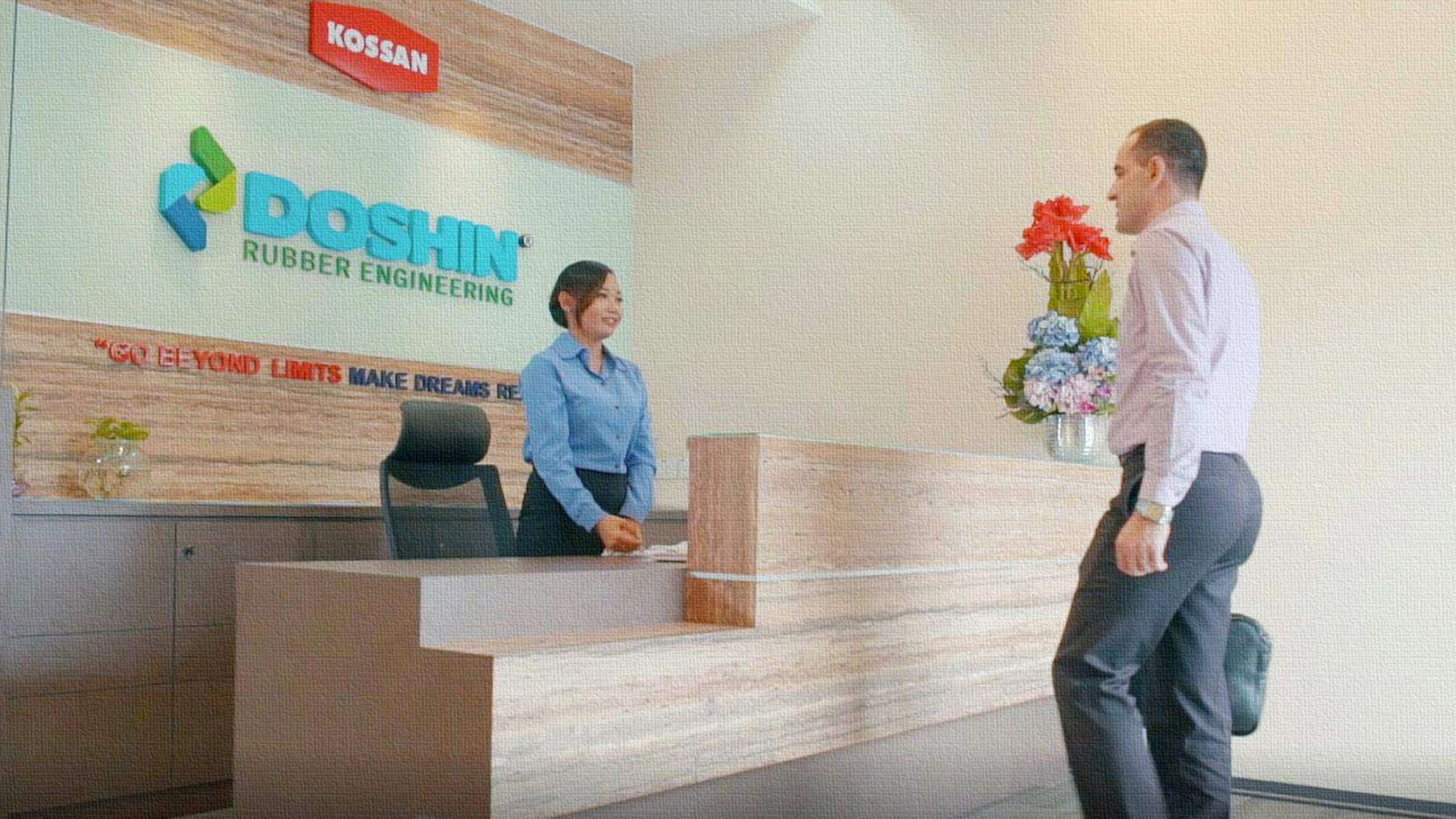

KOSSAN
DOSHIN
RUBBER ENGINEERING
"GO BEYOND LIMITS MAKE DREAMS RE

DOSHIN®
RUBBER ENGINEERING

ESTABLISHED IN YEAR 1978

A subsidiary of

KOSSAN

STRETCHING LIMITS • SINCE 1979

VISION

“ To be the world class market leader in Engineering Rubber Products driven by technological advancement, people value and continual improvement to deliver long term and sustainable growth “

QUALITY POLICY

“ We strive beyond customers’ quality requirements through continuous improvement plans with specific attention to technical excellence and innovation “

CERTIFICATIONS

Certificate

Standard: ISO 9001:2015

Certificate Registr. No.: 01 100 2035867

Certificate Holder: Doshin Rubber Products (M) Sdn Bhd
Quality Profile Sdn Bhd
Lot PT 34252, Jalan Sekolah, Rantau Panjang,
42100 Klang, Selangor
Malaysia

Scope: Design, Development, Manufacture, Testing and Installation of Elastomeric Bearings, Mechanical Pot Bearings High Damping Rubber Bearings, Friction Pendulum Bearings, Lead Rubber Bearings, Floating Slab Track Bearings, Steel & Rubber Expansion Joints, Marine Fenders, Spherical Bearings, Dampers and Other Engineered Rubber Product and Metal Products for Bridges, Buildings, Railways, Tramways, Marine, Mining, Oil & Gas, Nuclear Plants and Other Civil Engineering Applications

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2020-11-27 until 2022-10-02.
First certification 2020

2020-12-03

TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

www.tuv.com

TÜVRheinland®
Precisely Right.

QUALITY SYSTEM MANAGEMENT
ISO 9001:2015

S/N: 1209

STANDARDS MALAYSIA

Certificate of Accreditation

No: SAMM 372 Accredited since: 14 September 2007

This is to certify that

elab TESTING & RESEARCH CENTER
DOSHIN RUBBER PRODUCTS (M) SDN BHD
KLANG, SELANGOR
MALAYSIA

has been granted accreditation in respect of the scope of accreditation described in the schedule, subject to the terms and conditions governing the *Skim Akreditasi Makmal Malaysia* (SAMM), the Laboratory Accreditation Scheme of Malaysia.

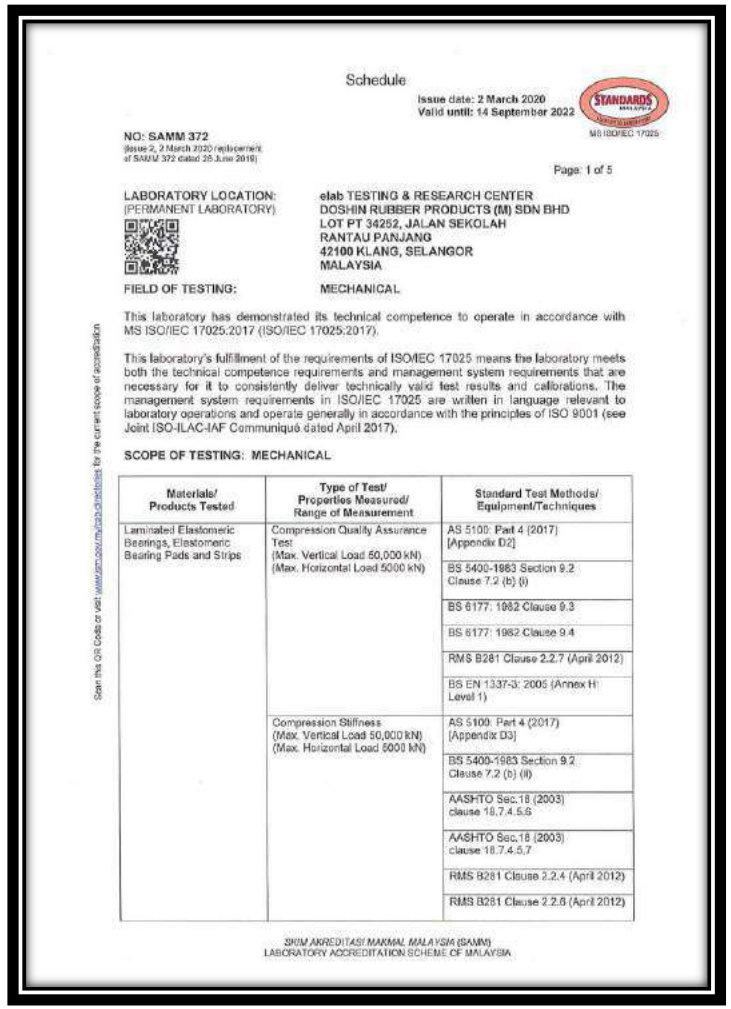
Laboratories accredited under SAMM meet the requirements of MS ISO/IEC 17025. This Malaysian Standard is identical with ISO/IEC 17025 published by the International Organization for Standardization (ISO).

