

Schedule


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LABORATORY LOCATION/ CENTRAL OFFICE:	Elab Testing & Research Center, Doshin Rubber Products (M) Sdn. Bhd. Lot PT 34252, Jalan Sekolah Rantau Panjang , 42100, SELANGOR MALAYSIA
	
ACCREDITED SINCE :	01 JUNE 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:	elab Testing & Research Center, Doshin Rubber Products (M) Sdn. Bhd. Lot PT 34252, Jalan Sekolah Rantau Panjang , 42100, 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
Laminated Elastomeric Bearings, Elastomeric Bearing Pads And Strips	Compression Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	AS 5100: Part 4 (2017) [Appendix D2]
	Compression Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS 5400-1983 Section 9.2 Clause 7.2 (b) (i)
	Compression Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS 6177: 1982 Clause 9.3

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	Compression Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS 6177: 1982 Clause 9.4
	Compression Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	B281 Clause 4.6 (June 2020)
	Compression Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS EN 1337-3: 2005 (Annex H: Level 1)
	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	AS 5100: Part 4 (2017) [Appendix D3]
	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS 5400-1983 Section 9.2 Clause 7.2 (b) (ii)
	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	AASHTO Sec.18 (2003) clause 18.7.4.5.6
	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	AASHTO Sec.18 (2003) clause 18.7.4.5.7
	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	B281 Clause 4.4 (June 2020)
	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	RMS B281 Clause 2.2.6 (April 2012)
	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	D&C B280 Clause 4.4 (June 2020)
	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS EN 1337-3:2005 [Annex H: Level 2]
	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS 6177:1982 Clause 9.6
	Shear Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	AS 5100: Part 4 (2017), [Appendix D4] BS 5400-1983 Section 9.2 Appendix A
	Shear Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS EN 1337-3:2005 [Annex F.7.2]
	Shear Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS 6177: 1982 Clause 9.5, (Single Shear Configuration)

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	Shear Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS 6177: 1982 Clause 9.5, (Double Shear Configuration)
	Shear Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	B281 Clause 4.5 (June 2020)
	Shear Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	D&C B280 Clause 4.5 (June 2020)
	Shear Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	AASHTO Sec. 18 (2003), Clause 18.7.4.5.8
Structural Bearings (spherical Bearing And Mechanical Pot Bearing)	Compression Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS EN 1337-5:2005, [Annex B]
	Compression Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	AASHTO Sec. 18 (2003) Clause 18.7.2.5
	Compression Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	AASHTO Sec. 18 (2003), Clause 18.7.2.6
	Compression Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS 5400:1983 Sec. 9.2, Clause 7.2 (b)
	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS EN 1337-5:2005, [Annex B]
	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS 5400:1983 Sec. 9.2, Clause 7.2 (b)
	Vertical Load Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	AASHTO Sec. 18 (2003), Clause 18.7.2.5
	Vertical Load Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	AASHTO Sec. 18 (2003), Clause 18.7.2.6
Structural Bearings (spherical Bearings And Mechanical Pot Bearings)	Horizontal Load Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS 5400:1983 Sec. 9.2, Clause 7.2 (b) AASHTO Sec. 18 (2003), Clause 18.7.2.9

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	Friction & Sliding Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS 5400:1983, Part 9.1 & 9.2 AASHTO Sec. 18, Clause 18.7.2.7 BS EN 1337: 2004, Annex B
	Rotation Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	MRT S81-Appendix D(D4) AASHTO Sec. 18, Clause 18.7.4.4.3 BS EN 1337:5:5 (2014) BS 5400:1983, Part 9.1 & 9.2
Seismic Bearings (structural Isolation, E.g. Hdrb, Lrb And Pendulum)	Compression Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS EN 15129: 2009, Clause 8.2.1.2.6 Compression Under Zero Lateral Displacement
	Compression Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS EN 15129: 2009, Clause 8.2.1.2.7
	Compression Stiffness (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS EN 15129: 2009, Clause 8.2.1.2.8
	Horizontal Capacity (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	BS EN 15129: 2009, Clause 8.2.1.2.5 Horizontal Characteristic on Repeated Cycling
Elastomeric Bearings	Compression Strain Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	AASHTO M251-06, Clause 9.1
	Quality Assurance Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	AASHTO M251-06, Clause 8.8.2 MS 671: 2014 (Annex H: Level 1)
	Compression stiffness Test (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	MS 671: 2014 (Annex H: Level 2)
	Shear Modulus (Max. Vertical Load 50,000 kN) (Max. Horizontal Load 5000 kN)	MS 671: 2014 (Annex F: 7.2)
Material Properties (vulcanized Rubber)	Tensile Properties Elongation at Break	ASTM D412-16 ISO 37: 2017 AS 1683-11-2001
	Hardness -Shore A	ASTM D2240-15 ISO 48-4: 2018 AS 1683.15.2-1990
	Hardness -IRHD	ASTM D1415-18 ISO 48-2: 2018 AS 1683.15.1-2000
	Compression Se	ASTM D395-18 ISO 815-1:2019 AS 1683-13-1992

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	Ozone Resistance	ASTM D1149-18 ISO 1431-1-2012 AS 1683-24-2001
	Heat Accelerated Aging	ASTM D573-04 ISO 188: 2011 AS 1683-26: 2001
	Bonding Strength	ISO 813: 2016 ASTM D429-14

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