

Schedule

CAST Laboratories Pte Ltd
17 Tuas Ave 8
Singapore 639232

Certificate No. : LA-1988-0023-B

Issue No. : 31

Date : 31 March 2024

Expiry of Certificate : 27 October 2026

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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/) TEK/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)	) KYS/LEH/) TEK/TG
	9. Particle Size Distribution	BS 812 : Pt 103.1 : 1985 SS 73:1974 BS EN 933-1 : 2012.)))

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	10. Particle Density /Water Absorption	BS 812-2 : 1995 SS 73 : 1974 BSEN 1097-6 : 2022))))
	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 - 22	) FSM/KYS/TG))
	16. Particle Density of filler	BS EN 1097- 7: 2022	) KYS/TEK/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 um	ASTM C117-2013, 17)
	22. Sand Equivalent Test	BS EN 933-8: 2012+A1: 2015) KYS/TG))
	23. Percentage of Fractured Particles	ASTM D5821-13 (2017)))))

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B. Bricks	24. Water Absorption (coarse)	ASTM C127-15)	
	25. Water Absorption (fine)	ASTM C128-22)	
	26. Sieve Analysis	ASTM C136/C136M-19)	
	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-2021 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		BS EN 12390 : Pt 7 : 2019	) KYS/FSM/CYK))))
(a) as-received density		SS 78: Pt A 14:1987)))))	
(b) oven-dried density)))))	
(c) saturated density)))))		

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	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 6:2009 ASTM C496-2011	) KYS/ FSM))
	8. Static Modulus of Concrete	BS 1881 : Part 121 : 1983	) KYS)
	9. Rapid Chloride Penetration Test	ASTM C1202-22e1	) 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))))
	14. Measuring the fibre content in fresh and hardened concrete	BS EN 14721: 2005+A1: 2007)))	
	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)))

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	3. Rebound Hammer Test	SS 78: Pt B2 :1992 BS EN 12504-2 : 2021)))
	4. Penetration Resistance Test	ASTM C803/803M-03 (Reapproved 2010),17,18)))
	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)))
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))

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iv. Concrete Kerbs	3. Total Water Absorption	BS EN 1338 : 2003 (Annex E))))
	4. Surface Layer Thickness	CAST/ BTD/ CPB/001/12) KYS/ FSM
	1. Compressive Strength	SS 214 : 2009, BS EN 12390: Pt 3: 2019	) KYS/ FSM))
v. Concrete Kerbs / Dividers/ Channels Kerb	1. Bending Strength	SS 214 : 2009 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)))
	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 : 2009 BS EN 1340 : 2003 ANNEX E))))))
	viii Ferro-cement Slab	1. Dimensional measurement	CAST/ MAT /TM/ 010-99
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, 17e1 (Method A & B)	) KYS/ AB))
	2. Density of Premix on Cored Samples with & without sample preparation	BS 598 : Pt 104 : 2005 (Clause 4)) KYS/AB/CH)))
	3. Bulk Specific Gravity and Density	ASTM D2726 / D2726M - 19, 21))))

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	4. Marshall Density & Stability	BS 598 : Pt 107 : 2004 ASTM D1559-89) KYS/AB)
	5. Marshall Stability and Flow of Asphalt Mixture	ASTM D6927-15) KYS/AB))
	6. Particle Size Distribution	BS 812 : Pt 103.1 : 1985 BS EN 933 - 1 : 2012))
	7. Percentage Voids Density of Core Method	BS 598 : Pt 104 : 2005 Annex E	) KYS/AB)
	8. Thickness of Core	ASTM D3549/D3549M-18	) KYS/AB/CH))
	9. Bitumen Content by Ignition Method	ASTM D6307-19 (Method A)	) KYS/AB)
	10. Determination of Wheel-Tracking Rate (Dry)	BS 598 : Pt 110 : 1998	) KYS)
	11. Los Angeles Abrasion	CAST/PAV/LAA 003/21	) KYS/AB
	12. Measuring Pavement Macrotexture Depth (Volumetric Technique)	ASTM E965-15 (2019)	) KYS/) MURU)
	13. Measuring Surface Frictional & Properties (British Pendulum Tests)	ASTM E303-93 (2018) ASTM E303-22	) KYS/) MURU/) /NN
i. Pavement and Asphalt Materials	14. Measuring Longitudinal Profile and Computing - International Roughness Index (IRI)	CAST/SITE/IRI/001/2017	) MURU/NN/) KYS/MM)
ii. Asphalt Concrete Paving Mixture	15. Effect of Moisture on Asphalt Concrete Paving Mixture - Tensile Strength Ratio (TSR)	ASTM D4867/D4867M-09 (reapproved 2014)	) KYS/AB)))
	16. Sieve Analysis of Extracted Aggregate	ASTM D5444-15	) KYS/AB)
	17. Theoretical Maximum Specific Gravity & Density	ASTM D2041/D2041M -19) KYS/AB)

