAP APP-15 (2005) Cl. 4 App. A GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4
	California Bearing Ratio (CBR)	BS 1377: Part 9: 1990 Cl. 4.3 GEOSPEC 3: 2001 Test 12.1 GEOSPEC 3: 2017 Test 12.1
	Density of soil by linear measurement method	BS 1377: Part 2: 1990 Cl. 7.2
Soil (Phase II)	One-dimensional consolidation test	GEOSPEC 3: 2001 Test 14.1 GEOSPEC 3: 2017 Test 14.1
	Isotropic compression test in a triaxial cell	GEOSPEC 3: 2001 Test 14.2 GEOSPEC 3: 2017 Test 14.2
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1 GEOSPEC 3: 2017 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2 GEOSPEC 3: 2017 Test 15.2
	Isotropically consolidated drained triaxial compression test with measurement volume change	GEOSPEC 3: 2001 Test 15.3 GEOSPEC 3: 2017 Test 15.3
	Direct shear test (small shear box apparatus)	GEOSPEC 3: 2001 Test 16.1 GEOSPEC 3: 2017 Test 16.1

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

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Soil (other)	Dynamic probe test	General Specification for Civil Engineering Works (2006) Vol. 1 App. 7.1
	Soil nail performance	Architectural Services Department General Specification for Building (2017) Section 26, Geotechnical Works on Soil and Rock Slopes Cl. 26.42 Architectural Services Department General Specification for Building (2022) Section 26, Geotechnical Works on Soil and Rock Slopes Cl. 26.47
	Pull-out test of soil nails	Architectural Services Department General Specification for Building (2017) Section 26, Geotechnical Works on Soil and Rock Slopes Cl. 26.39 Architectural Services Department General Specification for Building (2022) Section 26, Geotechnical Works on Soil and Rock Slopes Cl. 26.44 General Specifications for Civil Engineering Works (2006) Vol. 1 Cl. 7.138 General Specifications for Civil Engineering Works (2020) Vol. 1 Cl. 7.144 GEOGUIDE 7 (2017) Cl. 6.3.2 Hong Kong Housing Authority Specification Library (2018) SLO.T315.7 & SLO.T320.7 Hong Kong Housing Authority Specification Library (2022) SLO.T315.8 & SLO.T320.9
	Time domain reflectometry (TDR) test on soil nails	Geotechnical Engineering Office Guidelines on Test Procedure using Time Domain Reflectometry (TDR) to determine the length of installed soil nails (July 2007)
	In-situ apparent resistivity of soil	BS 1377: Part 9: 1990 Cl. 5.1
	Resistivity of soil by Wenner probe method	BS 1377: Part 3: 1990 Cl. 10.3
	Resistivity of soil by open container method	BS 1377: Part 3: 1990 Cl. 10.4
	Redox potential	BS 1377: Part 3: 1990 Cl. 11

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香港新界粉嶺安樂村安全街 29 號 A

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Structural fixings	Tensile test of anchor and dowel bars by incremental loading in the force range 2 kN – 450 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 20 kN – 450 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 2 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Tensile proof load test for 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 2 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Shear test of anchor and dowel bars by incremental loading in the force range 2 kN – 450 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 20 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. A
	Shear proof load test of drilled-in anchors used for works other than cantilevered structure/hanger/curtain wall remedial works in the force range 2 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. B
	Shear proof load test for 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 2 kN – 450 kN	Buildings Department PNAP APP-169 (Oct 2023) App. C
	Tensile pull out testing to anchor device	BS 7883: 2005 Cl. 11.1.1 BS EN 795: 1997 Cl. 5.2.1

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

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Tiles	Length and width of ceramic floor and wall tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 2
	Thickness of ceramic floors and wall tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 3
	Straightness of sides of ceramic floor and wall tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 4
	Rectangularity of ceramic floor and wall tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 5
	Surface flatness of ceramic floor and wall tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 6
	Water absorption of ceramic floor and wall tiles	BS 6431: Part 11: 1983 + Amd. 7100 EN 99: 1991
	Mohs hardness	BS 6431: Part 13: 1986 + Amd. 7102 EN 101: 1991
	Resistance to deep abrasion of unglazed ceramic tiles	BS 6431: Part 14: 1983 + Amd. 7103 EN 102: 1991
	Linear thermal expansion of ceramic tiles	BS 6431: Part 15: 1983 + Amd. 7104 EN 103: 1991
	Resistance to thermal shock	BS 6431: Part 16: 1983 + Amd. 7105 EN 104: 1991
	Crazing resistance of glazed ceramic tiles	BS 6431: Part 17: 1983 + Amd. 7106 EN 105: 1991

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

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Tiles (cont'd)	Resistance to surface abrasion of glazed ceramic floor and wall tiles (PEI method)	BS 6431: Part 20: 1984 + Amd. 7109 EN 154: 1991
	Surface quality of ceramic floor and wall tiles	BS 6431: Part 10: 1984 + Amd. 7099 EN 98: 1991 Cl. 7
	Measurement of spacer lugs of ceramic tiles	In-house method CTILE-SPACER-LUGS
	Modulus of rupture of ceramic floor and wall tiles	BS 6431: Part 12: 1983 + Amd. 7101 EN 100: 1991
	Chemical resistance of glazed ceramic floor and wall tiles	BS 6431: Part 19: 1984 EN 122: 1991 + Amd. 7108
	Chemical resistance of unglazed ceramic floor and wall tiles	BS 6431: Part 18: 1983 EN 106: 1991 + Amd. 7101
	Length and width of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 2
	Thickness of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 3
	Straightness of side of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 4
	Rectangularity of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 5
	Surface flatness of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 6
	Surface quality of ceramic tiles	BS EN ISO 10545-2: 1997 Cl. 7
	Water absorption, apparent porosity, apparent relative density and bulk density of ceramic tiles	BS EN ISO 10545-3: 1997 BS EN ISO 10545-3: 2018

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

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Tiles (cont'd)	Modulus of rupture and breaking strength of ceramic tiles	BS EN ISO 10545-4: 1997 BS EN ISO 10545-4: 2014
	Impact resistance by measurement of coefficient of restitution	BS EN ISO 10545-5: 1998
	Resistance to deep abrasion for unglazed ceramic tiles	BS EN ISO 10545-6: 1997
	Resistance to surface abrasion of glazed ceramic tiles	BS EN ISO 10545-7: 1997
	Linear thermal expansion of ceramic tiles	BS EN ISO 10545-8: 1996 BS EN ISO 10545-8: 2014
	Resistance to thermal shock of ceramic tiles	BS EN ISO 10545-9: 1996
	Moisture Expansion	BS EN ISO 10545-10: 1997
	Crazing resistance for glazed ceramic tiles	BS EN ISO 10545-11: 1996
	Chemical resistance of ceramic tiles	BS EN ISO 10545-13: 1997 BS EN ISO 10545-13: 2016
	Resistance to stains of ceramic tiles	BS EN ISO 10545-14: 1997
	Small colour difference	BS EN ISO 10545-16: 2000
	Static coefficient of friction of ceramic tiles	ASTM C1028-07

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

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Tile adhesives	Initial tensile adhesion strength	BS EN 1348: 2007 BS EN 12004-2: 2017
	Tensile adhesion strength after water immersion	BS EN 1348: 2007 BS EN 12004-2: 2017
	Tensile adhesion strength after heat ageing	BS EN 1348: 2007 BS EN 12004-2: 2017
	Tensile adhesion strength after freeze-thaw cycles	BS EN 1348: 2007 BS EN 12004-2: 2017
	Open time: tensile adhesion strength	BS EN 1346: 2007 BS EN 12004-2: 2017
	Early tensile adhesion strength	BS EN 1348: 2007 BS EN 12004-2: 2017
	Slip	BS EN 1308: 2007 BS EN 12004-2: 2017
Tile grout	Water absorption	ANSI A118.6-1992 Cl. H3.4
Underground utility survey	Pipe cable locating / Electromagnetic locating	Specifications for Nondestructive Testing, Surveying, Imaging and Diagnostic for Underground Utilities - 1.1 Pipe Cable Locating / Electromagnetic Locating (2019) published by Department of Land Surveying and Geo-informatics (LSGI) of The Hong Kong Polytechnic University

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29A, On Chuen Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安全街 29 號 A

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Valves	Coating thickness measurement of valves	Water Industry Specificaion 4-52-01 Dec 1992: Issue 1 App. B in conjunction with the following specification(s): Water Industry Specificaion 4-52-01 Dec 1992: Issue 1 Cl. 12.7.1
	Dimensions of copper alloy check & gate valves	In-house method VAL-COPPER-DIM-BS5154 in conjunction with the following specification(s): BS 5154: 1991 Cl. 8 Tables 4, 5, 7 and 8
	Dimensions of copper alloy gate valves	In-house method VAL-COPPER-DIM-EN12288 in conjunction with the following specification(s): BS EN 12288: 2010 Cl. 4.2.4
	Dimensions of expansion joint, settlement joint, flexible joint and strainer	In-house method VAL-Strainer-DIM
	Hydrostatic shell and seat tests of cast iron check valves	BS 6755: Part 1: 1986 BS EN 12266-1: 2003 in conjunction with the following specification(s): BS 5153: 1974 + Amd. 1, 2 & 3 Cl. 18
	Hydrostatic shell and seat tests of cast iron gate valves	BS 6755: Part 1: 1986 BS EN 12266-1: 2003 in conjunction with the following specification(s): BS 5150: 1990 Cl. 18
	Hydrostatic shell and seat tests of copper alloy globe, globe stop and check, check and gate valves	BS 6755: Part 1: 1986 BS EN 12266-1: 2003 in conjunction with the following specification(s): BS 5154: 1991 Cl. 11
	Hydrostatic shell and seat tests of predominantly key-operated cast iron gate valves for waterworks purposes	BS 6755: Part 1: 1986 BS EN 12266-1: 2003 in conjunction with the following specification(s): BS 5163: 1986 + Amd. 1 & 2 Cl. 19
	Resistance to operating loads of isolating valves	BS EN 1074-2: 2000 + A1: 2004 Annex A in conjunction with the following specification(s): BS EN 1074-2: 2000 + A1: 2004 Cl. 5.1.4

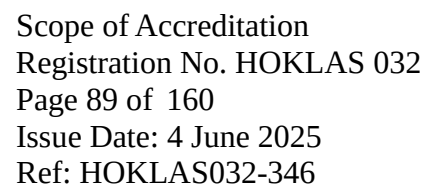
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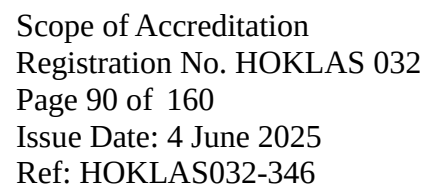
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Valves (cont'd)	Shell and seat tightness of metallic and copper alloy gate valves Testing of resistance and leak-tightness to internal pressure of the shell and of all pressure containing components and seat tightness at high differential pressure of valves for water supply-fitness for purposes requirements and appropriate verification tests	BS EN 12266-1: 2012 Cl. A3 & A4 in conjunction with the following specification(s): BS EN 12288: 2010 Cl. 5.1 BS EN 1074: Part 1 to 4: 2000



