CALENBERG

Product overview

DYNAMIC ELASTOMERIC BEARINGS

VIBRATION ISOLATION AND REDUCTION OF STRUCTURE-BORNE NOISE

A LISEGA Group Company

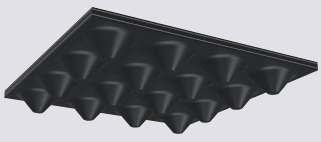
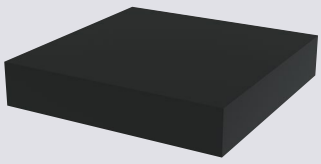
Dynamic elastomeric bearings for protection against vibration and structure-borne noise

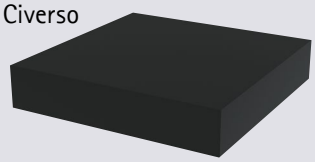
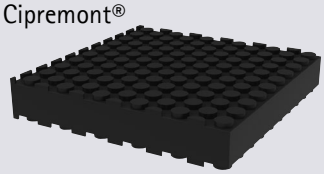
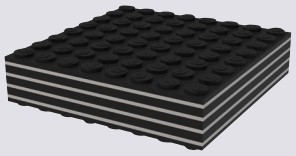
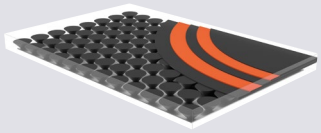
The isolating properties of elastomeric bearings are a tried-and-tested solution in all situations where buildings have to be protected against vibration emissions. Vibrating machinery and road or rail traffic can severely affect people in buildings. Bearings for machines and buildings can be punctiform, strip-shaped or planar.

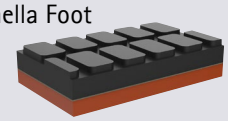
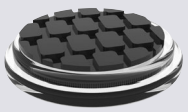
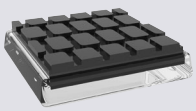
Calenberg elastomeric bearings are highly effective over a wide load range with almost constant low natural frequencies. In addition to the resulting vibration isolation, Calenberg's elastomeric bearings also feature material-based damping.

Advantages

- Reduction of noise and vibration
- Decrease of air-borne and structure-borne noises
- Increased housing and working conditions
- Enhancement of the value of real estate through elastomeric support
- Maintenance-free
- Reduction of wear on components and machines

ELASTOMERIC BEARINGS FOR THE DYNAMIC SUPPORT OF BUILDINGS AND MACHINES			
Bearing type	Description, field of application	Bearing thickness [mm]	Technical data
Cibatur® 	The profiled mat consists of a fibre reinforced elastomeric plate with elastic, truncated cone-shaped studs on the underside. It possesses a constant natural frequency over a wide loading range. The top layer is not only resistant to abrasion, oil and ozone but also insensitive to weather. Very high quality natural rubber mix is used for the elastic studs. The bearing is particularly suitable for large areas under buildings. Approval no. Z-16.32-495, issued by DIBt Berlin	30 63	Load range: 0.02 – 0.5 N/mm² Lowest natural frequency: 9.5 Hz single layer 7.0 Hz double-layer with intermediate plate Load peaks (occasional and short-term): ≤ 1,2 N/mm²
Cisador® 	Cisador® consists of closed-cell cellular rubber, which can also be used in groundwater. Cisador® is available in different types, which are used for different compressive stress ranges. The bearing can be used in all areas of vibration insulation. It can be used both for supporting buildings and for the classic decoupling of machines and foundations.	15 - 90	Load range: 0.01 – 1.7 N/mm² Lowest natural frequency: 6 Hz

ELASTOMERIC BEARINGS FOR THE DYNAMIC SUPPORT OF BUILDINGS AND MACHINES			
Bearing type	Description, field of application	Bearing thickness [mm]	Technical data
Civerso 	Civerso is made of microcellular EPDM material with low water absorption. Civerso can be used for applications with very low permanent loads. The bearing is used for vibration isolation of the side walls (basement walls) of buildings.	20 - 42	Load range: 0.01 – 0.05 N/mm²
Cipremont® 	A profiled heavy-duty unreinforced elastomeric bearing with little creep and constant natural frequency for a wide load range. The bearing is particularly suitable for support of machines and structures with high compression stress.	15 25 35	Load range: 0.5 – 4.0 N/mm² Lowest natural frequency: 8 Hz
Ciflex 	Ciflex consists of foamed polyurethane. There are different types which are used for different compressive stress ranges. The bearing can be used for the support of buildings as well as for the classical decoupling of machines and foundations.	12.5 25.0 50.0	Load range: 0.01 – 0.9 N/mm² Lowest natural frequency: 6 Hz
Citrigon® 	A heavy-duty steel-reinforced elastomeric bearing with low creep behaviour and low natural frequencies at very high loads. Citrigon® is made of NR, is temperature resistant from -30°C to +70°C and does not absorb water. The bearing is mainly used in the vibration-related bearing of buildings when high compressive stresses have to be absorbed (e.g. bearing on pile heads).	approx. 37	Load range: ≤ 7 N/mm² Lowest natural frequency: 10 Hz
Cimax® 	The patented waterproof, encased bearing is a variant of the proven Cibatur® mat. Cimax® was developed specifically for use under water. The bearing is particularly suitable for support of structures below ground water level. Approval no. Z-16.32-495, issued by DIBt Berlin	35	Load range: 0.02 – 0.5 N/mm² Lowest natural frequency: 9 Hz single layer

Cipremont® piano coaster Type Lamella Foot 	Permanently elastic coaster for Piano, E-Piano and Grand Piano. Available in three designs. Lamella Foot: 63 x 35 mm² Lamella Plate: Ø 75 mm Top Plate: 70 x 70 mm²	Type Lamella Plate 	Type Top Plate 

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