ELASTOMER EXPANSION JOINTS

WEAR & ABRASION RESISTANCE · IMPROVED RUBBER FORMULATION · DOSHIN RUBBER

www.doshinrubber.com
Doshin Rubber Engineering, established in 1978, is the pioneer in manufacturing laminated bridge bearing pad in Malaysia. With over 30 years of experience in providing rubber solution for the civil engineering & construction industries, Doshin Rubber is today a subsidiary of Kossan Group of companies, a public listed company at the Bursa Malaysia.

Doshin stands as a leader in the design and production of engineered rubber products thanks to scientific research, engineering design, material and product constant development and full control of production technology, Doshin combines state-of-the-art technology, experienced professional and innovative products as solution to clients’ most difficult challenges.

**RANGE OF PRODUCTS THAT INCLUDED:**

- Marine Dock Fenders And Systems
- High Damping Rubber Bearings (HRDB)
- Lead Rubber Bearings (LRB)
- Elastomeric Laminated Bearing Pads
- Rubber Expansion Joints, Finger Joints and Modular Joints
- Floating Slab Track Bearing Pads for the Rail Industry
- Mechanical Steel Pot Bearings
Doshin Elastomer Expansion Joints are comprised of steel angles and steel bridging plate system encased in flexible elastomer.

Doshin Elastomer Expansion Joint is supplied in module lengths designed to be bolted to the structural deck on either side of the expansion joint in the structure.

Features

- Heavy duty and long durability with improve wear resistance formulation
- Movement accommodation up to 330mm
- Encased in corrosive resistant elastomer
- Anti-skidding
Elastomer Expansion Joints Models

For Model: T20, T30

For Model: DR 50, DR 65, DR 75

For Model: DR 100, DR 165, DR 230, DR 330

<table>
<thead>
<tr>
<th>Model</th>
<th>Movement</th>
<th>T</th>
<th>W</th>
<th>V</th>
<th>P1</th>
<th>P2</th>
<th>L</th>
<th>Stud (M)</th>
<th>Stud Length (mm)</th>
<th>No. of Stud (pcs)</th>
<th>Weight (kg)</th>
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<tbody>
<tr>
<td>T 20</td>
<td>20</td>
<td>33</td>
<td>256</td>
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### Elastomer Properties

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<tr>
<th>PROPERTIES</th>
<th>REQUIREMENT</th>
<th>TEST METHOD</th>
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<tr>
<td>Hardness (Shore A)</td>
<td>60 ± 5</td>
<td>ASTM D 2240</td>
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<tr>
<td>Tensile, MPa</td>
<td>13 MPa, min</td>
<td>ASTM D 412</td>
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<tr>
<td>Elongation at break, %</td>
<td>300%, min</td>
<td>ASTM D 412</td>
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<tr>
<td>Compression set, %</td>
<td>30%, max</td>
<td>ASTM D 395</td>
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<td>Abrasion resistance, Relative volume loss (mm)³</td>
<td>160, max</td>
<td>ISO 4649</td>
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<td>Adhesive resistance, N/mm</td>
<td>7N/mm, min</td>
<td>ASTM D 429</td>
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<tr>
<td>Ozone resistance (25pphm/72hrs/40°C/20% strain)</td>
<td>No crack</td>
<td>ASTM D 1149</td>
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### Steel Properties

| Steel | ASTM A36, BSEN S275JR, JIS SS400, or equivalent |

### Graph of Doshin Rubber Expansion Joint Capacity in Skew Angle

[Graph Image]
Projects Reference

Hokkaido Airport

Utracon

Penang Second Bridge Project

upturn

LRT, Malaysia
Others
Products
Range

- Marine Fender
- Modular Joints
- High Damping Rubber Bearing
- Expansion Joint
- Mining Rubber Product
- Base Isolation HDRB
- Structural Pot Bearing
- Floating Slab track bearing
- Laminated Bearing
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