



ESTABLISHED IN YEAR 1978

A subsidiary of





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





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



QUALITY SYSTEM MANAGEMENT ISO 9001:2015

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 a shock absorber on the bearing operation



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

ELASTOMERIC BEARINGS

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



SPHERICAL BEARINGS



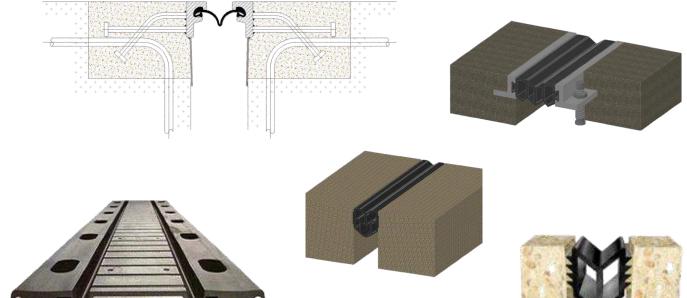
EXPANSION JOINTS AND SEALS

TYPES OF JOINTS:

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



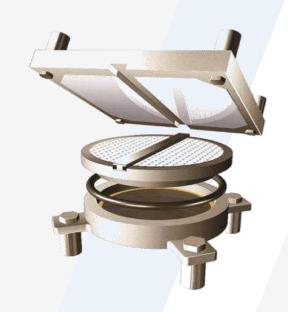






MECHANICAL POT BEARINGS







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

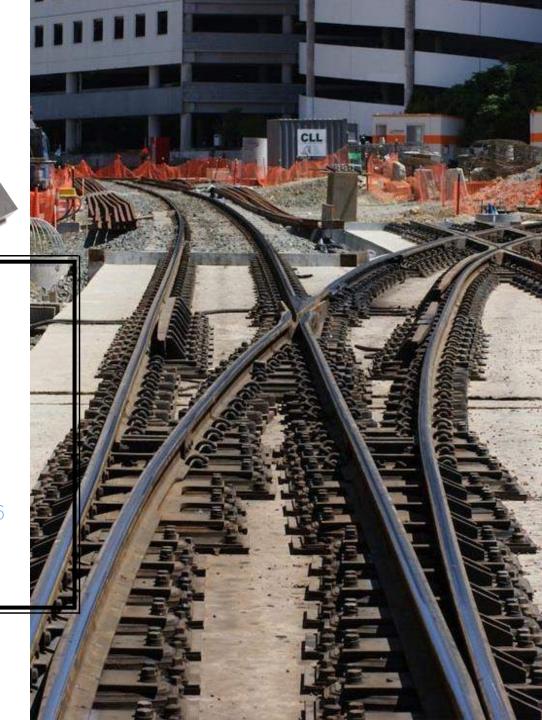
 Floating slab track (FST), rubber wedge, rail fastening



PROJECT REFERENCE:

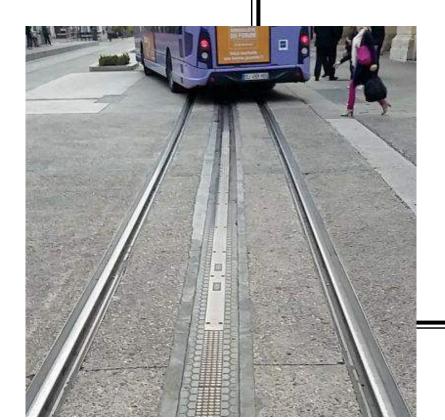
- Downtown Line SINGAPORE
- Heikamo Rail GERMANY
- TTY Airport Line TAIWAN
- HONG KONG KCRC KSL
- UK Cross Road 2016
- TAIWAN Tai Chung Green Line 2016





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

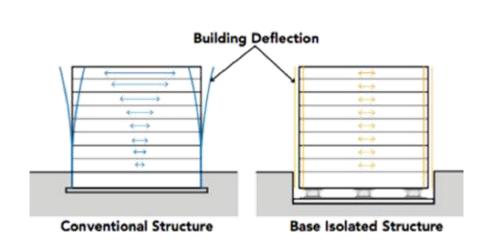


APS is a service-proven power system for tramways which supplies electricity through a third rail at ground level and eliminates the need for catenaries, thus preserving the aesthetics of city center and guaranteeing maximum safety.



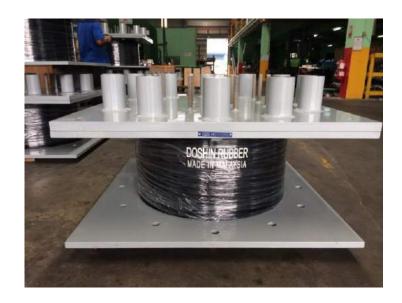
HIGH DAMPING RUBBER BEARINGS

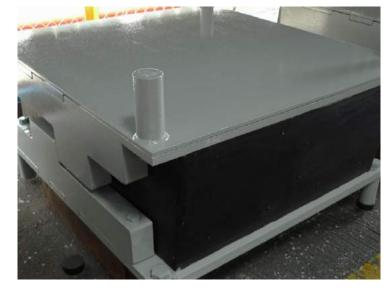
Design & Produce UHDRB with damping ratio up to 24%