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Water closet suites - Cistern	Shell thickness	BS 7357: 1990 Cl. 5.1.3
	Spill-over level	BS 7357: 1990 Figure 1
	Dead load test on operating mechanism (push button only)	BS 7357: 1990 App. H.3
	Visual examination	BS 3402: 1969 Table 2
	Warning pipe connection	BS 7357: 1990 Cl. 13.1 BS EN 997: 2003 Cl. 6.17.2 BS EN 997: 2018 Cl. 6.17.2
	Flushing apparatus torque	BS 7357: 1990 App. D
	Physical endurance of flushing device	BS EN 997: 2003 Cl. 6.17.5 BS EN 997: 2012 + A1: 2015 Cl. 6.17.5 BS EN 997: 2018 Cl. 6.17.5
	Valve reliability	BS EN 997: 2003 Cl. 5.8.6 BS EN 997: 2018 Cl. 5.7.5.4
	Chemical endurance of flushing device	BS EN 997: 2003 Cl. 6.17.6 BS EN 997: 2018 Cl. 6.17.6
- Compact type float operated valve	Distortion for backnuts and inlet shank (bottom entry type only)	BS 1212 Part 3: 1990 Cl. 13.1 & App. A.2.2 with modifications
	Static pressure	BS 1212 Part 3: 1990 Cl. 14.1 with modifications
	Shut-off pressure	BS 1212 Part 3: 1990 Cl. 14.2 & App. D with modifications
	Dynamic pressure	BS 1212 Part 3: 1990 Cl. 14.3 & App. E with modifications
	Endurance	BS 1212 Part 3: 1990 Cl. 17 & App. H with modifications
	Backflow prevention	BS 1212 Part 3: 1990 Cl. 15 & App. F with modifications



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Water closet suites (cont'd) - Completed assembly	Flushing volume & water trap seal	BS EN 997: 2003 Cl. 6.17.3 BS EN 997: 2012 + A1: 2015 Cl. 6.17.3 BS EN 997: 2018 Cl. 6.17.3	
	Flushing rate	BS EN 997: 2003 Cl. 6.17.4 BS EN 997: 2012 + A1: 2015 Cl. 6.17.4 BS EN 997: 2018 Cl. 6.17.4	
	Flushing	BS 7358: 1990 App. A	
	Volume of discharge	BS 7358: 1990 App. B	
	Solid discharge and after-flush volume for maximum flush volume	BS EN 997: 2003 Cl. 6.17.7 BS EN 997: 2018 Cl. 6.17.7	
	Paper discharge for reduced-flush volume	BS EN 997: 2003 Cl. 6.17.8 BS EN 997: 2018 Cl. 6.17.8	
	Liquid contaminant dye retention	BS EN 997: 2003 Cl. 6.17.9 BS EN 997: 2018 Cl. 6.17.9	
	Wash of bowl	BS EN 997: 2003 Cl. 6.17.10 BS EN 997: 2018 Cl. 6.17.10	
	- WC Pan	Connection dimensions	BS EN 33: 2011 Cl. 2.2 Table 3 & 4, Cl. 4 Table 8 Figure 2 & 3a
		Height from base to top surface	Hong Kong Housing Authority Specification Library (2022) Cl. PLU2.M110.9(2)(b)(i)
		Visual examination	BS 3402: 1969 Table 1
		Water absorption	BS EN 997: 2003 Cl. 5.8.3 BS EN 997: 2018 Cl. 5.7.3 BS 3402: 1969 App. A
		Crazing	BS 3402: 1969 App. B
		Chemical resistance	BS 3402: 1969 App. C
		Resistance to staining & burning	BS 3402: 1969 App. D
		Static load test (pedestal ceramic only)	BS EN 997: 2003 Cl. 5.8.4 BS EN 997: 2018 Cl. 5.7.4

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Welds (destructive)	Bend test on welds in metallic materials	BS EN 910: 1996 BS EN ISO 5173: 2010 + A1 : 2011
	Fracture test on welds in metallic materials	BS EN 1320: 1997 BS EN ISO 9017: 2018
	Transverse tensile test on welds in metallic materials in the force range 2 kN – 2500 kN	BS EN 895: 1995 BS EN ISO 4136 : 2012
	Longitudinal tensile test on welds in metallic materials in the force range 2 kN – 2500 kN	BS EN 876: 1995 BS EN ISO 5178 : 2011
	Tensile test on welded reinforcing steel for concrete in the force range 10 kN to 2000 kN	BS 7123: 1989 Cl. 12.3.5
	Tensile test on welded reinforcing steel for concrete in the force range 10 kN to 2000 kN	BS EN ISO 17660-1: 2006 Cl. 14.2
	Bend test on welded reinforcing steel for concrete	BS EN ISO 17660-1: 2006 Cl. 14.4
	Impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016 : 2012
	Vickers hardness test across welded joints in scale range HV5 and HV10	BS EN 1043: Part 1: 1996 BS EN ISO 9015-1 : 2011
	Macroscopic and microscopic examination on welds in metallic materials	BS EN 1321: 1997 BS EN ISO 17639 : 2013
	Slow bend test for crane rail	In-house method RD-SBEND-CRAIL
	Marco test on welded reinforcing steel for concrete	BS 7123: 1989 Cl. 12.3.6

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Welds (non-destructive)	Magnetic particle test (Magnetic flow method colour contrast technique using permanent magnets, D.C. and A.C. yokes)	BS 6072: 1981 (1986) BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 9934-1: 2016 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Liquid penetrant test (Colour contrast method)	BS 6443: 1984 BS EN 571-1: 1997 BS EN ISO 3452-1: 2013 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Ultrasonic test (Butt welds in plates & pipes, 'T'-joint welds, nozzle welds and node welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 (Level A, B, & C) BS EN ISO 17640: 2010 (Level A, B, & C) BS EN ISO 17640: 2018 (Level A, B, & C) in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

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Welds (non-destructive) (cont'd)	Radiographic examination (X-Ray)	BS 2600: Part 1: 1983 BS 2910: 1986 BS EN 1435: 1997 BS EN ISO 17636-1: 2013 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Radiographic examination (Gamma Ray)	BS 2600: Part 1: 1983 BS 2910: 1986 BS EN 1435: 1997 BS EN ISO 17636-1: 2013 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b
	Visual examination	BS 5289: 1976 BS 7123: 1989 Cl. 13.5 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 4515-1: 2009 Table 9 BS 5135: 1984 Table 18 & 19 BS 7123: 1989 Table 7 BS EN 25817: 1992 Table 1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2007 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structural Use of Steel (2011) Table 14.3b

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Welds (non-destructive) (cont'd)	Visual examination and bend test on stud connectors	<Visual examination as follows:> BS 5289: 1976 BS 7123: 1989 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together with the following bend test method(s):> BS EN ISO 14555: 2006 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 BS EN ISO 14555: 2017 Cl. 11.2, 11.3 (excluding Torque wrench method), 12.2 & 12.3 Buildings Department Code of Practice for the Structural Use of Steel (2005) Cl. 14.3.7.3 Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 14.3.7.3

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Windows	Dimension test – overall size	Hong Kong Housing Authority Specification Library (2018) COM2.M005.8(2)(a)(i) Hong Kong Housing Authority Specification Library (2022) COM2.M005.9(2)(a)(i)
	Dimension tests – individual members	BS 1474: 1987 Cl. 7.4
	Operating forces (for side hung and top hung only)	BS EN 12046-1: 2003 in conjunction with the following specification: BS 6375: Part 2: 2009 Cl. 5.1
	Resistance to static torsion (for side hung and top hung only)	BS EN 14609: 2004 in conjunction with the following specification: BS 6375: Part 2: 2009 Cl. 5.2.1
	Resistance to racking (for side hung and top hung only)	BS EN 14608: 2004 in conjunction with the following specification: BS 6375: Part 2: 2009 Cl. 5.2.2
	Endurance of fastener / hardware (for side hung and top hung only) - Operation of fastener - Movement of sash - Endurance of fastener/hardware	SS212: 2007 Cl. 10.2.2 & Annex E Test 1 SS212: 2007 Cl. 10.2.2 & Annex E Test 2 SS212: 2007 Cl. 10.2.2 & Annex E Test 8
	Visual inspection on coating	BS 3987: 1991 Cl. 3 & App. G
	Thickness of coating	BS EN ISO 1463: 1995
	Hardness test of rubber	BS 903-A26: 1995, ISO 48: 1994 (method N)
	Heat resistance and accelerated ageing tests of rubber	BS 903-A19: 1998 (Method A - Air oven method)

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Chemical Testing 化學測試		
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
Ferric Chloride Solution	Assay of ferric chloride	GB4482-2006 Section 5.1
Sodium Bisulphite	Assay of sodium bisulphite	HG/T3814-2006 cl. 4.3
Sodium Chlorite	Assay of sodium chlorite	HG/T3250-2010 cl. 5.4
Sodium Hypochlorite Solution	Available chlorine	ASTM D2022-89 (Reapproved 2008) cl. 6 to 9 GB 19106-2003 cl.5.1
Sodium Hydroxide Solution	Determination of sodium hydroxide	GB/T4348.1-2000 <Excluding determination of sodium carbonate>

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Chinese Medicine 中藥		
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Proprietary Chinese Medicines (pCM)	Microbiological examinations:- - 微生物限度檢查法 Microbial Limit Test 細菌數 Aerobic bacteria count 霉菌與酵母菌數 Mold and Yeast count 大腸桿菌 <i>E. coli</i> 沙門菌 <i>Salmonella</i> species 金黃色葡萄球菌 <i>Staphylococcus aureus</i> 銅綠假單胞菌 <i>Pseudomonas aeruginosa</i> 細菌數 Aerobic bacteria count 霉菌與酵母菌數 Mould and yeast count 大腸埃希菌 <i>E. coli</i> 沙門菌 <i>Salmonella</i> species 金黃色葡萄球菌 <i>Staphylococcus aureus</i> 銅綠假單胞菌 <i>Pseudomonas aeruginosa</i> 大腸菌群 Coliform 梭菌 <i>Clostridium</i> 白色念珠菌 <i>Candida albicans</i>	中華人民共和國藥典 2000 年版一部附錄 XIII C Pharmacopoeia of the People's Republic of China 2000, Volume I, App. XIII C 中華人民共和國藥典 2010 年版一部附錄 XIII C Pharmacopoeia of the People's Republic of China, 2010, Volume I, App. XIII C

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Chinese Medicine 中藥		
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Proprietary Chinese medicine (pCm) 非無菌不含藥材原粉的中藥製劑 Non-sterile pCm products without crude drug powder 非無菌含藥材原粉的中藥製劑 Non-sterile pCm products with crude drug powder 非無菌藥用原料及輔料 Non-sterile pCm Substances for Pharmaceutical Use 中藥提取物及中藥飲片 Chinese Medicine Extracts and Decoction of Chinese Medicine	Microbiological examinations (Cont'd):- 非無菌藥品微生物限度標準 Microbial Limits for Non-sterile Pharmaceutical Products - Microbial Enumeration Tests and Tests for Specified Microorganisms - 微生物計數法及控制菌檢查法 需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Molds and Yeasts Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 <i>E. coli</i> 沙門菌 <i>Salmonella</i> species 銅綠假單胞菌 <i>Pseudomonas aeruginosa</i> 金黃色葡萄球菌 <i>Staphylococcus aureus</i> 梭菌 <i>Clostridium</i> 白色念珠菌 <i>Candida albicans</i>	中華人民共和國藥典 2015 年版四部 1107 段點 3 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.3 中華人民共和國藥典 2015 年版四部 1107 段點 4 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.4 中華人民共和國藥典 2015 年版四部 1107 段點 5 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.5 中華人民共和國藥典 2015 年版四部 1107 段點 6 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Part 1107 Cl.6 <i>Test Procedures for compliance testing:</i> 中華人民共和國藥典 2015 年版四部 1105 段及 1106 段 Pharmacopoeia of the People's Republic of China 2015, Volume IV, Parts 1105 & 1106

