

SINGAPORE LABORATORY ACCREDITATION SCHEME



Schedule

CAST Laboratories Pte Ltd
17 Tuas Ave 8
Singapore 639232

Certificate No. : LA-1988-0023-B
Issue No. : 33
Date : 29 October 2025
Expiry of Certificate : 27 October 2026
Page : 1 of 16

FIELD OF TESTING : Civil Engineering Testing

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
A. Aggregates	1. LA Abrasion value (Resistance to Fragmentation)	ASTM C131/131M-20 SS 73 : 1974 BS EN 1097-2: 2020	) KYS/LEH/TG)))
	2. Bulk Density & Voids	BS 812-2 : 1995 SS 73 : 1974 BS EN 1097 -3:1998	))))
	3. Crushing Value	BS 812:Pt 110:1990 SS 73 : 1974	)))
	4. Elongation Index	BS 812 : Pt 105.2 : 1990 SS 73 : 1974	)))
	5. Flakiness Index	BS 812 : Pt 105.1 : 1989 SS 73 : Pt 5.1 : 1992 BS EN 933 -3 : 2012	))))
	6. Impact Value	BS 812 : Pt 112 : 1990 SS 73 : 1974	)))
	7. Organic Impurities	ASTM C40/C40M-20	))
	8. Silt Content	SS 73: 1974 (1992)	))
	9. Particle Size Distribution	BS 812 : Pt 103.1 : 1985 SS 73:1974 BS EN 933-1 : 2012.	)))

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 2 of 16

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
	10. Particle Density /Water Absorption	BS 812-2 : 1995 SS 73 : 1974 BSEN 1097-6 : 2022	) KYS/LEH/TG)))
	11. Fine Content	BS EN 933 -1 : 2012	))
	12. Water Content (Moisture Content Oven Dry Method)	BS EN 1097-5 : 2008	)))
	13. 10% Fine Value	BS 812 : Pt 111 : 1990 SS 73 : 1974	)))
	14. Shell content	BS EN 933-7 : 1998	))
	15. Potential Alkali Reactivity for Aggregates (Mortar Bar Method)	ASTM C1260 - 23	) FSM/KYS/TG))
	16. Particle Density of filler	BS EN 1097- 7: 2022	) KYS/TG)
	17. Methylene Blue	BS EN 933-9 : 2022	)))
	18. shape index	BS EN 933 – 4 : 2008	)
	19. Test for Thermal and Weathering Properties of Aggregates Part 4: Determination of Drying Shrinkage	BS EN 1367-4 : 2008	) FSM/KYS/TG)))
	20. Sampling	BS EN 932-1 : 97	) KYS/LEH/TG)
	21. Materials Finer than 75 µm	ASTM C117-23	)
	22. Sand Equivalent Test	BS EN 933-8: 2012+A1: 2015	) KYS/TG))
	23. Percentage of Fractured Particles	ASTM D5821-13 (2017)	))
	24. Water Absorption (coarse)	ASTM C127-24	) KYS/TG)
	25. Water Absorption (fine)	ASTM C128-22	)))
	26. Sieve Analysis	ASTM C136/C136M-19	)

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 3 of 16

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
B. Bricks	1. Compressive Strength	SS 103 : 1974 (Confirmed 1989) BS EN 772 - 1 : 2011 +A1: 2015	) KYS))))
	2. Dimensions	SS 103 : 1974 (Confirmed 1989) BS EN 772 - 16 : 2011	)))
	3. Water Absorption	BS EN772 – 7 :1998 SS 103 : 1974 (except Method V, Confirmed 1989)	) KYS))))
	4. Determination of total / Salts content	SS 103 : 1974 (Confirmed 1989)	)))
	5. Efflorescence Test	SS 103 : 1974 (Confirmed 1989)	)))
C. Concrete 1. Hardened Concrete	1. Compression Test on Cubes	SS 78 : Pt A16 : 1987 BS EN 12390: Pt 3: 2019	) KYS/ FSM/CYK)
	2. Compression Test on Cylinders	ASTM C39 / C39M-24 BS EN 12390: Pt 3: 2019	) KYS/FSM))
	3. Compression Test on Concrete Cores	SS 78 : Pt A20 : 1987 (BS EN 12504: Pt 1: 2019) BS EN 12390: Pt 3: 2019 ASTM C39 / C39M-2021	)))))
	4. Density Test on Hardened concrete/ cores (a) as-received density (b) oven-dried density (c) saturated density	BS EN 12390 : Pt 7 : 2019 SS 78: Pt A 14:1987	) KYS/FSM/CYK))))
	5. Flexural Strength	BS EN 12390: Pt 5: 2019	) KYS/ FSM)
	6. Water Absorption	BS 1881: Pt 122: 2011 + A1: 2020 SS 78 : Pt A22 : 1987	))))
	7. Indirect Tensile Strength (Splitting Tensile Strength)	SS 78 : Part A17 : 1987 BS EN 12390: Part 6:2023 ASTM C496-2011	) KYS/ FSM))

