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N-Flex Bearing Pads:

Characteristics:



The sole polymer Neoprene in the elastomeric compound is more than 60% by volume of the total compound. 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 consist of vulcanized elastomeric blocks, reinforced by two or more steel sheets. The vulcanized reinforcing layers of high-strength steel sheeting are fully enclosed in elastomer to ensure absolute corrosion protection and complete maintenance. The rubber used is extremely resistant to aging and weathering influences such as ozone and UV radiation.

Fields of Application:

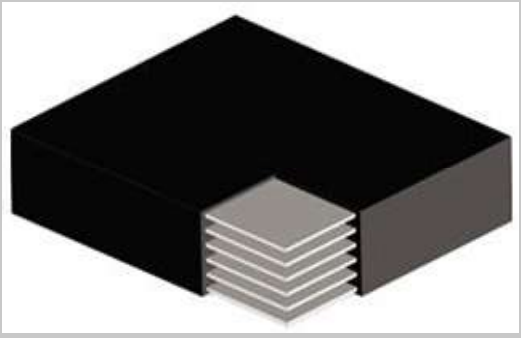


Elastomeric Bearings are used mainly for bridges and Buildings and can be used at a temperature of between -40 and +50 degree Celsius. Brief temperature increases up to +70 can be withstood without problems.

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.



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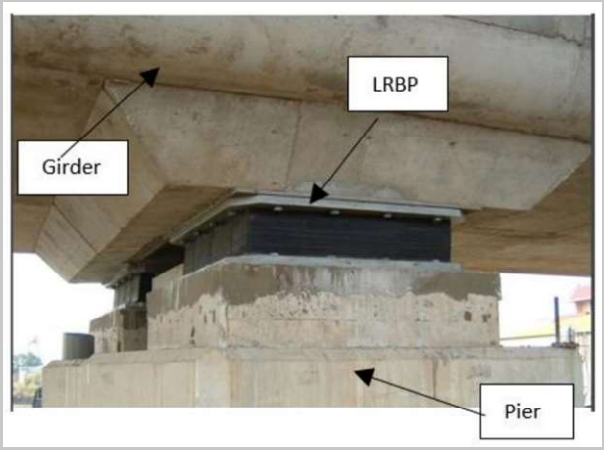
Functioning Principles:



It primarily functions as an elastic, load-transmitting 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:

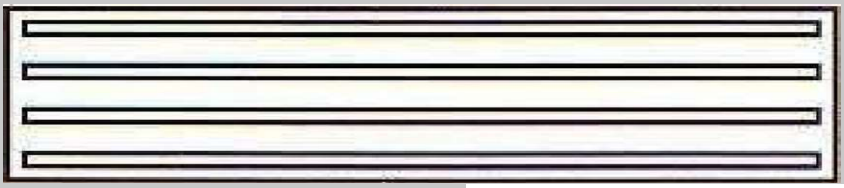
The elastomer is macro-molecular material which demonstrates considerable deformation at low load and which returns to its initial size and shape when this load is removed.

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:

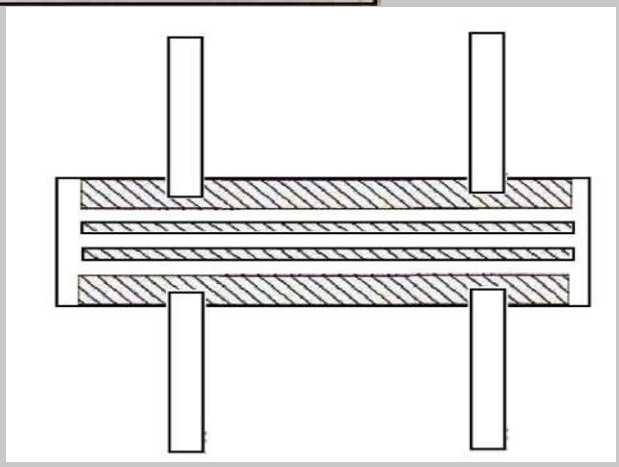
1. Type B:

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.



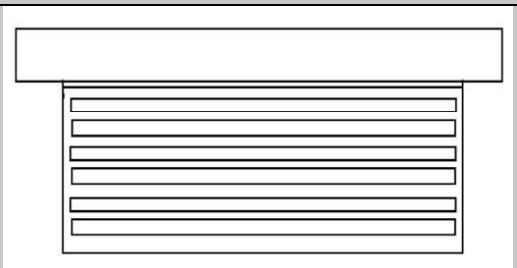
2. Type C:

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



3. Type D:

D-type Bearings are laminated elastomeric bearings with PTFE vulcanized and E-type bearings have PTFE located in steel box recessed. Its dimension is determined according to the movements.



4. Type F:

Only manufacture with elastomer the admissible working load goes from 1.5 to 5 N/mm^2.





Rawalpindi Kutchery Chowk Project



Rawalpindi Ring Road Project