

Contact Details Registration No. HOKLAS 021 Page 1 of 1

Stanger Asia Limited

史達嘉亞洲有限公司

ADDRESS : Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,

28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong

香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室

及7樓705-706室

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CLIENTELE: Public服務對象公眾

Contact details last updated on: 13 July 2021



Stanger Asia Limited 史達嘉亞洲有限公司

ADDRESS

地址

: Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building, **Main Laboratory**

28 On Lok Mun Street, On Lok Tsuen, Fanling, New Territories, Hong Kong 香港新界粉嶺安樂村安樂門街 28 號福成商業大廈 5 樓 503 - 504 室

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及7樓705-706室

: DD 83 Lot 549, 553, 556 Sha Tau Kok Road, Fanling, New Territories, Hong Kong **Branch Laboratory**

香港新界粉嶺沙頭角公路 83 區 549,553 及 556 地段

ACCREDITED TEST

CATEGORIES 認可測試類別

: Calibration Services 校正服務 Construction Materials 建築材料



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Stanger Asia Limited

史達嘉亞洲有限公司

Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,

Calibration Services 校正服務		
ITEM TESTED OR MEASURED 測試或量度項目	SPECIFIC TEST OR PROPERTY MEASURED [@] 特定測試或量度的特性 [@]	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
Construction materials testing equipment		
- Compacting bar	Verification for following parameters in accordance with in-house procedure CAL120 for requirements in CS 1: 1990: Vol. 1 (Amd. 1102) App. A9, or CS 1: 2010: Vol. 1 App. A10	
	Dimensions of ramming face: 25 mm x 25 mm Length: 380 mm Mass: 1.8 kg	0.06 mm 0.67 mm 0.7 g
- Concrete test cube mould	Verification for following parameters in accordance with in-house procedure CAL006 for requirements in CS 1: 1990: Vol. 1 App. A21 (excluding surface texture measurement), or CS 1: 2010: Vol. 1 App. A25	
	Dimensions: 100 mm or 150 mm Thickness of base plate: minimum 10 mm Flatness: not more than 0.03 mm or 0.06 mm Squareness / Perpendicularity: 0.5 mm Parallelism: 1 mm	0.06 mm 0.06 mm 0.01 mm 0.02 mm 0.09 mm
- Curing tank	On-site verification for following parameter in accordance with in-house procedure CAL096H for requirements in CS1: 1990: Vol. 1 App. A24, or CS1: 2010: Vol. 1 App. A28 - temperature distribution at a range of	0.5 °C
	(27 ± 3) °C On-site verification for following parameter in accordance with in-house procedure CAL095H for requirements in CS1: 1990: Vol. 1 App. A24, or CS1: 2010: Vol. 1 App. A28	
	- efficiency of circulation	33 s

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



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Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,

Calibration Services 校正服務		
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Construction materials testing equipment (cont'd)		
- Slump cone	Verification for following parameters in accordance with in-house procedure CAL014 for requirements in CS1: 1990 Vol. 1 (AMD 1102) App. A4, or CS1: 2010 Vol. 1 App. A5	
	Internal diameter of base: 200 mm Internal diameter of top: 100 mm Height: 300 mm Wall thickness: minimum 1.5 mm	0.20 mm 0.20 mm 0.70 mm 0.05 mm
- Tamping rod	Verification for following parameters in accordance with in-house procedure CAL014 for requirements in CS1: 1990 Vol. 1 (AMD 1102) App. A5, or CS1: 2010 Vol. 1 App. A6	
	Diameter: 16 mm Length: 600 mm	0.05 mm 0.70 mm

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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*
Length and related quantities		
- Length		
- Caliper	Calibration for length in accordance with in-house procedure CAL-2004 over the following range :	
	1 mm to 300 mm	0.02 mm
- Dial gauge (bezel diameter: 25 mm - 75 mm)	Calibration for length in accordance with AS 2103: 1978 Cl. 2.4.4 and App. A5 over the following range:	
	0.01 mm to 13 mm above 13 mm to 25 mm above 25 mm to 50 mm above 50 mm to 80 mm above 80 mm to 100 mm	5.0 μm 5.8 μm 5.9 μm 6.0 μm 6.1 μm
- Dial gauge (bezel diameter: 47.6 mm - 63.5 mm)	Calibration for length in accordance with BS 907: 2008 + Corr 1: 2009 Annex B3 over the following range :	
	0.01 mm to 13 mm above 13 mm to 25 mm above 25 mm to 50 mm above 50 mm to 80 mm above 80 mm to 100 mm	5.0 μm 5.8 μm 5.9 μm 6.0 μm 6.1 μm
- Dial gauge (bezel diameter: 28 mm - 115 mm)	Calibration for length in accordance with BS EN ISO 463: 2006 Annex C over the following range:	
	0.01 mm to 13 mm above 13 mm to 25 mm above 25 mm to 50 mm above 50 mm to 80 mm above 80 mm to 100 mm	5.0 μm 5.8 μm 5.9 μm 6.0 μm 6.1 μm

