

Schedule

CAST Laboratories Pte Ltd
17 Tuas Ave 8
Singapore 639232

Certificate No. : LA-2003-0290-C
Issue No. : 25
Date : 2 September 2026
Expiry of Certificate : 6 September 2028
Page : 1 of 5

FIELD OF TESTING : Calibration and Measurement

MEASURED QUANTITIES/ INSTRUMENT/ RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC *)
A. MECHANICAL		
A1. Pressure Measuring Devices (Laboratory & Site)		
a. Gauges		
b. Transducer		
above (16000 to 40000) psi	) BS EN 837-1 & 3: 1998	0.24 % of maximum scale value
above (10000 to 16000) psi	) CL / CAL / SOP-03: 2019	0.10 % of maximum scale value
above (5000 to 10000) psi	)	0.14 % of maximum scale value
above (2000 to 5000) psi	)	0.12 % of maximum scale value
above (1000 to 2000) psi	)	0.18 % of maximum scale value
above (500 to 1000) psi	)	0.14 % of maximum scale value
above (400 to 500) psi	)	0.15 % of maximum scale value
above (300 to 400) psi	)	0.20 % of maximum scale value
above (200 to 300) psi	)	0.24 % of maximum scale value
above (100 to 200) psi	)	0.10 % of maximum scale value
(0 to 100) psi	)	0.13 % of maximum scale value
(-13 to 0) psi	)	0.28 % of maximum scale value

Page : 2 of 5

The SAC Programme is managed by Enterprise Singapore
230 Victoria Street, #09-00 Bugis Junction Office Tower, Singapore 188024
www.sac-accreditation.gov.sg

Schedule



Certificate No. : LA-2003-0290-C

Issue No. : 25

Date : 2 September 2026

Page : 3 of 5

MEASURED QUANTITIES/ INSTRUMENT/ RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC *)
A3. Universal Testing Machine (Laboratory & Site) Up to 15 kN > (15 to 30) kN > (30 to 50) kN > (50 to 100) kN > (100 to 200) kN > (200 to 300) kN > (300 to 400) kN > (400 to 500) kN > (500 to 1 000) kN > (1 000 to 2 000) kN > (2 000 to 3 000) kN	CL/CAL/SOP-06-R2-SEP 2021 BS EN 7500-1:2018	0.021 kN 0.021 kN 0.12 kN 0.15 kN 0.30 kN 0.12 kN 0.12 kN 0.19 kN 0.98 kN 1.7 kN 1.0 kN
A4. Concrete Compression Testing Machine a. Platen Self Alignment b. Alignment of Machine c. Components d. Restraint on movement of the upper platen Up to 15 kN > (15 to 30) kN > (30 to 50) kN > (50 to 100) kN > (100 to 200) kN > (200 to 300) kN > (300 to 400) kN > (400 to 500) kN > (500 to 1 000) kN > (1 000 to 2 000) kN > (2 000 to 3 000) kN	CL/CAL/SOP-05-R2-SEP2021 BS EN 12390-4:2019	0.021 kN 0.021 kN 0.12 kN 0.15 kN 0.30 kN 0.12 kN 0.12 kN 0.19 kN 0.98 kN 1.7 kN 1.0 kN

Schedule



Certificate No. : LA-2003-0290-C

Issue No. : 25

Date : 2 September 2026

Page : 4 of 5

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A5. Concrete Batching Plant		
1 kg to 5 kg	) CL/CAL/SOP-11-R1-MAY 2026	0.20 %
above 5 kg to 10 kg	)	0.10 %
above 10 kg to 50 kg	)	0.060 %
above 50 kg to 100 kg	)	0.060 %
above 100 kg to 200 kg	)	0.030 %
above 200 kg to 500 kg	)	0.040 %
above 500 kg to 1000 kg	)	0.060 %
above 1000 kg to 2000 kg	)	0.040 %
above 2000 kg to 3000 kg	)	0.040 %
above 3000 kg to 4000 kg	)	0.040 %
above 4000 kg	)	0.050 %
A6. Balances and Weighing Scales		
<u>Range for E2 Standard Mass</u>	) CAL-S014-R3-MAY2026	
0.001 g to 20 g	)	0.00016 g
>20 g to 220 g	)	0.00052 g
	)	
<u>Range for F1 Standard Mass</u>	)	
0.001 g to 20 g	)	0.00013 g
>20 g to 220 g	)	0.00035 g
>220 g to 300 g	)	0.0053 g
>300 g to 6000 g	)	0.058 g
>6 kg to 20 kg	)	0.13 g
>20 kg to 60 kg	)	3.1 g

Schedule



Certificate No. : LA-2003-0290-C

Issue No. : 25

Date : 2 September 2026

Page : 5 of 5

MEASURED QUANTITIES/ INSTRUMENT/ RANGE TO BE CALIBRATED	METHOD	CALIBRATION AND MEASUREMENT CAPABILITY (CMC *)
B. TEMPERATURE Temperature Enclosure (by RTD) a. Oven / Incubator (On Site) 20 °C to 80 °C > 80 °C to 150 °C > 150 °C to 200 °C b. Water Bath (by RTD) (On Site) 20 °C to 100 °C	) CL/CAL/SOP-07-R7-MAY2026))))) CL/CAL/SOP-08-R5-MAY2026)	 1.1 °C 1.4 °C 3.4 °C 0.7 °C

* CMC is expressed as an expanded uncertainty estimated at a level of confidence of approximately 95%.

Approved Signatories:

Mr Benedict Lim	- For all items
Mr R. Arunprasath	- For all items (except A5)
Mr Tee Boon Huat	- For A1 and A5

Note :

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment of the requirements of ISO/IEC 17025 means the laboratory meets both the technical competence requirements and **management system requirements** that are necessary for it to consistently deliver technically valid calibrations. The **management system requirements** in ISO/IEC 17025 are written in language relevant to laboratory operations and operate generally in accordance with the principles of ISO 9001.