



CERTIFICATE OF ACCREDITATION

This is to attest that

PRECISE (MACAU) TESTING AND CONSULTANCY LIMITED

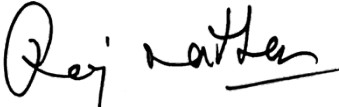
ALAMEDA DR.CARLOS D'ASSUMPCAO, NO.181-187, EDF CENYRO COMERCIAL DO GRUPO BRILHATISMO
19 ANDAR S
MACAU 853, MACAU 999078

Testing Laboratory TL-1222

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date February 7, 2024





President

IAS is an ILAC MRA Signatory

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

3060 Saturn Street, Suite 100, Brea, California 92821, U.S.A. | www.iasonline.org

PRECISE (MACAU) TESTING AND CONSULTANCY LIMITED

Contact Name Wu Shao Ling

Contact Phone +853 2831 2264

Accredited to ISO/IEC 17025:2017

Effective Date February 7, 2024

Mechanical/Physical Testing	
AAMA 501.2-03	Quality Assurance and Diagnostic Water Leakage Field Check of Installed Store fronts, Curtain Walls, and Sloped Glazing Systems
ASTM C403-90	Time Of Setting of Concrete Mixtures by Penetration Resistance
ASTM C939-10 ASTM C939-97	Flow of grout (Flow cone method)
ASTM D1143	Static loading tests on piles
ASTM D1194-94, D1195-93, D1196-93	Plate Load Test
ASTM D4945	Dynamic Pile Test
ASTM D5731-95	Point load strength index of rock
ASTM D5882	Pile integrity test
ASTM D6132-04	Coating thickness
ASTM D6760	Ultrasonic crosshole sonic logging test
BS 1377: Part 9	Plate Load Test
BS 1881: Part 102:1983	Slump test
BS 1881: Part 202	Surface hardness measurement of concrete
BS 1881: Part 204	Covermeter survey
BS 3923	Non-destructive testing of welded joints - ultrasonic testing of welded joints
BS 5080-1 BS 5080-2	Structural fixings in concrete and masonry - method of test for tensile or shear loading
BS 5289	Non-destructive examination of fusion welds - visual examination
BS 6072	Non-destructive examination of welds – magnetic particle examination of welds
BS 8004	Static loading tests on piles
BS EN 287-1: 2011 Clause 6.4	Qualification test of welders Fusion welding
BS EN 571-1:1997 (Colour Contrast Method)	Non-destructive test of welds - liquid penetrant test
BS EN 970	Non-destructive examination of fusion welds - visual examination

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BS EN 1290	Non-destructive testing of welded joints - ultrasonic testing of welded joints
BS EN 1714	Non-destructive testing of welded joints - ultrasonic testing of welded joints
BS EN 12504-2	Surface hardness measurement of concrete
BS EN 14630	Carbonation test
BS EN ISO 2178:1995	Coating thickness
BS EN ISO 3452-1:2013 (Colour Contrast Method)	Non-destructive test of welds - liquid penetrant test
BS EN ISO 9606-1:2017 Clause 6.4	Qualification test of welders Fusion welding
BS EN ISO 9934-1:2016	Non-destructive examination of welds – magnetic particle examination of welds
BS EN ISO 15614-1:2017 Clause 7.3	Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys
CS1:2010 Section 2 Part I	Slump test
General Specification for Civil Engineering Works (2006) Vo1.1 APP.7.138	Pull-out test for soil nails
HKHA Specification Library (2004 edition), section PIL 1.M410.4, PIL.T320.4 and General Specification for Civil Engineering Works (2006), Section 7, 8 & 17	Determination of Bleeding and Free Expansion of Grout
HKHA MTS (2012/2014) Package D Specification	Tensile Proof Load Test on Grouted Dowel Bars or Anchor Bolts
HKCI TM1	Detection of building defects by Infrared Thermography
HKCI:TM3	Ultrasonic echo sounder test (UEST)
In-house Method PTC-IM	inclinometer monitoring
In-house Method PTC-IR	Detection of Moisture in Buildings by Infrared Camera
In-house Method PTC KODEN	Ultrasonic echo sounder test (UEST)
In-house Method PTC- NM	Noise measurement for construction sites
In-house Method PTC-OC	Obtaining core samples
In-house Method PTC-PM	Piezometer monitoring
In-house Method PTC-PO	Pull-off test of tiles and tile adhesive and render
In-house Method PTC-TM	Tiltmeter monitoring
In-house Method PTC-VM	Vibration monitoring
ISO 1996-1:1982	Noise measurement for construction sites

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ISO 2808-2007	Coating thickness
ISO 17637	Non-destructive examination of fusion welds - visual examination
ISO 17638	Non-destructive examination of welds – magnetic particle examination of welds
ISO 17640	Non-destructive testing of welded joints - ultrasonic testing of welded joints
ISRM:1985	Suggested method for determining point load strength
JGJ/T110-2017	Pull-off test of tiles and tile adhesive and render
MTRC Materials & Workmanship Specification (1997) Vol.2 of 6 Cl. 11.40(6)	Bleeding Test