

**SINGAPORE LABORATORY
ACCREDITATION SCHEME**



Schedule

Admaterials Technologies Pte Ltd
58 Sungei Kadut Loop
Singapore 729501

Certificate No. : LA-2013-0540-G
Issue No. : 8
Date : 19 December 2019
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FIELD OF TESTING : Mechanical Testing

MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	METHODS
A. Metal & Metal Products	1. Tensile Test	ISO 6892-1: 2016 ASTM A370: 18 ASTM E8 / E8M: 16a JIS Z 2241: 2011 AS 1391: 2007 ASTM B557: 15 * SS 456: 1999
	2. Hardness Test (i) Brinell	ASTM E10: 18 BS EN ISO 6506-1: 2014
	(ii) Vickers (iii) Rockwell	ASTM E384 - 17 BS EN ISO 6507-1: 2018 BS EN ISO 6508-1: 2016 ASTM E18: 19 *BS EN 10109-1: 1996
B. Reinforcement Bar	1. Tensile Testing (Range - 0 to 2000kN)	BS EN ISO 15630-1: 2019 & ISO 6892-1: 2016 (BS 4449:2005+A3: 2016) BS EN ISO 15630-1: 2019 & ISO 6892-1: 2016 (SS 560: 2016) BS EN ISO 15630-1: 2019 & ISO 6892-1: 2016 (SS 566: 2011) *SS 456: 1999 (SS 2: Part 1: 1999) *SS 456: 1999 (SS 2: Part 2: 1999) (SS 2: Part 3: 1987)
	2. Bend and Re-bend Test	BS EN ISO 15630-1: 2019 (BS 4449:2005+A3: 2016) BS EN ISO 15630-1: 2019 (BS 4482: 2005)

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		BS EN ISO 15630-1: 2019 (SS 560: 2016) BS EN ISO 15630-1: 2019 (SS 566: 2011) *SS 427: 1998 (SS 2: Part 1: 1999) *SS 427: 1998 (SS 2: Part 2: 1999) (SS 2: Part 3: 1987) *ISO 10065: 1990
	3. Measurement of the geometrical characteristics & Determination of the relative rib or indentation area (Surface Geometry)	BS EN ISO 15630-1:2019 (SS 560: 2016)
	4. Determination of deviation from nominal mass per metre	BS EN ISO 15630-1:2019 (SS 560: 2016)
C. Zn and Zn Alloy Coating on Steel or Iron Articles	1. Stripping Test for Determination of Coating Weight	ASTM A90/A90M-13 (2018) (ASTM A653/A653M-18) BS EN ISO 1460: 1995 (BS EN ISO 1461: 2009) *SS 117: 1975
D. Steel Wire / Fabric	1. Dimensional Measurement 2. Tensile Test 3. Bend and Re-bend Test 4. Weld Shear Test	BS EN ISO 15630-2: 2019 (BS 4482: 2005) BS EN ISO 15630-2: 2019 (BS 4483: 2005) BS EN ISO 15630-2: 2019 (SS 561: 2010) *SS 456: 1999 (SS 18: Part 1: 1999) *SS 456: 1999 (SS 32: Part 1: 1999) *SS 427: 1998 (SS 18: Part 1: 1999) *SS 427: 1998 (SS 32: Part 1: 1999) (SS 18: Part 2: 1970) (SS 32: Part 2: 1986)
E. Seven Wire Prestressing Strand / High Tensile Steel Wire / Prestressing Steel	1. Dimensional Measurement 2. Tensile Strength Test (Yield Strength Elongation & Tensile Strength)	BS EN ISO 15630-3: 2019 & BS EN ISO 6892-1: 2016 (BS 5896: 2012) ASTM A1061 / A1061M - 16 (ASTM A416 / A416M - 18) BS EN 10218-1:2012 & BS EN ISO 6892-1: 2016

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MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	METHODS
F. Reinforcement Steel with Coupler	<ol style="list-style-type: none"> 1. Tension Load Test and 2. Permanent Set Measurement (Slip Test) 	ISO 15835-2: 2018 BS 8597:2015 *(BS 8110: Part 1: 1997, Clause 3.12.8.16.2) BS EN ISO 6892-1: 2016
G. Structural Steel	<ol style="list-style-type: none"> 1. Dimensional Measurement 2. Tensile Strength Test 3. Bend Test 	(ASTM A20 / A20M – 19) (ASTM A36 / A36M – 14) (ASTM A500 / A500M – 18) (ASTM A516 / A516M - 17) (BS EN 10025-1: 2004) (BS EN 10025-2: 2004) (BS EN 10210-1: 2006) ASTM A370 – 18 BS EN ISO 7438: 2016 GB/T 2975 - 2018 GB/T 228.1 - 2010 GB/T 232 - 2010
H. Bolts & Nuts	<ol style="list-style-type: none"> 1. Tensile Strength Test (Bolts) 2. Yield Strength Test (Bolts) 3. Hardness Test 4. Proof Load Test (Nuts) 	(BS 3692: 2014) (BS 4190: 2014) (ASTM F3125/F3125M – 18) (ASTM A490 - 14a) BS EN ISO 898-1: 2013 ASTM F606 / F606M – 16 BS EN ISO 898-2: 2012
I. Timber	<ol style="list-style-type: none"> 1. Moisture Content 2. Static Bending Test 3. Compression Test <ol style="list-style-type: none"> a) Compression parallel to grain b) Compression perpendicular to grain 4. Janka Indentation Test 5. Moisture Content 6. Bond quality of plywood (chisel test) 	BS 373: 1957 SS 572: 2012 AS/NZS 2098.2:2012 (AS/NZS 2754.1:2016)

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Approved Signatories

Ms. Sherly Wijaya - For all accredited tests

Mr. Julifin) For all accredited tests except Item I (Timber)

Mr. Jason Foo)

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 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.