(DATUK FADILAH BAHARIN)
Director General
Department of Standards Malaysia

Date of issue: 26 June 2019

Issuance of this Certificate is governed by Section 16 Subsections (2) and (3) of Standards of Malaysia Act 1996 (Act 549)

LABORATORY ACCREDITATION
SKIM AKREDITASI MAKMAL MALAYSIA(SAMM)
MS ISO / IEC 17025



Schedule

Issue date: 2 March 2020
Valid until: 14 September 2022

STANDARDS MALAYSIA
MS ISO/IEC 17025

NO: SAMM 372
(Issue 2, 2 March 2020 replacement of SAMM 372 dated 26 June 2019)

Page: 1 of 5

LABORATORY LOCATION: (PERMANENT LABORATORY)
elab TESTING & RESEARCH CENTER
DOSHIN RUBBER PRODUCTS (M) SDN BHD
LOT PT 34252, JALAN SEKOLAH
RANTAU PANJANG
42100 KLANG, SELANGOR
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
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]
		BS 5400-1983 Section 9.2 Clause 7.2 (b) (i)
		BS 6177: 1982 Clause 9.3
		BS 6177: 1982 Clause 9.4
		RMS B281 Clause 2.2.7 (April 2012)
		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]
		BS 5400-1983 Section 9.2 Clause 7.2 (b) (ii)
		AASHTO Sec.18 (2003) clause 18.7.4.5.6
		AASHTO Sec.18 (2003) clause 18.7.4.5.7
		RMS B281 Clause 2.2.4 (April 2012)
		RMS B281 Clause 2.2.6 (April 2012)

SKIM AKREDITASI MAKMAL MALAYSIA (SAMM)
LABORATORY ACCREDITATION SCHEME OF MALAYSIA

SEISMIC ISOLATOR HDRB
CE MARK CERTIFICATE
NO: SAMM 372

QUALITY CERTIFICATION

QUALITY MANAGEMENT SYSTEM
Which Complies with the requirements of

ISO 9001:2015

For the following Scope:

Design development, Manufacture, Testing and Installation of Elastomeric bearings, Mechanical Pot Bearings, High Damping Rubber Bearings, Floating Slab Track Bearings , Steel and Rubber Expansion joints, Marine Fenders, Spherical Bearings, dampers and other Engineered Rubber Products and Metal Products for Bridges, Buildings, Railways, Tramways, Marine, Mining, Oil and Gas, Nuclear Plants and others Civil Engineering application.

PRODUCTS

A SOLUTION FOR ENGINEERED RUBBER AND STEEL PRODUCTS FOR BRIDGES, BUILDINGS, RAILWAYS, MININGS, AND OTHER CIVIL ENGINEERING APPLICATIONS

MARINE DOCK FENDERS

- To perform as bumper to protect the hull and bearing facility from damages

- To perform as a shock absorber on the bearing operation

ELASTOMERIC BEARINGS

To design, produce, and test to meet BS, EN, AS, AASHTO and other international specs

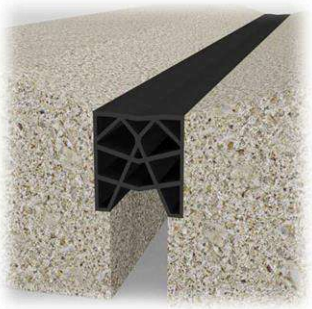
SPHERICAL BEARINGS

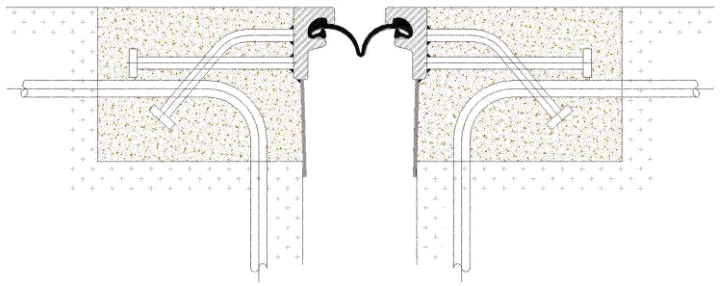
Doshin Spherical bearings are designed for very high vertical, horizontal and lateral loads and where large rotational structural displacements need to be accommodated.

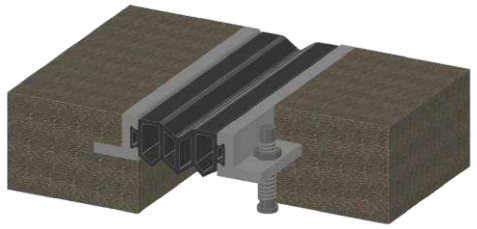
EXPANSION JOINTS AND SEALS

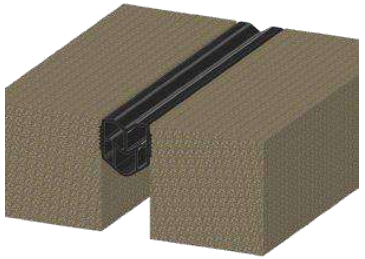
TYPES OF JOINTS:

1. Elastomer Expansion Joints
2. Modular Joints (3 DOF)
3. Finger Joint (DFJ)
4. Compression Seals







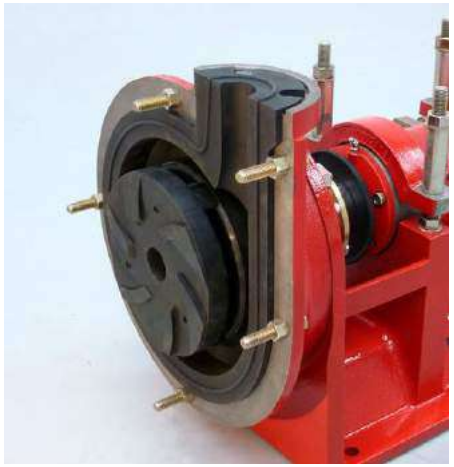


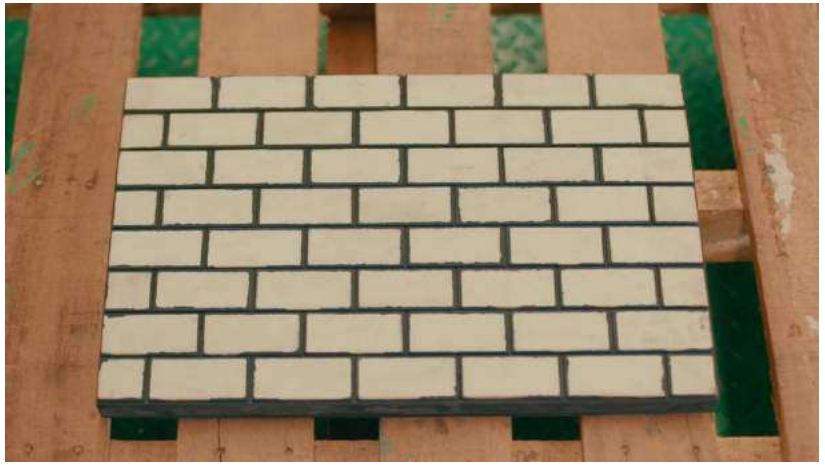
MECHANICAL POT BEARINGS

Design, Fabricate, Testing and Install POT BEARINGS up to vertical load 50,000 KN

MINING RUBBER PRODUCTS

Superior wear resistant rubber compound formulation





MINING RUBBER PRODUCTS

RAILWAY RUBBER PRODUCTS

- A proven mass-spring system for achieving very high levels of noise & vibration isolation

- Floating slab track (FST), rubber wedge, rail fastening

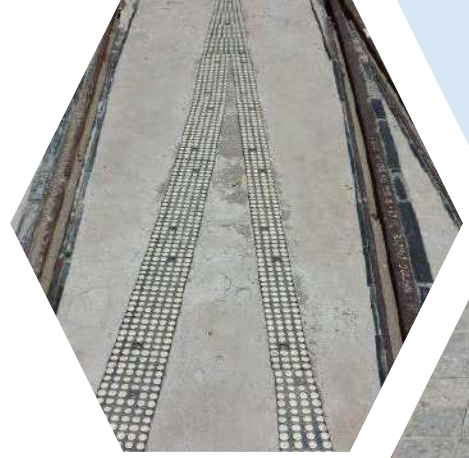
PROJECT REFERENCE:

- Downtown Line SINGAPORE
- Heikamo Rail GERMANY
- TTY Airport Line TAIWAN
- HONG KONG KCRC KSL
- UK Cross Road 2016
- TAIWAN Tai Chung Green Line 2016

