

**INSULATION
SOLUTIONS**



ISOPARTNER



THERMAL INSULATION



PASSIVE FIRE PROTECTION



HIGH TEMPERATURE



NOISE CONTROL

www.isopartner.ie

ISOPARTNER – TICO ANTI-VIBRATION SOLUTIONS

INTRODUCTION

Anti-vibration pads are specially engineered supports designed to reduce the transfer of vibration, noise, and shock from machinery into floors and surrounding structures. By absorbing and isolating movement, they protect equipment, improve performance, and extend service life. These pads help create quieter, safer, and more stable environments in industrial, commercial, and residential settings.

ISOPARTNER is proud to partner with TICO, a recognised expert in anti-vibration pad design, to deliver tailored solutions for complex project requirements. This collaboration ensures best-in-class products, comprehensive technical support for designers, and expert guidance on the correct specification, integration, and mitigation of vibration and noise in a wide range of environments.



Made from durable materials such as rubber, cork, or composite blends, they provide reliable load support while minimizing structural stress. Whether used under HVAC units, generators, compressors, or sensitive pharmaceutical process machinery; anti-vibration pads offer a simple, cost-effective solution to enhance efficiency, prevent damage, and maintain reliable performance where vibration control is essential for modern operations everywhere today and tomorrow across industries worldwide and beyond globally.



The ISOPARTNER TICO range of anti-vibration pads delivers exceptional low-frequency isolation, protecting machinery, improving performance, and extending equipment life. Each pad is precision-engineered for its specific application and manufactured under strict ISO 9001 and ISO 14001 quality and environmental standards. For complete confidence, the performance of every product is verified and confirmed with an individual Document of Conformity, ensuring full traceability, reliability, and compliance.



ISOPARTNER focuses on bespoke applications, offering solutions across a range of performance levels:

PRODUCT FAMILY	NATURAL FREQUENCY	PERFORMANCE LEVEL	TYPICAL APPLICATIONS
General Purpose	8–12 Hz	Standard	HVAC, pumps, OEM
Low Frequency	5–7 Hz	Premium	Data centres, machinery
Critical Frequency	3–5 Hz	Flagship	Precision, sensitive equipment

ISOPARTNER provide clients with a complete solution which includes TICO anti-vibration pads which are engineered to isolate harmful vibration at the source — protecting critical equipment, improving operational stability, and ensuring long-term reliability.

Whether supporting data centre infrastructure, HVAC systems, industrial machinery, or precision equipment, TICO delivers engineered isolation solutions for every performance level.

