SINGAPORE LABORATORY ACCREDITATION SCHEME

Accredited Laboratory SAC-SINGLAS

Schedule

Castconsult Sdn Bhd
PTD 42928 Jalan Murni 12,
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81400 Senai,
Johor, Malaysia

Certificate No. : LA-1988-0023-B-1

Issue No. : 16

Date : 17 October 2025

Expiry Date : 27 October 2026

FIELD OF TESTING: Civil Engineering Testing

MATERIALS / PRODUCTS TESTED		TESTS / PROPERTIES		STANDARD METHODS / TECHNIQUES / EQUIPMENT
A	Concrete			
i	Hardened Concrete	1	Density	BS EN 12390-7: 2019
		2	Compressive strength of cubes	BS EN 12390-3: 2019
		3	Rapid Chloride Penetration Test	ASTM C 1202: 2025
		4	Water penetration	DIN 1048 Part 5: 1991 BS EN 12390-8: 2019
		5	Compressive strength test on Concrete Core	BS 1881: Part 120: 1983 BS EN 12504 Part 1: 2019 BS EN 12390 Part 3: 2019
		6	Tensile Splitting Strength	BS EN 12390-6: 2023
		7	Measuring the Flexural Tensile Strength of Metallic Fibered Concrete	BS EN 14651: 2005+ A1: 2007
		8	Flexural Strength	BS EN 12390-5 :2019
		9	Petrographic examination of Hardened Concrete	ASTM C856 / C856M-20
		10	Determination of water Absorption	BS 1881-122:2011+A1:2020
		11	Initial Drying Shrinkage of Concrete	ASTM C157/C157M-24e1
ii	Fresh Concrete	1	Dimensional Measurement on Cube Mould	BS EN 12390-1: 2021 SS78: Pt A8: 1987
B.	Aggregates	1	Particle size distribution by sieving	BS EN 933: Part 1: 2012
		2	Clay, Slit & Dust Content (Decantation)	BS EN 933: Part 1: 2012
		3	Determination of particle shape	BS EN 933-4: 2008

MATERIALS / PRODUCTS TESTED		TESTS / PROPERTIES		STANDARD METHODS / TECHNIQUES / EQUIPMENT
		4	Determination of Shell content	BS EN 933-7: 1998
		5	Determination of bulk density & voids	BS EN 1097-3: 1998
		6	Determination of Particle density & Water Absorption	BS EN 1097-6: 2022
		7	Flakiness Index	BS EN 933-3:2012
		8	Moisture Content	BS EN 1097-5: 2008
		9	LA Abrasion Value	BS EN 1097-2: 2020
		10	Mortar Bar Method	ASTM C 1260- 23
		11	Drying Shrinkage	BS EN 1367-4:2008
		12	Crushing value	BS 812: Part 110: 1990
		13	Soundness	ASTM C88/C88M-24 BS EN 1367-2:2009(E)
		14	Petrographic	BS EN 932-3: 2022 ASTM C295M-19
C.	Cement (Physical)	1	Setting time	BS EN 196-3: 2016
		2	Soundness	BS EN 196-3: 2016
		3	Fineness	BS EN 196-6: 2018
		4	Compressive strength	BS EN 196-1: 2016
D	Steel Reinforcement Bar	1	Tensile Test	SS2: 1987 SS2: Pt 1: 1999
		2	Bend Test	SS2: Pt 2: 1999
		3	Rebend Test	SS2: Pt 3: 1987
		4	Dimensional Measurement / Surface Geometry	SS 456: 1999 SS 427: 1998 BS 4449: 2005 + A3: 2016 BS EN ISO 6892-1: 2019 BS EN ISO 15630-1:2019 SS 560: 2016(2024) +A1:2024 BS 4482: 2005

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E	Seven wire prestressing strand/high tensile steel wire prestressing steel	1	Full Tensile Test	BS 5896: 1980 BS 5896: 2012 ASTM A416/416 M-2024 SS475: Pt 1 & 4: 2000 BS EN ISO 6892-1: 2019 BS EN ISO 15630-3:2019 ASTM A1061/A1061M-20ae1
F	Welded Steel Fabric	1 2 3 4	Tensile Test Bend Test Rebend Test Weld Shear Test	SS 18: Pt 1: 1999 SS 18: Pt2: 1970(1981) SS 32: Pt 1: 1999 SS 32: Pt 2: 1986 SS 427: 1998 SS 456: 1999 SS 561:2010(2022) + A2:2022 BS EN ISO 15630-1: 2019 BS EN ISO 15630-2: 2019 BS EN ISO 6892-1: 2019 BS 4483: 2005
G	Reinforcement Steel Bar with Coupler	1	Tensile Load	MEC-S029-R2-OCT18 AUG 22 (BS 8110 -1: 1997)
		2	Tensile Test & Slip Test (Permanent Elongation)	ISO 15835-2: 2018
H	Hardened concrete NDT	1	Covermeter Test	BS 1881: Pt 204: 1988
		2	Penetration Resistance Test	ASTM C803 / 803M-25
I	Structural steel / Metallic material	1	Tensile test	ASTM A370 –24A BS EN ISO 6892-1: 2019 JIS Z 2241: 2022 SS 456: 1999
J	Structural Fixing	1	Pull out Test	BS 5080 : Part 1 : 1993 BS EN 13146-10:2017 Cast/ndtconc/tm/002/Nov 2004

Approved Signatories

Mr Mohd Nizam	For Ai1 to Ai3 & B1 to B9
Mr Kwek Yeow Seah	For Ai1 to Ai2, B1 to B8, H1 & H2
Ms Norlaila Bte Gulam Akbar	For all tests (except B14 & Ai9)
Mr Mohd. Nazrul Bin Adnan	For Ai1 to Ai2, Ai6-Ai7, Aii1, D1 to D3, E1, F1, H1 & H2, J1
Ms Nurel Mazleena	For Ai1 to Ai2, B1 to B9, B10 to B12
Mr Mohamad Zaki bin Mat Riffin	For D1 to D3, E1, F1 to F4, G1, G2 & I1, D4
Mr Mohamad Shahrul Aizie bin Pauzi	For Ai8, Aii1, B1 to B9, B12, Ai10 & J1
Mr Muhammad Nazreen bin Mohd Tarmizi	For Ai9 & B14
Mr Mohd Farhan Amir Bin Abu Talib	For D1 to D3, E1, F1 to F4, G1, G2 & I1

Note:|

This laboratory is accredited in accordance with the recognized 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 test results. 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.