TRAMWAY & LIGHT RAIL

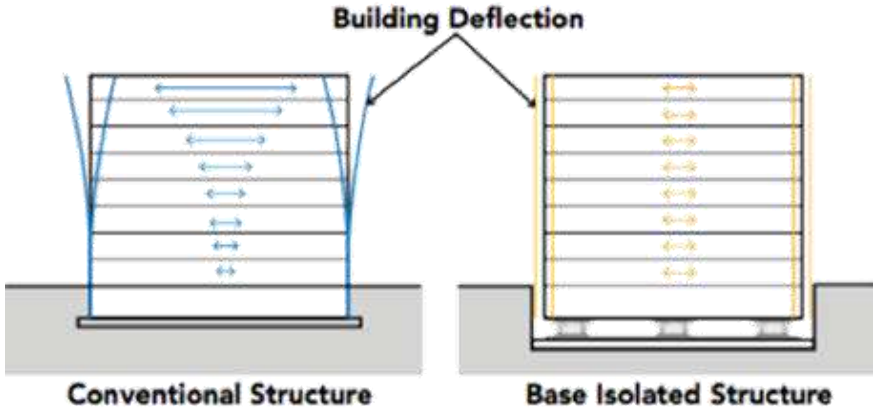
Special formulated electrical Insulated rubber technology Electrical resistivity ground-level power supply (APS 3) and Static Charging System (SRS) for Alstom's Trams

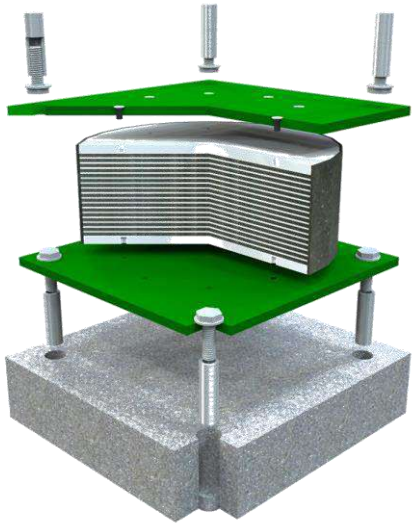
APS is a service-proven power system for tramways which supplies electricity through a third rail at ground level and eliminates the need for catenaries, thus preserving the aesthetics of city center and guaranteeing maximum safety.

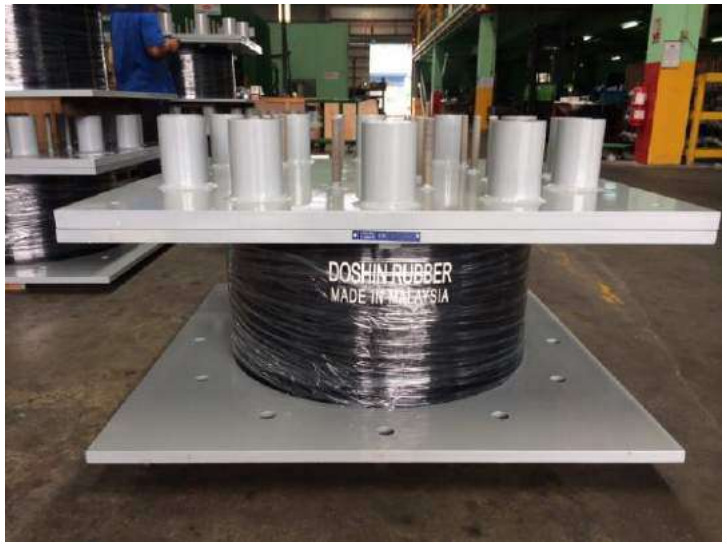


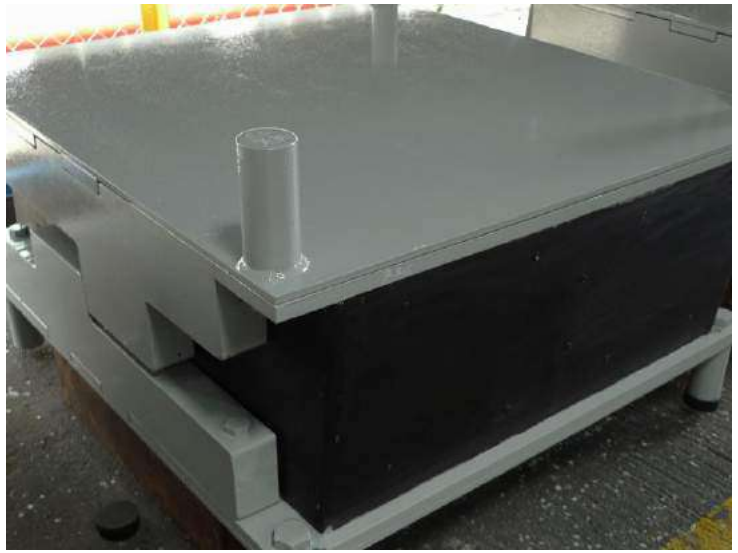
HIGH DAMPING RUBBER BEARINGS

Design & Produce UHDRB with damping ratio up to 24%

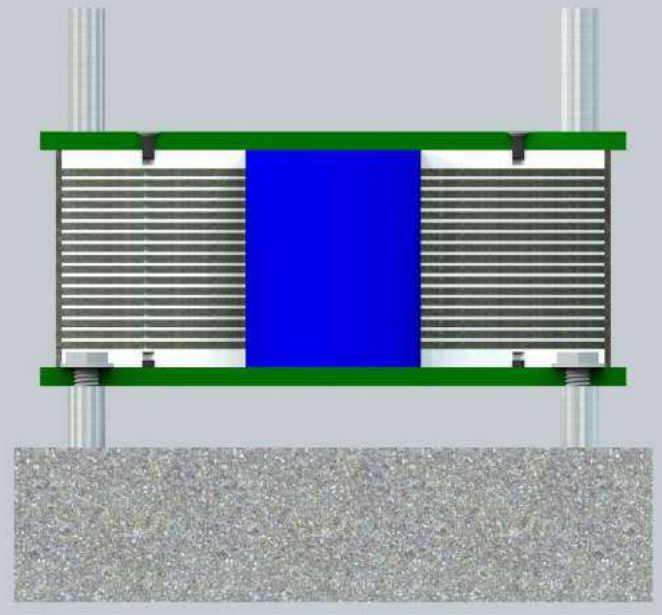


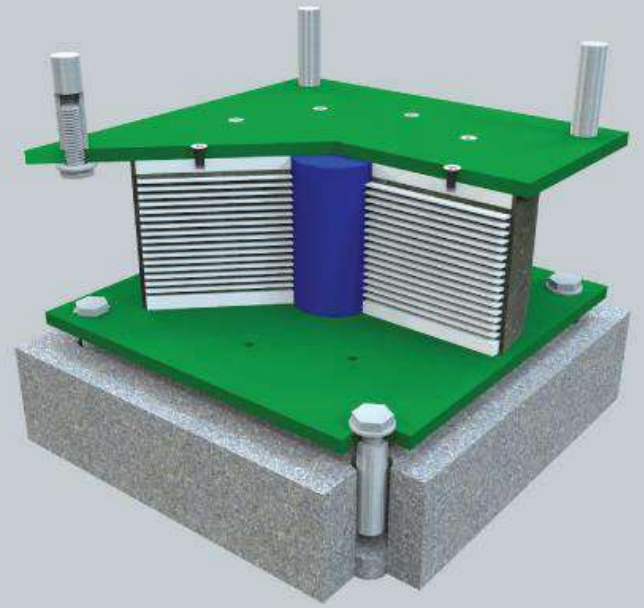


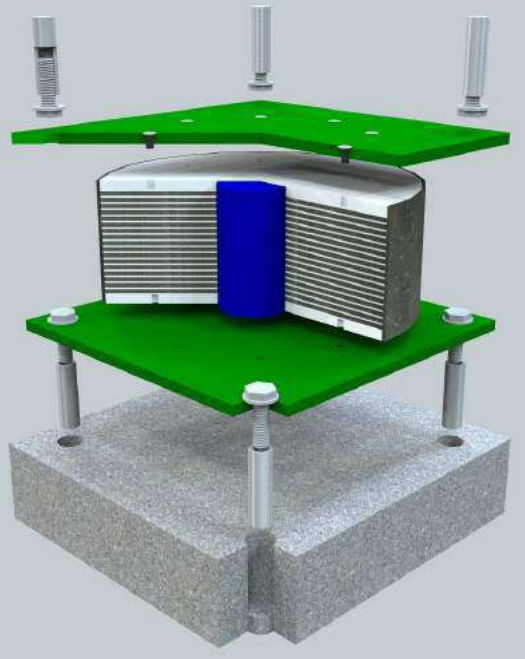




LEAD RUBBER BEARINGS







MANUFACTURING FACILITIES

MANUFACTURING FACILITIES-MIXING

- Mixing capacity up to 2000 tons compound per month
- Farrell Chronos Richardan mixing 80L & 160L
- ST rotor variable speed
- Temperature control
- Chronos auto material feeding system

