Issue date: 06 April 2025
Valid Until: -

NO: SAMM 833

LABORATORY LOCATION/ CENTRAL OFFICE:	Seelong Laboratory, Eastern Pretech (Malaysia) Sdn. Bhd. Ptd 103274, Jalan Seelong 81400 Senai, Johor , 81400, JOHOR MALAYSIA
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) OF TESTING:	MECHANICAL

This laboratory has demonstrated its technical competence to operate in accordance with MS ISO/IEC 17025:2017 (ISO/IEC 17025:2017).

This laboratory's fulfillment 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 and calibrations. 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 (see Joint ISO-ILAC-IAF Communiqué dated April 2017).

CENTRAL LOCATION:	Seelong Laboratory, Eastern Pretech (Malaysia) Sdn. Bhd. Ptd 103274, Jalan Seelong 81400 Senai, Johor , 81400, Johor
FIELD(S) OF TESTING :	MECHANICAL,

SCOPE OF TESTING : MECHANICAL

Material / Product Tested	**Type Of Test / Properties Measured / Range Of Measurement**	**Standard Test Methods / Equipment / Techniques**
Aggregates	Particle Size Distribution by Sieving	BS EN 933-1:2012 (Dry Sieving Method Only)
	Fines Content	BS EN 933-1:2012
	Determination of Potential Alkali-Silica Reactivity of Aggregates (Chemical Method)	ASTM C 289-07 -" Standard Test Method for Potential Alkali-Silica Reactivity of Aggregates (Chemical
	Determination of Particle Size Distribution -" Sieving Method	MS 30: Part 4: 1995 -" Methods of Testing Aggregates: Part 4: Methods for
	Determination of Aggregate	BS 812: Part 110: 1990
	Clay, Silt and Dust Content	BS EN 933-1 : 2012
	Determination of Water Content	MS EN 1097 : Part 5 : 2011

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Fines Content (Washing & Sieving Method)	BS EN 933-1:2012, clause 7.1
	Particle Size Distribution /	BS EN 933-1:2012
	Flakiness Index of Coarse Aggregates	BS 812: Part 105: Sect 105.1: 1989
	Potential Alkali Reactivity of	ASTM C 1260 - 21
	Flakiness Index of Coarse Aggregates	BS 812: Part 105: Sect 105.1: 1989
	Potential Alkali Reactivity of	ASTM C 1260 - 21
	PH value by the Electrometric	BS 1377:Part 3 2018
	19. Potential Alkali Reactivity	ASTM C 1260-14
	Determination of Flakiness Index of Coarse Aggregates	BS 812: Section 105.1: 1989 MS 30: Part 5: 1995: Section 1 EN 933-3: 2012
	Determination of Elongation Index of Coarse Aggregates	BS 812: Section 105.2: 1990 MS 30: Part 5: 1995: Section 2
	Determination of Aggregate Crushing Value	BS 812: Part 110: 1990 MS 30: Part 8: 1995
	Determination of Ten Percent Fines Value	BS 812: Part 111: 1990 MS 30: Part 9: 1995
	Determination of Organic Impurities in Fine Aggregates for Concrete	ASTM C40/40M-20
	Clay Lumps and Friable Particles in Aggregates	ASTM C142/C142M-17
	None	BS 812: Part 103-1: 1985
	Sulphate	BS EN 1744-1:2009+A1:2012, Clause 10 & 12
	Chloride	BS EN 1744-1:2009+A1:2012, Clause 7
	pH Value	BS 1377: Part 3: 1990: Clause 9
	Clay, Silt and Dust	BS 812: Part 1:1975, Clause 7.2.4
	Particle densities and water absorption	BS 812: Part 2: 1995, Clause 5
	Soundness of aggregates	ASTM C88/C88M-18
	Flakiness Index	BS 812: Section 105.1: 1989
	Elongation Index	BS 812: Section 105.2: 1990
	Aggregate crushing value	BS 812: Part 110: 1990
	Ten percent fines value	BS 812: Part 111: 1990
	Particle size distribution (Sieving Method)	BS EN 933-1:2012 MS EN 933-1:2011
	Aggregate impact value	BS 812: Part 112: 1990
	Particle densities and water	BS 812: Part 2: Clause 5: 1995
	Particle Size Distribution	MS EN 933-1: 2011
	(Sieving Method)	BS 812: Part 103.1: 1985
	Flakiness Index	BS 812: Section 105.1: 1989
	Elongation Index	MS 30: Part 5: 1995: Section 2
	Elongation Index	BS 812: Part 105.2: 1990