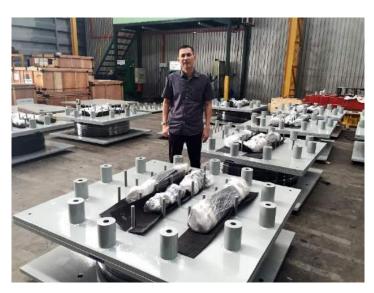




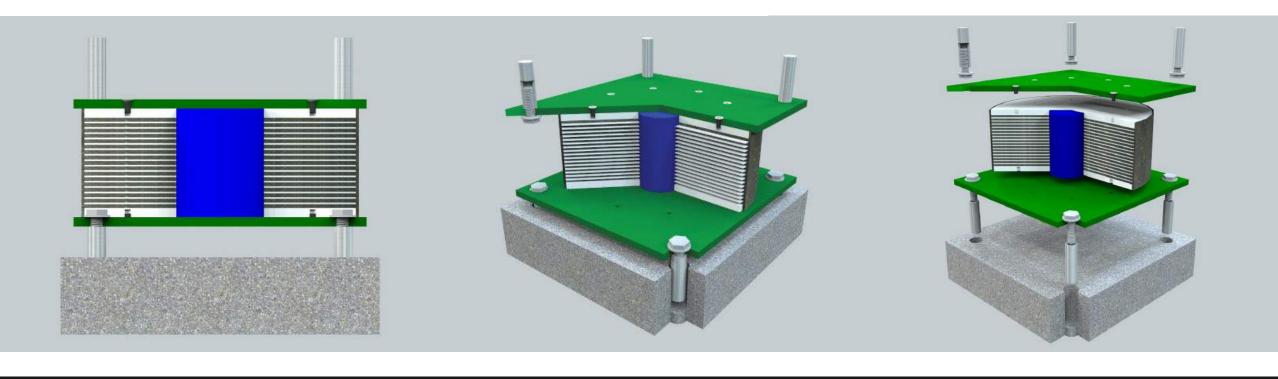








LEAD RUBBER BEARINGS



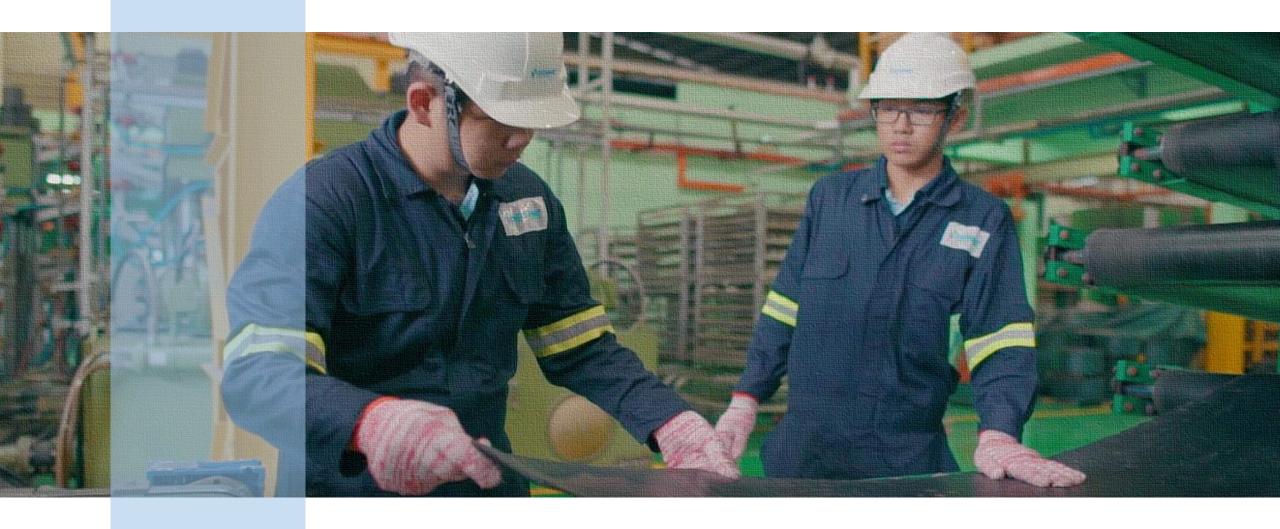








MANUFACTURING FACILITIES





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 3.5M



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



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

E-LAB TESTING & RESEARCH CENTER







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 AS 5100: Part 4 (2004) **COMPRESSION QUALITY** [Appendix D2] **ASSURANCE TEST** BS 5400 - 1983 DOSHIN , DOS 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) AS 5100: Part 4 (2004) **COMPRESSION** [Appendix D3] **STIFFNESS** 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)