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F. Soil	18. Percent Air Voids	ASTM D3203/D3203M -17, 22) KYS/AB
	19. Preparation of Bituminous Specimens using Marshall Apparatus	ASTM D6926-16, 20) KYS/AB))
	20. Draindown Characteristics in Uncompacted Asphalt Mixtures	ASTM D6390-11, 11 (reapproved 2017)	) KYS/AB))
	1. Bulk Density	BS 1377 : Pt 2 : 1990 (Clause 7.2) BS 1377 : Pt 2 : 2022 (Clause 4) BS EN 17892-2 : 2014	) TEK/AKL/MT/) /NHY/MBK) AKL/MT/NHY/MBK) /TKL)
	2. California Bearing Ratio	BS 1377 : Pt 4 : 1990 (Clause 7) BS 1377 : Pt 2 : 2022 (Clause 15) ASTM D1883 -16	) TEK/MT/NHY/MBK)) MT/NHY/MBK)) TEK/MT/NHY/MBK
	3. Consolidation Test (1-Dimensional)	BS 1377 : Pt 5 : 1990 (Clause 3)	) TEK/AKL/) NHY
	4. Direct Shear Test	BS 1377 : Pt 7 : 1990 (Clause 4) BS 1377 : Pt 2 : 2022 (Clause 25) BS EN 17892-10 : 2018	) TEK/AKL/NHY/) MT) AKL/NHY/MT))
	5. Dry Density / Moisture Content Relation	BS 1377 : Pt 4 : 1990 (Clause 3) BS 1377 : Pt 2 : 2022 (Clause 11)	) TEK/MT/NHY/MBK)) MT/NHY/MBK)
	6. In-situ Dry Density (Sand Replacement)	BS 1377 : Pt 9 : 1990 (Clause 2)	) TEK/WT/) EE/MT/NHY
	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) TEK/AKL/MT/) /NHY) AKL/MT/NHY)))
		ASTM D4318 -17	TEK/AKL

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	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) TEK/AKL/MT/) /NHY) AKL/MT/NHY))) TEK/AKL
	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	) TEK/MT/AKL/NHY)) AKL/MT/NHY))) TEK/AKL
	10. Moisture Content (Lab)	BS 1377 : Pt 2 : 1990 (Clause 3.2) BS 1377 : Pt 2 : 2022 (Clause 4) BS EN 17892-1 : 2014 ASTM D2216-19	) TEK/AKL/MT/) /NHY/MBK/TKL) AKL/MT/NHY/MBK/) TKL) MT/NHY/TKL
	11. Particle Density	BS 1377 : Pt 2 : 1990 (Clause 8.3) BS 1377 : Pt 2 : 2022 (Clause 9) BS EN 17892-3 : 2015	) TEK/AKL/MT/ NHY)) AKL/MT/NHY))
	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	) TEK/AKL/MT/ NHY)) AKL/MT/ NHY/TKL))
	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) TEK/AKL/MT/ NHY)) AKL/MT/NHY/TKL))

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	14. Triaxial Test (CD)	BS 1377 : Pt 8 : 1990 (Clause 8) BS 1377 : Pt 2 : 2022 (Clause 30) BS EN 17892-9 : 2018) TEK/AKL/NHY)) AKL/NHY))
	15. Triaxial Test (CU)	BS 1377 : Pt 8 : 1990 (Clause 7) BS 1377 : Pt 2 : 2022 (Clause 29) BS EN 17892-9 : 2018	) TEK/AKL/NHY)) AKL/NHY))
	16. Triaxial Test (UU)	BS 1377 : Pt 7 : 1990 (Clause 8) BS 1377 : Pt 2 : 2022 (Clause 28) BS EN 17892-8 : 2018	) TEK/AKL/) /NHY) AKL/NHY))
	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	) TEK/AKL/MT/) /NHY/TKL) AKL/NHY/TKL/MT))
		ASTM D2166:16	) TEK/AKL/MT/)
	18. Density & Moisture Content -Nuclear Density Gauge	ASTM D6938-10, 17 BS1377 : PT9 :1990	) TEK/) WT/MT/NHY
	19. Insitu Density by Core Cutter Method	BS 1377 : Pt 9 : 1990	) TEK/MT/NHY/MBK)
	20. Plate Bearing Test	BS 1377 : Part 9 : 1990	) TEK/WT/EE/ NHY
	21. Determination of Thermal Conductivity of Soil & Soft Rock by Thermal Needle Probe procedure	ASTM D5334-08, 14	) TEK/NHY/TKL)))
	22. Moisture Content by Speedy tester	ASTM D4944-2011, 2018 BS 812-109: 1990	KYS/MT/WT/EE/NHY MT/WT/EE/NHY
	23. Linear shrinkage	BS 1377:Pt 2: 1990 BS 1377 : Pt 2 : 2022 (Clause 7)) TEK/MT/ NHY) MT/NHY)

