SINGAPORE LABORATORY ACCREDITATION SCHEME

Accredited Laboratory SAC-SINGLAS

Schedule

Admaterials Technologies Sdn Bhd
No 18 Jalan Mega 1/5
Taman Perindustrian Nusa Cemerlang
79200 Nusajaya Johor
Malaysia

Certificate No. : LA-2008-0422-B-1

Issue No. : 4

Date : 13 December 2019

FIELD OF TESTING : Civil Engineering Testing

MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT	SIGNATORY
A. Aggregate	1. Particle Size Distribution / Sieve Analysis	BS EN 933-1: 2012 ASTM C136 / C136M: 2014 BS 812 Part 103.1: 1985	LJP, SW
	2. Clay, Silt and Dust (Decantation Method)	BS EN 933-1: 2012 ASTM C117: 2017 BS 812 Part 103.1: 1985	
	3. Moisture Content (Oven Dried Method)	BS EN 1097 -5: 2008 BS 812 Part 109: 1990	
	4. Bulk Density	BS EN 1097- 3: 1998 BS 812 Part 2: 1995	
	5. Relative Density & Water Absorption	BS EN 1097-6: 2013 BS 812 Part 2: 1995 ASTM C127: 2015 ASTM C128: 2015 (Gravimetric Method)	
	6. Shell Content	BS EN 933-7: 1998 BS 812 Part 106: 1985	
	7. Flakiness Index	BS EN 933-3: 2012 BS 812 Part 105.1: 1989	
	8. Shape Index	BS EN 933-4: 2008	
	9. Los Angeles Abrasion	BS EN 1097-2: 2010 ASTM C131/C131M: 2014 ASTM C535: 2016	
	10. Soundness Test	BS EN 1367-2: 2009 ASTM C88/C88M-18 BS 812 Part 121: 1989	

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MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT	SIGNATORY
A. Aggregate	11. Organic Impurites	ASTM C40 / C40M - 19	LJP, SW
	12. Humus Content	BS EN 1744-1: 2009 + A1: 2012 (Clause 15.1)	
	13. Elongation Index	BS 812 Part 105.2: 1990	
	14. Crushing Value	BS 812 Part 110: 1990	
	15. 10% Fines Value	BS 812 Part 111: 1990	
	16. Fineness Modulus	ASTM C136 / C136M:2014	
B. Hardened Concrete	1. Compressive Strength	BS EN 12390-3: 2019 BS 1881: Pt 116: 1983	
	2. Flexural Strength	BS EN 12390-5: 2019 BS 1881: Pt 118: 1983	
	3. Water Absorption	BS 1881: Pt 122: 2011	
	4. Water Permeability	DIN 1048: Pt 5 – 1991	
	5. Depth of Penetration of Water Under Pressure	BS EN 12390-8: 2019	
	6. Calibration of Cube Mould	BS EN 12390-1:2012	
	7. Concrete's Ability to Resist Chloride Ion Penetration (Rapid Chloride Permeability Test)	ASTM C1202 - 19	

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MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT	SIGNATORY
C. Metal Product: 1. Reinforcement Bar	1. Tensile Testing (Range of 0 to 600kN)	BS EN ISO 15630-1: 2019 ISO 6892-1: 2016 (BS 4482: 2005) (BS 4449:2005+A3:2016) (SS 560: 2016) (SS 566: 2011) MS ISO 15630-1:2012 (MS 146: 2014) *SS456: 1999 (SS 2: Part 1:1999) (SS 2: Part 2:1999) (SS 2: Part 3:1987)	LJP, SW
	2. Bend and Re-bend Test	BS EN ISO 15630-1: 2019 ISO 6892-1: 2016 (BS 4482: 2005) (BS 4449:2005+A3:2016) (SS 560: 2016) (SS 566: 2011) MS ISO 15630-1:2012 (MS 146: 2014) *SS427: 1998 (SS 2: Part 1:1999) (SS 2: Part 2:1999) (SS 2: Part 3:1987) *ISO 10065: 1990	
2. Steel Wire / Fabric	1. Tensile Test	BS EN ISO 15630-2: 2019 (BS 4483: 2005) (SS 561: 2010) *SS 456: 1999 (SS 18: Part 1: 1999) (SS 32: Part 1: 1999) (SS 18: Part 2: 1970) (SS 32: Part 2: 1986)	
	2. Bend and Re-bend Test	BS EN ISO 15630-2: 2019 (BS 4483: 2005) (SS 561: 2010) *SS 427: 1998 (SS 18: Part 1: 1999) (SS 32: Part 1: 1999) (SS 18: Part 2: 1970) (SS 32: Part 2: 1986) * superseded standard shown for continuity	

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MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT	SIGNATORY
D. Cement/Mortar/ Grout	1. Compressive Strength	ASTM C109 / C109M - 16a	LJP, SW
	2. Bulk Density of Fresh Mortar	BS EN 1015-6: 1999	
	3. Flow	ASTM C1437 - 15	
	4. Setting Time	BS EN 196-3: 2016	

Approved Signatories

LJP : Mr. Lu Jin Ping
SW : Ms. Sherly Wijaya

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