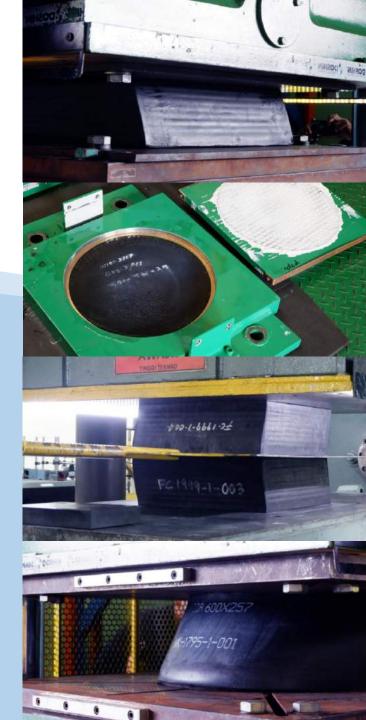
Type of Test	Test Method
COMPRESSION QUALITY ASSURANCE TEST	BSEN 15129 : 2009 Clause 8.2.1.2.6 Compression under Zero Lateral Displacement
	BSEN 15129 : 2009 Clause 8.2.1.2.7
COMPRESSION STIFFNESS	BSEN 15129 : 2009 Clause 8.2.1.2.8
HORIZONTAL CAPACITY	BSEN 15129 : 2009 Clause 8.2.1.2.5
The anti-constant	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)



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

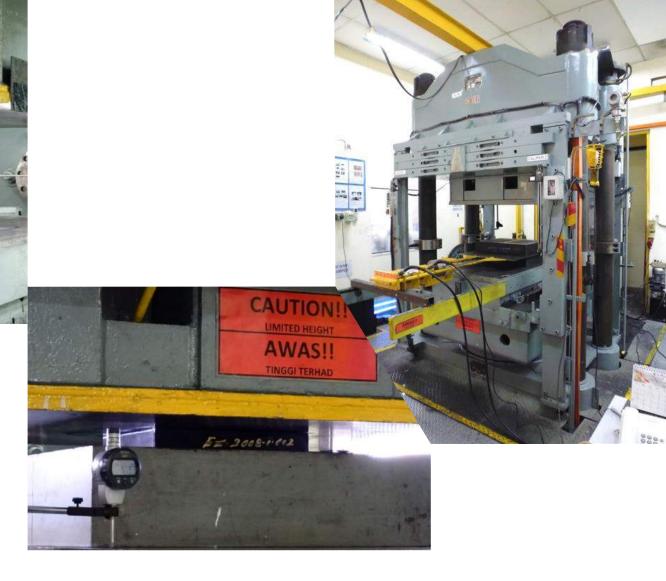




E-LAB 121 Vertical Load: 200KN E-LAB 122 Vertical Load: 1,000KN

Static Compression Loading Rate: 2.5~ 120KN/MIN





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

Hysteresis Damping Testing for Structural Bearings and Seismic Isolators

Hysteresis Damping Testing for Structural Bearings and Seismic Isolators



Vertical Load: 20,000KN

Shear Load: 2,000KN

Displacement: +/- 500mm



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

Compression Force : 5,000 Tons

Shear Displacement : ±1,000 mm

Displacement: +/- 1,000 MM

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

Capable to Test Bearing size up to 2,000 mm



Hysteresis Damping Test for Rubber Compound Development

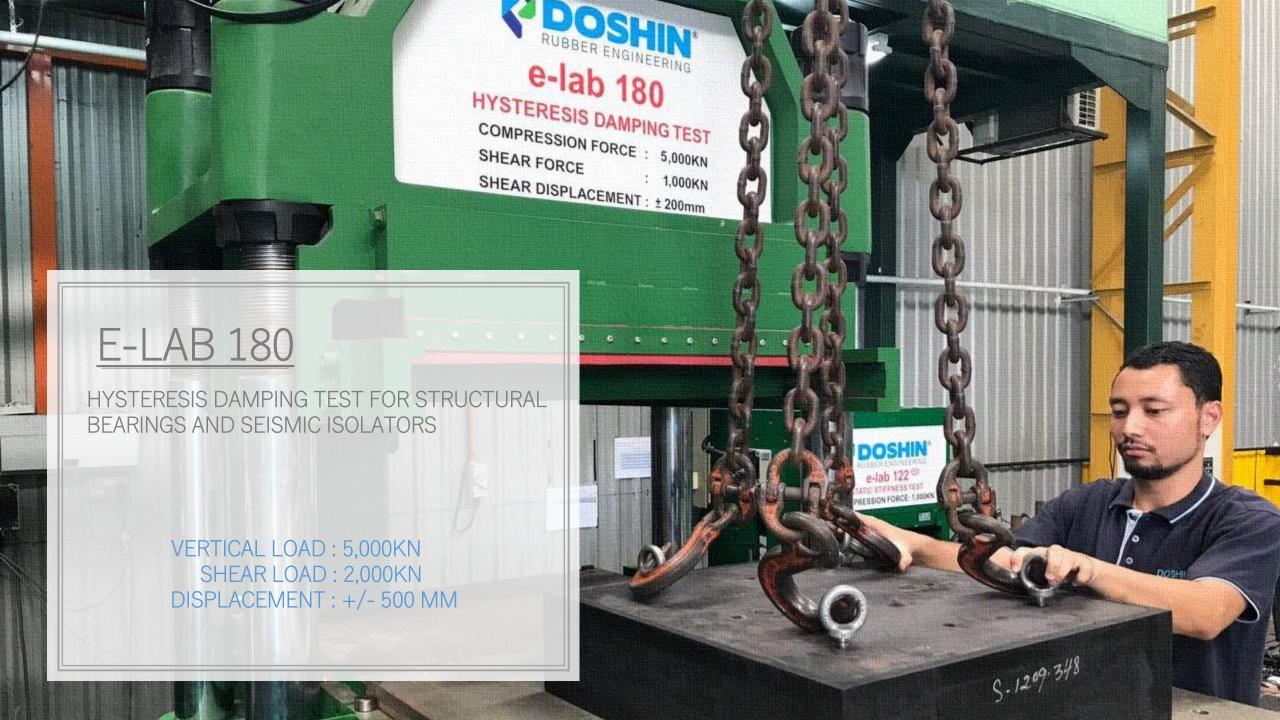


Vertical Load: 1,000KN Shear Load: 100KN

Displacement: +/- 200 MM

Displacement Speed: 200mm per second







Vertical load: 20000kN Shear load: 1000kN Displacement: +/-500mm Platen size: 1500x1500mm