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Rooms 503 - 504, 5/F. & 705 - 706, 7/F., Fuk Shing Commercial Building,

SPECIFIC TEST OR PROPERTY MEASURED [®] 特定測試或量度的特性 [®] 特定測試或量度的特性 [®] ibration for length in accordance with S B 7503: 2017 Annex JA Table JA.1 ased on English version provided by JSA July 2017), without checking measuring force, er the following range: 101 mm to 13 mm ove 13 mm to 25 mm ove 25 mm to 50 mm	CALIBRATION AND MEASUREMENT CAPABILITY (CMC)* 校準和測量能力*
S B 7503: 2017 Annex JA Table JA.1 ased on English version provided by JSA July 2017), without checking measuring force, er the following range: O1 mm to 13 mm ove 13 mm to 25 mm ove 25 mm to 50 mm	5.0 um
S B 7503: 2017 Annex JA Table JA.1 ased on English version provided by JSA July 2017), without checking measuring force, er the following range: O1 mm to 13 mm ove 13 mm to 25 mm ove 25 mm to 50 mm	5.0 um
S B 7503: 2017 Annex JA Table JA.1 ased on English version provided by JSA July 2017), without checking measuring force, er the following range: O1 mm to 13 mm ove 13 mm to 25 mm ove 25 mm to 50 mm	5.0 um
ove 13 mm to 25 mm ove 25 mm to 50 mm	5.0 um
ove 50 mm to 80 mm ove 80 mm to 100 mm	5.8 μm 5.9 μm 6.0 μm 6.1 μm
ibration for length in accordance with house procedure CAL-2001 both increasing and decreasing increment customer specified calibration points er the following range:	
O1 mm to 13 mm ove 13 mm to 25 mm ove 25 mm to 50 mm ove 50 mm to 80 mm ove 80 mm to 100 mm	5.0 μm 5.8 μm 5.9 μm 6.0 μm 6.1 μm
ibration for length in accordance with house procedure CAL-2002 increasing increment at customer specified libration points over the following range:	
01 mm to 13 mm ove 13 mm to 25 mm ove 25 mm to 50 mm ove 50 mm to 80 mm ove 80 mm to 100 mm	5.0 μm 5.8 μm 5.9 μm 6.0 μm 6.1 μm
	ove 25 mm to 50 mm ove 50 mm to 80 mm ove 80 mm to 100 mm dibration for length in accordance with thouse procedure CAL-2002 increasing increment at customer specified libration points over the following range: 101 mm to 13 mm ove 13 mm to 25 mm ove 25 mm to 50 mm ove 50 mm to 80 mm

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Calibration Services 校正服務		
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Length and related quantities		
- Length		
- Digital indicator	Calibration for length in accordance with GEOSPEC 3: 2001 App. A.3.4.2 over the following ranges :	
	0.01 mm to 13 mm above 13 mm to 50 mm	1.5 μm 5.1 μm
	Calibration for length in accordance with in-house method CAL310-1 over the following ranges :	
	0.01 mm to 13 mm above 13 mm to 50 mm	1.5 μm 5.1 μm
- Dip Meter	Calibration for length in accordance with in-house procedure CAL-2006 over the following range:	
	1 m to 200 m	2.4 mm per 5 m
- Engineer's steel measuring rule	Calibration for length in accordance with in-house procedure CAL-2003 over the following ranges :	
	200 mm to 1000 mm	0.4 mm
- Linear displacement transducer (LVDT)	Calibration for length in accordance with GEOSPEC 3: 2001 App. A.3.4.2 over the following range :	
	0.01 mm to 100 mm	0.008 mm