MANUFACTURING FACILITIES

VARIOUS MOULDING MACHINES FROM
500 TONS TO 2000 TONS

INJECTION TO FENDER AT 1500KG/HR

3 UNITS GEAR PUMP EXTRUDER 1500KG/HR

2000 TONS CLAMPING MACHINE
3.5M X 3.5M X 3.0M DAYLIGHT

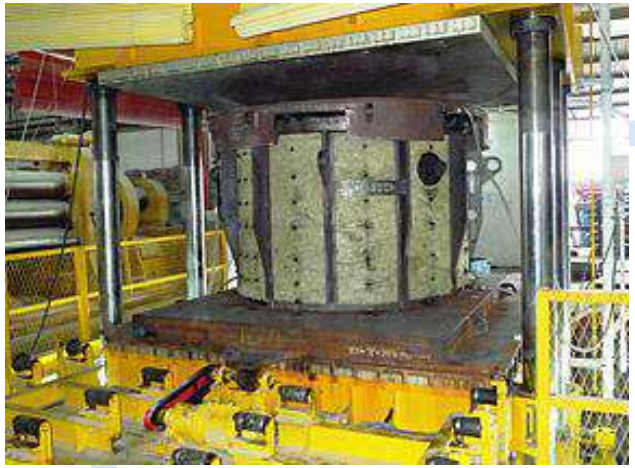
1200 TONS COMPRESSION PRESS
1.2M X 2.2M

SHEETING PREFORM MACHINE

MANUFACTURING FACILITIES

CNC

2000 TONS COMPRESSION MACHINE
1.2M X 3.2M



2000 TONS COMPRESSION MACHINE
3.5M X 3.5M X 3M

2000 TONS COMPRESSION MACHINE
1.5M X 3.5M

2000 TONS COMPRESSION MACHINE
2.2M X 2.2M

1800 TONS HYDRAULIC BUILT
INTO AUTOLAVE FOR CURING

E-LAB TESTING & RESEARCH CENTER

CERTIFIED TO ISO/IEC 17025

Innovating the best testing machines with our well trained engineers for engineered rubber solution

E-LAB TESTING & RESEARCH CENTER

MS ISO/IEC 17025
TESTING
SAMM NO. 372

Quality
ISO 9001

Schedule
No: SAMM 372

This laboratory accredited under Skim Akreditasi Makmal Malaysia (SAMM) meets the requirements of MS ISO-IEC 17025:2005 General requirements for competence of testing and calibration laboratories. This Malaysian Standards is identical with ISO-IEC 17025:2005 published by the International Organization for Standardization (ISO)

E-LAB TESTING & RESEARCH CENTER

FIELD OF TESTING : MECHANICAL

Scope of Accreditation:

Product: Laminated Elastomeric Bearings, Elastomeric Bearing Pads and Strips

Type of Test	Test Method
SHEAR STIFFNESS #Single Shear 	AS 5100: Part 4 (2004) [Appendix D4]
	BS 5400 – 1983 Section 9.2 Appendix A
	BSEN 1337 – 3 : 2005 [Annex F.7.2]
	BS 6177 : 1982 Clause 9.5 (Single Shear Configuration)
#Double Shear 	BS 6177 : 1982 Clause 9.5 (Double Shear Configuration)
	RMS B281 Clause 2.2.5 (Apr' 12)
	RTA B280 Clause 2.2.5 (2011)
	AASHTO Sec. 18 (2003) Clause 18.7.4.5.8

Type of Test	Test Method
COMPRESSION QUALITY ASSURANCE TEST  	AS 5100: Part 4 (2004) [Appendix D2]
	BS 5400 – 1983 Section 9.2 Clause 7.2 (b)(i)
	BS 6177: 1982 Clause 9.3 (Safe Carrying Capacity Test)
	BS 6177: 1982 Clause 9.4 (Stability Test)
	RMS B281 Clause 2.2.7 (Apr' 12)
	BSEN 1337 – 3 : 2005 (Annex H : Level 1)
COMPRESSION STIFFNESS  	AS 5100: Part 4 (2004) [Appendix D3]
	BS 5400 – 1983 Section 9.2 Clause 7.2 (b)(i)
	AASHTO Sec 18 (2003) Clause 18.7.4.5.6 (Short Duration)
	AASHTO Sec.18 (2003) Clause 18.7.4.5.7 (Long Duration)
	RMS B281 Clause 2.2.4 (Apr'12)
	RMS B281 Clause 2.2.6 (Apr'12) (Applied Rotation)
	RTA B280 Clause 2.2.4 (2011)
	BSEN 1337 – 3 : 2005 (Annex H: Level 2)
	BS 6177: 1982 Clause 9.6

E-LAB TESTING & RESEARCH CENTER

Product: SEISMIC BEARINGS

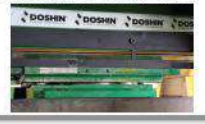
(STRUCTURAL ISOLATION, e.g: HDRB, LRB and PENDULUM)

Type of Test	Test Method
COMPRESSION QUALITY ASSURANCE TEST 	BSEN 15129 : 2009 Clause 8.2.1.2.6 Compression under Zero Lateral Displacement
	BSEN 15129 : 2009 Clause 8.2.1.2.7
COMPRESSION STIFFNESS 	BSEN 15129 : 2009 Clause 8.2.1.2.8
HORIZONTAL CAPACITY 	BSEN 15129 : 2009 Clause 8.2.1.2.5 Horizontal Characteristics On Repeated Cycling

Notes: HDRB : High Damping Rubber Bearing
LRB : Lead Rubber Bearing

Product: STRUCTURAL BEARINGS

(SPHERICAL BEARINGS AND MECHANICAL POT BEARINGS)

Type of Test	Test Method
COMPRESSION QUALITY ASSURANCE TEST 	BS EN 1337 – 5 : 2005 (Annex B)
	BSEN 5400 : 1983 Section 9.2 Clause 7.2 (b)
	AASHTO Sec. 18 (2003) Clause 18.7.2.5 Short-term Compression Proof Load Test
	AASHTO Sec. 18 (2003) Clause 18.7.2.6 Long-term Compression Proof Load Test
COMPRESSION STIFFNESS 	BS EN 1337 – 5 : 2005 [Annex B]
	BS 5400 : 1983 Section 9.2 Clause 7.2 (b)
VERTICAL LOAD TEST 	AASHTO Sec. 18 (2003) Clause 18.7.2.5
	AASHTO Sec. 18 (2003) Clause 18.7.2.6
HORIZONTAL LOAD TEST 	BS 5400 : 1983 Section 9.2 Clause 7.2 (b)
	AASHTO Sec. 18 (2003) Clause 18.7.2.9 (Fixed or Guided Bearings Only)
FRICTION & SLIDING TEST 	BS 5400:1983 (Part 9.1 & 9.2) AASHTO Sec 18 Clause 18.7.2.7 BS EN 1337 : 2004, Annex B
ROTATION TEST 	MRT S81-Appendix D (D4) AASHTO Sec 18, Clause 18.7.4.4.3 BS EN 1337 : 2004, Annex B BS 5400 : 1983 (Part 9.1 & 9.2)

E-LAB 100

Fender Compression & Durability Test

COMPRESSION FORCE : 3,000kN

E-LAB 121 & E-LAB 122

Static Stiffness Performance Test for Floating Slab Track Bearings and Base Plate

E-LAB 121 Vertical Load : 200KN
E-LAB 122 Vertical Load : 1,000KN
Static Compression Loading Rate: 2.5~ 120KN/MIN