INTRODUCING THE TICO PRODUCT FAMILIES

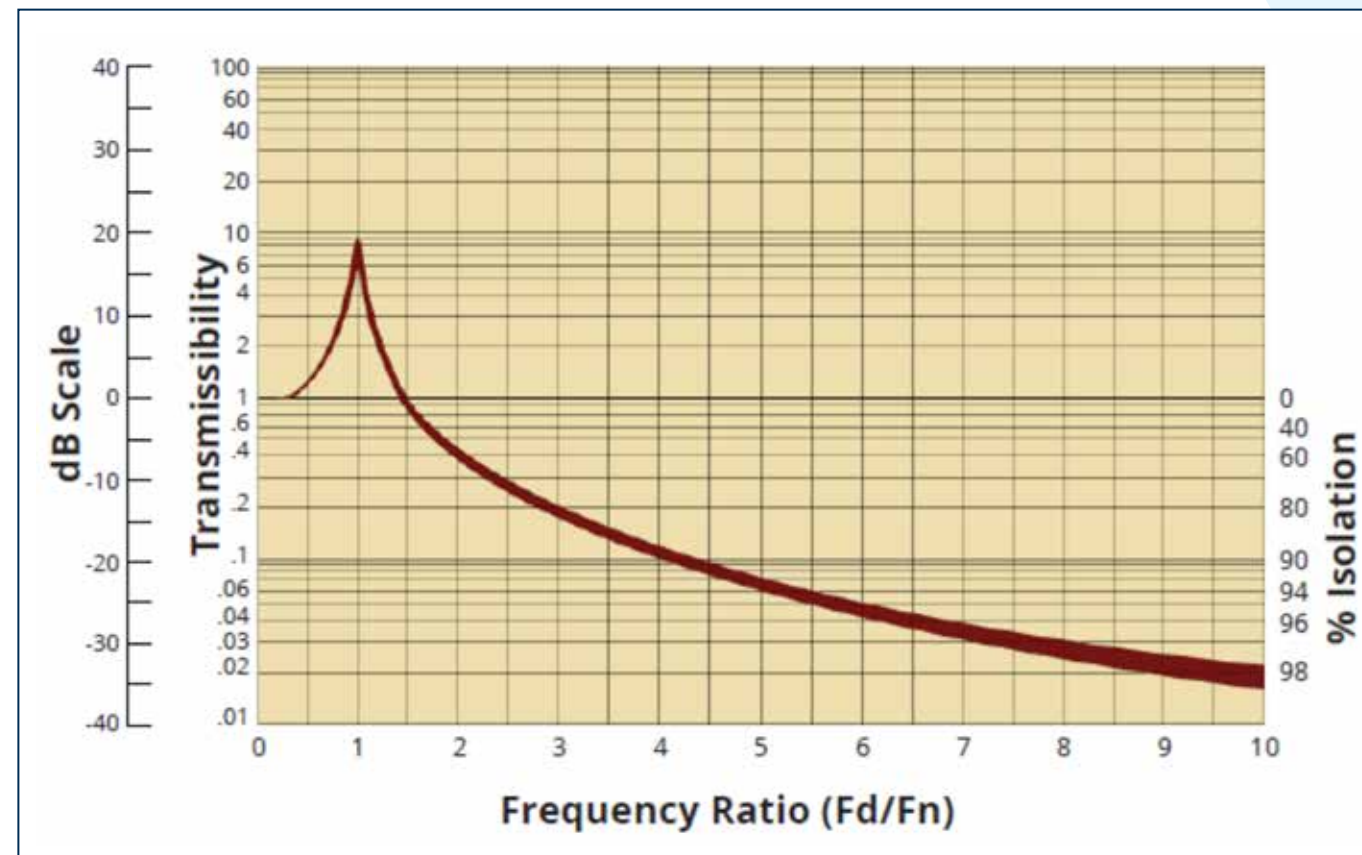
TICO anti-vibration pads are available in three performance tiers:

- **General Purpose Frequency**
- **Low Frequency**
- **Critical Frequency**

Each designed for specific operational requirements.

ISOLATION EFFICIENCY

1. Ascertain disturbing frequency of plant to be isolated (f_d)
2. Calculate frequency ratio f_d/f_n
3. From horizontal axis project a line up to curve of graph and read off isolation efficiency from right-hand side vertical axis.



Note: Installation should be arranged so that the frequency ratio does not fall between 0.5 and 2.

TICO GENERAL PURPOSE FREQUENCY (M/PA)

Reliable Isolation for Everyday Applications
Natural Frequency: 8–12 Hz

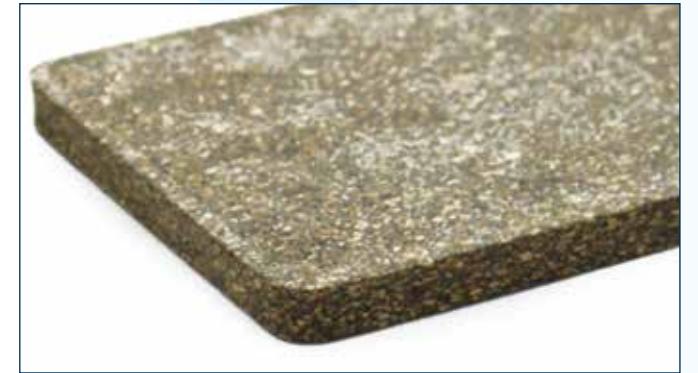
The General-Purpose range is designed for standard equipment and high-volume applications where dependable vibration isolation is required.

Ideal for:

- **Standard data centre racks**
- **HVAC units**
- **Fans and pumps**
- **Compressors**
- **General industrial equipment**

Key Benefits:

- **Excellent cost-performance ratio**
- **High load capacity**
- **Durable, long-lasting performance**
- **Ideal for OEM and facility use**



Formulation:

Tico S/PA pads comprise a specially formulated microcellular rubber with a fabric layer top and bottom. The fabric backing layers provide an excellent bonding surface to facilitate rapid installation.