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Length and related quantities		
- Length		
- Measuring tape	Calibration for length in accordance with in-house procedure CAL-2005 over the following range: 1 m to 200 m	1.7 mm per 5 m
	1 iii to 200 iii	1.7 mm per 3 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 quantities		
- Force		
- Load cell	Calibration for compressive force in accordance with in-house method CAL1006 over the following ranges :	
	1 kN to 120 kN above 120 kN to 520 kN	1.0 % of reading 0.7 % of reading
	Calibration for compressive force In accordance with GEOPEC 3: 2001 App. A.3.1 over the following ranges:	
	1 kN to 120 kN above 120 kN to 500 kN	1.0 % of reading 0.7 % of reading
	Calibration for compressive force in accordance with in-house method CAL1007-1 over the following ranges :	
	1 kN to 120 kN above 120 kN to 500 kN	1.0 % of reading 0.7 % of reading

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Calibration Services 校正服務		
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Mass and related quantities (cont'd)		
- Force (cont'd)		
- Proving ring	Calibration for compressive force in accordance with GEOSPEC 3: 2001 App. A.3.1 over the following ranges :	
	1 kN to 2 kN above 2 kN to 10 kN above 10 kN to 50 kN	0.9 % of reading 0.5 % of reading 0.8 % of reading
	Calibration for compressive force in accordance with in-house method CAL1007-1 over the following ranges :	
	1 kN to 2 kN above 2 kN to 10 kN above 10 kN to 50 kN	0.9 % of reading 0.5 % of reading 0.8 % of reading
- Pull-off equipment	Calibration for tensile force in accordance with in-house method CAL1002 over the following ranges :	
	1 kN to 2 kN above 2 kN to 4 kN above 4 kN to 10 kN	1.2 % of reading 0.7 % of reading 0.4 % of reading

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Calibration Services 校正服務		
TON AND MEASUREMENT PABILITY (CMC)* 交準和測量能力*		

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Calibration Services 校正服務		
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Mass and related quantities (cont'd)		
- Mass		
- Electronic balance	Calibration for mass using following OIML Class standard weights (1) Class F1 weights from 1 g to 10 kg (2) Class F2 weights of 20 kg in accordance with in-house method CAL 001 over the following ranges: 1 g to 200 g above 200 g to 600 g above 600 g to 3 kg above 3 kg to 10 kg above 10 kg to 60 kg above 60 kg to 70 kg On-site calibration for mass using following	0.8 mg 2.4 mg 9.8 mg 46 mg 0.81 g 5.7 g
	OIML Class standard weights (1) Class F1 weights from 1 g to 10 kg (2) Class F2 weights of 20 kg in accordance with in-house method CAL 001 over the following ranges:	
	1 g to 200 g above 200 g to 600 g above 600 g to 3 kg above 3 kg to 10 kg above 10 kg to 60 kg above 60 kg to 70 kg	0.8 mg 2.4 mg 9.8 mg 46 mg 0.81 g 5.7 g

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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
Concrete (chemical analysis)	Chloride content	BS EN 14629: 2007 Method A excluding Cl. 4.1 BS 1881: Part 124: 1988 Cl. 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 CHEM06-S (by calculation) CS 1: 2010 Section 21.10.2 in conjunction with In-house method CHEM06-S (by calculation)
	Sulphate content	BS 1881: Part 124: 1988 Cl. 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 CHEM07-S (by calculation) CS 1: 2010 Section 21.10.3 in conjunction with In-house method CHEM07-S (by calculation)
	Cement content (By calcium oxide determination)	BS 1881: Part 124: 1988 Section 5.4 & 5.9 excluding Cl. 5.9.4
	Cement and Aggregate content (By calcium oxide determination)	CS 1: 2010 Section 21.6.4, 21.6.6 & 21.6.7
	Aggregate / Cement ratio (By calcium oxide determination)	BS 1881: Part 124: 1988 Section 5.9 excluding Cl. 5.9.4
	Detection of PFA	CS 1: 2010 Section 21.5
	pH value	Hong Kong Housing Authority Materials Testing Services Term Contract (2020/2022) for Construction Materials (Package A1) Part D Cl. 1.4.14