E-LAB 132

Vertical Load : 10,000KN
Shear Load : 1,000KN
Displacement : +/- 500mm

Hysteresis Damping Testing for Structural Bearings and Seismic Isolators

E-LAB 140

Hysteresis Damping Testing for Structural Bearings and Seismic Isolators

Vertical Load : 20,000KN
Shear Load : 2,000KN
Displacement : +/- 500mm

E-LAB 150

HYSTRESIS DAMPING TESTING
FOR STRUCTURAL BEARINGS
AND SEISMIC ISOLATORS

One of the biggest testing machine
with shear capability in the world

Vertical Load : 50,000KN
Shear Load : 5,000KN
Displacement : +/- 1,000 MM

Machine platen size:
2,200 mm x 2,200 mm

Capable to Test Bearing size
up to 2,000 mm

E-LAB 160

Fenders
Compression
Test

- Energy Absorption & Reaction Force Test
- Compression Load : 10,000KN

E-LAB 170

Hysteresis Damping Test for Rubber Compound Development

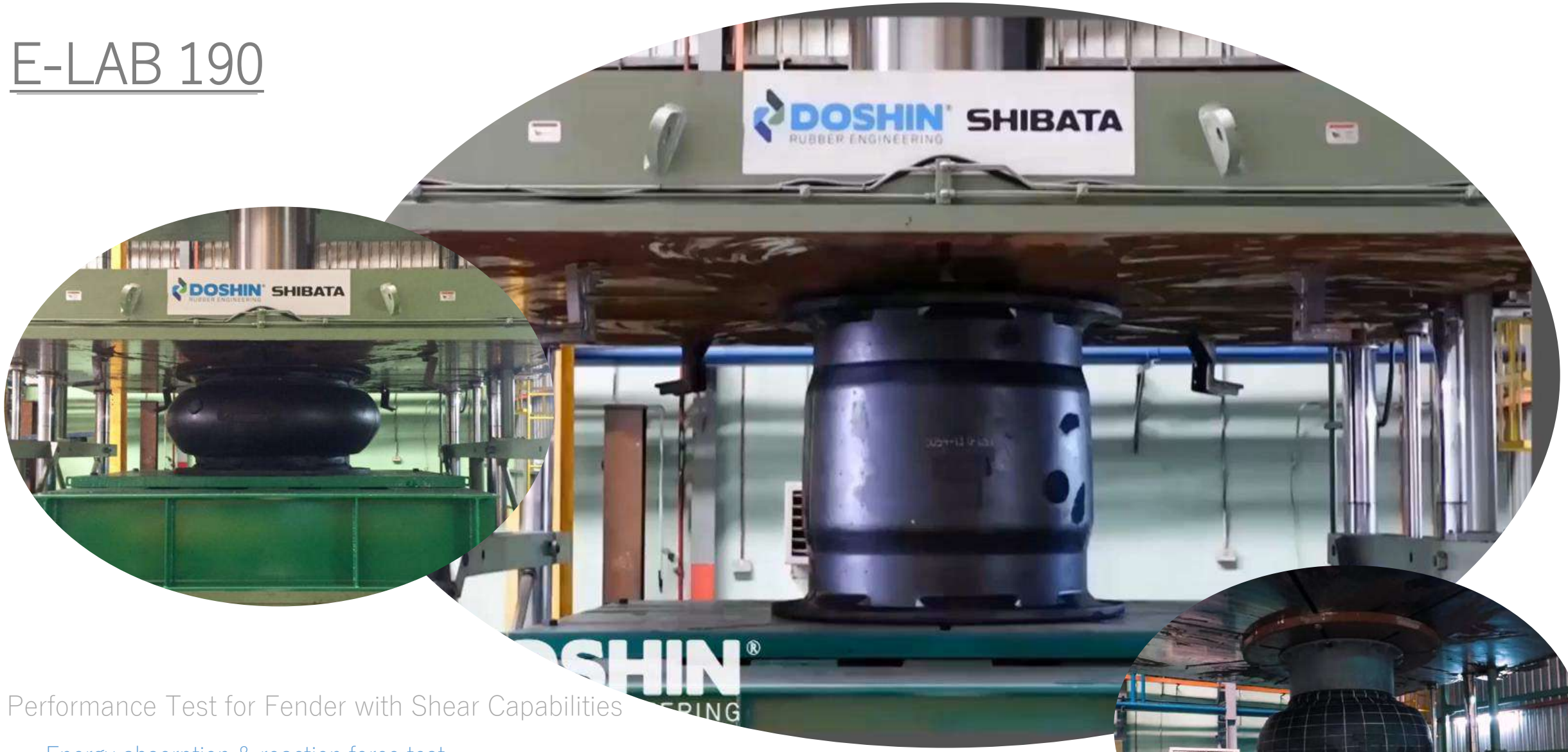
Vertical Load : 1,000KN
Shear Load : 100KN
Displacement : +/- 200 MM
Displacement Speed : 200mm per second

E-LAB 180

HYSTERESIS DAMPING TEST FOR STRUCTURAL BEARINGS AND SEISMIC ISOLATORS

VERTICAL LOAD : 5,000KN
SHEAR LOAD : 2,000KN
DISPLACEMENT : +/- 500 MM

E-LAB 190



Performance Test for Fender with Shear Capabilities

- Energy absorption & reaction force test
- Vertical load : 10,000KN
- Shear load : 1,000KN
- Displacement : 3,000MM
- Machine platen size : 3700mm X 3700mm

RUBBER ENGINEERING & DEVELOPMENT CENTER

A. RUBBER MATERIAL TESTING

- ✓ Tensile Properties Test
- ✓ Hardness Test (ASTM Shore A, JIS Shore A, IRHD)
- ✓ Hot Air Heat Aging Test (up to 300°C)
- ✓ Compression Set Test
- ✓ Ozone Resistance Test (up to 400 pphm)
- ✓ Quadruple Shear Test
- ✓ ISO/DIN Abrasion Resistance Test
- ✓ Low Temperature Brittleness Test (up to -70°C)
- ✓ Density/SG Test
- ✓ Rheology Test
- ✓ Tear Resistance Test (Trouser and Crescent)
- ✓ Fluid/Oil Immersion Test.
- ✓ Rebound Resilience Test

B. PRODUCT / PART PERFORMANCE TESTING

- ✓ Static Compression/Load Deflection test (up to100kN capacity)
- ✓ Dynamic Spring Rate Test
- ✓ Durability/Endurance/Life Test
- ✓ Adhesion/Bond Failure Test (Rubber-Metal Bonded)

Certified to : ISO/IEC 17025

SCOPE OF KOSSAN AND DOSHIN LABORATORY TEST & MEASUREMENT CAPABILITIES

PROJECTS RFERENCE

AUSTRALIA PROJECT

Elastomeric Laminated Bearings, Bearing Strips and Elastomeric Bearings

- Western Australia's largest road project – WA Gateway
- OH2K
- F&B
- Fredrickton to Eungai project (F2E)
- KWR Bypass
- PJ677 Toowoomba OCR
- PJ676 Cooroy to Curragh
- F2E Project BR013 & BR017
- Dingo to Bluff
- Patrick Access Ramp D
- T2E project
- Singleton Rail Bridge
- M2 Widening
- South Expressway Duplication
- BHP Nelson Point
- PJ622 Sapphire to Woolgoolga
- PJ621 Tamworth Bridge Renewal
- PJ620 Iron Creek
- Gerringong Upgrade
- RRL-E Boundary Rd
- Cavill Ridge
- RRL-E Project - Armstrong Rd
- Dohertys Road
- Parkes Way Widening
- MGI Koolan Island Top Deck
- Gerringong Upgrade
- Molonglo
- BLJV Update
- PJ573 Wamban Creek
- Bega Bypass
- Gateway Motorway
- Yeppen Lagoon Bridge
- McLarenvale Overpass
- F11 Hunter Expressway
- South Rd Superway
- Trackstar Station
- Pacific Highway Upgrade

