



N-Flex Bearing Pads:

Characteristics:

The elastomeric Bearing is a reinforced elastomeric bearing manufactured from synthetic chloroprene rubber (CR) or natural rubber (NR). By using well-proven production processes and only high-quality raw materials, we can guarantee a long life span without the need for maintenance.

Main Features:

The elastomeric Bearings elastomeric blocks, sheets. The vulcanized strength steel sheeting are ensure absolute corrosion maintenance. The rubber aging and weathering UV radiation.





consist of vulcanized reinforced by two or more steel reinforcing layers of highfully enclosed in elastomer to protection and complete used is extremely resistant to influences such as ozone and

Fields of Application:



Elastomeric Bearings are used mainly for bridges and Buildings and can be used at a temperature of between -40 and +50 degree Celsius. Brief temperature increases up to +70 can be withstood without problems.

They can absorb horizontal movements in every direction and rotational movements around every axis through elastic deformation, thereby allowing forces to be transferred safely from one structural component to another.

Structure:

The following elastomeric bearings are constructed in layers. This means that they consist of alternating layers of elastomer and steel plates. These alternating materials are chemically fused through a process of vulcanization, during which the rubber adheres to the reinforcement sheets in such a way as to make the unit resistant to shear and pressure.



Functioning Principles:

It primarily functions as an elastic, loadtransmitting link between construction elements that need to be connected in such a way as to allow a degree of movement. Vertical loads from the structure itself and traffic loads are transmitted without constraint into the bearing seat. Acceleration and deceleration forces from traffic load, and wind forces arising from skewed movements of adjacent structural elements.



The materials used and the structural

composition of the bearings mean that they are able to accommodate movements resulting from temperature differences between construction elements. Rotational forces from the skewed arrangement of structural components are absorbed by elastic deformation around horizontal axes.

Materials & Loads:

The elastomer is macro-molecular material which demonstrates considerable deformation at low load and which returns to its initial size and shape when this load is removed.

Steel plates are vulcanized (chemically joined) into the elastomer in order to strengthen it. The ozone level in both CR and NR is zero in accordance with EN-1337.

Elastomeric Bearings Types:

1. Type B:

Type B elastomeric bearings are enclosed on all sides with rubber (NR/CR). And are used between concrete or steel construction components. This type of bearing can simply be positioned between the structural components.



2. **Type C:**

Laminated elastomeric bearings with their upper and lowered sides anchored to the structure. This is to avoid displacement of the bearing and the structure.







Completed Project list in Pakistan:

- 1 Bridge lifting and Rectification of Bearing pads at Lahore Sialkot Motorway. 2018 NHA ZEERUK FWO
- 2 Supply of Wire Mesh fence at Peshawar-Karachi Motorway (PKM) Sukkur-Multan Section 5 & 6
- 2018 NHA SMEC China State Construction Engineering Corporation Ltd. Replacement of old Bearing pads with new at Bridge No. 04 overlay and Extension of Super Highway to motorway (M-9) Project. 2020 NHA NESPAK FWO
- 4 Replacement of old Bearing pads Timergara Khar Mohmand Ghat Road Project Brg. No. 1,2,3,4 & 5 TKMG Road. 2021 PKHA Pavron FWO 121 QCB
- 5 Supply of Nflex Bearing pads at Derya Khan Bridge on River Indus. 2023 PKHA NESPAK Haji Raees & Sons Construction Pvt. Ltd.
- 6 Replacement of Bearing pads at Derya Khan Bridge on River Indus. 2023 PKHA NESPAK Haji Raees & Sons Construction Pvt. Ltd.
- 7 Supply of Nflex Bearing pads on Lillah Jhelum Road Project. 2023 C&W NESPAK Skor Construction
- 8 Supply of Nflex Bearing pads on Shahdara Multilevel Flyover Project Lahore. 2023 LDA NESPAK MAAKSONS





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