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 4 of 16

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
	8. Static Modulus of Concrete	BS 1881 : Part 121 : 1983	) KYS
	9. Rapid Chloride Penetration Test	ASTM C1202-25	) KYS/FSM
	10. Absorption & Permeability Voids Test	ASTM C642-2021	) KYS
	11. Depth of Penetration of Water Under Pressure	DIN 1048 Part 5 : 1991 BS EN 12390-8: 2019	) KYS/FSM)
	12. Initial Surface Absorption Test	BS 1881 : Pt208 : 1996	) KYS
	13. Measuring the flexural tensile strength (limit of proportionality (LOP), residual)	BS EN 14651: 2005+A1: 2007	) KYS/FSM/BL/) TG)))
	14. Measuring the fibre content in fresh and hardened Concrete	BS EN 14721: 2005+A1: 2007	)))
	15. Flexural Performance of Fiber-Reinforced Concrete (Using Beam with Third point Loading)	ASTM C1609/C1609M-24	) KYS/FSM/BL/) TG
	16. Flexural Toughness of Fiber Reinforced Concrete (Using Centrally Loaded Round Panel)	ASTM C1550-25	) KYS/FSM/BL/) TG/ST))
	17. Testing Sprayed Concrete Part 3: Flexural Strength (first peak, ultimate and Residual) of fibre reinforced Beam Specimens	BS EN 14488-3 : 2023	) KYS/FSM/BL/) TG/ST)))
	18. Testing Sprayed Concrete Part 5: Determination of Energy Absorption Capacity of Fibre Reinforced Slab Specimen	BS EN 14488-5: 2006	) KYS/FSM/BL/) TG/ST)))

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 5 of 16

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
2. Hardened Concrete NDT	1. Covermeter Test	BS 1881 Pt 204 : 1988 SS78 : Pt B4:1992, 2013	) LEH/MURU/NN))
	2. Ultrasonic Pulse Velocity Test	BS EN 12504-4 : 2021 (Longitudinal Waves Only) SS 78 : Pt B3 : 1992 ASTM C597- 22	))))
	3. Rebound Hammer Test	SS 78: Pt B2 :1992 BS EN 12504-2 : 2021	) LEH/MURU/NN))
	4. Penetration Resistance Test	ASTM C803/803M-2023 ASTM C803/803M-2025	)))
	5. Half-cell potential Measurement	ASTM C876- 22B	) LEH/MURU)
	6. Measurement of Carbonation (Cores / Broken Concrete)	BRE IP 6/81 BS EN 14630: 2006	) LEH/MURU))
	7. In-situ Pull out test on tiles, Plaster, prepacked plaster Skimcoat and screed	CAST/SITE/HCN/001/12 BS EN 1015-12:16	) KYS/MURU/LEH/) NN
3. Fresh Concrete	1. Dimensional Measurement On Cube Mould	SS78 : Pt A8: 1987 BS EN 12390-1: 2021, Clause 5	) KYS/LEH/FSM))
4. Precast Concrete Units			
i. Concrete Blocks	1. Compressive Strength	SS 271: 1983	) KYS/LEH/))
	2. Density Test		)))
	3. Dimension Measurement		)))
ii. Concrete Masonry	1. Compressive Strength	SS 271 : 1983 BS EN 772 – 1 :2011 +A1: 2015	))))
	2. Water Absorption	BS EN 772 – 11 :2011 SS 271 : 1983	)))
	3. Dimension Test	BS EN 771 – 3 :2011 +A1: 2015 BS EN 772 – 16 :2011	))))