PROJECTS REFERENCE

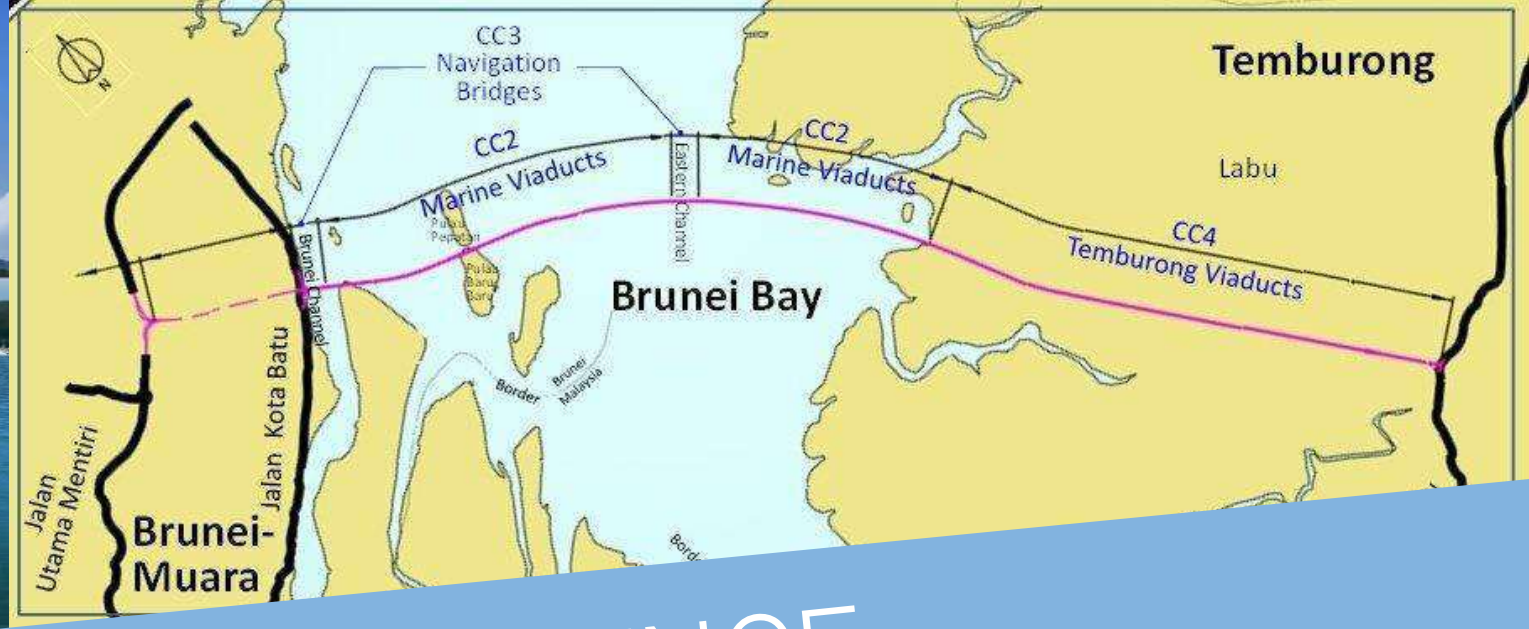
100% tested to AS5100, RMS B281, RMS B280, RTA 280

DOSHIN®
RUBBER ENGINEERING

FRESSINET, AUSTRALIA

Laminated Rubber Bearing

PROJECTS REFERENCE



PROJECTS REFERENCE

TEMBURONG CC3 PACKAGE, BRUNEI, 2017

High Damping Rubber Bearings

HOSPITAL LAS HIGUERAS, CHILE

High Damping Rubber Bearings
&
Lead Rubber Bearing

PROJECTS REFERENCE

HIGH SPEED TRAIN RUBBER ISOLATORS, CHINA

- Very High Level of Noise and Vibration Isolation
- Simple Installation
- Cost Effective

PROJECTS REFERENCE

WIKA TOWER, JAKARTA INDONESIA

High Damping Rubber Bearings
at 20-24% Damping Ratio

PROJECTS REFERENCE

ALSTOM

Electrical resistivity ground-level power supply for trams (APS3) and electric buses (SRS) for ALSTOM

- Test to meet compression load, cyclic fatigue, road running, electrical insulation, coupling, themal aging, UV, hydrocarbon, comparative tracking inbex (CTI) and fire retardant test

PROJECTS REFERENCE

MIDDLE EAST

172 meter of Elastomeric Expansion Joint
(DR 165, DR 230 and DR 330)

PROJECTS REFERENCE

ORUMEIH BRIDGE, MIDDLE EAST

High Damping Rubber Bearing

PROJECTS REFERENCE

TAXIWAY, MIDDLE EAST

Lead Rubber Bearing (LRB)

PROJECTS REFERENCE

ABOZAR BRIDGE – MIDDLE EAST

49 NOS High Damping Rubber Bearing

PROJECTS REFERENCE

UNDP,
MIDDLE EAST

3DOF 80 Modular Joint and 364 nos
of Laminated Bearing

PROJECTS REFERENCE

CABLE STAYED BRIDGE – MIDDLE EAST

109 meter of Elastomeric Expansion Joint (DR 250)

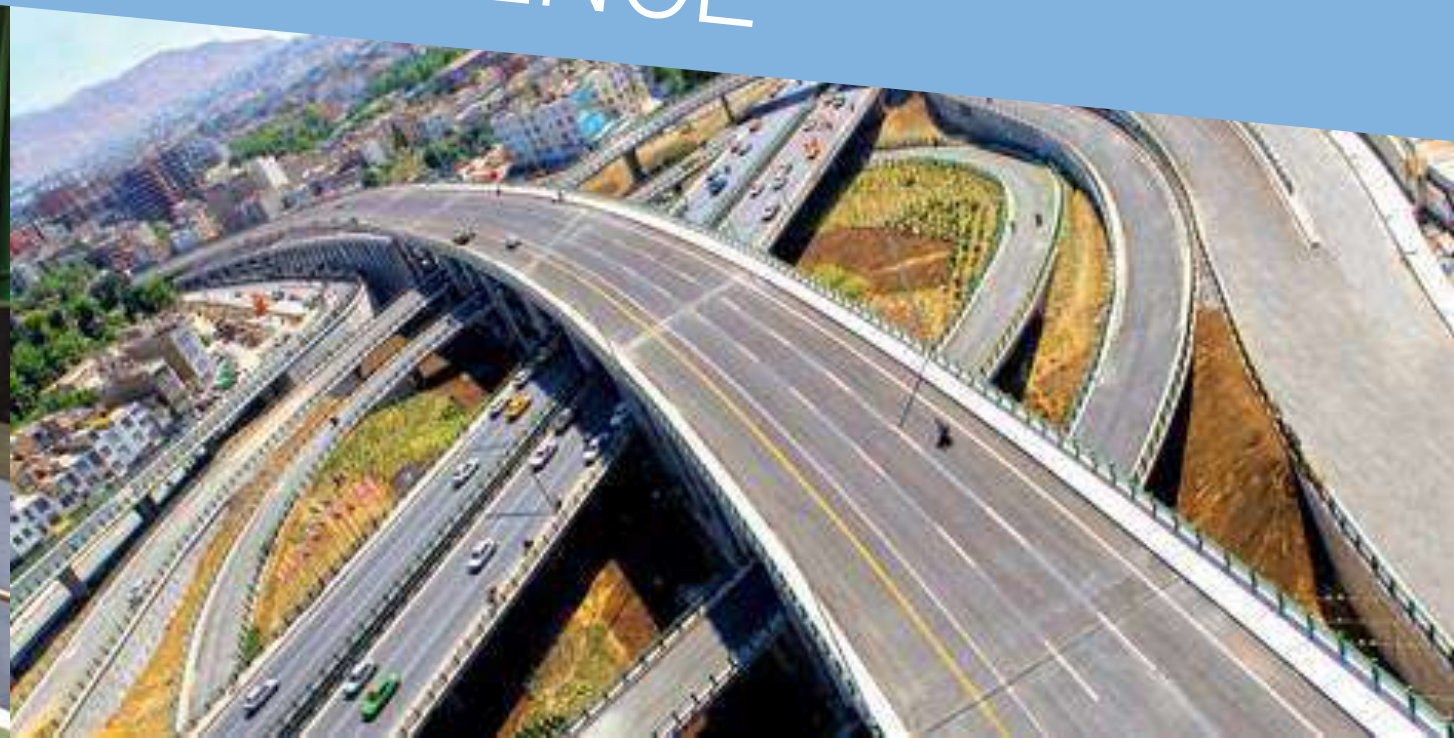
PROJECTS REFERENCE

QAZVIN BRIDGE, MIDDLE EAST

Laminated Rubber Bearing

100% customer Witness Testing

PROJECTS REFERENCE



PROJECTS REFERENCE

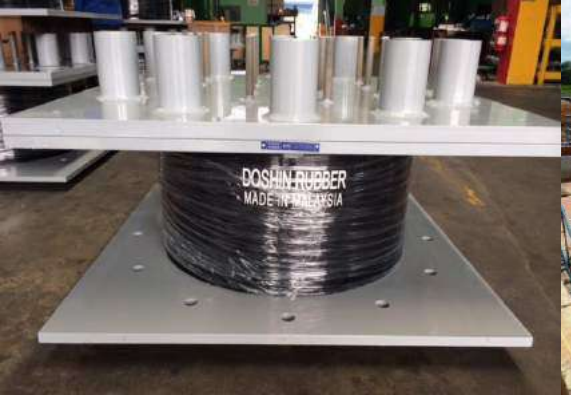
DARESAZ, MIDDLE EAST

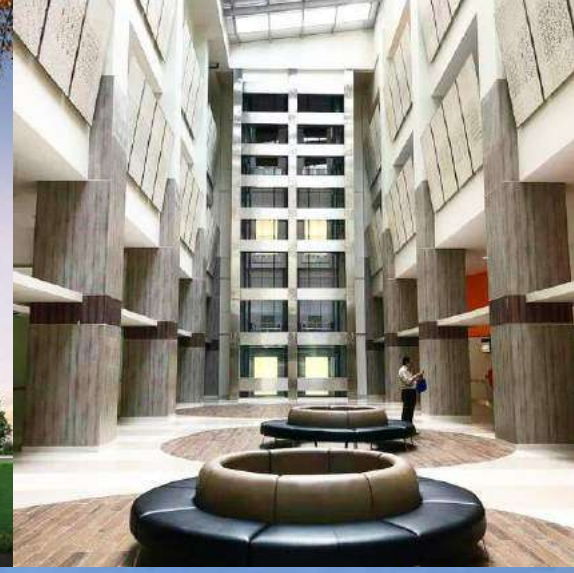
24 NOS Dia 600 and Dia 500
High Damping Rubber Bearing (Damping Ratio 16%)

