



Socomat Testing Limited

蔡氏試驗有限公司

ADDRESS : Unit B, 16/F, Goodwill Industrial Building,
地址 36-44 Pak Tin Par Street, Tsuen Wan, New Territories, Hong Kong
香港新界荃灣白田壩街36-44號信義工業大廈16樓B座

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CLIENTELE : Public
服務對象 公眾



Scope of Accreditation
Registration No. HOKLAS 069
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ADDRESS

地址

Main Laboratory

: Unit B, 16/F, Goodwill Industrial Building,
36-44 Pak Tin Par Street, Tsuen Wan, New Territories, Hong Kong
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Branch Laboratory

: Calibration Laboratory :
Flat D, 10/F., Wah Lik Industrial Centre, 459-469 Castle Peak Road, Tsuen Wan,
New Territories, Hong Kong.
香港新界荃灣青山道459-469 號華力工業中心10樓D座

ACCREDITED TEST

: Calibration Services 校正服務

CATEGORY

Construction Materials 建築材料

認可測試類別



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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 - Force measuring devices for pile test - load cell - load cell with hydraulic jack	Calibration in accordance with in-house method FD-C-002 over the following ranges : 500 kN to 1,000kN above 1,000 kN to 3,000kN above 3,000 kN to 12,000kN	 1.4% 1.3% 1.1%

* THE CALIBRATION UNCERTAINTY OF A DEVICE UNDER TEST IS USUALLY REPORTED AT 95% CONFIDENCE LEVEL AND DEPENDS ON BOTH THE CMC OF THE LABORATORY AND THE PERFORMANCE OF THE DEVICE DURING CALIBRATION.



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Length and related measurements - Length measuring instruments - Dial gauge	Calibration using a micrometer head in accordance with AS 2103: 1978 Cl. A5 or BS 907: 2008 Cl. B3 over the following range : up to 50 mm	6 μm
	Calibration using a micrometer head and 50mm gauge block in accordance with in-house procedure SPII-C-008 over the following range : up to 100 mm	8 μm
- Displacement transducer	Calibration using a micrometer head in accordance with GEOSPEC 3: 2001 Cl. A3.4 over the following range : up to 50 mm	6 μm
	Calibration using a micrometer head and 50mm gauge block in accordance with in-house procedure SPII-C-008 over the following range : up to 100 mm	8 μm

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Mass and related measurements (cont'd) - Force measurements (cont'd) - Proving ring	Calibration in accordance with GEOSPEC 3: 2001 Cl. A3.1 over the following ranges : 0.1 kN to 0.3 kN above 0.3 kN to 2 kN above 2 kN to 10 kN	1.2 % 1.0 % 0.6 %

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Concrete	Curing of test specimens	CS1: 1990 Section 10 (Amd. 1101) CS1: 2010 Section 10
	Compressive strength of concrete cubes in the force range 50 kN - 3000 kN	CS1: 1990 Section 12 (Amd. 1201, 1202 & 1203) CS1: 2010 Section 12
	Compressive strength of concrete cores in the force range 50 kN - 3000 kN	CS1: 1990 Section 15 (Amd. 1201 & 1203) CS1: 2010 Section 15
	Density of hardened concrete	CS1: 1990 Section 16 (Amd. 1201, 1202 & 1203) CS1: 2010 Section 16
Foundation	Static loading tests on piles	Architectural Services Department General Specification for Building (2007) Section 5.28 Architectural Services Department General Specification for Building (2017) Section 5.29 Buildings Department APP-18 (Feb 2012) Cl. 20 - 21 Code of Practice of Foundations (2017) Cl. 8.4 & 8.10 General Specification for Civil Engineering Works (2006) Vol. App. 8.1 Hong Kong Housing Authority Specification Library (2008) Cl. PIL 1.T710.5 to PIL 1.T740.5 Cl. PIL 1.T810.5 to PIL 1.T870.5 Cl. PIL 1.T910.5 to PIL 1.T920.5 Cl. PIL 1.T1010.5 to PIL 1.T1040.5 Cl. PIL 1.T1110.5
	Plate loading test	BS 1377: Part 9: 1990 Cl. 4.1 (incremental loading method)
Rock	Point load test	ASTM D5731-08
	Unconfined compressive strength of intact rock core specimens	ASTM D2938-95
	Preparing rock core specimens and determining dimensional and shape tolerances	ASTM D4543-08

