TRELLEBORG

Acoustic Vibration Isolation Solutions

Lasting Structural Support Solutions

ABOUT TRELLEBORG

Building on 140 years of experience in elastomer solutions, Trelleborg's track record in bespoke vibration isolation solutions spans more than 50 years in residential and office construction developments and special projects. Pioneering the application of elastomer bearings in civil structures, building vibration isolation solution was first developed in 1965, with the help of Trelleborg's elastomer bearings manufactured in it's facility in Ridderkerk, The Netherlands.

EXPERIENCE IN ELASTOMERS

Having pioneered the application of vibration isolation in civil structures the technical experience was further built in other projects of the same application, isolating heavy machinery and seismic protection devices. Solutions were developed for various high-profile projects including key infrastructure, defense and nuclear applications. Based on experience and results in a range of applications and unique solutions Trelleborg is able to propose the best suitable solution for each project.

BESPOKE DESIGN SOLUTIONS

Each building is a unique design and therefore has unique requirements on the materials used in the construction. For the vibration isolation system a combination of data from the building architect, structural engineer and contractor is key in defining the optimal isolation strategy.

- Desired acoustic performance
- Structural and acoustic loads
- Available space envelope
- Proposed building construction
- Space envelope constraints
- Fire protection & disproportionate collapse
- Other restraints or requirements that influence the solution design

Bespoke Isolation Design

VIBRATION ISOLATION SOLUTIONS

Elastomer bearings are a reliable and durable solution for supporting loads, accommodating movements and attenuating the effects of noise and vibration transmitted into the structure. With performance characteristics ranging from natural frequencies below 4Hz up to 20Hz and proven supported loads in excess of 900 tonne on a single laminated bearing.

Trelleborg has extensive experience with vibration isolation and elastomer products and can supply design support, structural support, modeling, calculations as well as testing and inspection.

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PROJECT REFERENCES

- Albany court (London, United Kingdom)
- Queensland Conservatorium of Music (Brisbane, Australia)
- Benaroya Concert Hall (Seattle, United States of America)
- Angel Place (Sydney, Australia)
- Roy and Edna Disney Concert Hall (Los Angeles, United States of America)
- Theatres on the Bay, Concert hall & Lyric Theatre (Singapore)
- Park House (London, United Kingdom)
- Principal Place Residential tower (London, United Kingdom)
- Marble Arch Place (London, United Kingdom)
- Amare (The Hague, Netherlands)

Trelleborg is a world leader in engineered polymer solutions that seal, damp and protect critical applications in demanding environments. Its innovative solutions accelerate performance for customers in a sustainable way.

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