

NO: SAMM 563

(Issue 2, 18 February 2025 replacement of SAMM 563 dated 4 September 2024)

LABORATORY LOCATION:
(PERMANENT LABORATORY)



**MAKMAL KERJA RAYA MALAYSIA (MKRM)
CONSTRUCTION RESEARCH INSTITUTE OF
MALAYSIA (CREAM)
LOT 8, 1st FLOOR, SEKSYEN 91
JALAN CHAN SOW LIN
55200 KUALA LUMPUR, MALAYSIA**

FIELD OF TESTING: 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).

SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Hardened Concrete	Compressive Strength of Concrete Cube	MS EN 12390-3: 2012 (Curing on specimens performed by customer)
Metallic Materials and Steel for Reinforcement of Concrete	Tensile Properties i. Tensile Strength ii. Yield Strength iii. Elongation after Fracture iv. Elongation at Maximum Forces (as defined in MS ISO 15630-1: 2012)	MS ISO 6892-1: 2017 Method B
Steel fabric for the reinforcement of concrete	Weld shear force	MS ISO 15630-2:2012, Clause 7 (MS 145:2014, Clause 7.2.4)
	Dimensions & Mass	In-house method (MS 145:2014, Clause 7.3 & Table A.1)

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Steel for Reinforcement of Concrete	Mass Per Meter	In-house method (MS 146:2014, Clause 7.4)
Carbon steel tubes	Flattening	JIS G 3444:2016, Clause 9.2.4
Component of Frame Scaffolding	Dimensional and Tolerance for Component of Frame Scaffolding	In-house method (MS 1462- 1:2021, Clause 5) In-house method (JIS G 3444:2016, Clause 7)
Adjustable Jack Base/ U-head (Steel Frame Scaffolding)	Load Test on An Adjustable Jack Base/ U-Head	MS 1462-1:2021, Annex J
Steel and Steel Fabric for Reinforcement of Concrete	Bend and Re-bend Test	MS ISO 15630-1:2012, Clause 6 and 7 MS ISO 15630-2:2012, Clause 6
Cross brace pins of Vertical Frame	Load Test on Cross Braces Pins of a Vertical Frame	MS 1462-1:2021, Annex N

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Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Railway Track Material, Prestressed Concrete Sleepers	Rail seat vertical load test	AS 1085.14:2019, Annex E
	Centre negative bending moment test	AS 1085.14:2019, Annex H
	Centre positive bending moment test	AS 1085.14:2019, Annex I
Component of Frame Scaffolding	Deflection and bending test on catwalks (tread board)	MS 1462-1:2021, Annex H.1
	Load test on gripper fitting (hooks) of a catwalk (tread board)	MS 1462-1:2021, Annex H.2
	Compression test on vertical tube	MS 1462-1:2021, Annex E2

Schedule

Issue Date: 18 February 2025
Valid until: 27 August 2029



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LOT 4, INDUSTRIAL ZONE 15
KOTA KINABALU INDUSTRIAL PARK
88460 KOTA KINABALU, SABAH
MALAYSIA**

SCOPE OF TESTING: MECHANICAL

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Hardened Concrete	Compressive Strength of Concrete Cube	MS EN 12390-3: 2012 (Curing on specimens performed by customer)
Metallic Materials and Steel for Reinforcement of Concrete	Tensile Properties i. Tensile Strength ii. Yield Strength iii. Elongation after Fracture iv. Elongation at Maximum Forces	MS ISO 6892-1:2017 Method B MS ISO 15630-1:2012, Clause 5
Steel Fabric for the Reinforcement of Concrete	Dimension	In-house method (TM 4-1), MS 145:2014, Clause 7.3
Steel for Reinforcement of Concrete	Deviation from Nominal Mass Per Meter	MS ISO 15630-1:2012, Clause 12 MS 146:2014, Clause 7.4

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(PERMANENT LABORATORY)**MAKMAL KERJA RAYA MALAYSIA (MKRM)
CONSTRUCTION RESEARCH INSTITUTE OF
MALAYSIA (CREAM)
KOMPLEKS CIDB, JALAN SULTAN TENGAH
93050 KUCHING, SARAWAK
MALAYSIA****SCOPE OF TESTING: MECHANICAL**

Materials/ Products Tested	Type of Test/ Properties Measured/ Range of Measurement	Standard Test Methods/ Equipment/Techniques
Hardened Concrete	Compressive Strength of Concrete Cube	MS EN 12390-3: 2012 (Curing on specimens performed by customer)
Metallic Materials and Steel for Reinforcement of Concrete	Tensile Properties i. Tensile Strength ii. Yield Strength iii. Elongation after Fracture iv. Elongation at Maximum Forces	MS ISO 6892-1:2017 Method B MS ISO 15630-1:2012, Clause 5
Steel Fabric for the Reinforcement of Concrete	Dimension	In-house method (TM 4-1), MS 145:2014, Clause 7.3
Steel for Reinforcement of Concrete	Deviation from Nominal Mass Per Meter	MS ISO 15630-1:2012, Clause 12 MS 146:2014, Clause 7.4