

# Schedule

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Certificate No. : LA-2010-0461-A

Issue No. : 11

Date : 05 June 2017

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FIELD OF TESTING : Chemical and Biological Testing

MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT
<b>A Aggregates</b>	1. Chloride Content	SS 73: Part 17: 1992 BS 812: Part 117: 1988 BS EN 1744-1: 2009 + A1: 2012 (Clause 7) BS EN 1744-1: 1998 (Clause 7) BS EN 1744-5: 2006
	2. Sulfate Content	SS 73: Part 18: 1992 BS 812: Part 118: 1988 BS EN 1744-1: 2009 + A1: 2012 (Clause 10, 12) BS EN 1744-1: 1998 (Clause 10, 12)
	3. Potential Alkali Silica Reactivity (Chemical Method)	ASTM C289: 2007
	4. Lightweight Organic Contaminator	BS EN 1744-1: 2009 + A1: 2012 (Clause 14.2)
	5. Humus Content	BS EN 1744-1: 2009 + A1: 2012 (Clause 15.1)
	6. Fulvo Acid	BS EN 1744-1: 2009 + A1: 2012 (Clause 15.2)
	7. Loss on Ignition	BS EN 1744-1: 2009 + A1: 2012 (Clause 17)
	8. Fixed Water Content by Ignition Test	ASTM C637-14, Clause 9.1.3.1
<b>B1 Cement, Silica Fume, Ground Granulated Blast Furnace Slag</b>	1. Loss of Ignition	} BS EN 196-2: 2013 } SS 397: Part 2: 1997
	2. Sulfate	
	3. Residual Insoluble	
	4. Manganese	

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<b>B1 Cement, Silica Fume, Ground Granulated Blast Furnace Slag</b>	5. Silica	} BS EN 196-2: 2013 SS 397: Part 2: 1997	
	6. Iron (III) Oxide		
	7. Aluminium Oxide		
	8. Calcium Oxide		
	9. Magnesium Oxide		
	10. Chloride		
	11. Alkali		
	12. Carbon Dioxide		
	13. Sulfide		
	14. Pozzolanicity		BS EN 196-5: 2011
	15. Heat of Hydration – Solution Method		BS EN 196-8: 2010
	16. Chemical Analysis by X-Ray Fluorescence		BS EN 196-2: 2013
	17. Chemical Analysis of Hydraulic Cement for Specific Analytes		} ASTM C114-15
	a. Insoluble Residue		
	b. Ferric Oxide		
	c. Phosphorus Pentoxide		
	d. Titanium Dioxide		
e. Ammonium Hydroxide Group			
f. Magnesium Oxide			
g. Sulfur Trioxide			
h. Loss On Ignition			
i. Silicon Dioxide			
j. Aluminium Oxide			
k. Calcium Oxide			
l. Sodium & Potassium Oxide, Total Alkali			
m. Chloride			
<b>B2 Cement, Fly Ash</b>	1. Reactive Silica	BS EN 196-2: 2013 / (SS EN 197-1: 2014) (BS EN 450-1:2012)	
<b>B3 Silica Fume</b>	2. Specific Surface Area – BET method	ISO 9277: 2010	
<b>B4 Fly Ash</b>	1. Loss of Ignition	} BS EN 196-2: 2013 (BS EN 450-1: 2012)	
	2. Sulfate		
	3. Residual Insoluble		
	4. Manganese		
	5. Silica		

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<b>C Concrete (Hardened Concrete)</b>	6. Iron (III) Oxide 7. Aluminium Oxide 8. Calcium Oxide 9. Magnesium Oxide 10. Chloride 11. Alkali	} BS EN 196-2: 2013 (BS EN 450-1: 2012)		
	1. Chloride 2. Sulfate 3. Cement Content		BS 1881-124:2015 BS EN 14629:2007 BS 1881-124:2015 BS 1881-124:2015	
	4. Silane Content by Py-GC		In-House Method ADM/CB/0005:2016	
	<b>D Plaster / Motar / Screed</b>		1. Mix Composition (i.e. Cement, Lime, Gypsum & Aggregate) 2. Chloride 3. Sulfate	} BS 4551 : 2005 + A2:2013
<b>E Admixture</b>		1. Absolute Density at 20°C	ISO 758: 1976	
		2. Conventional Dry Material Content	BS EN 480-8: 2012	
	3. pH Value at 20°C	ISO 4316: 1977		
<b>F Repair Material</b>	4. Water Soluble Chloride 5. Alkali Content	BS EN 480-10: 2009 BS EN 480-12: 2005		
	6. Silicon Dioxide SiO <sub>2</sub> Content	BS EN 196-2: 2013 (procedure 4.5)		
	7. Infrared Analysis	BS EN 480-6: 2005		
	1. Polymer Modified Cement Motar / Waterproofing Coating	1. Polymer Content 2. Polymer Identification 3. Cement Content	ADM/C&B/001: 2013 ADM/C&B/002: 2010 BS 4551: 2005 + A2: 2013	
2. Cementitious Waterproof Membrane		1. Verification of base polymer	ADM/C&B/001: 2013 ADM/C&B/002: 2010 ADM/C&B/003: 2010	
		2. Chloride Content		
3. Waterproofing Coating - for repair to external wall	1. Verification of base polymer Polymer Content	ADM/C&B/002: 2010 ADM/C&B/001: 2013		

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4	Non-Cementitious Waterproof Membrane	<ol style="list-style-type: none"> <li>1. Volatile Content</li> <li>2. Verification of base polymer</li> </ol>	ADM/C&B/001: 2013 ADM/C&B/001: 2013 ADM/C&B/002: 2010
<b>G Building Material</b>			
1	Prepacked Mortar	1. } Polymer Content	} ADM/C&B/001: 2013 } ADM/C&B/002: 2010
2	Prepacked Skim Coat	2. } Product Identification Analysis	
3	Prepacked Waterproof Screed	<ol style="list-style-type: none"> <li>1. Product Identification Analysis</li> <li>2. Polymer Content</li> </ol>	ADM/C&B/002: 2010 ADM/C&B/001: 2013
4	Tile Grout		
5	Acrylic Polymer Cementitious Coating	<ol style="list-style-type: none"> <li>1. Identification of Polymer</li> </ol>	ADM/C&B/002: 2010
<b>H Paint</b>			
		<ol style="list-style-type: none"> <li>1. Density</li> <li>2. Non Volatile Matter</li> <li>3. Paint Dilution Test</li> <li>4. Volatile Organic Compounds</li> </ol>	SS 5: Part B7: 2013 SS 5: Part B2: 2013 ADM/C&B/004:2014 ISO 11890-2:2013
<b>I Metal and Metal Products</b>			
		Determination of Metal Composition by Optical Emission Spectroscopy <ol style="list-style-type: none"> <li>1. Carbon and Low Alloy Steels</li> <li>2. Stainless Steels</li> </ol>	ASTM E415-15 ASTM A751: 2014a ASTM E1086: 2014 ASTM A751: 2014a

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## Approved Signatory

Mr Lu Jin Ping  
Mr Julifin  
Ms Sherly Wijaya  
Ms May Soe Moe

} For All Accredited Tests

## Note:

This laboratory is accredited in accordance with the recognised International Standard ISO/IEC 17025. A laboratory's fulfilment 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. 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.