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 6 of 16

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
iii. Concrete Paving Blocks	1. Compressive Strength	BS 6717-1 : 1993	) KYS/LEH/FSM
	2. Dimension Test	BS 6717-1 : 1993 BS EN 1338 :2003	) KYS)
	3. Total Water Absorption	BS EN 1338: 2003 (Annex E)	) KYS)
	4. Surface Layer Thickness	CAST/ BTD/ CPB/001/12	) KYS/ FSM
iv. Concrete Kerbs	1. Compressive Strength	SS 214 : 2022 BS EN 12390: Pt 3: 2019	) KYS/ FSM)
v. Concrete Kerbs / Dividers/ Channels Kerb	1. Bending Strength	SS 214 : 2022 BS EN 1340 : 2003 Annex F	) KYS/ FSM)))
	2. Water Absorption	SS 214 : 1999 BS 7263 – 1 : 1994	)))
vi. Concrete Flags/ Slabs/Kerb	1. Bending Strength	BS 7263-1 : 2001	) KYS/ FSM)))
	2. Total Water Absorption	BS EN 1339 : 2003 Annex E	))))
	3. Layer Thickness	CAST/BTD/CFS/002/12	)
vii. Precast Concrete Units/ Concrete Kerbs/ Dividers/ Channels	1. Total Water Absorption	SS 214 : 2022 BS EN 1340 : 2003 Annex E	) KYS/ FSM))
viii Ferro-cement Slab	1. Dimensional measurement	CAST/ MAT /TM/ 010-99	) KYS/ FSM)
	2. Initial surface absorption test	BS 1881 : Pt 208 :1996	))
	3. Carbonation test	BRE IP 6/82 BS EN 14630:2006	)))
D. Hot Dip Galvanised Steel	1. Thickness of Coating	BS EN ISO 1461: 2022	MURU
E. Bituminous Mixtures	1. Bitumen Content	ASTM D2172 / D2172M-24 (Method A – Centrifuge Extraction)	) KYS/TG/MI))

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 7 of 16

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
i. Pavement and Asphalt Materials	2. Measurement of density of cores	BS 598 : Pt 104 : 2005 (Clause 4)	) KYS/CH/TG/MI
	3. Bulk Specific Gravity and Density	ASTM D2726 / D2726M - 21	) KYS/CH/TG/MI
	4. Marshall Test	BS 598 : Pt 107 : 2004	) KYS/TG/MI
	5. Resistance to Plastic Flow (Stability and Flow)	ASTM D1559-89	)
	6. Marshall Stability and Flow (Dense-graded mixtures)	ASTM D6927-22	)
	7. Particle Size Distribution	BS 812 : Pt 103.1 : 1985 BS EN 933 - 1 : 2012	)
	8. Percentage Voids Density of Core Method	BS 598 : Pt 104 : 2005 Annex E	)
	9. Thickness of Core	ASTM D3549/D3549M-18 (2023)	) KYS/CH/TG/MI
	10. Bitumen Content by Ignition Method	ASTM D6307-19 (Method A)	) KYS/TG/MI
	11. Determination of Wheel- Tracking Rate (Dry)	BS 598 : Pt 110 : 1998	) KYS/TG/MI
	12. Los Angeles Abrasion	CAST/PAV/LAA 003/21	)
	13. Measuring Pavement Macrotexture Depth (Volumetric Technique)	ASTM E965-15(2024)	) KYS/MURU
	14. Measuring Surface Frictional & Properties (British Pendulum Tests)	ASTM E303-93 (2018) ASTM E303-22	) KYS/MURU//NN
	15. Measuring Longitudinal Profile and Computing - International Roughness Index (IRI)	CAST/SITE/IRI/001/2017	) MURU/NN/KYS/ MM
	16. Effect of Moisture on Asphalt Concrete Paving Mixture - Tensile Strength Ratio (TSR)	ASTM D4867/D4867M-09, 22e1	) KYS/TG/MI
ii. Asphalt Concrete Paving Mixture			

