- Bridge Bearings
- Bridge Expansion Joints
- Elastomeric Bearings
- Architectural Joints
- Sonic Logging Pipes
- Rebar Couplers
- Drainage Spout
- Post Tensioning Products

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SEISMOFLEX

A Substantial Promise for A Secure Future

INTRODUCTION

Deliver Quality Products is Our Ultimate Goal!

Seismoflex Private Limited is a construction related product manufacturing company incorporated in the new era of modernization with a vision of secure future. We the Seismoflex registered under the companies Act, 2013 (18 of 2013). Seismoflex Private Limited is the manufacturers, traders, installers and involve in import and export activities of a wide range of High Performance Specialized Construction Related Products which make us a unique one stop solution for all your needs related to construction.

Seismoflex is committed for premium quality products and services, from product design, fabrication, engineering support and sales. Our highest commitment is to provide the highest quality, innovative, environment friendly products, high level of services for various specific applications.

Why Choose Us ?

- **Values:** We believe in "**Vasudhaiva Kutumbakam**" We treat every company we do business with the same way that we would wish to be treated. We do this through our core values by constantly striving for and maintaining.

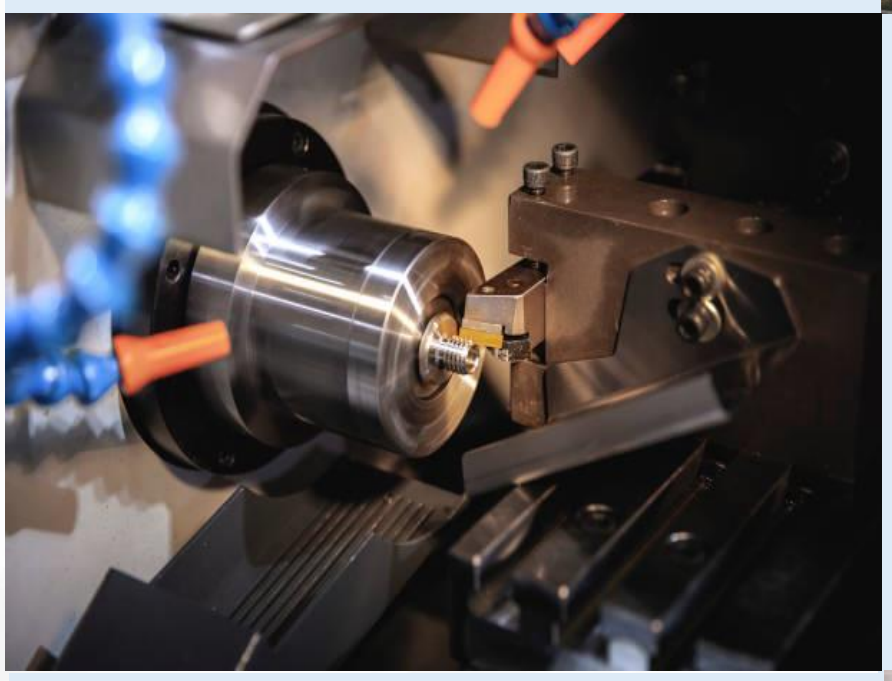
- **Capability:** State-of the-art research, testing and manufacturing facilities to support and serve the needs of project designer and contractors.

- **Craftsmanship of Another Era:** We don't advertises, our works speaks for us.

- **Flexibility:** We have expertise to create standard products which follows all the standard norms as well as we also have an in-house R&D team which love to work on your customized product idea.

SERVICES

1 **Heavy fabrication facilities: Our Fabrication Shops are fully equipped with MODERN FABRICATION FACILITIES.**