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

Certified to : ISO/IEC 17025

CAPABILITIES

SCOPE OF KOSSAN AND

TEST & MEASUREMENT

DOSHIN LABORATORY

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)



PROJECTS RFERENCE

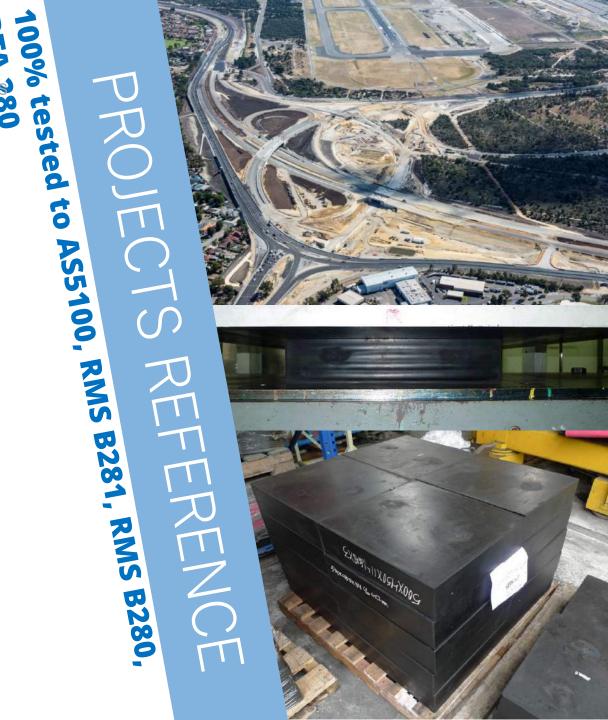


AUSTRALIA PROJECT

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



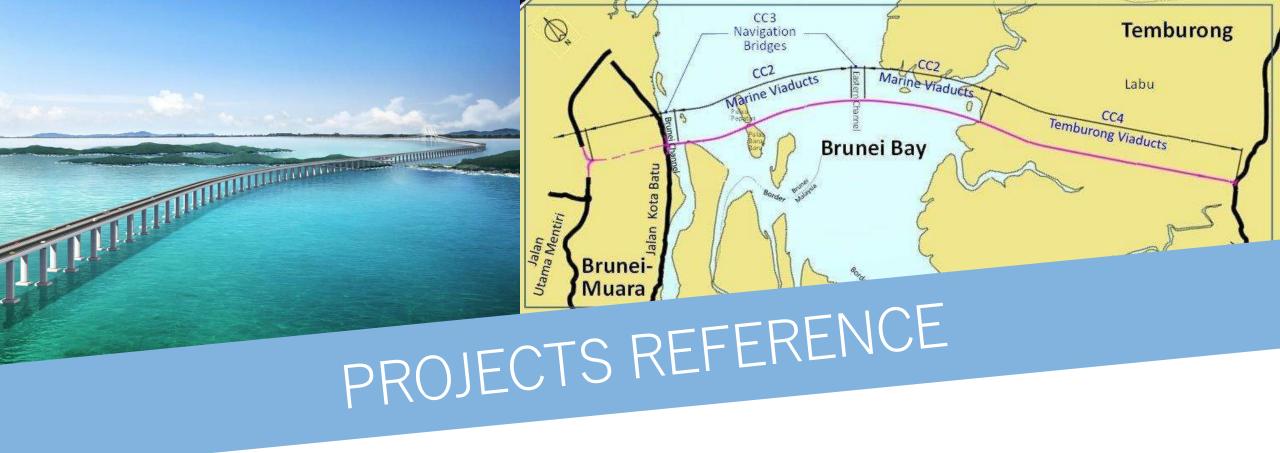
FRESSINET, AUSTRALIA

Laminated Rubber Bearing



PROJECTS REFERENCE





TEMBURONG CC3 PACKAGE, BRUNEI, 2017

High Damping Rubber Bearings

HOSPITAL LAS HIGUERAS, CHILE

High Damping Rubber Bearings & Lead Rubber Bearing





HIGH SPEED TRAIN RUBBER ISOLATORS, CHINA

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





High Damping Rubber Bearings at 20-24% Damping Ratio



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





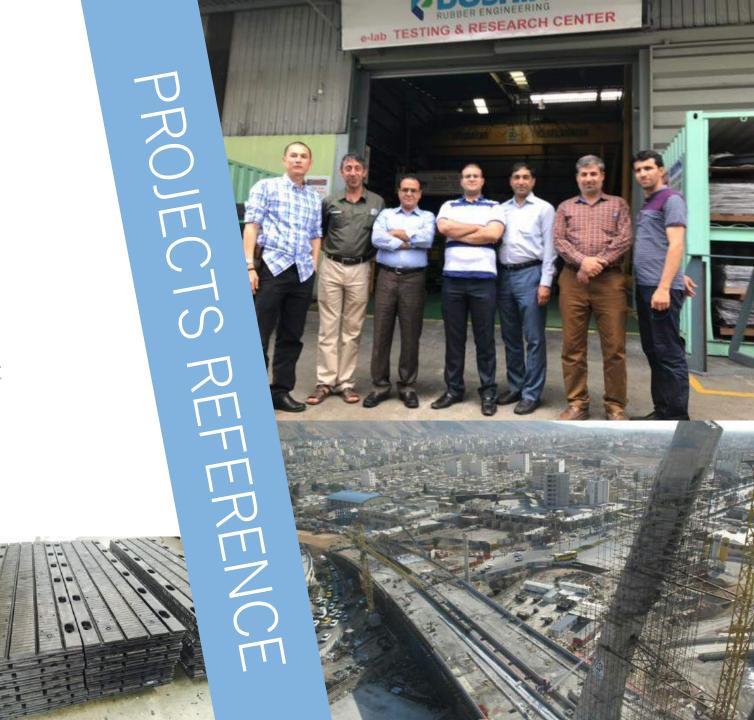






MIDDLE EAST

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



ORUMEIH BRIDGE, MIDDLE EAST



e-lab 140

HYSTERESIS DAMPING TEST

COMPRESSION FORCE: 14,000KN

SHEAR FORCE

: 2,000KN

TAXIWAY, MIDDLE EAST

Lead Rubber Bearing (LRB)





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



CABLE STAYED BRIDGE – MIDDLE EAST

109 meter of Elastomeric Expansion Joint (DR 250)