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Chinese Medicine 中藥		
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Proprietary Chinese medicine (pCm) 非無菌不含藥材原粉的 中藥製劑 Non-sterile pCm products without crude drug powder 非無菌含藥材原粉的 中藥製劑 Non-sterile pCm products with crude drug powder 非無菌藥用原料及輔料 Non-sterile pCm Substances for Pharmaceutical Use 中藥提取物 Chinese Medicine Extracts	Microbiological examinations (Cont'd):- 非無菌藥品微生物限度標準 Microbial Limits for Non-sterile Pharmaceutical Products - 微生物計數法及控制菌檢查法 Microbial Enumeration Tests and Tests for Specified Microorganisms 需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Molds and Yeasts Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 <i>E. coli</i> 沙門菌 <i>Salmonella</i> species 銅綠假單胞菌 <i>Pseudomonas aeruginosa</i> 金黃色葡萄球菌 <i>Staphylococcus aureus</i> 梭菌 <i>Clostridium</i> 白色念珠菌 <i>Candida albicans</i>	中華人民共和國藥典 2020 年版四部 1107 段點 3 及點 8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 3 & Cl. 8 中華人民共和國藥典 2020 年版四部 1107 段點 4 及點 8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 4 & Cl. 8 中華人民共和國藥典 2020 年版四部 1107 段點 5 及點 8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 5 & Cl. 8 中華人民共和國藥典 2020 年版四部 1107 段點 6 及點 8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 6 & Cl. 8 <i>Test Procedures for compliance testing:</i> 中華人民共和國藥典 2020 年版四部 1105 段及 1106 段 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Parts 1105 & 1106

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Chinese Medicine 中藥		
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Proprietary Chinese medicine (pCm) 中藥飲片 Decoction of Chinese Herbal Medicines	Microbiological examinations (Cont'd):- 非無菌藥品微生物限度標準 Microbial Limits for Non-sterile Pharmaceutical Products - 微生物計數法及控制菌檢查法 Microbial Enumeration Tests and Tests for Specified Microorganisms 需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Molds and Yeasts Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 <i>E. coli</i> 沙門菌 <i>Salmonella</i> species	中華人民共和國藥典2020年版四部 1107段點6及點8 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1107 Cl. 6 & Cl. 8 <i>Test Procedures for compliance testing:</i> 中華人民共和國藥典 2020 年版四部 1108 段 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1108

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Chinese Medicine 中藥		
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Proprietary Chinese medicine (pCm) 中藥飲片 Decoction of Chinese Herbal Medicines (Cont'd)	Microbiological examinations (Cont'd):- - 微生物計數法及控制菌檢查法 Microbial Enumeration Tests and Tests for Specified Microorganisms 耐熱菌總數 需氧菌總數 Total Aerobic Microbial Count 霉菌和酵母菌總數 Total Molds and Yeasts Count 耐膽鹽革蘭陰性菌 Bile-tolerant Gram negative bacteria 大腸埃希菌 <i>E. coli</i> 沙門菌 <i>Salmonella</i> species	中華人民共和國藥典 2020 年版四部 1108 段 Pharmacopoeia of the People's Republic of China 2020, Volume IV, Part 1108

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Proprietary Chinese Medicines (pCHM)	Toxic elements: - - Mercury - Cadmium	In-house method FD-TCM-HM2 (ICP-MS) In-house method FD-TCM-HM8 (ICP-MS)
Proprietary Chinese Medicines and Chinese Herbal Medicines	- Arsenic, Cadmium, Copper, Lead and Mercury	In-house method FD-TCM-HM1 (ICP-OES)
Decoction of Chinese Herbal Medicines (dCHM)	- Arsenic, Cadmium, Copper, Lead and Mercury	In-house method FD-TCM-HM7 (ICP-MS)
Ointments, liniments and plasters	Pesticides residues:- - Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	In-house method FD-TCM-PEST-2 (GC-ECD/GC-MSD)
Proprietary Chinese Medicines and Chinese Herbal Medicines	- Organochlorine pesticides: Aldrin, Dieldrin, Endrin, cis-Chlordane, trans-Chlordane, Oxychlordane, Heptachlor, Heptachlor epoxide, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, Hexachlorobenzene, Methyl pentachlorophenyl sulphide, Pentachloroaniline, Quintozene (pentachloronitrobenzene), 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD	In-house method FD-TCM-PEST-1 (GC-ECD/GC-MSD)

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Chinese Medicine 中藥		
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
Chinese Herbal Medicines (CHM), Decoction of Chinese Herbal Medicines (dCHM) and Concentrated Granules of Chinese Herbal Medicines (gCHM) <Excluding the following> CHM of mineral origin, dCHM containing materials of mineral origin, gCHM containing materials of mineral origin	Pesticides residues (Cont'd):- - Organochlorine pesticides: Endosulfan I, Endosulfan II and Endosulfan sulphate Mycotoxins: - - Aflatoxins B ₁ , B ₂ , G ₁ , G ₂ - Sum of aflatoxins B ₁ , B ₂ , G ₁ and G ₂ - Sulphur dioxide	In-house method FD-TCM-PEST-7 (GC-ECD for quantitation and GC-MSD for confirmation) In-house method FD-CHM-AFLAT1 (screening by LC/MS/MS and quantitation by HPLC-FLD) In-house method FD-CHM-SO ₂ -1 (Distillation-titrimetric method)
Chinese Materia Medica 中藥材	Toxic elements :- Arsenic, Cadmium, Lead and Mercury	Hong Kong Chinese Materia Medica Standards Volume 1-4, Appendix V 香港中藥材標準第一至四冊，附錄 V
Radix Ginseng 人參	- Physicochemical Identification 理化鑒別 - Thin-layer chromatographic identification 薄層色譜鑒別 - High-Performance Liquid Chromatographic Fingerprinting 高效液相色譜指紋圖譜鑒別 - Assay 含量測定 - Microscopic identification 顯微鑒別	Hong Kong Chinese Materia Medica Standards Volume 1 香港中藥材標準第一冊

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Chinese Medicine 中藥		
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藥劑產品 Pharmaceutical Products	製劑通則 General requirements for preparation:-	中華人民共和國藥典2010年版一部 (中文版) Pharmacopoeia of the People's Republic of China 2010, Volume 1 (Chinese Edition)
散劑 Powder	水份(烘乾法) water (Drying in oven method)	附錄 I B App. I B Test procedures for compliance testing:- 水份測定按附錄 IX H 水份測定法第一法 (烘乾法) Determination of water in accordance with App. IX H (Drying in oven method)
顆粒劑 Granules	裝量差異 Filling variation	附錄 I B [裝量差異] App. IB (Filling variation)
	水份(烘乾法) water (Drying in oven method)	附錄 I C App. I C Test procedures for compliance testing:- 水份測定按附錄 IX H 水份測定法第一法 (烘乾法) Determination of water in accordance with App. IX H (Drying in oven method)
	裝量差異 Filling variation	附錄 I C [裝量差異] App. I C (Filling variation)
片劑 Tablets	重量差異 Weight variation	附錄 I D App. I D Test procedures for compliance testing:- 附錄 I D [重量差異] App. I D (Weight variation)
	溶散時限 Disintegration test	溶散時限 / 崩解時限按附錄 X IIA Disintegration in accordance with App. X IIA

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Chinese Medicine 中藥		
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藥劑產品 Pharmaceutical Products (cont'd)	製劑通則 General requirements for preparation:- (cont'd)	中華人民共和國藥典2010年版一部 (中文版) Pharmacopoeia of the People's Republic of China 2010, Volume 1 (Chinese Edition)
膠囊劑 Capsules	水份(烘乾法) Water (Drying in oven method)	附錄 I L App. I L Test procedures for compliance testing:- 水份測定按附錄 IX H 水份測定法第一法 (烘乾法) Determination of water in accordance with App. IX H (Drying in oven method)
	裝量差異 Filling variation	附錄 I L [裝量差異] App. I L (Filling variation)
	溶散時限 Disintegration test	溶散時限 / 崩解時限按附錄 X I I A Disintegration in accordance with App. X I I A
丸劑 Pills	水份(烘乾法) Water (Drying in oven method)	附錄 I A App. I A Test procedures for compliance testing:- 水份測定按附錄 IX H 水份測定法第一法 (烘乾法) Determination of water in accordance with App. IX H (Drying in oven method)
	重量差異 Weight variation	附錄 I A [重量差異] App. I A (Weight variation)
	裝量差異 Filling variation	附錄 I A [裝量差異] App. I A (Filling variation)
	溶散時限 Disintegration test	溶散時限 / 崩解時限按附錄 X I I A Disintegration in accordance with App. X I I A

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Admixture (chemical analysis)	Dry material content	BS 5075 : Part 1 : 1982 (Amd 4183 & 4910) App. D1
	Conventional dry material content	BS EN 480 : Part 8 : 1997
	Ash content	BS 5075 : Part 1 : 1982 (Amd 4183 & 4910) App. D2
	Chloride ion content	BS 5075 : Part 1 : 1982 (Amd 4183 & 4910) App. E
	Relative density (liquid)	BS 5075 : Part 1 : 1982 (Amd 4183 & 4910) App. D3
	Nitric acid soluble sodium oxide and potassium oxide contents	In-house Method ADM-CML.Na-K
	Density (liquid)	ISO 758 : 1976 (E)
	Water soluble chloride content	BS EN 480 : Part 10 : 2009 (Method 3)
	Sodium oxide content	BS EN 480 : Part 12 : 2005
	Potassium oxide content	BS EN 480 : Part 12 : 2005
	Alkali content	BS EN 480 : Part 12 : 2005
	pH value	ISO 4316 : 1977 (E)

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Aggregates (chemical analysis)	Water-soluble chloride content	BS 812: Part 117 : 1988 App. C <i>Excluding</i> Cl. 4
	Acid-soluble chloride ion content	CS3: 2013 Section 21.4
	Water-soluble chloride ion content	CS3: 2013 Section 21.3
	Acid-soluble sulphate content	CS3: 2013 Section 21.5
	Total sulphur content	CS3: 2013 Section 21.6
	Water-soluble sulphate content	BS 812: Part 118 : 1988 Cl. 5 (Gravimetric) <Excluding Cl. 4>
	Total sulphate (acid extraction)	BS 812: Part 118 : 1988 Cl. 6 <Excluding Cl. 4>
	Acid-soluble material	BS 812: Part 119 : 1985 <Excluding Cl. 4>
	Soluble silica (SiO ₂)	HKHA MTS (04/06) Specification Part D Cl. 1.4.9
	Soluble calcium oxide (CaO)	HKHA MTS (04/06) Specification Part D Cl. 1.4.9
	Potential reactivity	ASTM C289-87 <Excluding Cl. 10 and Cl. 14.4> ASTM C289-94 <Excluding Cl. 9 and App. X1>
	Presence of humus	CS3: 2013 Section 21.7
	Water-soluble chloride salt content	BS EN 1744-1:2009 A1:2012 Cl. 7 (Reference method) <Excluding Cl. 7.2>
	Water-soluble sulfate content	BS EN 1744-1:2009 A1:2012 Cl. 10.1 <Excluding Cl. 10.1.2>
	Acid-soluble sulfate content	BS EN 1744-1:2009 A1:2012 Cl. 12 <Excluding Cl. 12.2>