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Soil (chemical analysis)	Organic matter content	GEOSPEC 3: 2017 Test 9.1
(Chemical analysis)	Loss-on-ignition (L.O.I)	GEOSPEC 3: 2017 Test 9.2
	Total sulphate content (as SO ₃)	GEOSPEC 3: 2017 Test 9.3
	Water-soluble sulphate content (as SO ₃)	GEOSPEC 3: 2017 Test 9.3
	Water-soluble chloride content	GEOSPEC 3: 2017 Test 9.4
	pH value	GEOSPEC 3: 2017 Test 9.5
Ground water (chemical analysis)	Sulphate content (as SO ₃)	GEOSPEC 3: 2017 Test 9.3
(chemical analysis)	pH value	GEOSPEC 3: 2017 Test 9.5



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SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性 ass per unit area of hot-dip galvanized coating y gravimetric method arrasonic test of H beams with parallel anges (manual method) arrasonic test of metallic materials effection method)	SPECIFICATION, STANDARD METHOD OR TECHNIQUE USED 規範、標準方法或應用技術 BS EN ISO 1460: 2020 BS EN 10346: 2015 Annex A BS EN 10306: 2002 BS 5996: 1993 BS EN 10160: 1999 BS 6443: 1984 + Amd. 4844
gravimetric method trasonic test of H beams with parallel anges (manual method) trasonic test of metallic materials eflection method)	BS EN 10346: 2015 Annex A BS EN 10306: 2002 BS 5996: 1993 BS EN 10160: 1999
anges (manual method) trasonic test of metallic materials reflection method) quid penetrant test	BS 5996: 1993 BS EN 10160: 1999
reflection method) quid penetrant test	BS EN 10160: 1999
	BS 6443: 1984 + Amd. 4844
	BS EN 571: Part 1: 1997 BS EN ISO 3452-1: 2013 BS EN ISO 3452-1: 2021 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 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 Structure Use of Steel (2011) Table 14.3b
agnetic particle test Magnetic flow method colour contrast method sing permanent magnets & A.C. yokes)	BS 6072: 1981 + Amd. 3960, 4542 & 4843 BS EN 1290: 1998 BS EN ISO 9934-1: 2001 BS EN ISO 17638: 2009 BS EN ISO 17638: 2016 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 BS EN ISO 5817: 2003 Table 1 BS EN ISO 5817: 2014 Table 1 BS EN ISO 5817: 2014 Table 1 Buildings Department Code of Practice for the Structure Use of Steel (2011) Table 14.3b
١	Magnetic flow method colour contrast method



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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
Welds (non-destructive) (cont'd)	Radiographic examination (Gamma Ray)	BS EN 1435: 1997 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.2 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 & node welds)	BS 3923: Part 1: 1986 (Level 1, 2a, 2b & 3) BS EN 1714: 1998 + Amd. 10286 (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 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.2 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 EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 in conjunction with the following specification(s): BS 5135: 1984 Table 18 & 19 BS 5400-6: 1999 Cl. 5.5.2.4.1 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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Construction Materials 建築材料		
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Welds (non-destructive) (cont'd)	特定測試或量度的特性 Visual examination and bend test on stud connectors	規範、標準方法或應用技術 Visual examination as follows> BS 5289: 1976 BS EN 970: 1997 BS EN ISO 17637: 2011 BS EN ISO 17637: 2016 <together bend="" following="" method(s)="" test="" the="" with=""> BS 5400-6: 1999 Cl. 5.5.4(b) 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 (2011) Cl. 14.3.7.3</together>



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香港新界粉嶺沙頭角公路 83 區 549,553 及 556 地段 Calibration Services 校正服務 SPECIFIC TEST OR CALIBRATION AND MEASUREMENT ITEM TESTED OR MEASURED PROPERTY MEASURED® CAPABILITY (CMC)* 測試或量度項目 特定測試或量度的特性@ 校準和測量能力* Length and related quantities - Length - Extensometer - Class 1 and Class 2 with gauge length On-site calibration for displacement using 50 mm to 600 mm calibrating rig and verification of class in accordance with BS EN 10002-4: 1995 over the following range: $9.8 \, \mu m$ 0.03 mm to 24 mm On-site calibration for displacement using calibrating rig and verification of class in accordance with BS EN ISO 9513: 2002 over the following range: 0.03 mm to 24 mm 9.8 µm On-site calibration for displacement using calibrating rig and verification of class in accordance with BS EN ISO 9513: 2012 over the following range: 9.8 µm 0.03 mm to 24 mm - Grade B, C, D. E and F for gauge length On-site calibration for displacement using 50 mm to 600 mm calibrating rig and verification of grade in accordance with BS 3846: 1970 over the following range: 0.03 mm to 24 mm 9.8 µm