QAZVIN BRIDGE, MIDDLE EAST

Laminated Rubber Bearing

100% customer Witness Testing



PROJECTS REFERENCE



DARESAZ, MIDDLE EAST

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







at 20-24% Damping Ratio

RA 166, JAHRA ROAD, KUWAIT

Mechanical Pot Bearings



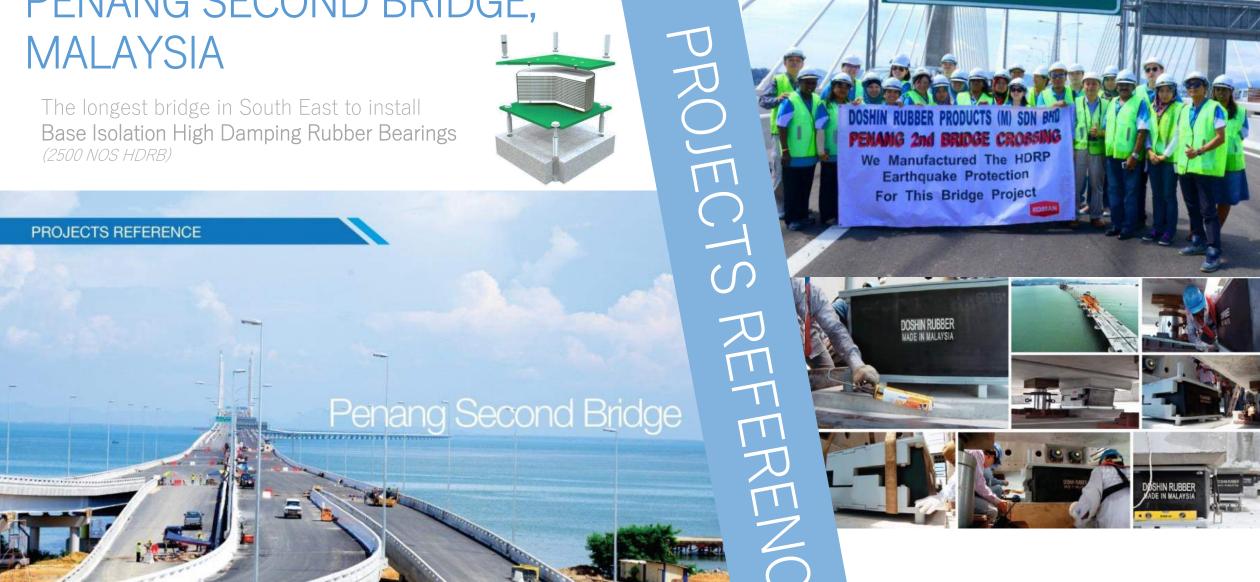
LRT AESTHETIC GUIDEWAY ENVELOPE, KLJ LINE, MALAYSIA

Mechanical Pot Bearings



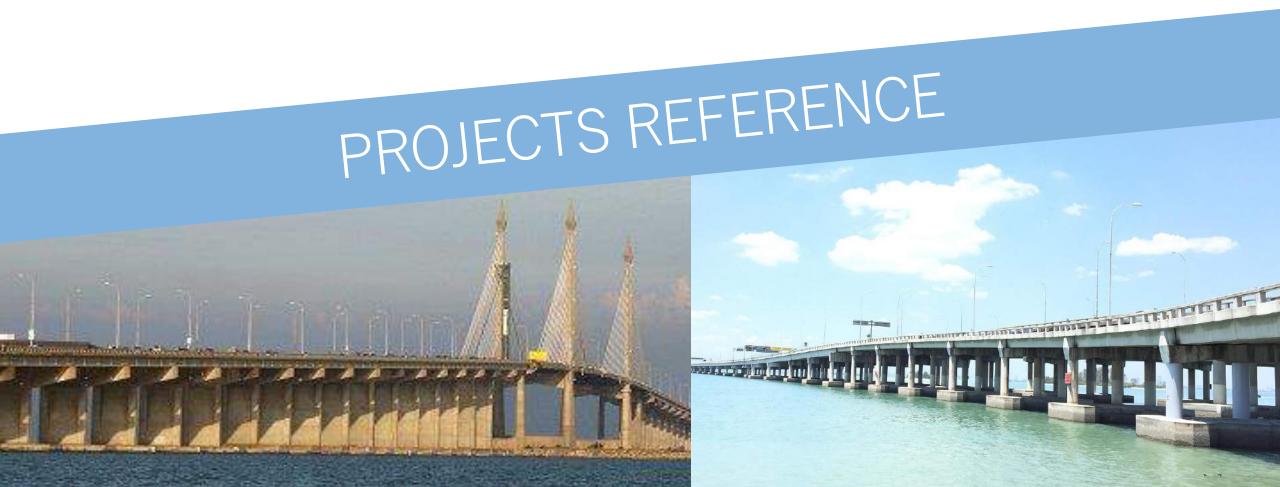