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Cement (chemical analysis)	Heat of hydration	BS 4550 : Part 3 : Section 3.8 : 1978 with modification
	Aluminium oxide content	BS EN 196-2 : 2005 Cl. 13.11
	Calcium oxide content	BS EN 196-2 : 2005 Cl. 13.12 (Reference method)
	Chloride ion content (Cl ⁻)	BS EN 196-21 : 1992 Cl. 4 BS EN 196-2 : 2005 Cl. 14 BS EN 196-2 : 2013 Cl. 4.5.16
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2 : 1995 Cl. 9 BS EN 196-2 : 2005 Cl. 9 BS EN 196-2 : 2013 Cl. 4.4.3
	Iron (III) oxide content	BS EN 196-2 : 2005 Cl. 13.10
	Loss-on-ignition (L.O.I.)	BS EN 196-2 : 1995 Cl. 7 BS EN 196-2 : 2005 Cl. 7 BS EN 196-2 : 2013 Cl. 4.4.1
	Magnesium oxide content	BS EN 196-2 : 2005 Cl. 13.13 (Reference method)
	Sulfate content (as SO ₃)	BS EN 196-2 : 1995 Cl. 8 BS EN 196-2 : 2005 Cl. 8 BS EN 196-2 : 2013 Cl. 4.4.2
	Total silica content (SiO ₂)	BS EN 196-2 : 2005 Cl. 13.9
	Pure silica content(SiO ₂)	BS EN 196-2 : 2005 Cl. 13.6
	Soluble silica content (SiO ₂)	BS EN 196-2 : 2005 Cl. 13.8

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Cement (chemical analysis) (cont'd)	Potassium oxide content	BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
	Sodium oxide content	BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
	Alkali content	BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)

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Concrete (chemical analysis)	pH value	In-house method CON-CML-PH
	Oven-dried bulk density	BS 1881 : Part 124 : 1988 Cl. 4.2
	Cement content and Aggregate/Cement ratio	BS 1881 : Part 124 : 1988 Cl. 5
	Calcium oxide content	BS 1881 : Part 124 : 2015+A1: 2021 Cl. 6 <Excluding Cl. 6.5 to Cl. 6.9>
	Cement content and Aggregate content (by CaO determination)	BS 1881 : Part 124 : 2015+A1: 2021 Cl. 6 <Excluding Cl. 6.5 to Cl. 6.8>
	Aggregate / cement ratio (based on CaO content)	BS 1881 : Part 124 : 2015+A1: 2021 Cl. 6.9
	Detection of PFA	CS 1 : 1990 Section 21.5 CS 1 : 2010 Section 21.5
	Cement and aggregate content	CS 1 : 1990 Section 21.6 CS 1 : 2010 Section 21.6
	Original water content	BS 1881 : Part 124 : 1988 Cl. 7 CS 1 : 1990 Section 21.7 CS 1 : 2010 Section 21.7
	Identification of type of aggregate	CS 1 : 1990 Section 21.9 CS 1 : 2010 Section 21.9
	Chloride ion content	BS 1881 : Part 124 : 1988 Cl. 10.2 BS 1881 : Part 124 : 2015+A1: 2021 Cl. 12.1 CS 1 : 1990 Section 21.10.2 CS 1 : 2010 Section 21.10.2
	Chloride content by weight of concrete sample	BS 1881 : Part 124 : 1988 Cl. 10.2 in conjunction with In-house method CON-BS1881-Cl (by calculation) BS 1881 : Part 124 : 2015+A1: 2021 Cl. 12.1 in conjunction with In-house method CON-BS1881(21)-CL(CAL) (by calculation) CS 1 : 1990 Section 21.10.2 in conjunction with In-house method CON-CS1(1990)-Cl (by calculation) CS 1 : 2010 Section 21.10.2 in conjunction with In-house method CON-CS1(2010)-Cl (by calculation)

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Concrete (chemical analysis) (cont'd)	Sulphate content	BS 1881 : Part 124 : 1988 Cl. 10.3 CS 1 : 1990 Section 21.10.3 CS 1 : 2010 Section 21.10.3
	Sulphate content by weight of concrete sample	BS 1881 : Part 124: 1988 Cl. 10.3 in conjunction with In-house method CON-BS1881-SO3(CAL) (by calculation) CS 1: 1990 Section 21.10.3 in conjunction with In-house method CON-CS1(1990)-SO3 (by calculation) CS 1: 2010 Section 21.10.3 in conjunction with In-house method CON-CS1(2010)-SO3 (by calculation)
	Carbonate content	CS 1 : 1990 Section 21.10.4.2 (Manometric) CS 1 : 2010 Section 21.10.4.2 (Manometric)
	Determination of chloride content in hardened concrete	BS EN 14629 : 2007 Method A

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Ground granulated blastfurnace slag (chemical analysis)	Moisture content	BS EN 15167-1 :2006 Annex A
	Loss-on-ignition (L.O.I.)	BS EN 196-2 : 2005 Cl.7 BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2013 Cl. 4.4.1
	Sulfate content (as SO ₃)	BS EN 196-2 : 2005 Cl.8 BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2013 Cl.4.4.2
	Sulfide content	BS EN 196-2 : 2005 Cl.11 BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2013 Cl.4.4.5
	Manganese content (as Mn ₂ O ₃)	BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.12
	Aluminium oxide content (Al ₂ O ₃)	BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.13.11
	Total silica content (SiO ₂)	BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.13.9
	Calcium oxide content (CaO)	BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.13.12 (Reference method)
	Magnesium oxide content (MgO)	BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2005 Cl.13.13 (Reference method)
	Chloride ion content (Cl ⁻)	BS EN 196-2 : 2005 Cl. 14 BS EN 15167-1 : 2006 Cl. 5 & BS EN 196-2 : 2013 Cl. 4.5.16
	Titanium dioxide content (TiO ₂)	BS EN 15167-1 :2006 Cl. 5.5 d & BS EN 196-2 :1995 National Annex NB
	Residue insoluble in hydrochloric acid and sodium carbonate	BS EN 196-2: 2005 Cl. 9 BS EN 196-2: 2013 Cl. 4.4.3

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Ground granulated blastfurnace slag (chemical analysis)	Potassium oxide content	BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
	Sodium oxide content	BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
	Total alkali content	BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 15167-1 :2006 Cl. 5 & BS EN 196-2 : 2013 Cl. 4.5.19 (Reference method)
Ground water (chemical analysis)	pH value	GEOSPEC 3 : 2001 Test 9.5 GEOSPEC 3 : 2017 Test 9.5
	Sulphate content	GEOSPEC 3 : 2001 Test 9.3 GEOSPEC 3 : 2017 Test 9.3

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Metallic materials (chemical analysis) Solder alloy (Tin and tin alloy) in the forms of wire, ribbon and pellet Aluminium and aluminium alloy - Aluminium and aluminium alloy (6000 series)	Elemental composition : - - Cadmium, Lead, Nickel - Bismuth, Chromium, Copper, Iron, Lead, Magnesium, Manganese, Nickel, Silicon, Titanium, Vanadium, Zinc, Zirconium	In-house method MET-SN-01 (ICP-OES) In-house Method MET-AL-02 (Spark-OES)



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Scope of Accreditation
Registration No. HOKLAS 032
Page 115 of 160
Issue Date: 4 June 2025
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Construction Materials 建築材料		
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Metallic materials (chemical analysis)	Elemental composition : -	
Copper and copper alloy		
- Copper and unalloyed copper in the form of wrought products and castings	- Copper	BS EN 16117-1: 2011 (Electrolytic deposition and ICP-OES) BS EN 16117-2: 2012 (Electrolytic deposition and ICP-OES)
- Copper and copper alloy	- Aluminium, Bismuth, Cadmium, Lead, Phosphorus, Zinc	In-house Method MET-CU-02 (ICP-OES)
- Copper and copper-based brazing material	- Silver	In-house Method MET-CU-03 (ICP-OES)
- Aluminium bronze	- Aluminium, Antimony, Arsenic, Bismuth, Chromium, Cobalt, Iron, Lead, Magnesium, Manganese, Nickel, Phosphorus, Selenium, Silicon, Tin, Zinc	In-house Method ST-MULTI-4 (Spark-OES)
	- Copper	In-house Method ST-MULTI-4 (Spark-OES)
- Brass	- Aluminium, Antimony, Arsenic, Bismuth, Chromium, Cobalt, Iron, Lead, Manganese, Nickel, Phosphorus, Selenium, Silicon, Sulfur, Tin, Zinc	In-house Method ST-MULTI-4 (Spark-OES)
	- Copper	In-house Method ST-MULTI-4 (Spark-OES)
- Gunmetal	- Aluminium, Antimony, Arsenic, Bismuth, Cobalt, Iron, Lead, Manganese, Nickel, Phosphorus, Selenium, Silicon, Sulfur, Tin, Zinc	In-house Method ST-MULTI-4 (Spark-OES)
	- Copper	In-house Method ST-MULTI-4 (Spark-OES)

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Metallic materials (chemical analysis)	Elemental composition : -	
Iron (chemical analysis)	Total carbon content	BS EN ISO 15350 : 2010 ISO 15350 : 2000
	Total sulfur content	BS EN ISO 15350 : 2010 ISO 15350 : 2000
	Nitrogen content	BS EN ISO 15351 : 2010 ISO 15351 : 1999
Steel (chemical analysis)	Elemental composition : -	
	Total carbon content	BS EN ISO 15350 : 2010 ISO 15350 : 2000
	Total sulfur content	BS EN ISO 15350 : 2010 ISO 15350 : 2000
	Nitrogen content	BS EN ISO 15351 : 2010 ISO 15351 : 1999
	Nitrogen content	ASTM E1019-08
	Niobium content	In-house Method ST-NB-1 (ICP-OES)
	- Chromium, Copper, Manganese, Molybdenum, Nickel, Phosphorus, Silicon, Titanium, Vanadium	In-house Method ST-MULTI-1 (ICP-OES)
- Low alloy steel	- Carbon, Chromium, Copper, Manganese, Molybdenum, Nitrogen, Nickel, Phosphorus, Sulphur, Vanadium	In-house Method ST-MULTI-2 (Spark-OES)
- Carbon steel	- Carbon, Chromium, Copper, Manganese, Molybdenum, Nitrogen, Nickel, Phosphorus, Sulphur, Vanadium	In-house Method ST-MULTI-2 (Spark-OES)
- Carbon and low alloy steel	Carbon Equivalent Value	In-house Method ST-CEV (By calculation)

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6/F, Techno Centre, 33 On Kui Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安居街 33 號得利中心 6 樓

Construction Materials 建築材料		
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
Polymer latex solution (chemical analysis)	Polymer solids content	HKHA Standard 002 : 1990 Cl. 2 (modified)
Polymer-modified mortar and prebagged material (chemical analysis)	Sample treatment	HKHA Standard 002 : 1990 Cl. 6 (modified)
	Calcium oxide content	HKHA Standard 002 : 1990 Cl. 7.1 (modified)
	Carbon dioxide content	HKHA Standard 002 : 1990 Cl. 7.2 (modified)
	Cement content and aggregate/cement ratio	HKHA Standard 002 : 1990 Cl. 7 (modified)
	Polymer solids content	HKHA Standard 002 : 1990 Cl. 8 (modified)

