



No. 172

Castco Testing Centre (Zhongshan) Limited
佳力高(中山)建材檢測有限公司

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CLIENTELE : Public
服務對象 公眾

ACCREDITED TEST CATEGORIES : Calibration Services 校正服務
認可試驗類別 Construction Materials 建築物料

SCOPE OF ACCREDITATION : As shown on the following pages 詳見後頁
認可範圍

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TEST CATEGORY 測試類別	ITEMS, MATERIALS OR PRODUCTS TESTED 測試項目、材料或產品	SPECIFIC TESTS OR PROPERTIES MEASURED 特定測試或量度的特性	BEST MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)* 以不確定度表示最佳測量能力(±)*
CALIBRATION SERVICES 校正服務	Construction materials testing equipment :- - Slump cones - Tamping rods - Compacting bars - Cubes moulds - Curing tank - Cylinder mould - Test sieves	Dimensional requirement and tolerances in accordance with CS1 : 1990 Appendix A4 Dimensional requirement and tolerances in accordance with CS1 : 1990 (AMD 1102) Appendix A5 Dimensional requirement and tolerances in accordance with CS1 : 1990 (AMD 1102) Appendix A9 Dimensional requirement and tolerances In accordance with CS1 : 1990 Appendix A21 excluding A21.2 (e) Temperature distribution and circulation in accordance with CS1 : 1990 Appendix A24, HOKLAS supplementary Criteria No. 2 Appendix G Dimensional requirement and tolerance in accordance with CS 1 : 1990, Appendix A23 excluding A23.2 (e) and (f) Calibration of perforated testing sieves with size greater than 4 mm in accordance with the specification requirement in table 3 of BS 410 : 1986, in aperture size, pitch of hole, bridge width and plate thickness Calibration of perforated testing sieves with size greater than 4 mm in accordance with the specification requirement in table 1 and table 2 of BS 410-2 : 2000 or table 1 and table 2 of ISO 3310-2 : 1999 in size of hole, pitch and plate thickness	0.5 °C

* A REPORTED UNCERTAINTY WILL BE THAT FOR THE INSTRUMENT ITSELF DURING CALIBRATION PLUS THE APPROPRIATE MEASUREMENT CAPABILITY OF THE LABORATORY. THE UNCERTAINTIES ARE BASED ON AN ESTIMATED LEVEL OF CONFIDENCE OF 95%.

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CALIBRATION SERVICES 校正服務 (Cont'd)	Mass measurements :- - Balances - Weight Temperature and humidity measurement :- - Drying oven Force testing machines : - compression - stability testing of compression	Calibration of balances over the following range :- up to 100 kg Calibration of mass in accordance with in-house procedure CAL-WEIGHT-NMI : 1 g to 1000 g above 1 kg to 10 kg above 10 kg to 20 kg Temperature variation, evaporation rate and temperature setting in accordance with AS 1289.0 - 2000 Universal testing machines in compression in accordance with BS 1610 : Part 1 : 1985 (AMD 6175) Concrete testing machines in compression in accordance with BS 1610 : Part 1 : 1985 (AMD 6175) Stability testing of compression testing machines in accordance with BS 1881 : Part 115 : 1986 (AMD 6536) CS 1 : 1990 Appendix D	Standard weights of OIML Class F1 from 1 mg to 100 kg Uncertainties quoted depend upon the quality, construction and performance of the balances under calibration 7 mg 70 mg 0.8 g 0.6 °C Grade 0.5 in the range 2 kN - 600 kN Grade 1.0 in the range 2 kN - 5.0 MN Grade 0.5 in the range 2 kN - 600 kN Grade 1.0 in the range 2 kN - 5.0 MN

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CALIBRATION SERVICES 校正服務 (Cont'd)	Dimensional measurement instruments : - Extensometers	Extensometers in accordance with BS 3846 : 1970 (Use of calibrating rig) Extensometers in accordance with BS EN ISO 9513 : 2002 & GB/T12160-2002 / ISO 9513 : 1999 (Use of calibrating rig)	Grade A for gauge lengths not less than 365 mm Grade B for gauge lengths not less than 177 mm Grade C for gauge lengths not less than 84 mm Grade D for gauge lengths not less than 28 mm Class 1 for measuring range within 20 mm

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CONSTRUCTION MATERIALS 建築物料	Aggregates	Aggregate crushing value Aggregate impact value Clay, silt and dust content Compacting fraction value of aggregate for granular bed Determination of compacted and uncompacted bulk density, voids and bulking of aggregate Determination of particle densities and water absorption of aggregates Elongation index Flakiness index Moisture content Particle size distribution Shell content Ten per cent fines value Compacting fraction value of aggregate for granular bed	BS 812 : Part 110 : 1990 BS 812 : Part 112 : 1990 (AMD 8772) BS 812 : Part 1 : 1975 (AMD 4875, 6587) General Specification for Civil Engineering Work, Vol. 1, Appendix 5.2, 1992 ed. HKHA Specification library, 2000 ed. Clause DIS3.T240.3 to DIS3.T280.3 1998 ed. Clause DIS3.T240.2 to DIS3.T280.2 1997 ed. Clause DIS3.T240.1 to DIS3.T280.1 BS 812 : Part : 1995, Cl. 6.3 BS 812 : Part 2 : 1995, Cl. 5 (AMD 9195 and AMD 10379) (Pyknometer, wire basket & gas jar method) BS 812 : Section 105.2 : 1990 BS 812 : Section 105.1 : 1989 BS 812 ; Part 109, Cl. 6 : 1990 (Oven drying method) BS 812 : Section 103.1 : 1985 (AMD 6003) (Sieve analysis) BS 812 : Part 106 : 1985 BS 812 : Part 111 : 1990 General Specification for Civil Engineering Works, Vol. 1, Appendix 5.2, 2006 edition HKHA specification library 2004 Edition Clause DRA 2.T260.4 – DRA 2.T280.4
	Aggregates (Site tests)	Sampling	BS 812 : Part 102 : 1989

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CONSTRUCTION MATERIALS 建築物料(續上)	Steel (reinforcing)	Tensile strength tests on carbon steel bars in the force range 2 kN – 2000 kN Bend tests on carbon steel bars Rebend tests on carbon steel bars Rebend tests on cold reduced wire Mass per unit length of cold reduced steel wires Tensile strength tests on cold reduced wire in the force range 2 kN – 2000 kN Mass per unit area, pitch and dimension of steel fabric Tensile strength tests on steel fabric in the force range 2 kN – 2000 kN Rebend tests on steel fabric Weld tests on steel fabric Tensile testing of high tensile alloy steel bars in the force range 2 kN – 2000 kN Tensile test of reinforcing bar with mechanical coupler in the force range 2 kN – 2000 kN	CS 2 : 1995 CS 2 : 1995 CS 2 : 1995 BS 4482 : 1985 with modification BS 4482 : 1985 BS 4482 : 1985 with modification BS 4483 : 1985 BS 4483 : 1985 BS 4483 : 1985 BS 4483 : 1985 BS 4486 : 1980 BS 8110 : Part 1 : 1985 Cl. 3.12.8.16.2 BS 8110 : Part 1 : 1997 Cl. 3.12.8.16.2 In-house method STL-COUPLER-ELG General Specification for Civil Engineering Works Volume 2 : 1992 edition : Clause 15.33
	Steel (structural)	Tensile strength tests on weldable structural steel sections in the force range 2 kN -2000 kN	BS 4360 : 1986 BS 4360 : 1990
	Steel	螺母保證載荷試驗	GB/T 1231-91, 4.2.1 分段