PENANG SECOND BRIDGE,



FIRST PENANG BRIDGE, MALAYSIA

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



LRT KELANA JAYA EXTENSION, MALAYSIA

Mechanical Pot Bearings



SUNGAI GOMBAK –
JALAN KUCHING,
KL, MALAYSIA
(DBKL PROJECT)

Mechanical Pot Bearings

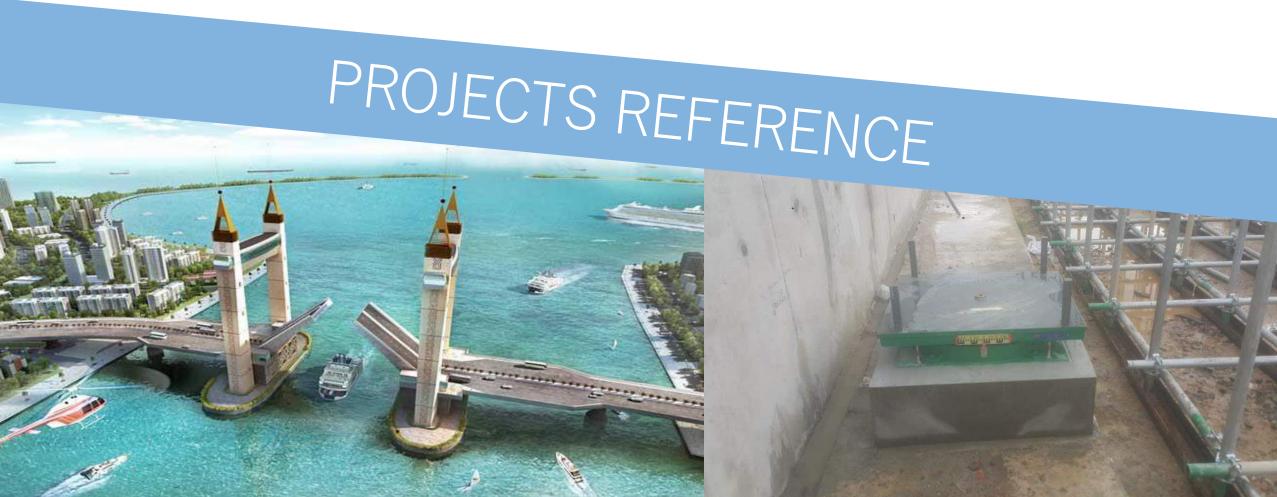


LRT DEPOT, AMPANG LINE EXTENSION. MALAYSIA



DRAWBRIDGE, KUALA TERENGGANU, MALAYSIA

Mechanical Pot Bearings and Expansion Joints (Finger Joints)