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Pulverized fuel ash (chemical analysis)	Sulphuric anhydride content (as SO ₃)	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.4 & BS EN 196-2 : 2005 Cl. 8
	Sulphate content (as SO ₃)	BS EN 450-1: 2012 Cl. 5.2.4 & BS EN 196-2 : 2005 Cl. 8
	Sulfate content (as SO ₃)	BS EN 196- 2 : 1995 Cl. 8 BS EN 196-2 : 2013 Cl. 4.4.2
	Loss-on-ignition	BS EN 196-2 : 1995 Cl. 7 (using 1h ignition time) BS EN 196-2: 2013 Cl. 4.4.1 (using 1h ignition time) BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.2 & BS EN 196-2 : 2005 Cl. 7 (using 1h ignition time) BS EN 450-1: 2012 Cl. 5.2.2 & BS EN 196-2: 2005 Cl. 7 (using 1h ignition time)
	Magnesia	BS 3892 : Part 1 : 1982 (AMD 4629) App. C
	Magnesium oxide content	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.10 & BS EN 196-2 : 2005 Cl. 13.13 (Reference method)
	Iron (III) oxide content	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.8 & BS EN 196-2 : 2005 Cl. 13.10
	Aluminium oxide content	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.8 & BS EN 196-2 : 2005 Cl. 13.11
	Total silica content (SiO ₂)	BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.8 & BS EN 196-2 : 2005 Cl. 13.9
	Calcium oxide content (CaO)	BS EN 196- 2 : 1995 Cl. 13.12 BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.6 & BS EN 196-2 : 2005 Cl. 13.12 (Reference method)
	Chloride content	BS EN 196- 21 : 1992 Cl. 4 BS EN 196-2: 2013 Cl. 4.5.16 BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.3 & BS EN 196-2 : 2005 Cl. 14 BS EN 450-1: 2012 Cl. 5.2.3 & BS EN 196-2: 2005 Cl. 14

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Pulverized fuel ash (chemical analysis)	Potassium oxide content	BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2: 2005 Cl. 17 (Reference method) BS EN 196-2: 2013 Cl. 4.5.19 (Reference method)
	Sodium oxide content	BS EN 196-21: 1992 Cl. 7 (Reference method) BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 196-2: 2013 Cl. 4.5.19 (Reference method)
	Total alkali content	BS EN 196-21 : 1992 Cl. 7 (Reference method) BS EN 196-2: 2013 Cl. 4.5.19 (Reference method) BS EN 450-1: 2005 (A1 : 2007) Cl. 5.2.9 & BS EN 196-2 : 2005 Cl. 17 (Reference method) BS EN 450-1: 2012 Cl. 5.2.9 & BS EN 196-2 : 2005 Cl. 17 (Reference method)
Portland pulverized fuel ash cement (chemical analysis)	Sulphuric anhydride content (as SO ₃)	BS EN 196-2 : 1995 Cl. 8
	Loss-on-ignition	BS 4550 : Part 2: 1970 Cl. 13.2
	Magnesia	BS 3892 : Part 1 : 1982 (Amd 4629) App. C
	Proportion of pulverized fuel ash	BS 6588 : 1985 App. A.3

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Silica fume (chemical analysis)	Dry mass content at 105°C	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.1
	Loss-on-ignition (L.O.I.)	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl.7
	Silicon dioxide content (SiO ₂)	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 13.3 & Cl. 13.6
	Sulfate content (as SO ₃)	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl. 8
	Chloride ion content (Cl ⁻)	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl.14
	Free calcium oxide content	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 451-1 : 2003
	Total alkali content	BS EN 13263-1 : 2005 (A1 : 2009) Cl. 5.2 & BS EN 196-2 : 2005 Cl.17 (Reference method)

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Soil (chemical analysis)	Total sulphate content	GEOSPEC 3 : 2001 Test 9.3 GEOSPEC 3 : 2017 Test 9.3
	Water-soluble sulphate content	GEOSPEC 3 : 2001 Test 9.3 GEOSPEC 3 : 2017 Test 9.3
	Organic matter content	GEOSPEC 3 : 2001 Test 9.1 GEOSPEC 3 : 2017 Test 9.1
	Loss-on-ignition	GEOSPEC 3 : 2001 Test 9.2 GEOSPEC 3 : 2017 Test 9.2
	Water-soluble chloride content	GEOSPEC 3 : 2001 Test 9.4 GEOSPEC 3 : 2017 Test 9.4
	pH value	GEOSPEC 3 : 2001 Test 9.5 GEOSPEC 3 : 2017 Test 9.5
	Carbonate	BS EN ISO 10693: 2014

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Water (chemical analysis)	Total solids dried at 103-105°C	In-house Method WTR-CML-TM Section 8 (Gravimetric)
	Total dissolved solid dried at 180°C	In-house Method WTR-CML-TM Section 9 (Gravimetric)
	Chloride content	In-house Method WTR-CML-TM Section 4 (Titrimetric) BS EN 1008 : 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 4
	Sulphate content	In-house Method WTR-CML-TM Section 5 (Turbidimetric) BS EN 1008 : 2002 Cl. 6.1.3 & BS EN 196-2: 1995 Cl. 8
	Alkalinity	In-house Method WTR-CML-TM Section 6 (Titrimetric)
	pH value	In-house Method WTR-CML-TM Section 7 (Electrode)
	Acid-soluble alkali content	In-house Method WTR-CML.Na-K
	Alkali content	BS EN 1008 : 2002 Cl. 6.1.3 & BS EN 196-21: 1992 Cl. 7

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Drinking water	Physical Examination : - - Colour	APHA 19e 2120B APHA 21e 2120B
Saline water	Physical Examination : - - Total suspended solids dried at 103 - 105°C Non-metallic Constituents:- - Nitrogen (Ammonia) - Nitrogen (Nitrate) - Nitrogen (Nitrite) - Nitrogen (Nitrate + Nitrite) - Phosphorus (Reactive)	APHA 23e 2540 D In-house method EN-NH3-ISE (By ion-selective electrode) In-house method EN-SEA-NH3-FIA (By FIA) In-house method EN-SEA-NO2NO3-FIA (By calculation) In-house method EN-SEA-NO2NO3-FIA (By FIA) In-house method EN-SEA-NO2NO3-FIA (By FIA) In-house method EN-SEA-OP-FIA (By FIA)

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Saline water	Organic pollutants:- - Polychlorinated Biphenyls (PCBs) : - 2,4'-Dichlorobiphenyl (PCB #8) 2,2',5'-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,2', 3,5'-Tetrachlorobiphenyl (PCB #44) 2,2', 5,5'-Tetrachlorobiphenyl (PCB #52) 2,3', 4,4'-Tetrachlorobiphenyl (PCB #66) 3,3', 4,4'-Tetrachlorobiphenyl (PCB #77) 2,2', 4,5,5'-Pentachlorobiphenyl (PCB #101) 2',3,3',4,4'-Pentachlorobiphenyl (PCB#105) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB #128) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2',3,4',5',6 -Hexachlorobiphenyl (PCB #149) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2',3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,2',3,3',4,4',5,6 -Octachlorobiphenyl (PCB #195) 2,2',3,3',4,4',5,5',6 -Nonachlorobiphenyl (PCB #206)	In-house method EN-WAT-PCB (GC/MSD)

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Saline water (cont'd)	Organic pollutants:- (cont'd) - Organochlorine pesticides: - Aldrin, Dieldrin, Endrin, Endrin aldehyde, Endosulfan I, Endosulfan II, Endosulfan sulphate, Endrin ketone, cis-Chlordane, trans-Chlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Methoxychlor, 4,4'-DDT, 4, 4'-DDE, 4,4'-DDD, Hexachlorocyclohexane isomers (alpha, beta, delta, and gamma-BHC (Lindane)) - Tributyltin - Tributyltin in interstitial water - Polycyclic Aromatic Hydrocarbons (PAHs) Naphthalene, Acenaphthylene, Acenaphthene, Anthracene, Fluorene, Phenanthrene, Fluoranthene, Pyrene, Chrysene, Benz(a)anthracene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz (a,h)anthracene, Benzo (g,h,i)perylene, Benzo(b)fluoranthene, Benzo(k)fluoranthene - Hexachlorobenzene - Phenol - Bis(2-ethylhexyl)phthalate	In-house method EN-WAT-PEST-OC (GC/MSD) In-house method EN-WAT-TBT (GC/MSD) In-house method EN-WAT-TBT (GC/MSD) In-house method EN-WAT-SVOC (GC/MSD) In-house method EN-WAT-SVOC (GC/MSD)

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Saline water (cont'd)	Trace metals:- - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc	In-house method EN-SEA-METAL-MS (ICP/MS)

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Water and wastewater	Physical examination :-	
	- Alkalinity – Total	APHA 21e 2320 B
	- Alkalinity - Phenolphthalein	APHA 21e 2320 B
	- Hardness (as CaCO ₃)	APHA 21e 2340 C
	- Total solids dried at 103 - 105°C	APHA 19e 2540 B APAH 21e 2540 B
	- Total suspended solids dried at 103 - 105°C	APHA 19e 2540 D APHA 21e 2540 D APHA 23e 2540 D
	- Total dissolved solids dried at 180°C	APHA 21e 2540 C
	- Fixed & volatile solids ignited at 550°C	APHA 21e 2540 E
	- Conductivity	APHA 19e, 2510B APHA 21e, 2510B
	- pH value	APHA 19e, 4500-H ⁺ B APHA 21e, 4500-H ⁺ B
	- Turbidity	APHA 19e, 2130B APHA 21e, 2130B
	Non-metallic Constituents:-	
	- Chloride	APHA 21e 4500-Cl ⁻ B
	- Chlorine (Total residual)	APHA 21e 4500-Cl G
	- Chlorine (Free residual)	APHA 21e 4500-Cl G
	- Dissolved oxygen	APHA 21e, 4500-O C & G
	- Fluoride	APHA 21e, 4500-F C

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Water and wastewater (cont'd)	Non-metallic Constituents:- (cont'd)	
	- Dissolved sulphide	In-house method EN-S ²⁻ -FIA (By FIA)
	- Sulphide (Total & Soluble)	APHA 21e 4500-S ²⁻ B&F
	- Sulfide (Total)	APHA 23e 4500-S ²⁻ D
	- Sulphate	APHA 21e 4500-SO ₄ ²⁻ E
	- Phosphorus (Total)	APHA 21e, 4500-P B & E
	- Phosphorus (Reactive)	APHA 21e, 4500-P E In-house method EN-OP-FIA (By FIA)
	- Nitrogen (Total)	In-house method EN-TN-FIA (By FIA)
	- Nitrogen (Total Kjeldahl)	APHA 21e, 4500-Norg B & APHA 21e, 4500-NH ₃ C In-house method EN-TKN-FIA (By FIA)
	- Nitrogen (Ammonia)	APHA 21e, 4500-NH ₃ B & D In-house method EN-NH ₃ -FIA (By FIA)
	- Organic nitrogen	In-house method EN-WAT-ON (By calculation)
	- Nitrogen (Nitrate)	APHA 21e, 4500-NO ₃ ⁻ E In-house method EN-NO ₂ NO ₃ -FIA (By Calculation)
	- Nitrogen (Nitrite)	APHA 21e, 4500-NO ₂ ⁻ B In-house method EN-NO ₂ NO ₃ -FIA (By FIA)
	- Nitrogen (Nitrate + Nitrite)	In-house method EN-NO ₂ NO ₃ -FIA (By FIA)
	- Cyanide (Total)	In-house method EN-TCN-FIA (By FIA)
	- Cyanide (Free)	In-house method EN-CN-FREE-ISE (By ion-selective electrode)

