

Schedule

Issue date: 17 February 2017
Valid until: 02 March 2020



NO: SAMM 505

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LABORATORY LOCATION:
(PERMANENT LABORATORY)

BUILDTEST LABORATORY SDN. BHD.
NO. 12, JALAN PS 8/1
TAMAN PRIMA SELAYANG
68100 BATU CAVES
SELANGOR, MALAYSIA

This laboratory accredited under *Skim Akreditasi Makmal Malaysia* (SAMM) meets the requirements of MS ISO/IEC 17025:2005 'General requirements for competence of testing and calibration laboratories'. This Malaysian Standards is identical with ISO/IEC 17025:2005 published by the International Organization for Standardization (ISO).

FIELD OF TESTING: MECHANICAL

SCOPE OF ACCREDITATION:

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Technique
Hardened Concrete	Compressive Strength Test (Cubes, Cores & Cylinders)	BS EN 12390-3: 2009 (Test at Ambient Conditions)
	Water Absorption of Concrete Specimens	BS 1881-122: 2011 (Test at Ambient Conditions)
	Density of Hardened Concrete	BS EN 12390-7: 2009 (Volume by Water Displacement Method)
Aggregates	Flakiness Index of Coarse Aggregates	BS 812 : Part 105 : Sect 105.1 : 1989
	Elongation Index of Coarse Aggregates	BS 812 : Part 105 : Sect 105.2 : 1990
	Aggregate Crushing Value (ACV)	BS 812 : Part 110 : 1990 (Test at Dry Conditions)
	Aggregate Impact Value (AIV)	BS 812 : Part 112 : 1990 Clause 7.1 (Test at Dry Conditions)
	Ten Percent Fines Value (TFV)	BS 812 : Part 111 : 1990 (Test at Dry Conditions)
	Los Angeles Abrasion (LA) of Small-Size Coarse Aggregates	ASTM C131/C131M-14
	Los Angeles Abrasion (LA) of Large-Size Coarse Aggregates	ASTM C535-12
Particle Size Distribution By Sieving Method	BS EN 933-1 : 2012	

The valid scope of accreditation is in www.ism.gov.my/cab-directories.

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FIELD OF TESTING: MECHANICAL

SCOPE OF ACCREDITATION:

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Technique
Aggregates	Determination of Materials Finer than 75 µm by Washing Particle Density and Water Absorption of Coarse Aggregates Particle Density and Water Absorption of Fine Aggregates Organic Impurities in Fine Aggregates for Concrete	ASTM C 117-13 (Procedure A - Washing with Plain Water) BS 812 : Part 2 : 1995 Clause 5.3 - Wire Basket Method (Test at Ambient Conditions) BS 812 : Part 2 : 1995 Clause 5.5 - Glass Jar Method (Test at Ambient Conditions) ASTM C40/C40M-11
Soil	Moisture Content Dry Density / Moisture Content Relationship of Soils by 2.5kg Rammer Method Dry Density / Moisture Content Relationship of Soils by 4.5kg Rammer Method	BS 1377 : Part 2 : 1990 Clause 3.2 (Oven-drying Method) BS 1377 : Part 4 : 1990 Clause 3.3 BS 1377 : Part 2 : 1990 Clause 3.5
Masonry Units	Compressive Strength Test (Clay, Calcium Silicate and Aggregate Concrete Masonry Units)	BS EN 772-1 : 2011 + A1 : 2015
Steel Reinforcing Bar	Tensile Tests for determination of :- - Yield strength - Tensile strength - Mass per meter - Percentage elongation after fracture - Percentage total extension at maximum force Force range: up to 1500kN	MS ISO 15630-1 : 2012 Clause 5 ISO 6892-1 : 2009

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Signatories:

1. Ip Kwok Khuen
2. Phang Kon Kheong
3. Tang Wei Luen
4. Ip Kar Mun

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FIELD OF TESTING: MECHANICAL

SITE TESTING: CATEGORY I

SCOPE OF ACCREDITATION:

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Method/ Equipment/Technique
Non-destructive Test Hardened Concrete	Surface Hardness Testing by Rebound Hammer in the range of 20 to 55 rebound number, R	BS EN 12504-2 : 2012

Signatories:

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2. Phang Kon Kheong
3. Tang Wei Luen

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* The expanded uncertainties are based on an estimated confidence probability of not less than 95% and have a coverage factor of $k=2$ unless stated otherwise

FIELD OF CALIBRATION: MASS

SITE CALIBRATION: CATEGORY I

SCOPE OF ACCREDITATION:

Instrument Calibrated/ Measurement Parameter	Range	Calibration and Measurement Capability Expressed as an Uncertainty(\pm)*	Remarks
Balance	Up to 30 kg	0.1 g	ASTM E 898 – 88 (Reapproved 2013 – Calibrated by Using Standard Weights)

Signatories:

1. Ip Kwok Khuen
2. Ip Kar Mun

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