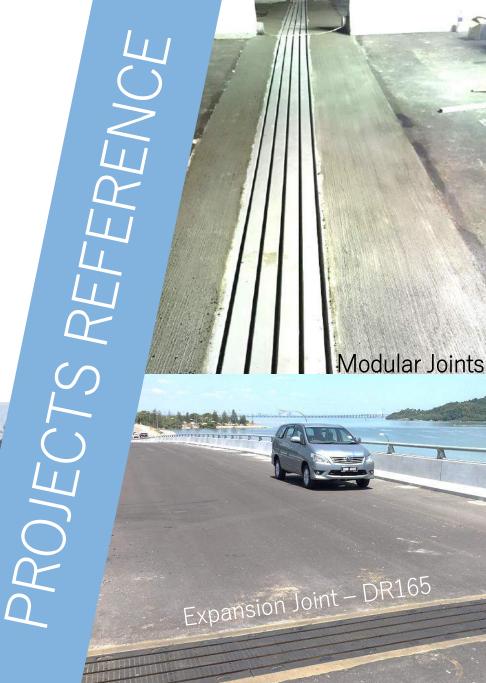


BAYAN LEPAS EXPRESSWAY, PENANG, MALAYSIA

Modular Joints & Elastomeric Expansion Joints







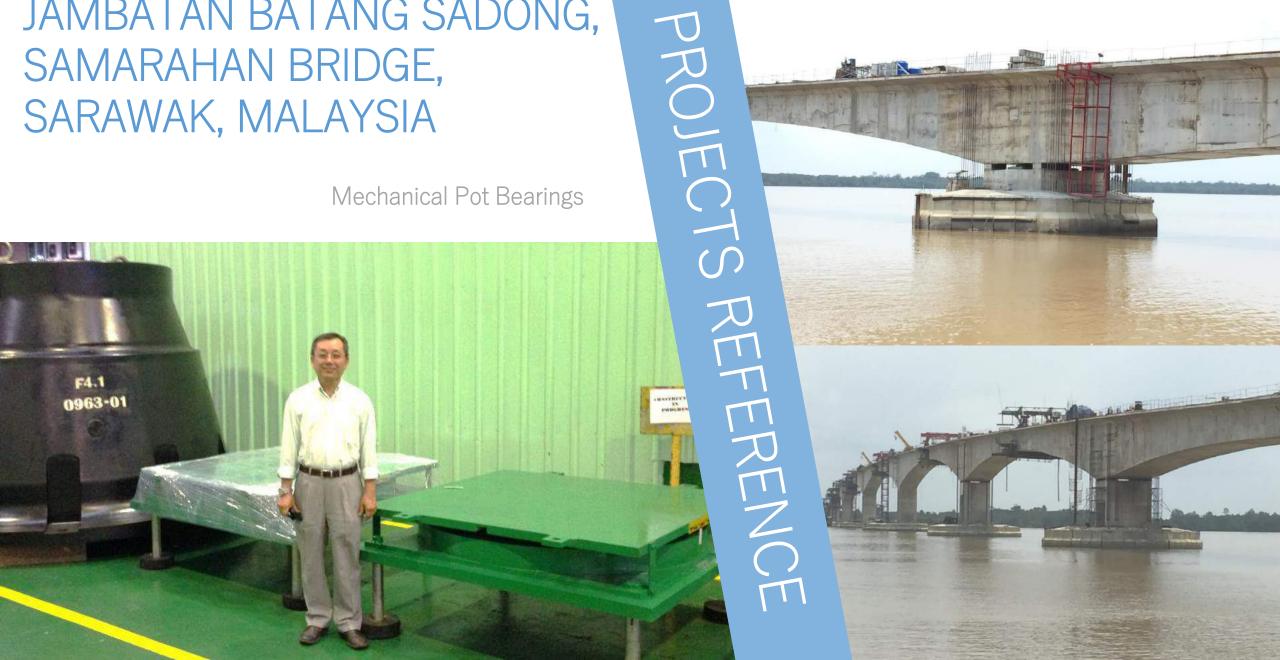


DUKE PHASE 2 – TUN RAZAK LINK, MALAYSIA





JAMBATAN BATANG SADONG, SAMARAHAN BRIDGE, SARAWAK, MALAYSIA



KVMRT LINE 2, MALAYSIA

SUNGAI BULOH – SEDANG – PUTRAJAYA LINK 2017 – 2020



KVMRT, SBK LINE 1, Malaysia



PROJ

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)