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Soil (Phase I)	Density of soil (Linear measurement method)	BS 1377: Part 2: 1990 Cl. 7.2
	Moisture content by oven-drying at 45°C ± 5°C	GEOSPEC 3: 2001 Test 5.1
	Moisture content by oven-drying at 105°C ± 5°C	GEOSPEC 3: 2001 Test 5.2
	Comparative test for the determination of moisture content by oven drying	GEOSPEC 3: 2001 Test 5.3
	Liquid limit, plastic limit and plasticity index	GEOSPEC 3: 2001 Test 6.1
	Liquidity index	GEOSPEC 3: 2001 Test 6.2
	Particle density by gas jar method	GEOSPEC 3: 2001 Test 7.1
	Particle density by small pycnometer method	GEOSPEC 3: 2001 Test 7.2
	Particle size distribution by wet sieving (with dispersant)	GEOSPEC 3: 2001 Test 8.1
	Particle size distribution by wet sieving (without dispersant)	GEOSPEC 3: 2001 Test 8.2
	Particle size distribution by hydrometer (with dispersant)	GEOSPEC 3: 2001 Test 8.5
	Particle size distribution by hydrometer (without dispersant)	GEOSPEC 3: 2001 Test 8.6
	Construction of a continuous particle size distribution curve from the results of wet sieving and sedimentation tests	GEOSPEC 3: 2001 Test 8.7
Dry density / moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000 cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.1	

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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 1000 cc mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.2
	Dry density / moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.3
	Dry density / moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 2.5 kg rammer)	GEOSPEC 3: 2001 Test 10.4
	Dry density / moisture content relationship of soils containing particles which are not susceptible to crushing (using a 1000 cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.5
	Dry density / moisture content relationship of soils containing particles which are susceptible to crushing (using a 1000 cc mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.6
	Dry density / moisture content relationship of soils containing particles which are not susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.7
	Dry density / moisture content relationship of soils containing particles which are susceptible to crushing (using a CBR mould and 4.5 kg rammer)	GEOSPEC 3: 2001 Test 10.8



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Soil (Phase I) (cont'd)	In-situ bulk density and in-situ dry density of soils by sand replacement method suitable for fine- and medium-grained soils (with small pouring cylinder)	GEOSPEC 3: 2001Test 11.1
	In-situ bulk density and in-situ dry density of soils by sand replacement method suitable for fine-, medium- and coarse-grained soils (with large pouring cylinder)	GEOSPEC 3: 2001Test 11.2
	Relative compaction of fill material	GEOSPEC 3: 2001 Test 11.4 Buildings Department PNAP 55 (1994) Cl. 2 App. A

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Soil (Phase II)	One-dimensional consolidation test	GEOSPEC 3: 2001 Test 14.1
	Isotropic compression test in a triaxial cell	GEOSPEC 3: 2001 Test 14.2
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2
	Isotropically consolidated drained triaxial compression test with measurement of volume change	GEOSPEC 3: 2001 Test 15.3
	Direct shear test (small shear box apparatus)	GEOSPEC 3: 2001 Test 16.1

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Soil (Phase II)	Isotropic compression test in a triaxial cell	GEOSPEC 3: 2001 Test 14.2
	Unconsolidated undrained triaxial compression test without pore pressure measurement	GEOSPEC 3: 2001 Test 15.1
	Isotropically consolidated undrained triaxial compression test with pore pressure measurement	GEOSPEC 3: 2001 Test 15.2
	Isotropically consolidated drained triaxial compression test with measurement of volume change	GEOSPEC 3: 2001 Test 15.3