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Clay, Silt & Dust Content	BS 812: Part 1: 1975: Clause 7.2.4
	(Decantation Method)	None
	Particle Density & Water Absorption	BS 812: Part 2: 1995
	(Pyknometer Method)	MS EN 1097-6: 2011
	Aggregate Crushing Value (ACV)	MS 30: Part 8: 1995 (confirmed 2011)
	Aggregate Crushing Value (ACV)	BS 812: Part 110: 1990
	Ten Percent Fine Value (TFV)	MS 30: Part 9: 1995 (confirmed 2011)
	Ten Percent Fine Value (TFV)	BS 812: Part 111: 1990
	Aggregate Impact Value (AIV)	MS 30: Part 10: 1995 (confirmed 2011)
	Aggregate Impact Value (AIV)	BS 812: Part 112: 1990
	Soundness Test	MS 30: Part 17: 1995
	(Magnesium Sulphate)	BS 812: Part 121: 1989
	Soundness Test	ASTM C88-2018
	(Sodium Sulfate/ Magnesium Sulfate)	None
	Particles Size Distribution by Sieving Method	BS EN 933-1
	Elongation Index	BS 812-105.2
Hardened Concrete	Density	BS EN 12390-7:2019
	Compressive Strength of Cubes	BS EN 12390-3:2019
	Compressive Strength of Concrete	BS EN 12390-3: 2019
	Compressive strength of	MS EN 12390-3:2012
	Compressive Strength of	MS EN 12390-3:2012
	Compressive Strength of	BS EN 12504-1:2019
	Compressive Strength of	MS EN 12390-3:2012
	Compressive Strength of Concrete	MS EN 12504 : Part 1 : 2013
	Compressive Strength of Test	BS EN 12390-3: 2019
	Compressive Strength of	BS EN 12390-3: 2019
	Compressive Strength of Concrete Cube	BS EN 12390-3:2009 MS EN 12390-3:2012
	Compressive Strength of Concrete Cube (0-2000 kN)	BS EN 12390-3:2009
	Density of Hardened Concrete	BS EN 12390-7:2009
	Surface Hardness Test by	BS EN 12504-2:2012
	Compressive Strength of	BS EN 12390-3: 2019
	Compressive Strength Test (Cubes, Cores & Cylinders)	BS EN 12390-3: 2019 (Test at ambient conditions)
	Surface Hardeness Testing by	BS EN 12504 -" 2: 2021
	Compressive Strength Test (Cubes, Cores & Cylinders)	BS EN 12390-3: 2019 (Test at ambient conditions)
	Surface Hardeness Testing by	BS EN 12504 -" 2: 2021
	Compressive Strength of Concrete Cube & Cylinder in the force range of OKN to	BS EN 12390-3:2009 MS EN 12390-3:2012

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Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Compressive Strength of Concrete Core in the force range of OKN to 3000kN	BS EN 12504-1:2009 MS EN 12504-1:2013
	Determination of Density	BS EN 12390-7:2009
	Determination of Density, Absorption and Voids	ASTM C 642:13
	Initial Surface Absorption	BS 1881 Part 208: 1996
	Rapid Chloride Permeability	AASHTO Designation T277:15
	7. Water Permeability	DIN 1048 Part 5: June 1991
	8. Static Modulus of Elasticity in	ISO 1920 Part 10: 2010
	Penetration Resistance in the	ASTM C 803/C 803M -18
	Compressive Strength of	None
	Rebound Hammer Test	BS EN 12504-2: 2021
	Compressive Strength of	MS EN 12390-3:2012
	Compressive Strength of Concrete Cube in the force range of 0 kN to 3000 kN	MS EN 12390-3:2012 BS EN 12390-3:2019
	Compressive Strength of	MS EN 12390-3: 2012
	Concrete Cube	(curing on specimens performed by
	Concrete Cube	customer)
	Compressive Strenght of Cubes	Test instruction reference to BS EN