Two grades of Tico S/PA pads are available for use under differing load conditions. Pads can be stacked one upon another to give very low natural frequencies.

TICO LOW FREQUENCY (LF/PA)

Enhanced Isolation for High-Performance Equipment

Natural Frequency: 5–7 Hz

The Low Frequency range provides significantly improved vibration isolation for more demanding applications.

Ideal for:

- **Data centres and server infrastructure**
- **Cooling equipment**
- **UPS systems**
- **Heavy machinery**
- **Technical facilities**

Key Benefits:

- **Superior vibration isolation**
- **Improved equipment stability**
- **Reduced structural vibration transfer**
- **Ideal for mission-critical environments**



Formulation:

Tico LF/PA pads have a bonded-sandwich construction. The centre stratum is synthetic elastomer, precision moulded with a fluted pattern developed for optimum absorption across a specific load range.

Top and bottom strata are rubber bonded cork to provide high friction-bearing surfaces. Double layers of Tico LF/PA pads can be used to lower the natural frequency.

TICO CRITICAL FREQUENCY (CF/PA)

Maximum Isolation for Precision and Sensitive Equipment

Natural Frequency: 3–5 Hz

The Critical Frequency range represents the highest level of vibration isolation available in the TICO portfolio.

Designed for environments where even small vibration can affect performance.

Ideal for:

- **Precision equipment**
- **Sensitive technical installations**
- **High-performance data centre applications**
- **Specialist industrial systems**

Key Benefits:

- **Maximum vibration isolation performance**
- **Protects sensitive equipment**
- **Improves operational accuracy**
- **Premium, flagship performance**



Formulation:

Tico CF/PA pads comprise a specially formulated microcellular rubber with a fabric layer top and bottom. The fabric backing layers provide an excellent bonding surface to facilitate rapid installation.

Two grades of Tico CF/PA pads are available for use under differing load conditions. Pads can be stacked one upon another to give very low natural frequencies.

WHY ANTI-VIBRATION MATTERS

Protect Equipment. Improve Performance. Extend Lifespan.

Vibration is one of the most overlooked causes of:

- **Equipment failure**
- **Noise transmission**
- **Structural fatigue**
- **Reduced precision**
- **Increased maintenance costs**

TICO anti-vibration pads are engineered to isolate harmful vibration at the source — protecting critical equipment, improving operational stability, and ensuring long-term reliability.

Whether supporting data centre infrastructure, HVAC systems, industrial machinery, or precision equipment, TICO delivers engineered isolation solutions for every performance level.



THE TICO ADVANTAGE

Engineered Performance

Designed to target specific vibration frequency ranges for maximum isolation.

Proven Reliability

High-quality materials ensure consistent long-term performance without creep or degradation.

Versatile Applications

Suitable for:

- **Data centres**
- **HVAC systems**
- **Pumps and chillers**
- **Industrial machinery**
- **Generators**
- **Precision equipment**
- **OEM applications**

Scalable Solutions

Three clearly defined product families allow you to select the correct performance level for your application.

ORDERING INFORMATION:

For specific product codes, dimensions, and customization options, please contact:

ISOPARTNER Technical Insulation solutions Ltd

Units 1-4 Keypoint, Rosemount Business park,
Ballycoolin, Dublin 11, D11XP70, Ireland

P: +353 1 8829990 **E:** sales@isopartner.ie **W:** www.isopartner.ie



Top: The ISOPARTNER fleet of vehicles, big and small, ensures timely deliveries both locally and nationwide.

Left: Section of the warehouse distribution centre showing the extensive, ex-stock holdings at ISOPARTNER.

Centre: Overview of the manufacturing facility.

Right: Denis Buckley and Neil Tynan, who lead the Cork distribution centre.

ISOPARTNER

INSULATION SOLUTIONS

ISOPARTNER Technical Insulation Solutions Ltd.
 Dublin: Units 1-4 Keypoint, Rosemount Business Park,
 Ballycoolin, Dublin, D11 XP70 Tel: +353 1 8829990
 Cork: Units 3A&B Ballycurreen Industrial Estate,
 Kinsale Road, Cork, T12 E279 Tel: +353 21 4966102
 Email: sales@isopartner.ie www.isopartner.ie



AN **IPCOM** GROUP COMPANY