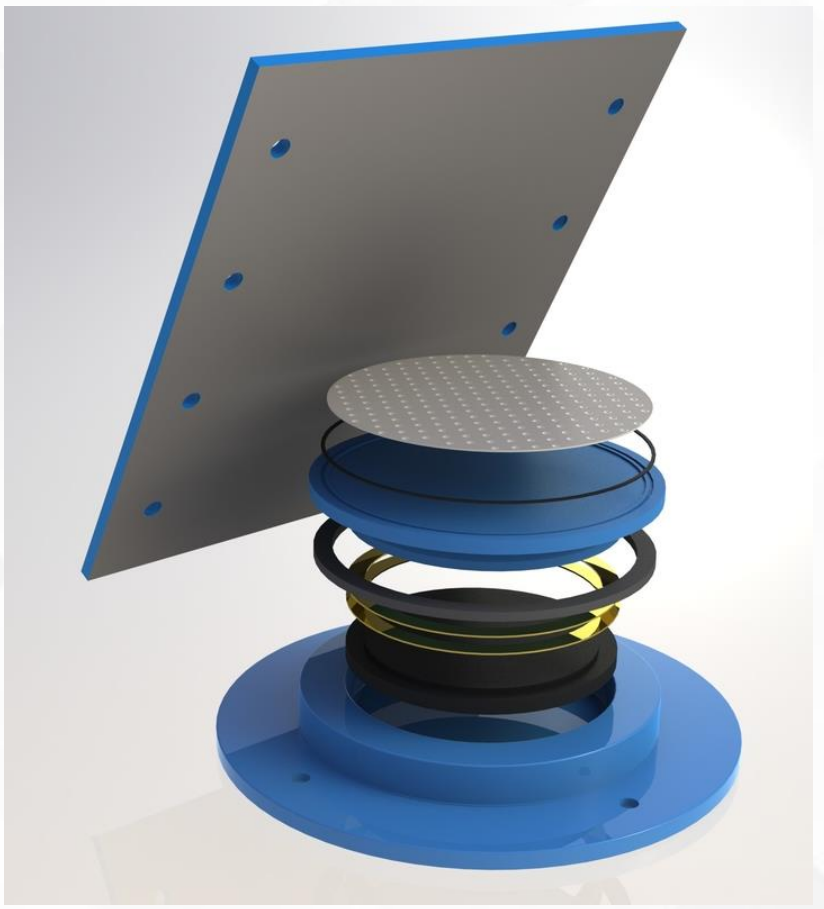


2 **Machining facilities seismoflex private limited has modern in house machining facility with dimensions accuracy.**

3 **Load testing facilities seismoflex private limited has in house load testing facilities.**

4 **Specialist welding Tig, Mig, Arc and gas welding facilities.**

1 BRIDGE BEARINGS



POT BEARING, also known as pot-ptfe bearing, with elastomeric bearing pad embedded inside of the steel plate, can be divided into fixed pot bearing, guided pot bearing and free sliding pot bearing.

Fixed Bearing (**Fixed pot bearing)** is unmoved in all directions. Under loads, the elastomeric bearing pad behaves likes an incompressible confined fluid which enables the rotations on any axis.

Free Bearing (Free sliding pot bearing) can be movable in all directions. The added PTFE and stainless steel sliding surface between the piston and the sole plate creates a bearing assembly that allows horizontal movement in any direction.

Guided Bearing (Guided pot bearing) with steel guide edge can be only moved in one direction. The stainless steel slide and PTFE slide further reduce the friction coefficient and guided pot bearing is used best when horizontal loads are relatively small (less than 20% of Vertical load)

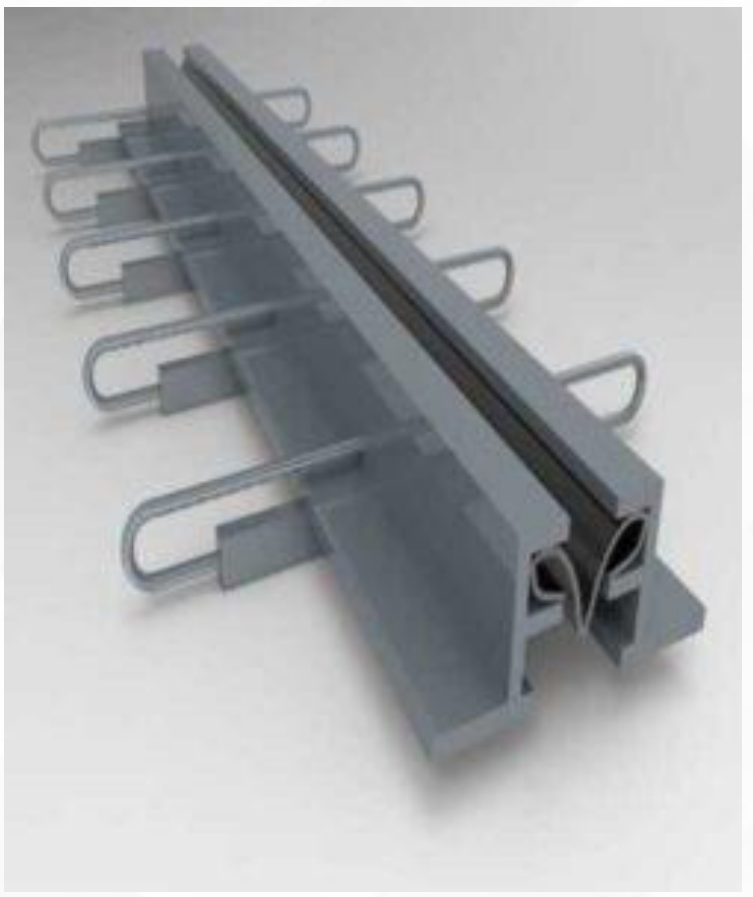
Pin Fixed Bearing, A pin bearing is a type of fixed bearings that accommodates rotations through the use of a steel. Translational movements are not allowed.

