

NO: SAMM 836

Page: 1 of 3

LABORATORY LOCATION/ CENTRAL OFFICE:	I-Lab Testing & Research Centre Hercules Engineering (SEA) Sdn. Bhd. Lot 3691, Jalan Kusta, Kg. Jaya Industrial Area, 47000 Sg. Buloh, Selangor , 47000, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	06 APRIL 2025
FIELD(S) 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).

CENTRAL LOCATION:	i-Lab Testing & Research Centre Hercules Engineering (SEA) Sdn. Bhd. Lot 3691, Jalan Kusta, Kg. Jaya Industrial Area, 47000 Sg. Buloh, Selangor , 47000, Selangor
FIELD(S) OF TESTING :	MECHANICAL,

SCOPE OF TESTING : MECHANICAL

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
(lud), Hydraulic Dampers,	None	Clause 8.2.1.2.6
Accessories	None	BS 5400-1983 Section 9.2
	None	None
	None	None
Accessories.	None	AASHTO Section 18 (2010)
And Pendulum) With / Without Fasteners & Accessories	Compression Stiffness	BS EN 15129: 2018
Anti-seismic & Damping	Compression Quality Assurance Test	BS EN 15129: 2018
Anti-vibration Washers	Dynamic Vibration Test (Junker Test)	DIN 65151, 2002-08
Bars	Fatigue Test	BS EN 13391:2004

Schedule

Issue date: 06 April 2025
Valid Until: -



NO: SAMM 836

Page: 2 of 3

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
Bearing Plate, Anchors & Bearings, Plain Elastomeric Bearing Or Rubber Strips With / Without Fasteners & Devices	None (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN) (Max. Vertical Load 50,000 kN) None None None Radiated Power (EIRP) 0 °C to 630 °C	Clause 4.2.1 & 4.3.1 AS 5100: 2004 Part 4 App D2 AS 1523 Clause 8.2.1.2.7 None None None ANSI/TIA-102.CAAA-E: 2016 0.48 °C
Elastomeric Type	Compression Quality Assurance	MS 671 [App B] & BS 6177:1982 Clause 9.6
Elastomeric Type Laminated Elastomeric Bearings, Plain Elastomeric Bearing Or Rubber Strips With / Without Fasteners & Accessories (continued)	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN) Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN) Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS EN 1337-3:2005 [Annex H: Level 2] AASHTO Sec.18 (2003) Clause 18.7.4.5.6
Hardened Concrete	Compressive Strength of Concrete Compressive strength of Compressive Strength of Compressive Strength of Compressive Strength of Compressive Strength of Concrete Compressive Strength of Test Compressive Strength of Compressive Strength of Concrete Cube Compressive Strength of Concrete Cube (0-2000 kN) Density of Hardened Concrete Surface Hardness Test by Compressive Strength of Compressive Strength Test (Cubes, Cores & Cylinders) Surface Hardeness Testing by Compressive Strength Test (Cubes, Cores & Cylinders) Surface Hardeness Testing by Compressive Strength of Concrete Cube & Cylinder in the force range of OKN to Compressive Strength of Concrete Core in the force range of OKN to 3000kN Determination of Density	BS EN 12390-3: 2019 MS EN 12390-3:2012 MS EN 12390-3:2012 BS EN 12504-1:2019 MS EN 12390-3:2012 MS EN 12504 : Part 1 : 2013 BS EN 12390-3: 2019 BS EN 12390-3: 2019 BS EN 12390-3:2009 MS EN 12390-3:2012 BS EN 12390-3:2009 BS EN 12390-7:2009 BS EN 12504-2:2012 BS EN 12390-3: 2019 BS EN 12390-3: 2019 (Test at ambient conditions) BS EN 12504 -" 2: 2021 BS EN 12390-3: 2019 (Test at ambient conditions) BS EN 12504 -" 2: 2021 BS EN 12390-3:2009 MS EN 12390-3:2012 BS EN 12504-1:2009 MS EN 12504-1:2013 BS EN 12390-7:2009

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NO: SAMM 836

Page: 3 of 3

Material / Product Tested	Type Of Test / Properties Measured / Range Of Measurement	Standard Test Methods / Equipment / Techniques
	Determination of Density, Absorption and Voids	ASTM C 642:13
	Initial Surface Absorption	BS 1881 Part 208: 1996
	Rapid Chloride Permeability	AASHTO Designation T277:15
	7. Water Permeability	DIN 1048 Part 5: June 1991
	8. Static Modulus of Elasticity in	ISO 1920 Part 10: 2010
	Penetration Resistance in the	ASTM C 803/C 803M -18
	Compressive Strength of	None
	Rebound Hammer Test	BS EN 12504-2: 2021
	Compressive Strength of	MS EN 12390-3:2012
	Compressive Strength of Concrete Cube in the force range of 0 kN to 3000 kN	MS EN 12390-3:2012 BS EN 12390-3:2019
	Compressive Strength of Concrete Cube	MS EN 12390-3: 2012 (curing on specimens performed by
	Concrete Cube	customer)
	Compressive Strength of Cubes	Test instruction reference to BS EN
Isolation, E.g. Hdrb, Lrb	None	Lateral Displacement
Knuckle Leaf Bearings Or Ptfе Elastomeric Bearings With / Without Fasteners &	None	AASHTO Section 18 (2010) Clause 18.3.4.4.
Laminated Elastomeric	Test	MS 671: 2014
Post Tensioning (pt)	Static Load Test	BS EN 13391:2004
Seismic Bearings (structural	None	Compression Under Zero
Shock Transmission Unit - (stu), Lock Up Device	(Max. Horizontal Load 5000 kN)	BS EN 15129: 2018
Spherical Bearings, Mechanical Pot Bearings,	(Max. Horizontal Load 5000 kN)	BS EN 1337-5: 2005 [Annex B]
Structural & Mechanical	Compression Quality Assurance Test	BS 5400:1983 Sec. 9.2
Type	(Max. Vertical Load 50,000 kN)	Clause 7.2 (b)

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