CERTIFICATE OF ACCREDITATION

This is to attest

YSF CORPORATION LTD

5A, BLOCK 1, KIN HO INDUSTRIAL BUILDING, 20-24 AU PUI WAN STREET, FO TAN SHATIN, HONG KONG

Calibration Laboratory CL-209

has met the requirements of AC204, *IAS Accreditation Criteria for Calibration 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.

Expiration Date January 1, 2026
Effective Date May 2, 2025

International Accreditation Service
Issued under the authority of IAS management

Visit www.iasonline.org for current accreditation information.

SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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YSF CORPORATION LTD

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Accredited to ISO/IEC 17025:2017 *Effective Date May 2, 2025*

CALIBRATION AND MEASUREMENT CAPABILITY (CMC)*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Dimensional			
Angle meter (protractor, tiltmeter, inclinometer)	0.11° to 90°	0.1°	CAL011/ Master angle meter
	0.04° to 45°	0.01°	CAL010/ Sine bar or sine plate and master gage blocks
Caliper	1 mm to 300 mm	0.02 mm	CAL004/ Master gage blocks
Coating thickness gage	0.05 mm to 2 mm	3 µm	CAL018/ Master plastic foil
Concrete cube mould (100 mm and 150 mm)	Dimension Flatness Squareness Parallelism	0.04 mm 0.012 mm 0.05 mm 0.05 mm	CAL060/ CS1: 2010 Vol 1 App. A25
Concrete cylindrical mould (150 mm diameter)	Dimension Flatness Straightness Squareness Parallelism	0.10 mm 0.012 mm 0.012 mm 0.05 mm 0.05 mm	CAL081/ CS1: 2010 Vol 1 App. A27
Cover meter	Up to 200 mm	1 mm	CAL015/ BS1881 Pt204: 1988 Cl.6.4 (Method C)
Depth gage	1 mm to 300 mm	0.02 mm	CAL055/ Master gage blocks
Dial gage	1 mm to 50 mm 50 mm to 100 mm	4 µm 6 µm	CAL009/ BS907:2008 Cl.9 and Annex B/ Micrometer head
Digimatic indicator / LVDT	1 mm to 10 mm 10 mm to 100 mm	0.4 µm 3 µm	CAL003/ Master gage blocks
External micrometer	0.01 mm to 25 mm 25 mm to 100 mm	1.6 µm 3 µm	CAL006/ Master gage blocks
Extensometer	25 mm to 200 mm gage length	0.9 µm	CAL042/ BS3846: 1970 Grade D and BS EN ISO 9513:2012 Class 1
Feeler gage	0.01 mm to 2 mm	2 µm	CAL007/ External micrometer

** If information in this CMC is presented in non-SI units, the conversion factors stated in NIST Special Publication 811 "Guide for the Use of the International System of Units (SI)" apply.*

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Height gage	1 mm to 500 mm	0.03 mm	CAL054/ Master gage blocks
Measuring ruler	1 mm to 1 m	0.6 mm	CL002/ Master steel ruler
Measuring tape Without sensor head With sensor head	 1 mm to 200 m 1 mm to 200 m	 0.8 mm per 5 m 1 mm per 5 m	 CAL005/ Master measuring tape CAL057/ Master measuring tape
Micrometer head	0.1 mm to 5 mm 5 mm to 50 mm	1 µm 2 µm	CAL008/ Master gage blocks
Plastic foil	50 µm to 2 mm	2 µm	CAL050/ External micrometer
Spirit level	Up to 3 m long	0.015 mm/m	CAL034/ Electronic level
Square	50 mm to 300 mm	35 µm	CAL070/ Square & feeler gage
Straight edge	50 mm to 1 m	12 µm	CAL069/ Surface plate & feeler gage
Survey equipment: Theodolite Total station/Laser Scanner Autolevel GNSS	 Horizontal angle: 0° to 360° Vertical angle: -75° to 75° Horizontal angle: 0° to 360° Vertical angle: -75° to 75° Distance: 1 m to 300 m Level precision: 40 m apart Distance: up to 1 km apart	 10” 10” 10” 10” 5 mm 2 mm 15 mm	 CAL088/ Master total station CAL089/ Master total station CAL048/ Measuring staff or steel rule CAL087/ Master GNSS
Thickness gage	1 mm to 50 mm	2 µm	CAL049/ Master gage blocks
Welding gage	Length measurement: up to 100 mm Angle measurement: up to 180°	 0.1 mm 1°	CAL095/ Master caliper, master gage blocks, master angle meter
Mechanical			
Anemometer	0.5 m/s to 1 m/s 1 m/s to 20 m/s	8 % 4 %	CAL072/ Master anemometer & various wind tunnels at different wind speed
Balance	0.05 g to 5 g 5 g to 250 g 250 g to 10 kg 10 kg to 200 kg	0.005 mg 0.04 mg 8 mg 0.01 kg	CAL020/ OIML E2 to M Class standard mass
Compression machine (Force)	0.05 kN to 3000 kN (Class 1)	1 %	CAL039/ BS 1610: Part 1: 85 & 92/ BS EN 12390-4: 2000/ CS1: 1990 & 2010

MEASURED QUANTITY or DEVICE TYPE CALIBRATED	RANGE	UNCERTAINTY[1,2] (±)	CALIBRATION METHOD OR PROCEDURE, STANDARD EQUIPMENT (OPTIONAL)
Universal Testing Machine in compression mode (Force)	0.05 kN to 3000 kN (class 1)	1 %	CAL043/ BS EN ISO 7500-1: 2018
Hydraulic cylinder	0.05 kN to 3000 kN	1 %	CAL045/ Master load cells
Load cell	0.05 kN to 3000 kN	1 %	CAL041/ Master load cells
Flowmeter (air)	1 L/min to 200 L/min	1 %	CAL075/ Master air flowmeters
Flowmeter (water)	0.5 m^3/h to 3.5 m^3/h	1 %	CAL090/ Master water flowmeter
Pressure measuring device	5 Pa to 250 Pa 250 Pa to 2500 Pa 0.3 psi to 30 psi 14 psi to 3000 psi 140 psi to 10000 psi	6 Pa 15 Pa 0.5 % 0.5 % 0.5 %	CAL012/ Master pressure gauges
Rebound hammer	At 80 rebound count	1 rebound count	CAL017/ BS EN 12504-2: 2012 Cl. 4.2
Timer	10 s to 30 min 30 min to 1 hr	0.3 s 0.7 s	CAL046/ Master timer
Torque wrench	0.1 N·m to 1000 N·m	2 %	CAL030/ Master torque meters
Vacuum gauge	0.1 bar to -1 bar	0.5 %	CAL059/ Master vacuum gage
Vibration meter	0.2 ms^{-2} to 20 ms^{-2}	3 %	CAL084/ Master accelerometer & shaker
Water meter	100 L to 500 L	2%	CAL090/ Master water flowmeter

[1]The uncertainty covered by the Calibration and Measurement Capability (CMC) is expressed as the expanded uncertainty having a coverage probability of approximately 95 %. It is the smallest measurement uncertainty that a laboratory can achieve within its scope of accreditation when performing calibrations of a best existing device. The measurement uncertainty reported on a calibration certificate may be greater than that provided in the CMC due to the behavior of the calibration item and other factors that may contribute to the uncertainty of a specific calibration.

[2]When uncertainty is stated in relative terms (such as percent, a multiplier expressed as a decimal fraction or in scientific notation), it is in relation to instrument reading or instrument output, as appropriate, unless otherwise indicated.