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	24. Max & Min dry density	BS 1377:Pt 4:1990 BS 1377 : Pt 2 : 2022 (Clause 12)) KYS/TEK/MT/NHY) MT/NHY)
	25. Density index (cl 4)	BS 1377:Pt 4:1990 BS 1377 : Pt 2 : 2022 (Clause 12)	) KYS/TEK/ MT/NHY) MT/NHY)
	26. Insitu California Bearing Ratio (CBR) Site Test	BS 1377: Pt 9: 1990 (Clause 4.3)	) TEK/) WT/EE/MT
	27. Lab Compaction of Soil - Standard Effort	ASTM D698-12e2	) TEK/ MT/NHY/MBK))
	28. Lab Compaction of Soil - Modified Effort	ASTM D1557-12e1))
	29. Density of Bituminous Concrete using NDG	ASTM D2950 / D2950M-14	) TEK/WT/MT/NHY)
G. Rock cores	1. Point Load Strength Index	ASTM D5731-08, 16	) TEK/NHY/TKL)
	2. Unconfined Compression Test	ASTM D7012-10,13, 14, 14e1 (Method C only)))
	3. Water (Moisture) Content	ASTM D2216-19	NHY/TKL
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)	SS485 : 2011 (Annex B), SS485 : 2022 (AS 4586-2013/Appendix B)	) FSM/NN/) MURU/MM/ST/TS))
	3. Wet Pendulum Test	SS 485 : 2011(Annex A), SS485 : 2022 (AS 4586-2013/Appendix A)	) MURU/FSM/ST/ TS))
	4. Resistance to Deep Abrasion of Unglazed Tiles	BS EN ISO 10545-6: 2010, 2012	) FSM/ST))
	5. Determination of dimensions & surface quality	BS EN ISO 10545-2: 2018 ISO 13006:2018 BS EN 14411: 2016))))

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	6. Determination of Modulus of rupture & breaking strength	BS EN ISO 10545-4 : 2019 BS EN 14411:2016))
	7. Scratch Hardness	SS 301:1985 SS 57 : 1989 BS 6431: PT13:1986 EN101: 1991))))
	8. Colourfastness of title	SS301 : 1985 SS57 : 1989))
I. Clay Roofing Tile and Fitting	1. Transverse strength 2. Water absorption 3. Permeability 4. Colour fastness (Glazed Tiles only)	SS 70 : 2001 SS 70 : 2001 SS 70 : 2001 SS 70 : 2001	) FSM/KYS))))
J. Bituminous Emulsion Membrane	1. Bituminous Membrane Thickness (Adopted from HDB Requirements)	CAST/BTD/BEM/001/12	) FSM/KYS)))
	2. Unit Weight (Adopted from HDB Requirements)	CAST/BTD/BEM/002/12)))
L. Admixtures	1. Water Reduction / Increase in Consistence Slump Test Flow Test	BS EN 480-1 : 2006+A1:2011, 2014 BS EN 12350-2 : 2009,2019 BS EN 12350-5 : 2009,2019	) KYS))))
	2. Air Content	BS EN 12350-7 : 2009,2019 BS EN 480-1 : 2006+A1:2011, 2014))))
	3. Bleeding	BS EN 480-4 : 2005 BS EN 480-1 : 2006+A1:2011, 2014))))
	4. Density of fresh concrete	BS EN 12350-6 : 2009,2019 BS EN 480-1 : 2006+A1:2011, 2014))))
	5. Setting	BS EN 480-2 : 2006 BS EN 480-1 : 2006+A1:2011, 2014))))
	6. Compressive Strength	BS EN 12390-3: 2009, 2019 BS EN 480-1 : 2006+A1:2011, 2014))))