PARAND DOWNTOWN PROJECT, MIDDLE EAST

High Damping Rubber Bearings

PROJECTS REFERENCE





PROJECTS REFERENCE

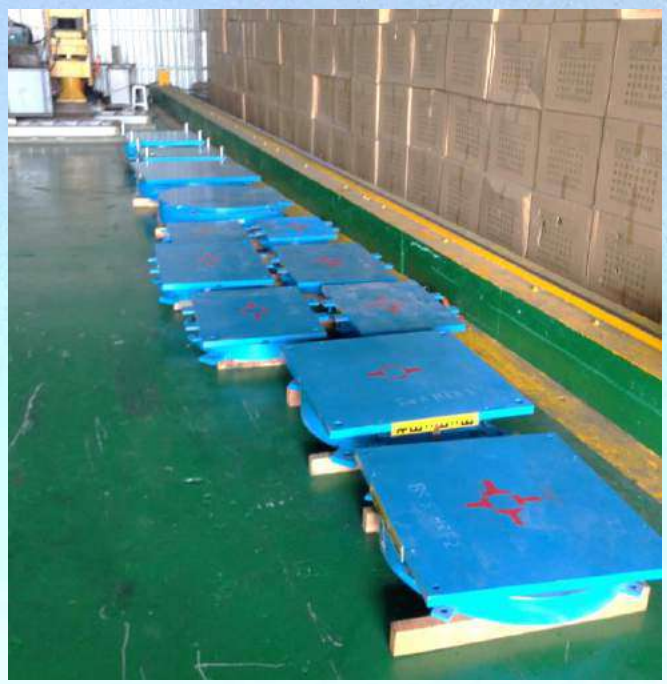
UNIVERSITY HOSPITAL OF INDONESIA, JAKARTA

High Damping Rubber Bearings
at 20-24% Damping Ratio

PROJECTS REFERENCE

RA 166, JAHRA ROAD, KUWAIT

Mechanical Pot Bearings



LRT AESTHETIC GUIDEWAY ENVELOPE, KLJ LINE, MALAYSIA

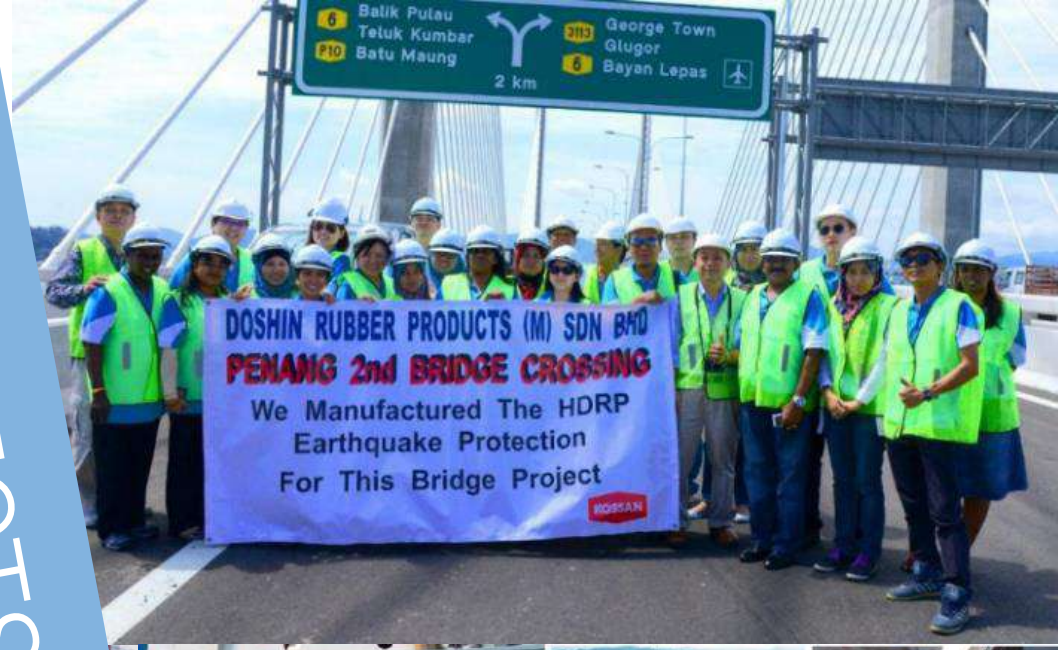
Mechanical Pot Bearings

PROJECTS REFERENCE

PENANG SECOND BRIDGE, MALAYSIA

The longest bridge in South East to install
Base Isolation High Damping Rubber Bearings
(2500 NOS HDRB)

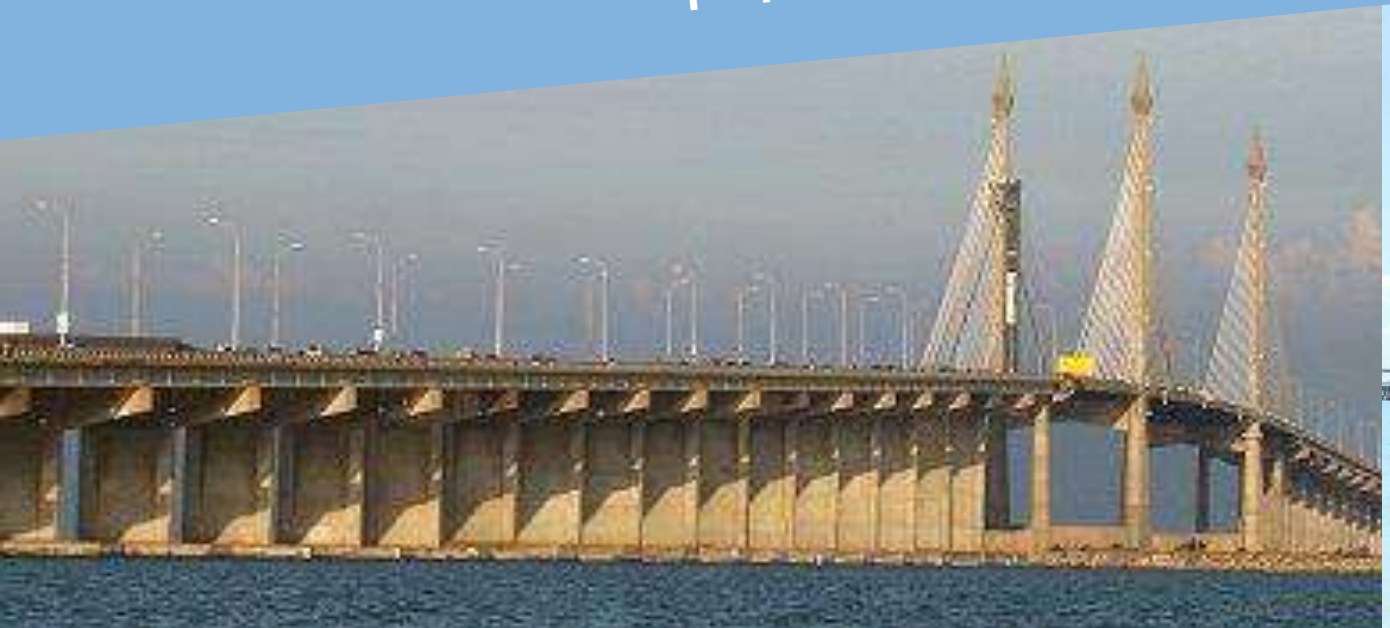
PROJECTS REFERENCE



FIRST PENANG BRIDGE, MALAYSIA

Elastomer Bearings and Expansion Joints *(DR 50 & DR 100)*

PROJECTS REFERENCE



LRT KELANA JAYA EXTENSION, MALAYSIA

Mechanical Pot Bearings

PROJECTS REFERENCE

SUNGAI GOMBAK – JALAN KUCHING, KL, MALAYSIA

(DBKL PROJECT)

