

Elastomeric Bearing Pads

DESCRIPTION

The term bearing is referred to as an elastomer block consisting of one or more internal layers of Neoprene bonded to steel laminates by the process of vulcanization.

These bearings are manufactured in accordance to IRC – 83 (Part II) 1987 and MOST 2000 specifications.

The shear modulus of the elastomeric bearing is generally $1+20\%$ Mpa.

The Physical properties of elastomer are checked in accordance to ASTM-D 297 Specification.

Fabrication of the bearing and the tolerance limits is as per IRC 83 SPECIFICATION. Finished bearings are generally tested after seven days of its manufacture of the followings:

- a. Elastic modulus value.
- b. Shear modulus value.
- c. Bond between the rubber and laminates.
- d. Ultimate strength in compression on the cut section.

Test procedure and permissible limits are specified in IRC 83(Part II) 1987 Or UIC 772R specification as applicable to the project.

INSTALLATION AND POSITIONING

The bearings must be placed between true horizontal surfaces and at true plan position of their control lines marked. Concrete surfaces should be free from logical irregularities. For precast concrete superstructure fixing of bearings may be done by epoxy application to interface. Placing of bearing in the recess provided is advisable. Installation of bearings one behind the other along the longitudinal centerline of the bridge for the same group of bearings should not be allowed. Since the bearings have different stiffness, different sizes of bearings must not be placed next to each other.

TEST FACILITIES

We at Supreme have all the apparatus/equipments for testing of the properties of elastomer and raw material contents as per IRC 83 code. Designing and related R & D work is carried out at our works from time to time.

Elastomeric Bearing Pads are made as per Required Sizes & Customize Drawing

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