



# ELASTOMER EXPANSION

J O I N T S



## DOSHIN RUBBER

[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

# Elastomer Expansion Joints

**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 fomulation
- Movement accommodation up to 330mm
- Encased in corrosive resistant elastomer
- Anti-skidding



DR 50  
DR 65  
DR 80

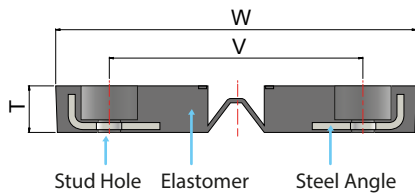
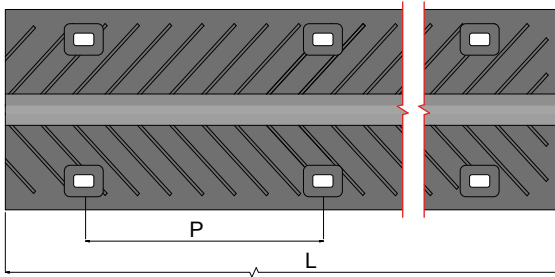


DR 100  
DR 120  
DR 165  
DR 230  
DR 330

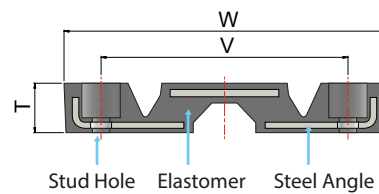
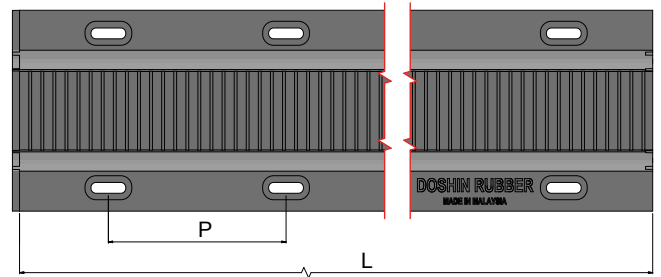


# Elastomer Expansion Joints Models

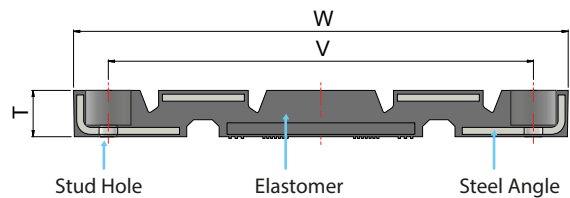
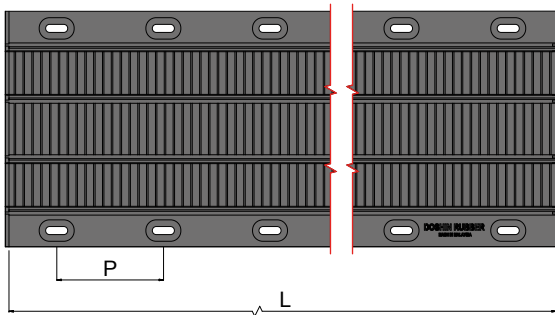
For Model : T20 , T30



For Model : DR 50\*, DR 65, DR 80



For Model : DR 100, DR 120, DR 165, DR 230, DR 330



## Specification

Model	Movement	Max. Joint Width	L	W	T	V	P	Stud/Bolt Diameter	Weight (kg)
T 20	±10	25	1220	256	33	180	332	12	17
T 30	±15	35	1215	300	40	195	330	12	20
DR 50*	±25	60	2000	260	40	200	250	12	37
DR 65	±33	95	2000	356	50	280	334	16	70
DR 80	±40	110	2000	432	52	342	250	16	95
DR 100	±50	150	2000	590	54	500	333	20	170
DR 120	±60	160	2000	640	60	550	290	20	215
DR 165	±83	180	2000	716	78	610	335	24	280
DR 230	±115	273	1220	890	96	790	305	24	250
DR 330	±165	370	1220	1210	127	1080	305	30	450

# All dimensions are in milimeter, unless specified.

\* Diagonal groove pattern.