Mechanical Pot Bearings

PROJECTS REFERENCE

LRT DEPOT,
AMPANG LINE EXTENSION.
MALAYSIA

PROJECTS REFERENCE

LRT Ampang Line Extension, package B, Malaysia

DRAWBRIDGE, KUALA TERENGGANU, MALAYSIA

Mechanical Pot Bearings and Expansion Joints *(Finger Joints)*

PROJECTS REFERENCE

U-TURN, CYBERJAYA, SETIA ECO GLADES, MALAYSIA

Mechanical Pot Bearings

PROJECTS REFERENCE

BAYAN LEPAS EXPRESSWAY, PENANG, MALAYSIA

Modular Joints & Elastomeric Expansion Joints

PROJECTS REFERENCE

Modular Joints

Expansion Joint – DR165

PROJECTS REFERENCE

Mechanical Pot Bearings

RAWANG BYPASS - ELEVATED STRUCTURE, MALAYSIA

DUKE PHASE 2 – TUN RAZAK LINK, MALAYSIA

PROJECTS REFERENCE

JAMBATAN BATANG SADONG, SAMARAHAN BRIDGE, SARAWAK, MALAYSIA

Mechanical Pot Bearings

PROJECTS REFERENCE

KVMRT LINE 2, MALAYSIA

SUNGAI BULOH – SEDANG – PUTRAJAYA LINK 2017 – 2020

PACKAGE V201 – 614 NOS of High Damping Rubber Bearing (Damping Ratio 17 - 23%)

PROJECTS REFERENCE

KVMRT, SBK LINE 1, Malaysia

Elastomeric & Mechanical Pot Bearings

PROJECTS REFERENCE

PNG - BRIDGE (BRRIP) PAPAU NEW GUINEA

Steel Expansion Joint (Finger Type)

PROJECTS REFERENCE

LAOAG BY-PASS BRIDGE, PHILIPPINES

Ultra High Damping Rubber Bearings (20-24% Damping)

PROJECTS REFERENCE

CENTRAL EXPRESSWAY PROJECT (CEP), SRI LANKA

2000nos of laminated bearings

PROJECTS REFERENCE

VLCC JETTY 2,
PORT OF FUJAIRAH, UAE

Mechanical Pot Bearings
&
Marine Dock Fenders

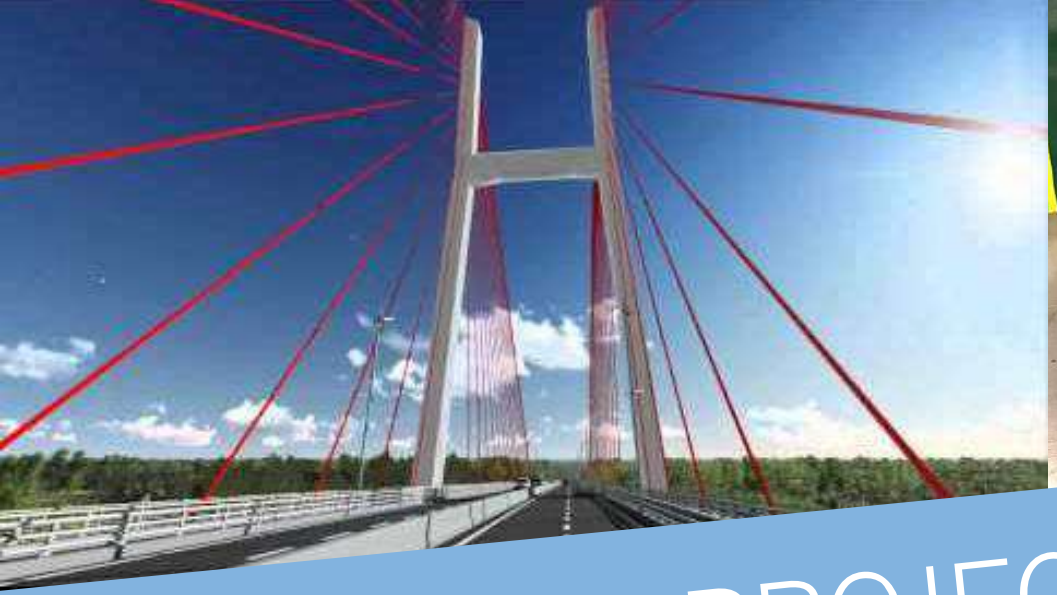
PROJECTS REFERENCE

Fender – Type SPC 2000

METRO HO CHI MINH LINE 1, VIETNAM

1200 NOS of Elastomeric Laminated Bearings

PROJECTS REFERENCE



PROJECTS REFERENCE

DONG THAP BRIDGE, VIETNAM

Ultra High Damping Rubber Bearings (19% Damping Ratio)
Bearing Size: 1550mm x 1550mm x 506mm (4000kg)

Testing Shear displacement at 513mm

PROJECTS REFERENCE

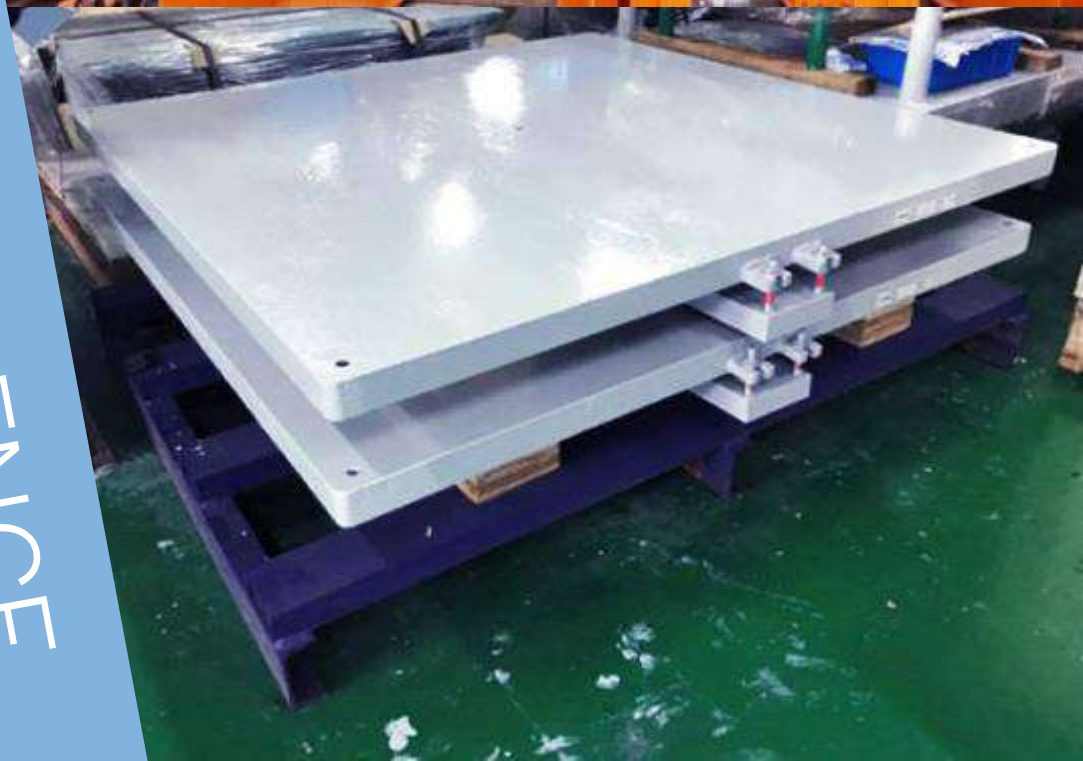
DASH

Elastomer Bearings, Mechanical Pot Bearings,
Expansion Joint

EKO CHERAS, KUALA LUMPUR

Mechanical Pot Bearings

PROJECTS REFERENCE



KVMRT 2, CONLAY STATION
KUALA LUMPUR, MALAYSIA

Elastomer Bearings

PROJECTS REFERENCE

KL ECO CITY, KUALA LUMPUR

Mechanical Pot Bearings

PROJECTS REFERENCE

PROJECTS REFERENCE

MARINA COVE, JOHOR

Elastomer Bearings

OXLEY TOWERS, KUALA LUMPUR

Link Bridge Bearings

PROJECTS REFERENCE

PALEMBANG INDOCEMENT, INDONESIA

Fenders

PROJECTS REFERENCE

PAN BORNEO, PAPAR, SABAH

Mechanical Pot Bearings &
Finger Expansion Joints

PROJECTS REFERENCE

PESCARA POINT BRIDGE, NEW ZEALAND

Mechanical Pot Bearings

PROJECTS REFERENCE

PROJECTS REFERENCE

CIKAMPEK 2 ELEVATED (JAPEK II) – JAKARTA

Friction Pendulum Bearings

SUNWAY VELOCITY, KUALA LUMPUR

Link Bridges –
Mechanical Pot Bearings

PROJECTS REFERENCE

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RUBBER ENGINEERING

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