

Schedule

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Certificate No. : LA-2008-0422-B-1
Issue No. : 3
Date : 20 September 2018
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FIELD OF TESTING : Civil Engineering Testing

MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT	SIGNATORY
A. Aggregate	<ol style="list-style-type: none"> 1. Particle Size Distribution / Sieve Analysis 2. Clay, Silt and Dust (Decantation Method) 3. Moisture Content (Oven Dried Method) 4. Bulk Density 5. Relative Density & Water Absorption 6. Shell Content 7. Flakiness Index 8. Shape Index 9. Los Angeles Abrasion 10. Soundness Test 	<p>BS EN 933-1: 2012 ASTM C136 / C136M: 2014 BS 812 Part 103.1: 1985</p> <p>BS EN 933-1: 2012 ASTM C117: 2017 BS 812 Part 103.1: 1985</p> <p>BS EN 1097 -5: 2008 BS 812 Part 109: 1990</p> <p>BS EN 1097- 3: 1998 BS 812 Part 2: 1995</p> <p>BS EN 1097-6: 2013 BS 812 Part 2: 1995 ASTM C127: 2015 ASTM C128: 2015 (Gravimetric Method)</p> <p>BS EN 933-7: 1998 BS 812 Part 106: 1985</p> <p>BS EN 933-3: 2012 BS 812 Part 105.1: 1989</p> <p>BS EN 933-4: 2008</p> <p>BS EN 1097-2: 2010 ASTM C131/C131M: 2014 ASTM C535: 2016</p> <p>BS EN 1367-2: 2009 ASTM C88 : 2013 BS 812 Part 121: 1989</p>	<p style="text-align: center;">LJP, SW</p>

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MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT	SIGNATORY
A. Aggregate	11. Organic Impurities	ASTM C40 / C40M - 16	LJP, SW
	12. Humus Content	BS EN 1744-1: 2009 + A1: 2012 (Clause 15.1)	
	13. Elongation Index	BS 812 Part 105.2: 1990	
	14. Crushing Value	BS 812 Part 110: 1990	
	15. 10% Fines Value	BS 812 Part 111: 1990	
	16. Fineness Modulus	ASTM C136 / C136M:2014	
B. Hardened Concrete	1. Compressive Strength	BS EN 12390-3: 2009 BS 1881: Pt 116: 1983	
	2. Flexural Strength	BS EN 12390-5: 2009 BS 1881: Pt 118: 1983	
	3. Water Absorption	BS 1881 : Pt 122 : 2011	
	4. Water Permeability	DIN 1048: Pt 5 – 1991	
	5. Depth of Penetration of Water Under Pressure	BS EN 12390-8: 2009	
	6. Calibration of Cube Mould	BS EN 12390-1:2012	
	7. Concrete's Ability to Resist Chloride Ion Penetration (Rapid Chloride Permeability Test)	ASTM C1202 - 17a	

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MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT	SIGNATORY
C. Metal Product: 2. Steel Wire / Fabric	1. Tensile Test	BS EN ISO 15630-2: 2010 (BS 4482: 2005)	LJP, SW
	2. Bend and Re-bend Test	BS EN ISO 15630-2: 2010 (BS 4483: 2005) BS EN ISO 15630-2: 2010 (SS 561: 2010) *SS 456: 1999 (SS 18: Part 1: 1999) *SS 456: 1999 (SS 32: Part 1: 1999) *SS 427: 1999 (SS 18: Part 1: 1999) *SS 427: 1999 (SS 32: Part 1: 1999) (SS 18: Part 2: 1970) (SS 32: Part 2: 1986)	
D. Cement/Mortar/ Grout	1. Compressive Strength	ASTM C109 / C109M - 16a	
	2. Bulk Density of Fresh Mortar	BS EN 1015-6: 1999	
	3. Flow	ASTM C1437 - 15	
	4. Setting Time	BS EN 196-3: 2016	

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.