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

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



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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 quantities		
- Force		
- Load cell	Calibration for compressive force in accordance with in-house method CAL1008 over the following ranges :	
	300 kN to 800 kN above 800 kN to 6000 kN above 6000 kN to 15000 kN	1.1 % of reading 0.8 % of reading 1.2 % of reading
- Load cell with hydraulic jack	Calibration for compressive force in accordance with in-house method CAL1008 over the following ranges :	
	300 kN to 500 kN above 500 kN to 800 kN above 800 kN to 6000 kN above 6000 kN to 15000 kN	2.0 % of reading 1.3 % of reading 0.9 % of reading 1.3 % of reading

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

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



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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*
Thermometry		
- Temperature		
- Digital thermometer	Calibration for temperature using water bath in accordance with in-house method CAL450 over the following ranges: 10 °C to 50 °C	0.30 K
	above 50 °C to 90 °C	0.30 K
	Calibration for temperature using drywell in accordance with in-house method CAL450 over the following range:	
	above 50 °C to 350 °C	0.30 K

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

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



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	Construction Materials 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 plaster	In-house method DIA 06	
	Pull-off test of render	In-house method DIA 02	
	Pull-off test of repair mortar	Hong Kong Housing Authority Materials Testing Services (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 2.1.15 Method 1	
	Pull-off test of tiles	In-house method DIA 30 (coring method) In-house method DIA 31 (saw-cut method)	
Coating	Pull-off test of adhesion	In-house method DIA 36	
	Pull-off test of coating	BS 3900-E10: 2003 C1. 9.4.2 BS EN ISO 4624: 2003 C1. 9.4.2 BS EN ISO 4624: 2016 C1. 8.4.2	
Concrete	Sampling fresh concrete on site	BS EN 12350-1: 2009 CS1: 2010 Section 1	
	Slump of fresh concrete	BS EN 12350-2: 2009 CS1: 2010 Section 2 Part I	
	Flow table test	BS 1881: Part 105: 1984 CS1: 2010 Section 2 Part IV	
	Density of compacted fresh concrete	BS EN 12350-6: 2009 CS1: 2010 Section 5	
	Making test cubes from fresh concrete	BS EN 12390-2: 2009 CS1: 2010 Section 7	
	Curing of test specimens	CS1: 2010 Section 10	
	Compressive strength of concrete cubes in the force range 20 kN - 3000 kN	BS EN 12390-3: 2019 CS1: 2010 Section 12	
	Obtaining core samples	CS1: 2010 Section 15	
	Compressive strength of concrete cores in the force range 20 kN - 2000 kN in the force range 20 kN - 3000 kN	BS EN 12504-1: 2019 CS1: 2010 Section 15	



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Construction Materials 建築材料		
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Concrete (cont'd)	Density of hardened concrete	BS EN 12390-7: 2019 CS1: 2010 Section 16
	Water absorption	BS 1881: Part 122: 2011 +A1: 2020
	Removal of concrete cover to expose reinforcement	Hong Kong Housing Authority Materials Testing Service (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 4.2.1
	Cutting out reinforcement	Hong Kong Housing Authority Materials Testing Service (2002/2004) for Maintenance & Building Materials Specification Part D Cl. 4.2.3
	Moisture content by weighing drilling powder	Hong Kong Housing Authority Materials Testing Service (2002/2004) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 1
	Moisture content by weighing minicores	Hong Kong Housing Authority Materials Testing Service (2002/2004) for Maintenance & Building Materials Specification Part D Cl. 4.3.8 Method 2
	Crack survey	Hong Kong Housing Authority Materials Testing Servi (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 4.3.14
	Obtaining drilling powder samples	Hong Kong Housing Authority Materials Testing Servi (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 6.4
	Heat of hydration monitoring (temperature monitoring of concrete structure)	In-house method CON22
	Temperature rise evaluation test	In-house method CON22-1