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 8 of 16

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
F. Soil	17. Sieve Analysis of Extracted Aggregate	ASTM D5444-24	) KYS/TG/MI)
	18. Theoretical Maximum Specific Gravity & Density	ASTM D2041/D2041M -19	) KYS/TG/MI))
	19. Percent Air Voids	ASTM D3203/D3203M-22	)))
	20. Preparation of Bituminous Specimens using Marshall Apparatus	ASTM D6926- 20	))))
	21. Draindown Characteristics in Uncompacted Asphalt Mixtures	ASTM D6390- 23	)))
	22. Indirect Tension Test for Resilient Modulus of Bituminous Mixtures	ASTM D4123-82 (Reapproved 1995) ASTM D7369-20	) KYS/TG/MI))
	1. Bulk Density	BS 1377 : Pt 2 : 1990 (Clause 7.2) BS 1377 : Pt 2 : 2022 (Clause 8) BS EN 17892-2 : 2014	) AKL/MT/MBK/TKL/) UM)))
	2. California Bearing Ratio	BS 1377 : Pt 4 : 1990 (Clause 7) BS 1377 : Pt 2 : 2022 (Clause 15) ASTM D1883 - 21	) MT/MBK/TKL))))
	3. Consolidation Test (1-Dimensional)	BS 1377 : Pt 5 : 1990 (Clause 3)	) AKL/TKL/UM)
	4. Direct Shear Test	BS 1377 : Pt 7 : 1990 (Clause 4) BS 1377 : Pt 2 : 2022 (Clause 25) BS EN 17892-10 : 2018	) AKL-MT/TKL))))
	5. Dry Density / Moisture Content Relation	BS 1377 : Pt 4 : 1990 (Clause 3) BS 1377 : Pt 2 : 2022 (Clause 11)	) MT/MBK/TKL)))
	6. In-situ Dry Density (Sand Replacement)	BS 1377 : Pt 9 : 1990 (Clause 2)	) WT/MT)

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 9 of 16

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
	7. Liquid Limit (Cone Penetrometer)	BS 1377 : Pt 2 : 1990 (Clause 4.3) BS 1377 : Pt 2 : 2022 (Clause 5) BS EN 17892-12 : 2018 +A2 : 2022 ASTM D4318 -17	) AKL/MT/TKL/) MBK/UM))))) AKL/TKL
	8. Plastic Limit	BS 1377 : Pt 2 : 1990 (Clause 5.3) BS 1377 : Pt 2 : 2022 (Clause 6) BS EN 17892-12 : 2018 +A2 : 2022 ASTM D4318-17	) AKL/MT/TKL/) MBK/UM))))) AKL/TKL
	9. Plasticity index	BS 1377:Pt 2: 1990 (Clause 5.4) BS 1377 : Pt 2 : 2022 (Clause 6) BS EN 17892-12 : 2018 +A2 : 2022 ASTM D4318-17	) MT/AKL/TKL/) MBK/UM))))) AKL/TKL
	10. Moisture Content (Lab)	BS 1377 : Pt 2 : 1990 (Clause 3.2) BS 1377 : Pt 2 : 2022 (Clause 4) BS EN 17892-1 : 2014 AASHTO T 265-22 ASTM D2216-19	) AKL/MT/MBK/) TKL/UM)))) AKL/TKL/UM MT/TKL
	11. Particle Density	BS 1377 : Pt 2 : 1990 (Clause 8.3) BS 1377 : Pt 2 : 2022 (Clause 9) BS EN 17892-3 : 2015	) AKL/MT/TKL/MBK/) UM))))
	12. Particle Size Distribution (Hydrometer)	BS 1377 : Pt 2 : 1990 (Clause 9.5) BS 1377 : Pt 2 : 2022 (Clause 10) BS EN 17892-4 : 2016	) AKL/MT/TKL/MBK/) UM))))