CENTRAL EXPRESSWAY PROJECT (CEP), SRI LANKA

2000nos of laminated bearings



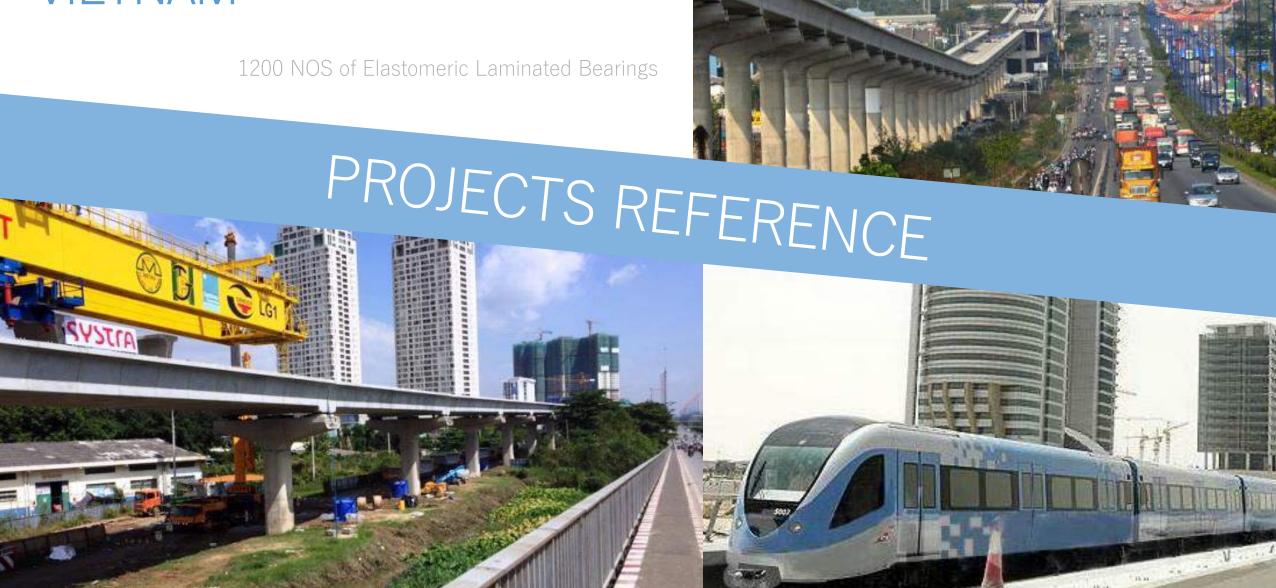


VLCC JETTY 2, PORT OF FUJAIRAH, UAE

Mechanical Pot Bearings & Marine Dock Fenders



METRO HO CHI MINH LINE 1, VIETNAM





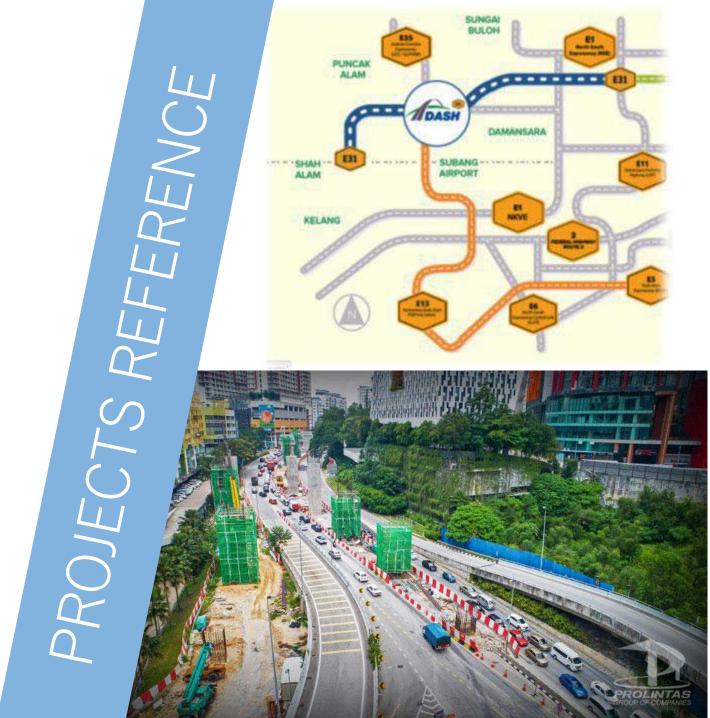
DONG THAP BRIDGE, VIETNAM

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

Testing Shear displacement at 513mm

DASH

Elastomer Bearings, Mechanical Pot Bearings, Expansion Joint



EKO CHERAS,



KVMRT 2, CONLAY STATION KUALA LUMPUR, MALAYSIA

Elastomer Bearings



KL ECO CITY, KUALA LUMPUR

Mechanical Pot Bearings





OXLEY TOWERS, KUALA LUMPUR



PALEMBANG INDOCEMENT, INDONESIA

Fenders

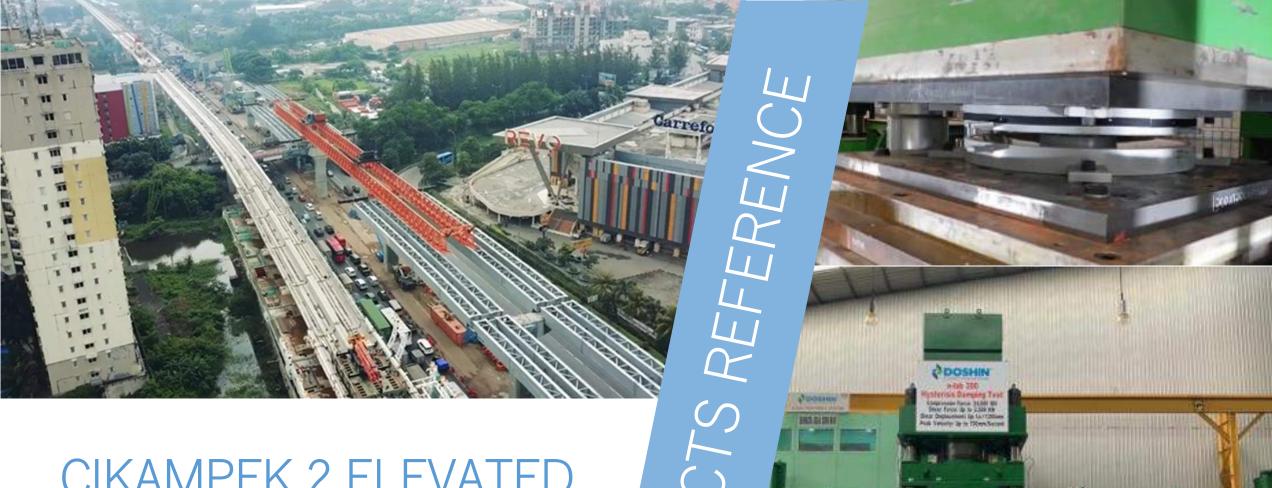




PESCARA
POINT
BRIDGE,
NEW ZEALAND

Mechanical Pot Bearings





CIKAMPEK 2 ELEVATED (JAPEK II) – JAKARTA

Friction Pendulum Bearings



品號

Link Bridges – Mechanical Pot Bearings





DOSHIN RUBBER PRODUCTS (M) SDN. BHD. (114386-H)

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