Metallic guided bearing, consisting of a sliding assembly with restraint along the desired direction to bears and transmit horizontal force and capable of allowing movement in a direction perpendicular to the direction of horizontal force.

Spherical bearing, also called spherical bridge bearing, is one type of bridge bearings with large rotation capacity. Similar with pot bearing, spherical bearing also can be divided into three types: fixed spherical bearing, guided spherical bearing and free sliding spherical bearing. With high strengthened steel body, spherical bearing is especially designed for high vertical, horizontal and lateral loads and where large rotational structural displacements need to be accommodated.

2. BRIDGE EXPANSION JOINT

2.1. SINGLE STRIP SEAL EXPANSION JOINT



Strip seal expansion joints for movements of up to 80 mm are expansion joints made of a single set of structural steel, rubber sealing strips and headed studs. In order to meet the requirements of the bridge deformation, strip seal expansion joints are usually set at each end of the bridge, between ends of the beam and abutment or on the hinge joints of the bridge. They are applied with rubber noise weaken board which can help to increase movement and reduce noise from over-passing traffic by up to 80%.

Specification:-

- Rubber material: chloroprene rubber (CR) or natural rubber (NR).
- Head Type: Straight or bending.

2.2. COMPRESSION SEAL EXPANSION JOINT

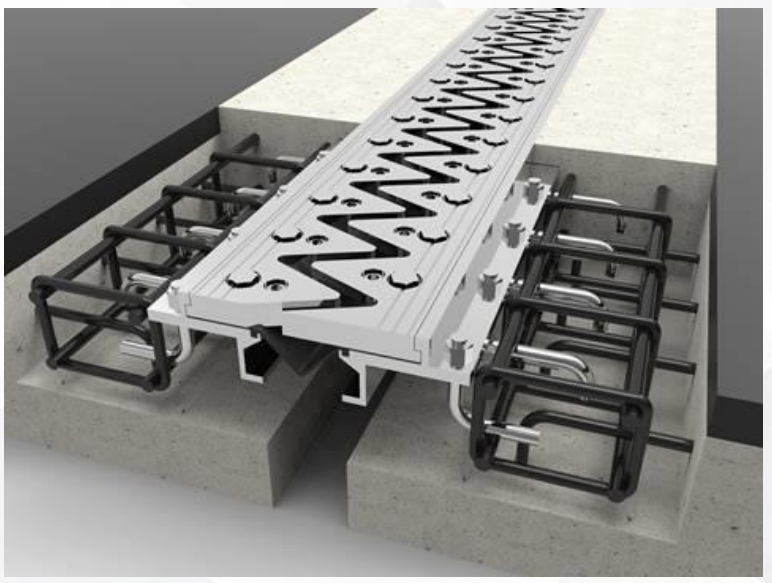
Compression Seal Expansion Joint consists of steel armored nosing at two edges of the expansion joint gap suitably anchored to the deck concrete and a performed chloroprene elastomer compressed and fixed into the joint gap with special adhesive girder. It is recommended for simply supported or continuous spans right or skew moderately curved with maximum horizontal movement not exceeding 40mm. In order to meet excellent quality standards, we are supplying Compression Seal Expansion Joint.

2.3. MODULAR JOINT

Modular expansion joints are composed by boundary beams, middle beams, cross girders, displacement control systems, bridge bearings, anchoring components and rubber sealing belts. modular expansion joints are suitable for longitudinal movements of 80 mm to 1200 mm.

Having good bearing capacity and stability, modular expansion joints can accommodate movements in every direction and rotations about every axis. Their individual displacement control and load transfer systems enable bridges to adapt the movement of the beam caused by temperature and ensure the traffic safety.

2.4. FINGER TYPE EXPANSION JOINT



Finger expansion joints are designed to handle movements of 80 mm to 1,200 mm are composed by steel finger plates, CR sheet, anchor bolts and other components. The rubber sheet is placed on the retractable steel, and anchor bolts help to fix the whole structure. The orientation of the fingers is in the direction of vehicle travel, which can reduce noise and improve driver's comfort. There is a drainage channel which allows rainwater to enter the bridge's drainage system, hanging beneath the joint.

Application:-

Finger expansion joints are suitable for both new bridges and existing bridges. They are also good choices for the large-span bridges and do well in replacing the old ones. Finger expansion joints are widely used among steel box girders, among concrete beams, and between steel box girders and concrete beams. Finger expansion joints also can be used in expressway.

3. ELASTOMERIC BEARING

Laminated elastomeric bearings support simultaneous loads and deformation in any direction. Steel plates are bonded to the rubber through a vulcanization process and have the main scope to increase the resistance of the bearings to vertical loads. The steel plates are fully embedded in the elastomer so that they are protected against corrosion.