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 10 of 16

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
	13. Particle Size Distribution (Wet Sieving)	BS 1377 : Pt 2 : 1990 (Clause 9.2) BS 1377 : Pt 2 : 2022 (Clause 10) BS EN 17892-4 : 2016	) AKL/MT/TKL/MBK/) UM)))
	14. Triaxial Test (CD)	BS 1377 : Pt 8 : 1990 (Clause 8) BS 1377 : Pt 2 : 2022 (Clause 30) BS EN 17892-9 : 2018	) AKL/TKL/UM))))
	15. Triaxial Test (CU)	BS 1377 : Pt 8 : 1990 (Clause 7) BS 1377 : Pt 2 : 2022 (Clause 29) BS EN 17892-9 : 2018	) AKL/TKL/UM))))
	16. Triaxial Test (UU)	BS 1377 : Pt 7 : 1990 (Clause 8) BS 1377 : Pt 2 : 2022 (Clause 28) BS EN 17892-8 : 2018	) AKL/TKL/UM))))
	17. Unconfined Compression Test	BS 1377 : Pt 7 : 1990 (Clause 7.2 & 7.3) BS 1377 : Pt 2 : 2022 (Clause 27) BS EN 17892-7 : 2018 ASTM D2166:16	) AKL/MT/TKL/MBK)))) AKL/MT
	18. Density & Moisture Content -Nuclear Density Gauge	ASTM D6938-23 BS 1377 : Part 9:1990	) WT/MT)
	19. In-situ Density by Core Cutter Method	BS 1377 : Part 9 : 1990	MT/MBK/TKL
	20. Plate Bearing Test	BS 1377 : Part 9 : 1990	WT/UM
	21. Determination of Thermal Conductivity of Soil & Soft Rock by Thermal Needle Probe procedure	ASTM D5334-08, 14, 22a ⁸¹	) TKL/MBK)))
	22. Moisture Content by Speedy tester	ASTM D4944-2011, 2018 BS 812-109: 1990	) KYS/MT/WT) MT/WT

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 11 of 16

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
	23. Linear shrinkage	BS 1377: Pt 2: 1990	) MT/TKL
		BS 1377: Pt 2: 2022 (Clause 7)	) MT/TKL/MBK
	24. Max & Min dry density	BS 1377: Pt 4:1990	) KYS/MT/TKL
		BS 1377: Pt 2 : 2022 (Clause 12)	) MT/TKL
	25. Density index (cl 4)	BS 1377: Pt 4:1990	) KYS/MT/TKL
		BS 1377: Pt 2: 2022 (Clause 12)	) MT/TKL
	26. Insitu California Bearing Ratio (CBR) Site Test	BS 1377: Pt 9: 1990 (Clause 4.3)	) WT/MT
	27. Lab Compaction of Soil - Standard Effort	ASTM D698-12e2	) MT/MBK/TKL))
	28. Lab Compaction of Soil - Modified Effort	ASTM D1557-12e1	)
	29. Density of Asphalt Mixture using NDG	ASTM D2950/ D2950M-22	) WT/MT
G. Rock cores	30. Resilient Modulus of Soil and Aggregate Materials	AASHTO T 307-99 (2017)	) AKL/TKL/UM
	1. Point Load Strength Index	ASTM D5731-16	) TKL/MBK)
	2. Unconfined Compression Test	ASTM D7012-23 (Method C only)	))
	3. Water (Moisture) Content	ASTM D2216-19	TKL/MBK
	4. Slake Durability of Shales and Other Similar Weak Rocks	ASTM D4644-16	TKL/MBK
H. Tiles	1. Water Absorption, apparent porosity, apparent relative density and bulk density	BS EN ISO 10545-3:2018	) FSM/ST))
	2. Friction Coefficient, Dry Floor Friction Test (Slip resistance test)	SS 485 : 2011(Annex B), SS 485 : 2022 (AS 4586-2013/Appendix B)	) FSM/NN/MURU/) MM/ST/TS)