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Water and wastewater (cont'd)	Organic pollutants:-	
	- Chemical oxygen demand (COD)	APHA 19e 5220 B (Open reflux) ASTM D1252B : 2000 APHA 21e 5220 B (Open reflux)
	- Oil and grease	APHA 19e 5520 B APHA 21e 5520 B
	- Biochemical Oxygen Demand	APHA 19e 5210 B APHA 21e 5210 B
	- Total Organic Carbon	In-house method EN-WAT-TOC (NDIR)
	- Anionic surfactants (as MBAS)	APHA 21e 5540 B & C
	- Non-ionic surfactants (as CTAS)	APHA 21e 5540 B & D
	- Total surfactants (Anionic and Non-ionic)	In-house method EN-WAT-TSF (By calculation)
	- Tributyltin	In-house method EN-WAT-TBT (GC/MSD)
	- Polycyclic Aromatic Hydrocarbons (PAHs) Naphthalene, Acenaphthylene, Acenaphthene, Anthracene, Fluorene, Phenanthrene, Fluoranthene, Pyrene, Chrysene, Benz(a)anthracene, Benzo(a)pyrene, Indeno(1,2,3-cd)pyrene, Dibenz (a,h)anthracene, Benzo (g,h,i)perylene, Benzo(b)fluoranthene, Benzo(k)fluoranthene	In-house method EN-WAT-SVOC (GC/MSD)
	- Hexachlorobenzene	In-house method EN-WAT-SVOC (GC/MSD)
	- Phenol	
	- Bis(2-ethylhexyl)phthalate	

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Water and wastewater (cont'd)	Organic pollutants:- (cont'd) - Polychlorinated Biphenyls (PCBs) : - 2,4'-Dichlorobiphenyl (PCB #8) 2,2',5-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,2', 3,5'-Tetrachlorobiphenyl (PCB #44) 2,2', 5,5'-Tetrachlorobiphenyl (PCB #52) 2,3', 4,4'-Tetrachlorobiphenyl (PCB #66) 3,3', 4,4'-Tetrachlorobiphenyl (PCB #77) 2,2', 4,5,5'-Pentachlorobiphenyl (PCB #101) 2',3,3',4,4'-Pentachlorobiphenyl (PCB #105) 2,3',4,4',5-Pentachlorobiphenyl (PCB #118) 3,3',4,4',5-Pentachlorobiphenyl (PCB #126) 2,2',3,3',4,4'-Hexachlorobiphenyl (PCB #128) 2,2',3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2',3,4',5',6 -Hexachlorobiphenyl (PCB #149) 2,2',4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3',4,4',5-Hexachlorobiphenyl (PCB #156) 3,3',4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2',3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2',3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2', 3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,2',3,3',4,4',5,6 -Octachlorobiphenyl (PCB #195) 2,2',3,3',4,4',5,5',6 -Nonachlorobiphenyl (PCB #206)	In-house method EN-WAT-PCB (GC/MSD)

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Water and wastewater (cont'd)	Organic pollutants:- (cont'd)	
	- Organochlorine pesticides: - Aldrin, Dieldrin, Endrin, Endrin aldehyde, Endosulfan I, Endosulfan II, Endosulfan sulphate, Endrin ketone, cis-Chlordane, trans-Chlordane, Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Methoxychlor, 4,4'-DDT, 4, 4'-DDE, 4,4'-DDD, Hexachlorocyclohexane isomers (alpha, beta, delta, and gamma-BHC (Lindane))	In-house method EN-WAT-PEST-OC (GC/MSD)
	- Haloacetic acids: - Monochloroacetic acid, Dichloroacetic acid, Trichloroacetic acid	In-house method EN-WAT-HAA (Methylation followed by GC/ECD & GC/MSD)
	- Total Petroleum Hydrocarbons (TPHs) : - C6 – C8 C9 – C16 C17– C35	In-house method EN-WAT-TPH (Purge and Trap GC/MSD & GC/FID)
	- Volatile Organic Compounds (VOCs): - Acetone Benzene Bromodichloromethane Bromoform 2-butanone (MEK) Chlorodibromomethane Chloroform Ethylbenzene Methyl tert-butyl ether (MTBE) Methylene chloride Styrene Tetrachloroethene Trichloroethene Toluene Xylenes – Total (sum of ortho-, meta- & para-xylene)	In-house method EN-VOC-GCMS (Purge and Trap GC/MSD)

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Environmental Testing 環境測試		
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Water and wastewater (cont'd)	Metals: - (Total)	
	- Iron	APHA 19e, 3030A, 3030E and 3111B APHA 21e, 3030A, 3030E and 3111B
	Trace metals: - (Total and Soluble)	
	- Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Iron, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc Calcium, Magnesium, Potassium, Sodium	In-house method EN-WAT-METAL-OES (ICP/OES)
	- Aluminium, Antimony, Arsenic, Barium, Boron, Beryllium, Cadmium, Cobalt, Copper, Manganese, Mercury, Molybdenum, Selenium, Silver, Strontium, Thallium, Tin, Chromium, Lead, Nickel, Vanadium, Zinc, Iron	In-house method EN-WAT-METAL-MS (ICP/MS)
	- Hexavalent Chromium Cr (VI)	In-house method EN-WAT-Cr(VI) (Colorimetric)
	- Trivalent Chromium Cr (III)	In-house method EN-Cr(III)-SUB (By calculation)
	- Mercury	In-house method EN-WAT-HG-FIMS (By FIMS)

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Solids and semi-solids	Physical Examination : -	
	- Total solids dried at 103 - 105°C	APHA 21e 2540 G
	- Fixed & volatile solids ignited at 550°C	APHA 21e 2540 G
Soil	Physical Examination : -	
	- Specific electrical conductivity	BS 7755-3.4: 1995 ISO 11265: 1994
	Non-metallic Constituents:-	
	- Cyanide-Total	In-house method EN-CN-TOTAL (Colorimetric)
	- Cyanide-Free	In-house method EN-CN-FREE-COR (Colorimetric)
	- Cyanide-Free	In-house method EN-CN-FREE-ISE (By ion-selective electrode)
	- Phosphorus content	BS 7755-3.6: 1995 <Excluding the following> Sections 4.3, 5.2.1, 5.2.2, 6.3.2 & 6.4.2 ISO 11263: 1994 <Excluding the following> Sections 4.3, 5.2.1, 5.2.2, 6.3.2 & 6.4.2
	- Total nitrogen content	BS 7755-3.7: 1995 ISO 11261: 1995

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Soil (cont'd)	Trace metals: - (Acid Leachable) - Antimony, Arsenic, Barium, Cadmium, Chromium, Cobalt, Copper, Lead, Molybdenum, Manganese, Mercury, Nickel, Tin, Vanadium, Zinc - Hexavalent Chromium Cr (VI) - Trivalent Chromium Cr (III) - Cation exchange capacity (CEC) - Content of exchangeable calcium - Content of exchangeable magnesium - Content of exchangeable sodium - Content of exchangeable potassium	In-house method EN-SOIL-METAL-MS (ICP/MS) In-house method EN-SOIL-Cr(VI) (Colorimetric) In-house method EN-Cr(III)-SUB (By calculation) BS EN ISO 23470: 2018 (By spectrometric determination of cobalt by ICP-AES) <Excluding the following> Cl. 7.3.2, Cl. 7.3.3, Cl. 7.4.4, Cl. 7.4.6 BS EN ISO 23470: 2018 (By ICP-AES) <Excluding the following> Cl. 7.3, Cl. 7.4.3, Cl. 7.4.5

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Soil (cont'd)	Organic pollutants:- - Total Petroleum Hydrocarbons (TPHs) : - C6 – C8 C9 – C16 C17 – C35 Bis (2-ethylhexyl)phthalate, Hexachlorobenzene Phenol - Polycyclic Aromatic Hydrocarbons (PAHs) Naphthalene, Acenaphthylene, Acenaphthene, Anthracene, Chrysene, Fluorene, Pyrene, Fluoranthene, Phenanthrene, Benzo(a)pyrene, Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo (g,h,i)perylene, Indeno(1,2,3-cd)pyrene, Dibenz (a,h)anthracene - Volatile Organic Compounds (VOCs) : Acetone, Benzene, Bromodichloromethane, 2-butanone (MEK), Chloroform, Toluene, Methylene chloride, Ethylbenzene, Methyl tert-butyl ether (MTBE) Styrene, Tetrachloroethene, Trichloroethene, Xylenes – Total (sum of ortho-, meta- & para-xylene)	In-house method EN-SOIL-TPH (Purge and Trap GC/MSD & GC/FID) In-house method EN-SOIL-PAH (GC/MSD) In-house method EN-SOIL-PHENOL (GC/MSD) In-house method EN-SOIL-PAH (GC/MSD) In-house method EN-VOC-GCMS (Purge and Trap GC/MSD)

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Sediment	Trace metals: - - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Lead, Manganese, Mercury, Molybdenum, Nickel, Selenium, Silver, Strontium, Thallium, Tin, Vanadium, Zinc	In-house method EN-SED-METAL-MS (ICP-MS)
	Organic pollutants:- - Polycyclic Aromatic Hydrocarbons (PAHs) Naphthalene, Acenaphthylene, Acenaphthene, Anthracene, Chrysene, Fluorene, Pyrene, Fluoranthene, Phenanthrene, Benzo(a)pyrene, Benz(a)anthracene, Benzo(b)fluoranthene, Benzo(k)fluoranthene, Benzo (g,h,i)perylene, Indeno(1,2,3-cd)pyrene, Dibenz (a,h)anthracene	In-house method EN-SED-PAH (GC-MSD)

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Sediment and soil	Organic pollutants:- - Total Organic Carbon - Polychlorinated Biphenyls : - 2,4'-Dichlorobiphenyl (PCB #8) 2,2',5-Trichlorobiphenyl (PCB #18) 2,4,4'-Trichlorobiphenyl (PCB #28) 2,2', 3,5'-Tetrachlorobiphenyl (PCB #44) 2,2', 5,5'-Tetrachlorobiphenyl (PCB #52) 2,3', 4,4'-Tetrachlorobiphenyl (PCB #66) 3,3', 4,4'-Tetrachlorobiphenyl (PCB #77) 2,2', 4,5,5'-Pentachlorobiphenyl (PCB #101) 2',3,3', 4,4'-Pentachlorobiphenyl (PCB #105) 2,3', 4,4',5-Pentachlorobiphenyl (PCB #118) 3,3', 4,4',5-Pentachlorobiphenyl (PCB #126) 2,2', 3,3',4,4'-Hexachlorobiphenyl (PCB #128) 2,2', 3,4,4',5'-Hexachlorobiphenyl (PCB #138) 2,2', 3,4',5',6-Hexachlorobiphenyl (PCB #149) 2,2', 4,4',5,5'-Hexachlorobiphenyl (PCB #153) 2,3,3', 4,4',5-Hexachlorobiphenyl (PCB #156) 3,3', 4,4',5,5'-Hexachlorobiphenyl (PCB #169) 2,2', 3,3',4,4',5-Heptachlorobiphenyl (PCB #170) 2,2', 3,4,4',5,5'-Heptachlorobiphenyl (PCB #180) 2,2', 3,4',5,5',6-Heptachlorobiphenyl (PCB #187) 2,2',3,3',4,4',5,6-Octachlorobiphenyl (PCB #195) 2,2',3,3',4,4',5,5',6-Nonachlorobiphenyl (PCB #206)	In-house method EN-SOLID-TOC (NDIR) In-house method EN-SOIL-PCB (GC/MSD)
Sediment and soil, ash and the mixture of the above	TCLP Metals: - (Total Characteristics Leaching Procedures) - Extraction procedure - Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Copper, Lead, Mercury, Nickel, Selenium, Silver, Thallium, Tin, Vanadium, Zinc, Manganese, Cobalt, Molybdenum	USEPA SW846 Method 1311 (EN-TCLP-EXT) In-house method EN-SOIL-TCLP-OES (ICP/OES) In-house method EN-SOIL-TCLP-MS (ICP/MS)

