

Schedule

Issue date: 21 June 2023
Valid Until: 21 June 2028



NO: SAMM 528

Page: 1 of 2

LABORATORY LOCATION/ CENTRAL OFFICE:	Langkawi Plant Laboratories, Kedah Cement Sdn. Bhd. Langkawi Plant Laboratories Mukim Ayer Hangat 07000 Langkawi, Kedah , 7000, KEDAH MALAYSIA
	
ACCREDITED SINCE :	21 JUNE 2023
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:	Langkawi Plant Laboratories, Kedah Cement Sdn. Bhd. Langkawi Plant Laboratories Mukim Ayer Hangat 07000 Langkawi, Kedah , 7000, Kedah
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
1. Portland Composite Cement 2. Ordinary Portland Cement 3. Clinker	Chemical Properties 1. % Loss on Ignition (LOI)	BS EN 196-2: 2013, clause 4.4.1
	2. % Insoluble Residue (IR)	BS EN 196-2: 2013, clause 4.4.3
	3. % Sulfate content (as SO ₃)	BS EN 196-2:2013, clause 5
	b) % Silica (SiO ₂)	
	c) % Aluminium Oxide (Al ₂ O ₃)	
	d) % Iron (III) Oxide (Fe ₂ O ₃)	
	e) % Calcium Oxide (CaO)	
	f) % Magnesium (MgO)	
	g) % Potassium Oxide (K ₂ O)	
	h) % Sodium Oxide (Na ₂ O)	

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Page: 2 of 2

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	4. Free Lime (Free CaO)	MS EN 196-2:2020 National Annex
	5. % Chloride (Cl)	BS EN 196-2: 2013, clause 4.5.16

SCOPE OF TESTING : MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
1. Ordinary Portland Cement 2. Portland Composite Cement	Physical Properties 1. Fineness Specific Surface Area (cm ² /g)	BS EN 196-6: 2018, clause 4 (Using Blaine Apparatus)
	2. Standard Consistency - % Water	BS EN 196-3: 2016, clause 5
	3. Setting Time: Initial (minutes) Final (minutes)	BS EN 196-3: 2016 clause 6 (Using Vicat Apparatus)
	4. Soundness Expansion (mm)	BS EN 196-3: 2016, clause 7 (Using Le Chatelier Apparatus)
	5. Compressive Strength (N/mm ²)	BS EN 196-1: 2016

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