Schedule

Issue date: 06 April 2025
Valid Until: -

NO: SAMM 728

LABORATORY LOCATION/ CENTRAL OFFICE:	Soilpro Technical Services Sdn. Bhd. 16, Jalan TIB-1/17 Taman Industri Bolton 68100 Batu Caves, Selangor , 68100, SELANGOR MALAYSIA
ACCREDITED SINCE :	03 AUGUST 2015
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:	Soilpro Technical Services Sdn. Bhd. 16, Jalan TIB-1/17 Taman Industri Bolton 68100 Batu Caves, Selangor , 68100, Selangor
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**
(continued)	moisture content relationship	BS 1377:1990, Part 4, Clause 3
	compressive strength	BS 1377:1990, Part 7, Clause 7.2
	distribution: wet sieving, dry	BS 1377:1990, Part 2, Clause 9.2,
	number of a soil	Equipment: glass beaker, test tube
	test	None
	Power frequency magnetic field	IEC 61000-4-8:2009
	11. Determination of Viscosity	In-house ESL QPL A011
	None	None
	Boron (as % B2Os)	In-house Method P02-10 based on
	None	and Management unit PORIM pg.31
	None	1994
	None	None

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Seal Degradation Test	AS/NZS 4284: 2008 (Clause 8.10)
	Seismic and Wind Induced Inter	AAMA 501.4-2018 (Clause 7.0)
	None	None
	None	None
	None	None
	None	None
	Escherichia coli	APHA 9221.F (MPN) APHA 9222.H (Membrane Filter)
	Fecal Streptococci	APHA 9230.C (Membrane Filter)
	Clostridium perfringens	HPA NSM WS5 Issue 3 (Membrane Filter)
	Pseudomonas aeruginosa	APHA 9213.E (Membrane Filter)
	Sulphite reducing anaerobes	ISO 6461-2:1986 (Membrane Filter)
	penetration)	None
	Dynamic Water Penetration Test	AAMA 501.1-17
	Seal Degradation Test	AS/NZS 4284:2008
	Seismic and Wind Induced Inter	AAMA 501.4-2009
	None	ASTM E330/ E330M-14
	of Transparent and Opaque Liquids	None
	Smoke Point	ASTM D1322
	Determination of Calcium	MS 679: Part - V: Part IV, Clause 5,
	Force at Break(0-500N) Elongation at break (0 -” 1000%)	None
	None	None
	None	None
	None	None
	None	None
	None	ASTM E 190:2014
	a. Vickers (HvN)	ASTM E384-2017
	Nitrofuran residues:	In-house Method, Ref. No. MOH D03-
	None	DIN ISO 34-1:2016 AS 1683.12: 2001 (2018)
	Abrasion Resistance	ASTM D5963-04 (2019) (Method A) ISO 4649: 2017 (Method A) DIN ISO 4649:2014 (Method A)
	DC to 1 kHz	(of reading) 0.0035 Q
	at Frequency: 2.5 MHz to 1.3 GHz	(of reading)
	1 kHz	0.000048 nF
	100 Q DC to 1 kHz	0.023 Q
	None	0.5 bar
	None	None
	Liquid Limit	None
	None	None
	None	None

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	None	None
Aggregates	Determination of particle size	BS EN 933-1:2012
	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
	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

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	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
	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
Rocks	Unconfined compressive	ASTM D7012-14, Method C
	Slake Durability Index	ASTM D4644 - 16
	Unconfined CompressiveASTM D7012-14e1, Method C Unconfined Compressive	Unconfined Compressive
Soils	Determination of moisture	BS 1377:2016, Part 1
	Determination of dry density/	BS 1377:2016, Part 1
	Determination of the unconfined	BS 1377:2016, Part 1
	Determination of particle size	BS 1377:2016, Part 1
	Determination of Emerson class	AS 1289.3.8.1, 2017

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	Determination of water content	BS EN ISO 17892-1:2014
	Determination of bulk density: Linear measurement method	BS EN ISO 17892-2:2014
	Determination of particle size distribution: Sieving method and hydrometer method	BS EN ISO 17892-4:2016
	Determination of liquid and plastic limits	BS EN ISO 17892-12:2018
	JKM E0420: Determination of	US EPA 3051A & EPA Method 6010D
	Cadmium Chromium	None
	Determination of moisture content	ASTM D2216-19
	Determination of MoistureBS 1377-2:1990, Clause 3 Determination of Moisture	Determination of Moisture
	In-situ density tests: SandBS 1377-9:1990: Clause 2.1 In-situ density tests: Sand	In-situ density tests: Sand