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M. Cement	1. Fineness (Blaine Air Method)	BS EN 196: Pt 6: 2010,2018 SS 397: Pt 6: 1997 SS26: 1984 (1997)) KYS/FSM)))
i. Cem I / Cem II Cem III / Cem IV Cem V types as per SS EN 197-1 : 2008	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	1. Moisture Content	BS EN 15167 : Pt 1 : Annex A : 2006 SS EN 15167 : Pt 1 : Annex A : 2008 (2016)))))
N. Building Materials	1. Tension Adhesion Strength	BS EN 1015 - 12: 16	) FSM)
i. Prepacked Plaster	2. Linear Shrinkage	ASTM C531-00 (2012), 18))
ii. Prepacked Skimcoat	1. Tension Adhesion Strength	BS EN 1015-12 : 16))
	2. Linear Shrinkage	ASTM C531-00 (2012), 18))
iii Floor Screed and Water Proof Screed	1. Compressive Strength	ASTM C109/C109M-21))
	2. Flowability (hydraulic cement mortar)	ASTM C1437- 20))
	3. Slip/skid Resistance of Surface – Pendulum Test	BS EN 13036-4:11))
iv Tile Adhesive	1. Determination of Tensile Adhesion Strength	BS EN 12004-2 : 2017	) FSM))
	2. Determination of Open Time	BS EN 12004-2 : 2017))
	3. Transverse Deformation Test	BS EN 12004-2 : 2017))
v. Tile Grout	1. Determination of Resistance to Abrasion	BS EN 13888 – 2: 2022)))

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	2. Determination of Flexural Strength & Compressive Strength	BS EN 13888 – 2: 2022))))
	3. Determination of Shrinkage	BS EN 13888 – 2: 2022)))
	4. Determination of Water Absorption	BS EN 13888 – 2: 2022))
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)))))
Q. Repair Materials Compressive Strength	1. Compressive strength of hydraulic cement mortar (50 mm cubes)	ASTM C109/109M-21	) KYS/ FSM))
R. Curtain Walls & Window joints	2. Water Penetration test (field water tightness test)	CAST/SITE/WTT/001/12 (CONQUAS 21) AAMA 501.2: 09	) KYS))
S. External Concrete Wall / Gable End Wall Joints	3. Water Penetration test (field water tightness test)	CAST/SITE/WTT/002/14 (Jan 2016)	) KYS) MURU/NN)
T. Cement Treated Base	1. Moisture Density Relationship	ASTM D558-11(Method A)	) TEK/MT))
	2. Optimum Moisture Content	ASTM D558-11(Method A))))
	3. Maximum Dry Density	ASTM D558-11(Method A))
	4. Liquid Limit, Plastic Limit and Plasticity Index	ASTM D4318-17	)TEK/AKL)
U. Paints	1. Non-volatile Matter	SS 5: Pt B2: 2013 (2018)) FSM/TG))
	2. Dilution	CAST/MAT/TM/002-2019)))

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V. Ceramic Tiles Ceramic Floor and Wall Tiles	1. Chemical Resistance for Acid & Alkali - Glazed tiles	BS EN ISO 10545-13: 2016) FSM/ST))
	2. Chemical Resistance for Acid & Alkali - Unglazed tiles	BS 6431:Pt 18:1993, EN106: 1991 SS 301: 1985 Clause 5.2.1, 9.2.7 & Appendix J; BS EN ISO 10545-13: 2016)))))))
W. Glazed Ceramic Tiles and Tile Fittings for Internal Walls	1. Chemical Resistance for Acids and Alkali	SS 57: 1989 Clause 6.2, 10.2.6 & Appendix H; BS EN ISO 10545-13: 2016)))))
	2. Stain Resistance	SS 57: 1989 Clause 6.2, 10.2.7 & Appendix H BS EN ISO 10545:Pt 14:2015))))))
X. Ceramic Wall Tiles	1. Reverse Staining Test on Tiles	CAST/MAT/TM/001 – 98))))

Approved signatories

1. Mr Kwek Yeow Seah	KYS	2. Mr Lim Eng Heng	- LEH
3. Mr Tay Ee Kwang	- TEK	4. Mr Foo Siang Meng	- FSM
5. Mr T Murugesan	- MURU	6. Mr Aung Ko Lat	- AKL
7. Ms Aashika Banu	- AB	8. Mr Naina Mohamed	- NN
9. Mr Ng How Yong	- NHY	10. Mr M. Krishnamoorthy	- MT
11. Mr Myo Win Tun	- WT	12. Mr Benedict Lim	- BL
13. Ms Pyone Ei Ei Zaw	- EE	14. Ms Mie Mie Sein Hla	- MM
15. Mr Chong Yong Keong	- CYK	16. Mr Ting Kuok Loong	- TKL
17. Mr Sathianthan Vadiveoo	- ST	18. Mr Lee Chye Hock	- CH
19. Mr Thinagran Silavaraj	- TG	20. Mr Maznan Bin Kamisan	- MBK

Schedule



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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.