

Schedule

Admaterials Technologies Pte Ltd
58 Sungei Kadut Loop
Singapore 729501

Certificate No. : LA-2013-0540-G

Issue No. : 9

Date : 05 January 2021

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FIELD OF TESTING : Mechanical Testing

MATERIALS / PRODUCTS TESTED	TESTS / PROPERTIES	STANDARD METHODS / TECHNIQUES / EQUIPMENT
A. Metal & Metal Products	1. Tensile Test	ISO 6892-1: 2019 ASTM A370-20 ASTM E8 / E8M-16a(e1) 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 ASTM E18-20 BS EN ISO 6508-1: 2016
B. Reinforcement Bar	1. Tensile Testing	BS EN ISO 15630-1: 2019 & ISO 6892-1: 2019 (BS 4449: 2005 + A3: 2016) (BS 4482: 2005) (SS 560: 2016) (SS 566: 2011) * SS 456: 1999 (SS 2: Part 1: 1999) (SS 2: Part 2: 1999) (SS 2: Part 3: 1987)

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	2. Bend and Re-bend Test	BS EN ISO 15630-1: 2019 (BS 4449: 2005 + A3: 2016) (BS 4482: 2005) (SS 560: 2016) (SS 566: 2011) * SS 427: 1998 (SS 2: Part 1: 1999) (SS 2: Part 2: 1999) (SS 2: Part 3: 1987)
	3. Measurement of the geometrical characteristics & Determination of the relative rib or indentation area (Surface Geometry)	BS EN ISO 15630-1:2019 (BS 4449: 2005 + A3: 2016) (SS 560: 2016)
	4. Determination of deviation from nominal mass per metre	BS EN ISO 15630-1:2019 (BS 4449: 2005 + A3: 2016) (SS 560: 2016)
	C. Zn and Zn Alloy Coating on Steel or Iron Articles	1. Stripping Test for Determination of Coating Weight
D. Steel Wire / Fabric	1. Tensile Test	BS EN ISO 15630-2: 2019 & ISO 6892-1: 2019 (BS 4483: 2005) (SS 561: 2010) * SS 456: 1999 (SS 18: Part 1: 1999) (SS 18: Part 2: 1970) (SS 32: Part 1: 1999) (SS 32: Part 2: 1986)
	2. Bend and Re-bend Test	BS EN ISO 15630-2: 2019 (BS 4483: 2005) (SS 561: 2010) * SS 427: 1998 (SS 18: Part 1: 1999) (SS 18: Part 2: 1970) (SS 32: Part 1: 1999) (SS 32: Part 2: 1986)

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D. Steel Wire / Fabric	3. Weld Shear Test	BS EN ISO 15630-2: 2019 (BS 4483: 2005) (SS 561: 2010) (SS 32: Part 1: 1999)
E. Seven Wire Prestressing Strand / High Tensile Steel Wire / Prestressing Steel	1. Tensile Strength Test (Yield Strength Elongation & Tensile Strength)	BS EN ISO 15630-3: 2019 & ISO 6892-1: 2019 (BS 5896: 2012) BS EN 10218-1:2012 & ISO 6892-1: 2019 ASTM A1061 / A1061M-20a(e1) (ASTM A416 / A416M-18)
F. Reinforcement Steel with Coupler	1. Tension Load Test and Permanent Set Measurement (Slip Test)	ISO 15835-2: 2018 BS 8597:2015 ISO 6892-1: 2019 (* BS 8110: Part 1: 1997, Clause 3.12.8.16.2)
G. Structural Steel	1. Tensile Test	ISO 6892-1: 2019 (BS EN 10025-1: 2004) (BS EN 10025-2: 2019) (BS EN 10210-1: 2006) ASTM A370-20 & ASTM E8 / E8M-16a(e1) (ASTM A20 / A20M-19) (ASTM A36 / A36M-19) (ASTM A500 / A500M-20) (ASTM A516 / A516M-17) GB/T 228.1 – 2010 (GB/T 2975 – 2018)
	2. Bend Test	ASTM A370-20 BS EN ISO 7438: 2016 GB/T 232 - 2010
H. Bolts & Nuts	1. Tensile Test (Bolts)	BS EN ISO 898-1: 2013 (BS 3692: 2014) (BS 4190: 2014) ASTM F606 / F606M-19 (ASTM F3125 / F3125-19(e2))

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H. Bolts & Nuts	2. Proof Load Test (Nuts)	BS EN ISO 898-2: 2012 (BS 3692: 2014) (BS 4190: 2014) ASTM F606 / F606M-19 (ASTM F3125 / F3125-19(e2))
I. Timber	1. Moisture Content	SS 572: 2012 BS 373: 1957
	2. Static Bending Test	BS 373: 1957
	3. Compression Test: a. Parallel to grain b. Perpendicular to grain	BS 373: 1957 BS 373: 1957
	4. Janka Indentation Test	BS 373: 1957
	5. Bond quality of plywood (chisel test)	AS/NZS 2098.2:2012 (AS/NZS 2754.1:2016)

Approved Signatories

S/N Name

Scope

1. Ms Sherly Wijaya - For all accredited tests.
2. Mr Jason Foo - For all accredited tests except Item I (Timber).

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.