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	Construction Materials 建築	材料
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Concrete (diagnostic)	Carbonation test	BS EN 14630: 2006 Building Research Establishment Information IP 6/81 Hong Kong Housing Authority Materials Testing Service (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 4.3.1 Method 1 & Method 2
	Covermeter survey	BS 1881: Part 204: 1988 + Amd. 6201 Hong Kong Housing Authority Materials Testing Service (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 4.3.2 Method 1 & Method 2
	Half-cell potential measurement	ASTM C876-15 Hong Kong Housing Authority Materials Testing Service (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 4.3.4 & 4.3.5
	Infrared thermography for detection of building surface defects	Hong Kong Concrete Institute TM1 Issue 2 (2022)
	Resistivity measurement	BS 1881: Part 201: 1986 Cl. 2.3 Hong Kong Housing Authority Materials Testing Service (2017/2018) for Maintenance & Building Materials Specification Part D Cl. 4.3.6
	Surface hardness measurement	BS EN 12504-2: 2012 BS EN 12504-2: 2021
	Surface penetration radar survey	Hong Kong Concrete Institute TM2 (2009)
	Ultrasonic pulse velocity measurement (by direct, semi-direct and indirect measurement)	BS 1881: Part 203: 1986 BS EN 12504-4: 2021



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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	
Flowability	ASTM D6103/D6103M-17 in conjunction with the following specification(s): Highways Department Guidance Notes on Use of Self-compacting Backfill Material RD/GN/049 (Sep 2022)	
Load placement capacity (by ball drop test)	ASTM D6024/D6024M-16 in conjunction with the following specification(s): Highways Department Guidance Notes on Use of Self-compacting Backfill Material RD/GN/049 (Sep 2022)	
	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性	



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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
Foundation	Borehole video inspection test	Hong Kong Housing Authority Materials Testing Services (2023/2025) for Non-destructive Pile Testing Cl. D8 & D10 Hong Kong Housing Authority Materials Testing Services (2024/2026) for Non-destructive Pile Testing
		Cl. D8 & D10
	Compression static loading test (SLT)	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 (2006) Vol. 1 App. 8.1 General Specification for Civil Engineering Works (2020) Vol. 1 App. 8.1 Hong Kong Housing Authority Specification Library (2022) PIL1.T610.9 to PIL1.T1110.9
	Compression static loading test on pile (SLT) using multiple hydraulic jacks and load cells	Buildings Department Code of Practice for Foundations (2017) Cl. 8.4 with modification General Specification for Civil Engineering Works (2020) Vol. 1 App. 8.1 with modification
	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)
	Tension static loading test (SLT)	Architectural Services Department, Technical Instruction No. 04/2005 (revision date: Jun 2019) Particular Specification for Tension Piles Buildings Department Code of Practice for Foundations (2017) Cl. 8.10
	Tension static loading test on pile (SLT) using multiple hydraulic jacks and load cells	In-house method STA07
	Ultrasonic echo sounder test (UEST)	Hong Kong Concrete Institute TM3 Issue 2 (2024)



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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
Grout	Flow of grout for preplaced-aggregate concrete (flow cone method)	ASTM C939-02
	Bleeding and free expansion	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.59-17.60 ASTM C940-98a
	Making and curing test cubes	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.63 (1) & (2) CS1: 2010 Section 7 & 10
	Compressive strength of grout cubes in the force range 20 kN - 3000 kN	General Specification for Civil Engineering Works (2006) Vol. 2 Cl. 17.63 (1) & (2) CS1: 2010 Section 12



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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
Metallic materials	Tensile test of metallic materials in force range 2 kN – 2000 kN	BS 18: 1987 BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS 4360: 1986 Cl. 23 BS 4360: 1990 Cl. 23 BS EN 10025-1: 2004 Cl. Cl. 7.3.1, 9.2.3.2 & 10.2.1 BS EN 10025-2: 2004 Cl. 10.2 & Table 7 BS EN 10025-3: 2004 Cl. 10.2 & Table 5 BS EN 10025-4: 2004 Cl. 10.2 & Table 5 BS EN 10025-5: 2004 Cl. 10.2 & Table 5 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2, Table 5 BS EN 10088-2: 2005 Cl. 7.4.2, Table 7 - 17 & 19 - 25 BS EN 10210-1: 1994 Cl. 6.6.1, 9.2 & 9.2.1 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
	Tensile test & slip/permanent elongation test of mechanical coupler for reinforcing bar in the force range 10 kN – 2000 kN	BS EN ISO 6892-1: 2009 & ISO 15835-2: 2018 Cl. 5.4 excluding Cl. 5.4.4 in conjunction with the following specification(s): BS 8110: Part 1: 1985 Cl. 3.12.8.16.2 BS 8110: Part 1: 1997 Cl. 3.12.8.16.2 ISO 15835-1: 2018 Cl. 5.4.1 Option 2 & 5.4.2 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 steel reinforcing bars for reinforcement of concrete in the force range 2 kN - 2000 kN	BS EN 10002-1: 2001 BS EN ISO 6892-1: 2009 Cl. 10.4 Methods B in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.2, 7.2.3 & 8.1.3.1 & 9 BS EN ISO 15630-1: 2002 Cl. 5 BS EN ISO 15630-2: 2002 Cl. 5 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.4
	Tensile test of machined and unmachined specimens of bolts, screws and studs in the force range 15 kN – 1500 kN	BS EN ISO 6892-1: 2009 Cl. 10.4 Method B in conjunction with the following specification(s): BS EN ISO 898-1: 1999 Cl. 8.1 & 8.2