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Sediment	Toxicity Tests: -	
	10-D Amphipod Survival Test - <i>Leptocheirus plumulosus</i>	USEPA 600/R-94/025 June 1994 Test Method 100.4
	20-D Polychaete Growth and Survival Test - <i>Neanthes arenaceodentata</i>	Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995
	48-60 Hour Bivalve Larvae Survival and Normality Test - <i>Mytilus galloprovincialis</i>	Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995 (with modification)
	48-60 Hour Bivalve Larvae Survival and Normality Test - <i>Crassostrea gigas</i>	Recommended Guidelines for Conducting Laboratory Bioassays on Puget Sound Sediments, PSEP, July 1995

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Drinking water, Water and Wastewater	Microbiological examinations:- - Total coliform count - Faecal coliform count - <i>E. coli</i> count	DoE, The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Method: Section 7.8, 7.9.4.1; Bacterial Confirmation : Section 7.9.4.3) DoE, The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Method: Section 7.8, 7.9.4.2; Bacterial Confirmation : Section 7.7.6.3) DoE, The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Method : Section 7.8, 7.9.4.2; Bacterial Confirmation : Section 7.9.4.4)
Water and Wastewater	- <i>E. coli</i> count - Heterotrophic Plate count	DoE, The Bacteriological Examination of Drinking Water Supplies, 1982 (Membrane Filtration Method : Section 7.8, 7.9.4.2; Bacterial Confirmation : in situ urease test) APHA (1995) 19e, 9215B
Water and Wastewater including water source from Bathing bleach, marine, river, contaminated water source and Storm drain	- Enumeration of Faecal Coliform - Enumeration of <i>E. coli</i>	Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK (EM019) Environmental Microbiology Laboratory Test Method Manual TM09/EC/10/98 Issue 3 Environmental Protection Department, HK (EM019)

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Water, Wastewater and Cooling Tower Water	Microbiological examinations:- - <i>Legionella</i> spp. including <i>Legionella pneumophila</i>	AS/NZS 3896:1998
Drinking water	- <i>Legionella</i> spp. including <i>Legionella pneumophila</i>	ISO 11731-2:2004
Treated bathing water	- <i>Legionella</i> spp. including <i>Legionella pneumophila</i>	ISO 11731-2:2004

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Indoor Air Quality Testing	Extractable components collected in passive samplers:- - Formaldehyde - Nitrogen dioxide Microbiological examinations:-	In-house method EN-IAQ-HCHO (HPLC/DAD) In-house method EN-IAQ-NO2 (UV Spectrophotometer)
Collectate sampled by Biotest Air Sampler RCS HF	Airborne bacteria count (number of colonies on agar strip) (30 °C for 2 days)	In-house method MB-AIR-BACTERIA
Collectate sampled by Single-stage N6 Andersen impactor	Airborne bacteria count (number of colonies & corrected number of colonies on agar plate) (30 °C for 2 days)	In-house method MB-AIR-BACTERIA
Collectate sampled by Microbio Air Sampler MB2	Airborne bacteria count (number of colonies on agar plate) (30 °C for 2 days)	In-house method MB-AIR-BACTERIA
Collectate sample on agar plate	Airborne bacteria count (number of colonies on agar plate) (30 °C for 2 days)	In-house method MB-AIR-BACTERIA

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Food 食品		
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Meat	Chemical composition : - - Ash - Moisture content - Protein (Crude)	ISO 936:1998 ISO 1442:1997 AOAC Official Methods, 981.10 (2005) (Kjeldahl Method)
General foodstuff	- Sodium - Calcium and iron - Total ash at 550°C - Moisture content - Protein - Total Dietary fibre - Sugars: - glucose, galactose, fructose, sucrose, maltose, lactose - Cholesterol - Total fat	In-house method FD-FOOD-SOD (ICP-AES) In-house method FD-FOOD-BORIC-CA-FE (ICP-OES) In-house method FD-FOOD-ASH (Gravimetric method) GB5009.3—2010 (Direct drying method and Distillation method) In-house method FD-FOOD-PRO (Kjeldahl Method) AOAC Official Method 985.29 (2005) (Enzymatic-gravimetric method) In-house method FD-FOOD-SUG (HPLC-RI) AOAC Official Method 994.10 (2005) (GC-FID) In-house method FD-FOOD-FAT (Acid hydrolysis method)

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General foodstuff	Chemical composition : - (cont'd) - Saturated fatty acids (C_{4:0}, C_{6:0}, C_{8:0}, C_{10:0}, C_{12:0}, C_{14:0}, C_{15:0}, C_{16:0}, C_{17:0}, C_{18:0}, C_{20:0}, C_{22:0}, C_{24:0}) - Trans fatty acids (C_{14:1T}(9-<i>trans</i>), C_{16:1T}(9-<i>trans</i>), C_{18:1T}(total), C_{18:2TT}(9,12-<i>trans</i>), C_{18:2T}(9-<i>cis</i>,12-<i>trans</i>), C_{18:2T}(9- <i>trans</i>,12-<i>cis</i>), C_{20:1T}(11-<i>trans</i>), C_{22:1T}(13-<i>trans</i>)) - Unsaturated fatty acids (C_{14:1}(9-<i>cis</i>), C_{15:1}(10-<i>cis</i>), C_{16:1}(9-<i>cis</i>), C_{17:1}(10-<i>cis</i>), C_{18:1}(9-<i>cis</i>), C_{18:2}(9,12-<i>cis</i>), C_{18:3}(9-<i>cis</i>,12-<i>cis</i>, 15-<i>cis</i>), C_{20:1}(11-<i>cis</i>), C_{20:2}(11-<i>cis</i>,14-<i>cis</i>), C_{20:3}(11-<i>cis</i>,14-<i>cis</i>, 17-<i>cis</i>), C_{20:4}(5-<i>cis</i>,8-<i>cis</i>, 11-<i>cis</i>, 14-<i>cis</i>), C_{22:2}(13-<i>cis</i>, 16-<i>cis</i>), C_{20:5}(5-<i>cis</i>,8-<i>cis</i>, 11-<i>cis</i>, 14-<i>cis</i>, 17-<i>cis</i>), C_{22:5}(7-<i>cis</i>,10-<i>cis</i>, 13-<i>cis</i>, 16-<i>cis</i>, 19-<i>cis</i>), C_{22:6}(4-<i>cis</i>,7-<i>cis</i>, 10-<i>cis</i>, 13-<i>cis</i>, 16-<i>cis</i>, 19-<i>cis</i>)) - Total lipid fatty acid (as triglycerides)	AOAC Official Method 996.06 (2010) (Hydrolytic extraction gas chromatography) AOAC Official Method 996.06 (2010) (Hydrolytic extraction gas chromatography) AOAC Official Method 996.06 (2010) (Hydrolytic extraction gas chromatography) In-house method FD-FOOD-TGI (By calculation)
General foodstuff (excluding food containing ethanol and organic acid)	- Energy - Carbohydrate	In-house method FD-FOOD-ENERGY (By calculation) In-house method FD-FOOD-CARBO (By calculation)
Flour confectionary	Preservatives:- - Propionic acid	In-house method FD-FOOD-PROP (GC-MS)

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General foodstuff	Preservatives:-	
	- Benzoic acid and Sorbic acid	In-house method FD-FOOD-BEN&SOR (HPLC-DAD)
	- Benzoic acid, Sorbic acid, Salicylic acid, Methyl para-hydroxybenzoate, Ethyl para-hydroxybenzoate, Propyl para-hydroxybenzoate	In-house method FD-FOOD-6PREV (HPLC-DAD)
	- Sulphur Dioxide	In-house method FD-FOOD-SO2-SCREENING (Screening) AOAC Official Method 990.28 (2005) (Quantitative)
	- Boric acid	In-house method FD-FOOD-BORIC-CA-FE (ICP-OES)
	Trace metals: -	
	- Antimony, Arsenic, Cadmium, Chromium, Lead, Mercury, Tin	In-house method FD-FOOD-METAL (ICP-MS)
	Contaminants :-	
	- Melamine	In-house method FD-FOOD-MEL (LC-MS-MS)
	Colouring matters: -	
	- Sudan I, Sudan II, Sudan III, Sudan IV, Sudan Orange G, Dimethyl yellow, Sudan Red 7B	In-house method FD-FOOD-SUDAN (LC/MS/MS)

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Meat and aquatic products	Veterinary drug residue:- - Chloramphenicol	In-house method FD-FOOD-CAP-MEAT-AQU (LC/MS/MS)
Aquatic products	- Malachite green and Leucomalachite green	In-house method FD-FOOD-MG (LC/MS/MS)
Oils, nuts and cereals	Mycotoxins: - - Aflatoxins B ₁ , B ₂ , G ₁ , G ₂	In-house method FD-FOOD-AFLA (HPLC-FLD) In-house method FD-FOOD-AFLA-MS (confirmation test: LC/MS/MS)
Fruit and Vegetables	Trace metals: - - Lead, Mercury	In-house method FD-FOOD-METAL-VEG (ICP-MS)

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Fruit and Vegetables	Pesticide residues:- - Organochlorine pesticides: Aldrin, trans-Chlordane, cis-Chlordane, Oxychlordane, Dieldrin, Endrin, Endrin ketone (delta-keto-endrin), Heptachlor, Heptachlor epoxide, Hexachlorobenzene, Hexachlorocyclohexane isomers (alpha-, beta- and delta-BHC), Lindane, 2,4'-DDT, 4,4'-DDT, 2,4'-DDE, 4,4'-DDE, 2,4'-DDD, 4,4'-DDD, Quintozene (pentachloronitrobenzene), Pentachloroaniline, Methyl pentachlorophenyl sulphide Chlorothalonil, Chlorfenapyr, Dichlobenil, 2,6-dichlorobenzamide, o,p' - Dicofol, p,p' - Dicofol, Endosulfan I, Endosulfan II, Endosulfan sulphate, Procymidone, Trifluralin	In-house method FD-PEST-OCP1 (Screening and quantitative by GC-MS/MS)

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Food 食品		
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
Fruit and Vegetables	Pesticides residues : (cont'd) - Pyrethroid pesticides:- Bifenthrin, Cyfluthrins, Cypermethrins, Deltamethrin, Fenvalerate, Esfenvalerate, Fenpropathrin, Flucythrinate, Permethrins	In-house method FD-PEST-PY (Screening and quantitative by GC/MS/MS)

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Food 食品		
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
Fruit and Vegetables	Pesticides residues : (cont'd)	
	- Dimethipin, - Fipronil, - Folpet, - Benfluralin, - Chlorethoxyfos, - Dicloran, - Ethalfuralin, - Tecnazene - Organophosphorus pesticides :-	In-house method FD-PEST-GEN-GC (Screening and quantitative by GC-MS/MS) In-house method FD-PEST-GEN-GC1 (Screening and quantitative by GC-MS/MS)
Fruit and Vegetables <i><Excluding the following></i> Garlic, onion, spring onion, leek and chives	Cadusafos, Chlorpyrifos, Demeton-S-methyl, Demeton-S-methylsulfone, Oxydemeton-methyl, Diazinon, Dimethoate, Ethion, Fenitrothion, Fenthion, Fenthion sulphoxide, Fenthion sulfone, Fenthion oxon, Fenamiphos, Fenamiphos sulfoxide, Fenamiphos sulfone, Isocarbophos, Isofenphos-methyl, Methamidophos, Naled, Omethoate, Parathion-methyl, Parathion-ethyl, Phorate, Phorate sulfoxide, Phorate sulfone, Phorate oxon, Quinalphos, Vamidothion	In-house methods FD-PEST-OPP1 (Screening and quantitative by LC/MS/MS)

