

Schedule

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Certificate No. : LA-1988-0023-B-1
Issue No. : 17
Date : 6 October 2026
Expiry Date : 27 October 2030
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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-25
	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

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	3 Determination of particle shape	BS EN 933-4: 2008
	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
	15 Impact Value	BS 812: Part 112: 1990
	16 10% Fine Value	BS 812: Part 111: 1990
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 Soil	1 California Bearing Ratio (CBR Soaked)	BS 1377-2:2022 (Clause 15)
	2 Compaction Test (4.5kg Hammer Method)	BS 1377-2:2022 (Clause 11.5)
	3 Liquid Limit (Fall Cone)	BS 1377-2:2022 (Clause 5) BS EN ISO 17892-12:2018+A2:2022
	4 Plastic Limit	BS 1377-2:2022 (Clause 6) BS EN ISO 17892-12:2018+A2:2022

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	5 Particle Size Distribution (Hydrometer)	BS 1377-2:2022 (Clause 10) BS EN ISO 17892-4:2016
	6 Particle Size Distribution (Wet Sieving)	BS 1377-2:2022 (Clause 10) BS EN ISO 17892-4:2016
	7 Triaxial Test (CU)	BS 1377-2:2022 (Clause 29) BS EN ISO 17892-9:2018
	8 Water Content	BS 1377-2:2022 (Clause 4.1)
	9 Particle Density	BS 1377-2:1990 BS EN ISO 17892-3:2015
	10 Bulk Density by Linear Method	BS 1377-2:2022 (Clause 8) BS EN ISO 17892-2:2014
	11 Triaxial Test (CD)	BS 1377-2:2022 (Clause 30) BS EN ISO 17892-9:2018
	12 Triaxial Test (UU)	BS 1377-2:2022 (Clause 28) BS EN ISO 17892-8:2018
	13 Unconfined Compression Test	BS 1377-2:2022 (Clause 27) BS EN ISO 17892-7:2018
E Steel Reinforcement Bar	1 Tensile Test 2 Bend Test 3 Rebend Test 4 Dimensional Measurement / Surface Geometry	SS2: Pt 1: 1999 SS2: Pt 2: 1999 SS2: Pt 3: 1987 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
F Seven wire prestressing strand/high tensile steel wire prestressing steel	1 Full Tensile Test	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
G Welded Steel Fabric	1 Tensile Test 2 Bend Test 3 Rebend Test 4 Weld Shear Test	SS 18: Pt 1: 1999 SS 18: Pt2: 1970(1981) SS 32: Pt 1: 1999 SS 32: Pt 2: 1986

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H	Reinforcement Steel Bar with Coupler	1 Tensile Load	SS 561:2010(2022) + A2:2022 BS EN ISO 15630-1: 2019 BS EN ISO 15630-2: 2019 BS EN ISO 6892-1: 2019
		2 Tensile Test & Slip Test (Permanent Elongation)	BS 4483: 2005 MEC-S029-R2-OCT18 AUG 22 (BS 8110-1: 1997) ISO 15835-2:2018
I	Hardened Concrete NDT	1 Covermeter	BS 1881: Pt 204: 1988
		2 Penetration Resistance Test	ASTM C803/C803M-25
J	Structural Steel / Metallic Material	1 Tensile Test	BS EN ISO 6892-1:2019 ASTM A370-24A JIS Z 2241:2022
K	Structural Fixing	1 Pull Out Test	BS 5080: PART 1: 1993 BS EN 13146-10:2017 CAST/NDTCONC/TM/002/NOV 2004

Approved Signatories

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Nur Munirah binti Mohd Rozmi
Muhammad Farid bin Abdul Razak
Mohd Yusof bin Sukarti

For Ai1 to Ai3 & B1 to B9
For Ai1 to Ai2, B1 to B8, I1 & I2
For all tests (except B14, Ai9 & D3 – 13)
For Ai1 to Ai2, Ai6-Ai7, Aii1, E1 to E3, F1, G1, I1 & I2, K1, D1-D13
For Ai1 to Ai2, B1 to B9, B10 to B12, D3-D10
For E, F, G, H, J
For Ai9 & B14
For E, F, G, H, J (except E4)
For Ai4, Ai5, Ai10, B1-B7, B9, B12, B15, B16, D1-D2, I2, K1
For Ai4, Ai10, B1-B7, B9, B12, B15, B16, D1-D2, I2, K1
For Ai4, Ai5, Ai10, B1-B7, B9, B12, B15, B16, D1-D2, I2, K1
For D3 – D13
For D1 – D13
For D3 – D13

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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.