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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
Metallic materials (cont'd)	Charpy 'V' notch impact test	BS EN 10045-1: 1990 BS EN ISO 148-1: 2010 with modification in conjunction with the following specification(s): BS 4360: 1990 Cl. 25-27 BS EN 10025-1: 2004 Cl. 10.2.2 BS EN 10025-2: 2004 Cl. 10.2 & Table 9 BS EN 10025-3: 2004 Cl. 10.2 & Table 6 & 7 BS EN 10025-4: 2004 Cl. 10.2 & Table 6 & 7 BS EN 10025-5: 2004 Cl. 10.2 & Table 5 BS EN 10025-6: 2004 + A1: 2009 Cl. 10.2 Table 6 & 7 BS EN 10088-2: 2005 Cl. 7.4.4, Table 8, 10 & 11 BS EN 10210-1: 2006 Cl. 6.6.2, 9.2.3, Table A3 & B3 BS EN 10219-1: 2006 Cl. 6.7.2, 9.2.3, Table A3, B4 & B3
	Mass per meter of steel reinforcing bars	BS EN ISO 15630-1: 2002 Cl. 12 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.2 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 + A3: 2016 Cl. 7.2.2, 7.3 & 9
	Rebend test of steel reinforcing bars	BS EN ISO 15630-1: 2002 Cl. 7 CS2: 2012 (Rev. 5) Cl. 6.1 & 6.5 in conjunction with the following specification(s): BS 4449: 2005 + A2: 2009 Cl. 7.2.5 & 9
	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 $10 \text{ kN} - 2000 \text{ kN}$	ICC Evaluation Service, Inc. AC133 (Approved Jan 2010, Effective 1 Jul 2010) Cl. 4.1.2 with modifications 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)
	Vickers hardness test in scale range HV 30	BS EN ISO 6507-1: 1998
	Proof load test of steel nuts in the force range $15\ kN-1500\ kN$	BS 3692: 2001 Annex C.1 BS 4190: 2001 Annex A.1 ISO 898-2: 1992 Cl. 5-7 & 8.1



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SPECIFIC TEST OR	SPECIFICATION, STANDARD METHOD
PROPERTY MEASURED 特定測試或量度的特性	OR TECHNIQUE USED 規範、標準方法或應用技術
Dry-film coating thickness by acoustic method	BS EN ISO 2808: 2019 (Method 10 – Ultrasonic reflection)
Dry-film coating thickness by eddy current method	BS EN ISO 2808: 2007, BS 3900-C5: 2007 (Method 7D BS EN ISO 2808: 2019 (Method 7C)
Dry-film coating thickness by magnetic method	BS EN ISO 2178: 2016 BS EN ISO 2808: 2007, BS 3900-C5: 2007 (Method 7C) BS EN ISO 2808: 2019 (Method 7B.2)
Skid resistance of road surfaces/markings using a portable pendulum tester	ASTM E303-93 (Reapproved 2018) Highways Department (Research and Development Division) Guidance Notes on Road Testing - RD/GN/009 (Sep 1989)
Pull-out test of rock dowels	In-house method SPRD 01
Point load strength index of rock by diametral and axial tests	ASTM D5731-16 International Society for Rock Mechanics (1985) Suggested method for determining point load strength
	Dry-film coating thickness by eddy current method Dry-film coating thickness by magnetic method Skid resistance of road surfaces/markings using a portable pendulum tester Pull-out test of rock dowels Point load strength index of rock