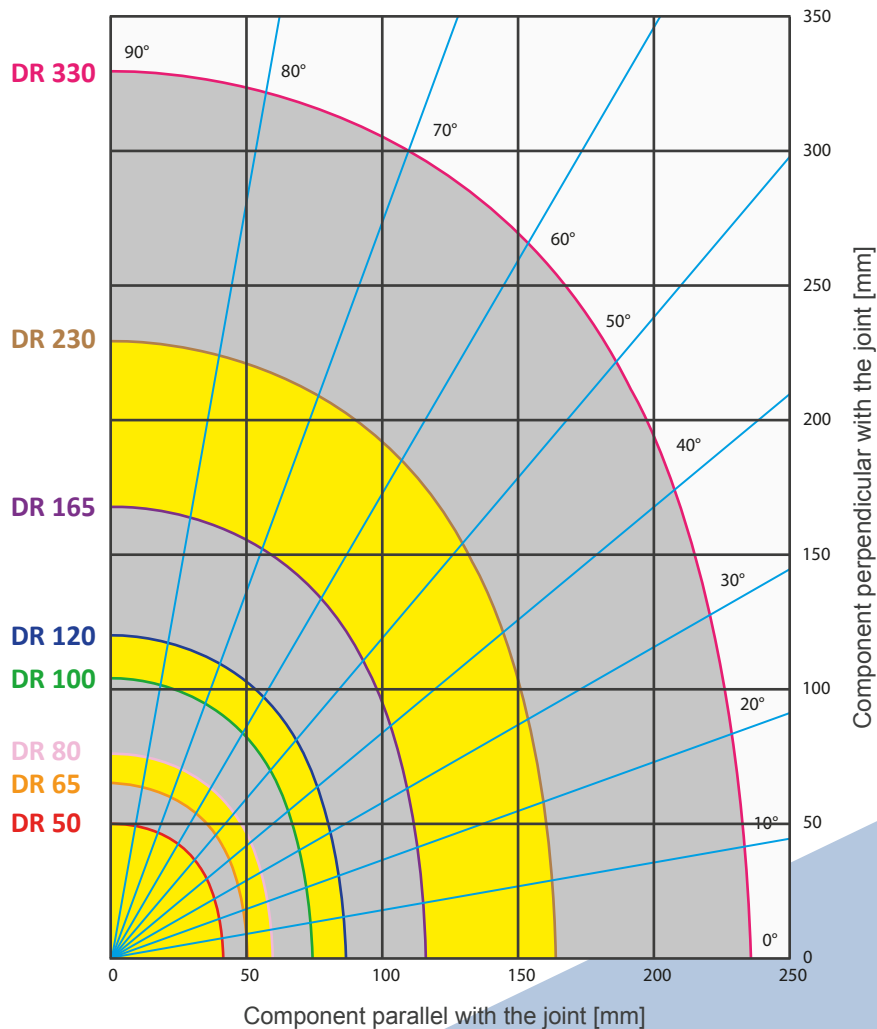
# Elastomer Properties

PROPERTIES	REQUIREMENT	TEST METHOD
Hardness (Shore A)	60 ± 5	ASTM D 2240
Tensile strength (MPa)	13.0, min	ASTM D 412
Elongation at break (%)	300, min	ASTM D 412
Compression set (%)	30, max	ASTM D 395 Method B
Abrasion resistance, Relative volume loss (mm <sup>3</sup> )	160, max	ISO 4649
Adhesive resistance (N/mm)	7, min	ASTM D 429
Ozone resistance (25pphm/72hrs/40°C/20% strain)	No crack	ASTM 1149

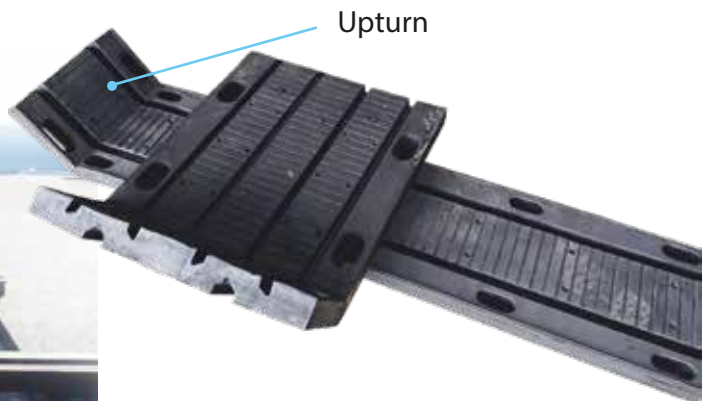
## Steel Properties

Steel Grade	ASTM A36, EN S275JR, JIS SS400, or equivalent
-------------	---

## Graph of Joint Movement Capacity in Angle of Crossing



# Projects Reference



# ➤ Others Products Range



Marine Fender



Modular Joints



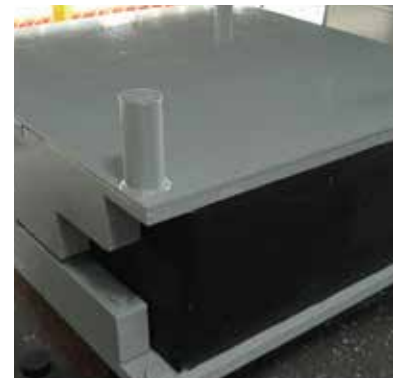
High Damping Rubber Bearing



Expansion Joint



Mining Rubber Product



Base Isolation HDRB



Structural Pot Bearing



Floating Slab track bearing



Laminated Bearing



Made in **Malaysia**  
QUALITY YOU CAN TRUST

## DOSHIN RUBBER PRODUCTS (M) SDN BHD

Lot PT 34252, Jalan Sekolah, Rantau Panjang,  
42100 Klang, Selangor Darul Ehsan, Malaysia.

**T** +603-3290 5619 ; 3290 5621 ; 3290 5631

**F** +603-3290 5642

**Email:** doshin@kossan.com.my

*A subsidiary of*



STRETCHING LIMITS • SINCE 1979