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Food 食品		
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
Fruit and Vegetables <i><Excluding the following></i> Garlic, onion, spring onion, leek and chives	Pesticides residues :- (cont'd) - Carbamates: - Aldicarb sulfoxide, Benfuracarb, Carbaryl, Carbofuran, 3-hydroxycarbofuran, Carbosulfan, Methiocarb, Methiocarb sulphoxide, Methiocarb sulphone, Methomyl, Oxamyl, Oxamyl oxime, Pirimicarb, Thiodicarb	In-house method FD-PEST-CB (Screening and quantitative by LC/MS/MS)
	- Triazoles: - Difenoconazole, Diniconazole, Flusilazole, Tebuconazole	In-house method FD-PEST-TRIA (Screenng and quantitative by LC/MS/MS)

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Food 食品		
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Fruit and Vegetables <i><Excluding the following></i> Garlic, onion, spring onion, leek and chives	Pesticide residues:- (cont'd) - Acetamiprid, Ametryn, Clomazone, Cymoxanil, Diphenylamine, Dodine, Ethoxyquin, Fenpyroximate, Fomesafen, Semiamitraz, Thiamethoxam	In-house method FD-PEST-GEN-LC (Screening and quantitative by LC-MS/MS)
	- Aldicarb, Aldicarb sulfone Cyhalothrin (sum of isomers), Fenthion-oxon-sulfoxide, Fenthion-oxon-sulfone, Phorate-oxon-sulfoxide, Phorate-oxon-sulfone, Pyrethrins (sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I and pyrethrin II), Quizalofop,	In-house method FD-PEST-GEN-LC1 (Screening and quantitative by LC/MS/MS)

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Food 食品		
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Fruit and Vegetables <i><Excluding the following></i> Garlic, onion, spring onion, leek and chives	Pesticides residues : (cont'd) - Acephate, Atrazine, Atrazine-desethyl-desisopropyl, Atrazine-desisopropyl, Benalaxyl, Bitertanol, Bromopropylate, Chlorimuron ethyl, Chlorpropham, Chlorpyrifos methyl, Cyprodinil, Dichlorvos, Diflubenzuron, Dimethomorph, Etofenprox, Fenarimol, Fenbuconazole, Fenhexamid, Fenpropimorph, Fluazinam, Flumioxazin, Fluopicolide, Fluvalinate, Fosthiazate, Halosulfuron methyl, Kresoxim methyl, Lactofen, Mandipropamid, Methoxyfenozide, Novaluron, Propamocarb, Propargite, Pymetrozine, Quinoxifen, Tebufenozide, Tolclofos methyl, Trifloxystrobin, Zoxamide	In-house method FD-PEST-GEN-LC2 (Screening and quantitative by LC/MS/MS)

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Food 食品		
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
Fruit and Vegetables	Pesticide residues:- (cont'd) - Organochlorine pesticides:-- - Chlordane (sum of trans-Chlordane and cis-Chlordane) - DDT (sum of 2,4'-DDT, 4,4'-DDT, 4,4'-DDE and 4,4'-DDD) - Dichlobenil (sum of dichlobenil and 2,6-dichlorobenzamide) - Dicofol (sum of o,p'- dicofol and p,p'- dicofol) - Endosulfan (sum of endosulfan I, endosulfan II and endosulfan sulphate) - Endrin (sum of endrin and delta-keto-endrin) - Heptachlor (sum of heptachlor epoxide and heptachlor) - Hexachlorocyclohexane (HCH) (sum of alpha-HCH (alpha-BHC), beta-BHC (beta- HCH), delta-HCH (delta-BHC) and gamma-HCH (gamma-BHC (Lindane)) - Carbamates: - - Aldicarb (sum of aldicarb, aldicarb sulfoxide and aldicarb sulphone, expressed as aldicarb) - Carbofuran (sum of carbofuran and 3-hydroxycarbofuran, expressed as carbofuran)	In-house method FD-PEST-CAL (By calculation)

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Food 食品		
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
Fruit and Vegetables <Excluding the following> Garlic, onion, spring onion, leek and chives	Pesticides residues :- (cont'd) - Organophosphorus pesticides :- - Oxydemeton-methyl (sum of oxydemeton-methyl, demeton- S-methyl, demeton- S-methylsulfone, expressed as oxydemeton-methyl) - Fenamiphos (sum of fenamiphos, fenamiphos sulfoxide and fenamiphos sulfone, expressed as fenamiphos) - Fenthion (sum of fenthion, fenthion sulfone, fenthion sulfoxide, fenthion oxon, fenthion-oxon sulfone and fenthion-oxon sulfoxide, expressed as fenthion) - Naled (sum of naled and dichlorvos, expressed as naled) - Phorate (sum of phorate, phorate sulfoxide, phorate sulfone, phorate oxon, phorate-oxon-sulfone and phorate-oxon-sulfoxide, expressed as phorate) - Carbamates: - - Benfuracarb (sum of benfuracarb, carbofuran and 3-hydroxycarbofuran, expressed as carbofuran) - Methiocarb (sum of methiocarb, methiocarb sulphoxide and methiocarb sulphone, expressed as methiocarb) - Methomyl (sum of methomyl and thiodicarb, expressed as methomyl) - Oxamyl (sum of oxamyl and oxamyl oxime, expressed as oxamyl) - Pyrethrins (sum of cinerin I, cinerin II, jasmolin I, jasmolin II, pyrethrin I and pyrethrin II) - Quizalofop-ethyl (sum of quizalofop-ethyl and quizalofop, expressed as quizalofop-p-ethyl)	In-house method FD-PEST-CAL (By calculation) (cont'd)

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Food 食品		
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
General foodstuff	Microbiological examinations:-	
	- Coliform count	AOAC Official Methods, 991.14, 2005 (Petrifilm)
	- <i>E. coli</i> count	AOAC Official Methods, 991.14, 2005 (Petrifilm)
	- Aerobic Plate count	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 3, January 2001 (Conventional Plate Count Method)
	- Mold and yeast (total) counts	US FDA Bacteriological Analytical Manual Online (BAM online), Ch. 18, January 2001 (Conventional Plate Count Method)
Selected Meats, Seafood and Poultry	- <i>Salmonella</i>	US FDA Bacteriological Analytical Manual Online(BAM online), Ch. 5 December 2007
	- <i>Staphylococcus aureus</i> count	AOAC Official Methods 2003.11 (2005) (By 3M Petrifilm Method)
Selected Dairy Foods	- <i>Staphylococcus aureus</i> count	AOAC Official Methods 2003.08 (2005) (By 3M Petrifilm Method)
Selected Types of Processed and Prepared Foods	- <i>Staphylococcus aureus</i> count	AOAC Official Methods 2003.07 (2005) (By 3M Petrifilm Method)



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Miscellaneous 雜類		
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Diesel fuel containing $\leq 0.025\%$ (w/w) of lead	Sulfur	ASTM D2622-16 <Excluding the following> Cl. 5.2, Cl. 5.3 & Cl. 8.1
Diesel fuel	Sulfur	ISO 20884-2011 <Excluding the following> Cl. 4.3, Cl. 6 & Cl. 7.1 para. 2

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Pharmaceutical Products 藥物		
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
Paracetamol Tablets	Physical and Chemical tests: - a. Identification (Test A, FTIR) b. Assay	British Pharmacopoeia 2012 (BP2012)
Active pharmaceutical ingredient and pharmaceutical products	Toxic elements: - - Arsenic, Cadmium, Lead and Mercury	In-house method FD-PP-HM-1 (by ICP-MS)
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological examinations:- Microbiological quality	European Pharmacopoeia 8.0 edition (2014) Ch. 5.1.4 (Microbiological Quality of Non-sterile Pharmaceutical Preparations and Substances for Pharmaceutical Use
	- Microbial enumeration test	European Pharmacopoeia 8.0 edition (2014) Ch. 2.6.12
	- Test for specified microorganisms	European Pharmacopoeia 8.0 edition (2014) Ch. 2.6.13
Non-sterile pharmaceutical preparations and substances for pharmaceutical use	Microbiological quality	United States Pharmacopoeia (2014) Second Supplement (USP<111>37th edition)
	- Microbial enumeration test	United States Pharmacopoeia (2014) Second Supplement (USP<61>37th edition)
	- Test for specified microorganisms	United States Pharmacopoeia (2014) General Ch. (USP<62>37th edition)

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Physical and Mechanical Testing 物理及機械測試		
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Activated carbon - Activated carbon granules	Determination of apparent density Determination of particale size distribution Determination of moisture content by oven drying test method Determination of the ball-pan hardness number	ASTM D2854-09 (reapproved 2019) ASTM D2862-16 <Excluding the following> Section 6 ASTM D2867-17 <Excluding the following> Section 10, 11, 12, 13, 14 and 15 ASTM D3802-16 <Excluding the following> Section 7

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Construction Materials 建築材料		
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
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: 1989 CS3: 2013 Section 11
	Elongation index	BS 812: Section 105.2: 1990 CS3: 2013 Section 12
	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. 9195 & 10379 CS3: 2013 Section 17
	Moisture content	BS 812: Part 109: 1990 (by oven drying method) CS3: 2013 Section 18 (by oven drying method)
	Clay, silt and dust content	BS 812: Part 1: 1975 + Amd. 4875 & 6587 (by decantation method)
	Shell content in coarse aggregates	BS 812: Part 106: 1985

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Concrete	Sampling fresh concrete on site	CS1: 2010 Section 1 + Amd. 1/2017
	Slump of fresh concrete	CS1: 2010 Section 2 Part I + Amd. 1/2017
	Flow table test	CS1: 2010 Section 2 Part IV
	Density of compacted fresh concrete	CS1: 2010 Section 5
	Making test cubes from fresh concrete	CS1: 2010 Section 7
	Mixing and sampling of fresh concrete	CS1: 2010 Section 11
	Curing of test specimens (Tropical zone temperature)	CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 20 kN - 2000 kN	CS1: 2010 + Amd. 1/2013 Section 12
	Compressive strength of concrete cores in the force range 20 kN – 2000 kN	CS1: 2010 Section 15 + Amd. 1/2013
Metallic materials	Density of hardened concrete	CS1: 2010 Section 16
	Bond property of steel reinforcing bars by surface geometry measurement	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.7.2
	Mass per meter of steel reinforcing bars	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.2
	Rebend test of reinforcing bars for reinforcement of concrete	CS2: 2012 (Rev. 6) Cl. 6.1 & 6.5
	Tensile test of reinforcing bars for reinforcement of concrete in the force range 10 kN – 1000 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B BS EN ISO 6892-1: 2016 Cl. 10.3.3 Method B BS EN ISO 6892-1: 2019 Cl. 10.3.3 Method B in conjunction with the following specification(s): CS2: 2012 (Rev. 6) Cl. 6.1 & 6.4



Scope of Accreditation
Registration No. HOKLAS 032
Page 160 of 160
Issue Date: 4 June 2025
Ref: HOKLAS032-346

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Summary of Voluntary Suspension

.vs. denotes test for which accreditation has been voluntarily suspended with effect from 25 January 2025
(Notification Letter No. HOKLAS032-340).