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Construction Materials 建築材料		
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	
Moisture content by oven-drying at $45^{\circ}\text{C} \pm 5^{\circ}\text{C}$	GEOSPEC 3: 2001 Test 5.1 GEOSPEC 3: 2017 Test 5.1	
Moisture content by oven-drying at $105^{\circ}\text{C} \pm 5^{\circ}\text{C}$	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 pyknometer 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	
	SPECIFIC TEST OR PROPERTY MEASURED 特定測試或量度的特性 Moisture content by oven-drying at 45°C±5°C Moisture content by oven-drying at 105°C±5°C Comparative test for the determination of moisture content by oven-drying Liquid limit, plastic limit, and plasticity index Liquidity index Particle density by gas jar method Particle size distribution by wet sieving (with dispersant) Particle size distribution by hydrometer (with dispersant) Particle size distribution by hydrometer (with dispersant) Particle size distribution by hydrometer (with dispersant) Construction of a continuous particle size distribution curve from the results of	



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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
Soil (Phase I) (cont'd)	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
	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



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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
Soil (Phase I) (cont'd)	In-situ bulk density and in-situ dry density of soils by the sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001 Test 11.1 GEOSPEC 3: 2017 Test 11.1
	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
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 GEOSPEC 3: 2017 Test 11.4 Buildings Department PNAP 55 (1994) Cl. 2 App. A
Soil (other)	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 Hong Kong Housing Authority Specification Library (2022) SLO.T310.9 to SLO.T320.9 General Specification for Civil Engineering Works (2020) Vol. 1 Cl. 7.144 GEOGUIDE 7 (2008) Cl. 6.3.2 GEOGUIDE 7 (2017) Cl. 6.3.2 GEOGUIDE 7 (2023) Cl. 6.3.2
	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
	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)



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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
Structural fixings	Tensile test of anchors by incremental loading in the force range 1 kN – 1000 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3
	Tensile proof load test of anchors by incremental loading in the force range 1 kN – 1000 kN	BS 5080: Part 1: 1993 Cl. 6, 7.1.1 & 7.1.3 with modifications
	Tensile proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental loading in the force range 2 kN – 640 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 – 640 kN	Buildings Department PNAP APP-169 (Oct 2023) App. E
	Tensile proof test of cementitious or polymer based grouted bolts or dowels or reinforcing bars works in the force range 2 kN – 640 kN	Buildings Department PNAP APP-169 (Oct 2023) App. (
	Shear test of anchors by incremental loading in the force range 1 kN –1000 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3
	Shear proof load test of anchors by incremental loading in the force range 1 kN – 1000 kN	BS 5080: Part 2: 1986 + Amd. 7602 Cl. 4, 7.1, 7.2.1 & 7.2.3 with modifications
	Shear proof load test of drilled-in anchors used for cantilevered structure/hanger/curtain wall remedial works by incremental or continuous loading in the force range 2 kN – 220 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 – 220 kN	Buildings Department PNAP APP-169 (Oct 2023) App. E
	Proof load test of spiders in the force range 1 kN – 100 kN	Buildings Department Code of Practice for the Structural Use of Steel (2011) Cl. 16.2.1 Buildings Department APP-37 (May 2012) App. C



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Underground Utility Survey	Pipe cable locating / Electromagnetic locating	Specifications for Nondestructive Testing, Surveying, Imaging and Diagnosis 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
Welds (destructive)	Bend test on welds in metallic materials	BS EN 910: 1996 BS EN ISO 5173: 2023
	Charpy V-notch impact test on welds in metallic materials	BS EN 875: 1995 BS EN ISO 9016: 2011
	Fracture test on welds in metallic materials	BS EN 1320: 1997
	Longitudinal tensile test on welds in metallic materials in the force range 20 kN - 1500 kN	BS EN 876: 1995 BS EN ISO 5178: 2011
	Macroscopic examination on welds in metallic materials	BS EN 1321: 1997 + Amd. 14972 BS EN ISO 17639: 2022
	Transverse tensile test on welds in metallic materials in the force range 15 kN – 1500 kN	BS EN 895: 1995 BS EN ISO 4136: 2011
	Vickers hardness test across welded joints in the scale of HV 10	BS EN 1043: Part 1: 1996 BS EN ISO 9015-1: 2011