

Schedule

Issue date: 06 May 2026
Valid Until: 08 May 2029



NO: SAMM 876

(Issue 1, 06 May 2026 replacement
of SAMM 876 dated 20 May 2024)

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LABORATORY LOCATION/ CENTRAL OFFICE:	Architest Laboratory Sdn. Bhd. No 66 Jalan Sungai Burung AA32/AA, Bukit Rimau, Seksyen 32, 40460 Shah Alam, SELANGOR MALAYSIA
	
ACCREDITED SINCE:	08 MAY 2018
FIELD(S) OF TESTING:	CHEMICAL MECHANICAL
SITE:	
1 . SITE LABORATORY(HQ):	Architest Laboratory Sdn. Bhd.
FIELD(S) OF TESTING:	CHEMICAL 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:	Architest Laboratory Sdn. Bhd. No 66 Jalan Sungai Burung AA32/AA, Bukit Rimau, Seksyen 32, 40460 Shah Alam, Selangor
FIELD(S) OF TESTING:	CHEMICAL, MECHANICAL

SCOPE OF TESTING: CHEMICAL

Material / Product Tested	Type of Test / Properties Measured / Range of Measurement	Standard Test Methods / Equipment / Techniques
Aggregates	Determination of water soluble chloride salts	BS 812: Part 117 :1988
	Determination of sulphate content	BS 812: Part 118 :1988 (Gravimetric)
	Determination of potential alkali silica reactivity of aggregates (Chemical method)	ASTM C 289-07
	Determination of total sulfur content by acid digestion (Reference method)	BS EN 1744-1:2009+A1:2012, Clause 11.1

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Material / Product Tested	Type of Test / Properties Measured / Range of Measurement	Standard Test Methods / Equipment / Techniques
Aggregates (continues)	Determination of acid soluble sulfides	BS EN 1744-1:2009+A1:2012, Clause 13
	Determination of total sulfur content by acid digestion (Reference method)	BS EN 1744-1:2009+A1:2012, Clause 7
	Determination of acid soluble sulfates	BS EN 1744-1:2009+A1:2012, Clause 12
Water	Determination of pH	APHA 4500-H ⁺ B, 2023
	Determination of chloride	APHA 4500-Cl ⁻ B, 2023
	Determination of sulphate	APHA 4500-SO ₄ ²⁻ C, 2023
	Determination of alkalinity	APHA 2320 B, 2023
	Determination of total solids	APHA 2540 B, 2005
Concrete	Determination of chloride content	BS 1881:123:2015+A1:2021, Clause 12.1
	Determination of sulphate content	BS 1881:123:2015+A1:2021, Clause 12.2
Soil	Determination of pH value	BS 1377:Part 3:1990, Clause 9 BSS 1377-3:2018+A1:2021, Clause 12 MS 1056-3:2013, Clause 10
	Determination of chloride content	BS 1377:Part 3:1990, Clause 7 BSS 1377-3:2018+A1:2021, Clause 9 MS 1056-3:2013, Clause 8
	Determination of acid soluble sulphate	BS 1377:Part 3:1990, Clause 5 (Gravimetric) BSS 1377-3:2018+A1:2021, Clause 7.6 & 7.9 MS 1056-3:2013, Clause 6.2 & 6.5
	Determination of water-soluble sulphate	BS 1377:Part 3:1990, Clause 5 (Gravimetric) BSS 1377-3:2018+A1:2021, Clause 7.3 & 7.6 MS 1056-3:2013, Clause 6.3 & 6.5
	Determination of the groundwater sulfate	BS 1377:Part 3:1990, Clause 5 (Gravimetric) BSS 1377-3:2018+A1:2021, Clause 7.6 & 7.8 MS 1056-3:2013, Clause 6.4 & 6.5
	Determination of organic matter content	BS 1377:Part 3:1990, Clause 3 BSS 1377-3:2018+A1:2021, Clause 4 MS 1056-3:2013, Clause 4
	Determination of the mass loss on ignition	BS 1377:Part 3:1990, Clause 4 BSS 1377-3:2018+A1:2021, Clause 6 MS 1056-3:2013, Clause 5

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Concrete	Determination of compressive strength	BS EN 12390:Part 3:2009 MS EN 12390:Part 3:2012
Soil	General requirement and sample preparation	BS 1377:2016, Part 1 MS 1056-1:2013
	Determination of moisture content	BS 1377:Part 2:1990, Clause 3.2 BS 1377:Part 2:2022, Clause 4.1 MS 1056-2:2013, Clause 4.2 BS EN ISO 17892-1:2014
	Determination of particle size distribution – Wet Sieving and Dry Sieving	BS 1377:Part 2:1990, Clause 9.2, 9.3 BS 1377:Part 2:2022, Clause 10 MS 1056-2:2013, Clause 10.2, 10.3 BS EN ISO 17892-4:2016, Clause 5.2
	Determination of particle size distribution – Hydrometer	BS 1377:Part 2:1990, Clause 9.5 BS 1377:Part 2:2022, Clause 10 MS 1056-2:2013, Clause 10.5 BS EN ISO 17892-4:2016, Clause 5.3
	Determination of liquid limit (Cone penetrometer - definitive method)	BS 1377:Part 2:1990, Clause 4.3 BS 1377:Part 2:2022, Clause 5.2 MS 1056-2:2013, Clause 5.3 BS EN ISO 17892-12:2018
	Determination of liquid limit (One-point cone penetrometer method)	BS 1377:Part 2:1990, Clause 4.4 BS 1377:Part 2:2022, Clause 5.3 MS 1056-2:2013, Clause 5.4 BS EN ISO 17892-12:2018
	Determination of plastic limit and plasticity index	BS 1377:Part 2:1990, Clause 5 BS 1377:Part 2:2022, Clause 6 MS 1056-2:2013, Clause 6 BS EN ISO 17892-12:2018
	Determination of shrinkage characteristics (Linear shrinkage)	BS 1377:Part 2:1990, Clause 6.5 BS 1377:Part 2:2022, Clause 7 MS 1056-2:2013, Clause 7.5
	Determination of particle density (Small pycnometer method)	BS 1377:Part 2:1990, Clause 8.3 MS 1056-2:2013, Clause 9.3
	Determination of density (Linear measurement method)	BS 1377:Part 2:1990, Clause 7.2 BS 1377:Part 2:2022, Clause 8 MS 1056-2:2013, Clause 8.2 BS EN ISO 17892-2:2014, Clause 5.1