 Accredited
Laboratory
SAC-SINGLAS

Issue No. : 33

Page : 12 of 16

www.sac-accreditation.gov.sg

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 13 of 16

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
M. Cement i Cem I/ Cem II Cem III/Cem IV Cem V types as per SS EN 197-1: 2008	4. Density of fresh concrete	BS EN 12350-6 : 2009,2019 BS EN 480-1 : 2023	)))
	5. Setting	BS EN 12390-3: 2009, 2019 BS EN 480-1 : 2023	)))
	6. Compressive Strength	BS EN 12390-3: 2009, 2019 BS EN 480-1 : 2023	))
	1. Fineness (Blaine Air Method)	BS EN 196: Pt 6: 2010,2018 SS 397: Pt 6: 1997 SS26: 1984 (1997)	) KYS/FSM)))
	2. Standard Consistency Setting Time Soundness	BS EN 196-3: 2005 + A1: 2008, 2016 SS 397: Pt 3 : 1997 SS 26: 1984 (1987)	))))
	3. Compressive Strength	BS EN 196 : Pt 1: 16 SS 397 : Pt 1 : 1997 SS 26 : 1987 (1997)	)))
	ii GGBS	BS EN 15167 : Pt 1 : Annex A : 2006 SS EN 15167 : Pt 1 : Annex A : 2008 (2016)	))))
	Building Materials		
	i Prepacked Plaster	1. Tension Adhesion Strength 2. Linear Shrinkage	) FSM)))
	ii Prepacked Skimcoat	1. Tension Adhesion Strength 2. Linear Shrinkage	))))
	iii Floor Screed and Water Proof Screed	1. Compressive Strength 2. Flowability (hydraulic cement mortar) 3. Slip/skid Resistance of Surface – Pendulum Test	)))))))

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 14 of 16

ITEMS/MATERIALS/ PRODUCTS TESTED	TESTS/PROPERTIES	STANDARD METHODS/ TECHNIQUES EQUIPMENT	APPROVED SIGNATORY
iv Tile Adhesive	1. Determination of Tensile Adhesion Strength	) BS EN 12004-2: 2017))	)))
	2. Determination of Open Time	))	))
	3. Transverse Deformation Test	)	))
v Tile Grout	1. Determination of Resistance to Abrasion	) BS EN 13888-2: 2022))	)))
	2. Determination of Flexural Strength & Compressive Strength	))))	))))
	3. Determination of Shrinkage	))	))
	4. Determination of Water Absorption	))	))
O. Structural Fixings	1. In-situ pull out test on Structural fixings	CAST/ NDT CONC/TM/ 002/ Nov 2004	) MURU
P. Paint / Coating	1. Non-Destructive Measurement of Dry Film Thickness of Non- Magnetic Coatings Applied to a Ferrous Base	ASTM D7091-22	) MURU))
Q. Repair Materials Compressive Strength	1. Compressive strength of hydraulic cement mortar (50 mm cubes)	ASTM C109/109M- 24	KYS/ FSM
R. Curtain Walls & Window joints	1. Water Penetration test (field water tightness test)	CAST/SITE/WTT/001/12 (CONQUAS 21) AAMA 501.2: 09	) KYS))
S. Cement Treated Base	1. Moisture Density Relationship	) ASTM D558/D558M-19) (Method A)	) MT/TKL)
	2. Optimum Moisture Content	))	))
	3. Maximum Dry Density	)	)
	4. Liquid Limit, Plastic Limit and Plasticity Index	ASTM D4318-17	AKL/TKL
T. Paints	1. Non-volatile Matter	SS 5: Pt B2: 2013 (2018)	) FSM/TG)
	2. Dilution	CAST/MAT/TM/002-2019	)

 Accredited
Laboratory
SAC-SINGLAS

Issue No. : 33

Page : 15 of 16

www.sac-accreditation.gov.sg

Schedule



Certificate No. : LA-1988-0023-B

Issue No. : 33

Date : 29 October 2025

Page : 16 of 16

Approved signatories

1. Mr Kwek Yeow Seah	KYS	2. Mr Lim Eng Heng	- LEH
3. Mr Foo Siang Meng	- FSM	4. Mr T Murugesan	- MURU
5. Mr Aung Ko Lat	- AKL	6. Mr Naina Mohamed	- NN
7. Mr M. Krishnamoorthy	- MT	8. Mr Myo Win Tun	- WT
9. Mr Benedict Lim	- BL	10. Ms Mie Mie Sein Hla	- MM
11. Mr Chong Yong Keong	- CYK	12. Mr Ting Kuok Loong	- TKL
13. Mr Sathianthan Vadiveoo	- ST	14. Mr Lee Chye Hock	- CH
15. Mr Thinagran Silavaraj	- TG	16. Mr Maznan Bin Kamisan	- MBK
17. Ms Umami Nadhrah Mokhtar	- UM	18. Mr Muhammad Irfan	- MI

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 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.