The connection of the elastomeric bearings to the structure may be through the rubber itself or steel elements of various shapes suitable for any kind of structure.

Horizontal movements up to approximately one half of the rubber thickness and rotations are allowed by the flexibility of the rubber.

Higher horizontal movements can be reached utilizing the rubber bearings with PTFE.

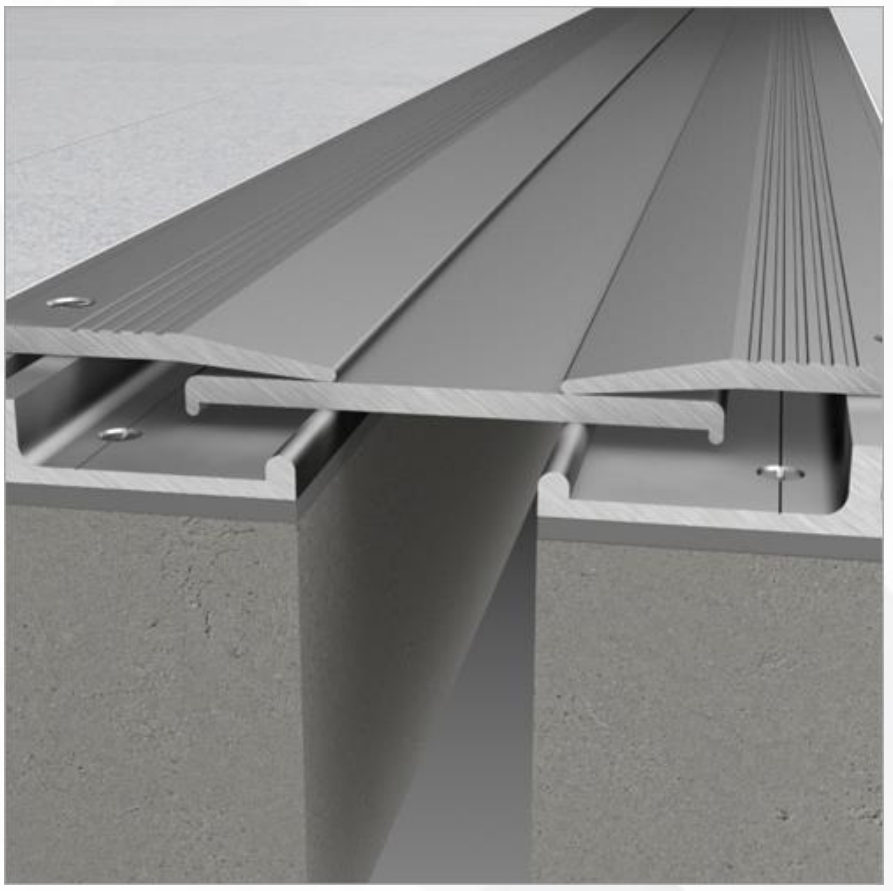
The mark utilized to describe rubber bearings is the following:

NB a(mm) x b(mm) x c(mm) where ‘a’ and ‘b’ are the dimensions of the bearing in plan and ‘c’ the thickness.

4. ARCHITECTURAL EXPANSION JOINTS

we are offering a precision-engineered array of Architectural Expansion Joint System. Following industry defined guidelines, manufacture by utilizing contemporary machines, modernize technology and prime grade raw material at our end. In order to ensure quality, the entire range is rigorously tested upon a series of parameters. In tune with clients' diverse requirements, we offer the entire system in a wide range of specifications.

- Floor To Floor Joints
- Wall To Wall Joints
- Roof Joints
- Ceiling Joints



Features:

- Seismic control features
- Jerk free system.
- Suited for new/retrofit jobs.
- Spring centering system.
- Range of colors to suit surrounding.
- Provision of moisture barrier.

5.CROSSHOLE SONIC LOGGING PIPE

Crosshole sonic logging (CSL) pipes are used to determine the structural integrity of drilled shafts and other concrete piles.

The CSL method is considered to be accurate in the determination of structural soundness of concrete within the drilled shaft inside of the rebar cage.

6. REBAR COUPLERS

Seismoflex Private Limited caters to the need of mechanical splicing system technology for the construction industry. Our solutions offer connection of rebars with mechanical couplers over tradition lap splicing methods for bars ranging from 12mm to 50mm.

7. POST TENSIONING PRODUCTS

Flat Slab Anchorage

Anchor Head Plate

Anchor Block

Anchor Cone

Post Tensioning Wedges

Post Tensioning Anchorage Head

Drainage Spout

Round Anchorage

Duct Pipe

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Our Expertise

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