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Material / Product Tested	Type of Test / Properties Measured / Range of Measurement	Standard Test Methods / Equipment / Techniques
Soil (continues)	Determination of one-dimensional consolidation properties	BS 1377:Part 5:1990, Clause 3 BS 1377:Part 2:2022, Clause 16 MS 1056-5:2013, Clause 4 BS EN ISO 17892-5:2017
	Determination of the unconfined compressive strength (Load frame method)	BS 1377:Part 7:1990, Clause 7.2 BS 1377:Part 2:2022, Clause 27 MS 1056-7:2013, Clause 8.2 BS EN ISO 17892-7:2018
	Determination of the undrained shear strength in triaxial compression without measurement of pore pressure (definitive method)	BS 1377:Part 7:1990, Clause 8 BS 1377:Part 2:2022, Clause 28 MS 1056-7:2013, Clause 9 BS EN ISO 17892-8:2018

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Soil (continues)	Determination of the consolidated-undrained shear strength in triaxial compression with measurement of pore pressure	BS 1377:Part 8:1990, Clause 1-7 BS 1377:Part 2:2022, Clause 29 MS 1056-8:2013, Clause 1-9 BS EN ISO 17892-9:2018, Clause 6.1-6.4, 6.6-6.7.2 (CIU)
	Determination of the consolidated-drained triaxial compression test with measurement of volume change	BS 1377:Part 8:1990, Clause 1-6, 8 BS 1377:Part 2:2022, Clause 30 MS 1056-8:2013, Clause 1-8, 10 BS EN ISO 17892-9:2018, Clause 6.1-6.4, 6.6-6.7.3 (CID)
Rock	Uniaxial compression strength of intact rock specimens	ASTM D7012-14, Method C
	Determination of the point load strength index of rock and application to rock strength classifications	ASTM D5371-16
	Laboratory determination of water (moisture) content if soil and rock by mass	ASTM D2216-19, Method A
Aggregates	Methods for Sampling	MS 30: Part 3: 1995 Clause 5 & 6
	Determination of Particle Size Distribution – Sieving Method	MS 30: Part 4: 1995 BS EN 933-1: 2012
	Determination of Fine Content	BS EN 933-1: 2012 – Tests for Geometrical Properties of Aggregates: Part 1: Determination of Particle Size Distribution – Sieving Method.
	Determination of Particle Shape – Flakiness Index	MS 30: Part 5: 1995 - Methods of Testing Aggregates: Part 5: Methods for Determination of Particle Shape (First Revision) Section One: Flakiness Index
	Determination of Particle Shape – Elongation Index of Coarse Aggregate	MS 30: Part 5: 1995
	Determination of Shell Content – Percentage of Shells in Coarse Aggregates	MS 30: Part 6: 1995
	Determination of Aggregate Crushing Value (ACV)	MS 30: Part 8: 1995
	Determination of 10% Fines Value (TFV)	MS 30: Part 9: 1995 - Methods of Testing Aggregates: Part 9: Methods for Determination of Ten Percent Fines Value (First Revision) BS 812: Part 111: 1990 - Testing Aggregate: Part 111: Methods for Determination of Ten Per Cent Fines Value (TFV)
	Determination of Potential Alkali Reactivity (Mortar-Bar Method)	ASTM C1260-23

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SCOPE OF TESTING: MECHANICAL

Material / Product Tested	Type of Test / Properties Measured / Range of Measurement	Standard Test Methods / Equipment / Techniques
Soil	Determination of In-situ Density and Moisture Content	Soils for Civil Engineering Purposes, BS 1377:1990, Part 9: Clause 2.1-Sand Replacement Method Suitable for Fine and Medium-Grained Soils (Small Pouring Cylinder Method) MS 1056:Part 9:2005, Clause 4.2
	Determination of Dry Density/ Moisture Content	BS 1377:2016, Part 1 BS 1377:Part 4:1990, Clause 3.1-3.6 BS 1377:Part 2:2022, Clause 11.1-11.6 MS 1056-4:2013, Clause 4.2
	Determination of in-situ calibration bearing ratio (CBR)	BS 1377:1990, Part 9: Clause 4.3 MS 1056:Part 9:2005, Clause 6.4

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