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TICO® CV/M - Medium Load Bearing Pad Datasheet

Product Code: RC1182

Product Description

TICO® CV/M - Medium Load Structural Bearing Pad is made from vulcanised laminates of polychloroprene based rubber enhanced with cork particles. It provides a maintenance-free barrier for isolating structures from ground-borne noise and vibration.

Technical Specification

Property	Value
Maxmimum Working Stress	1400 kN/m²
Working Stress Range	1000 to 1400 kN/m²
Breakdown	In excess of 3 x the maximum recommended working stress (in accordance with BS 6177)
Hardness	50° ± 5° IRHD
Density (Typical)	1100kg/m³
Temperature Range	-30°C to +70°C Performance of bearing may be impaired at extremes of durable temperature range.
Typical Damping Ratio	0.065 to 0.085
Thermal Conductivity	0.251 W/m.K

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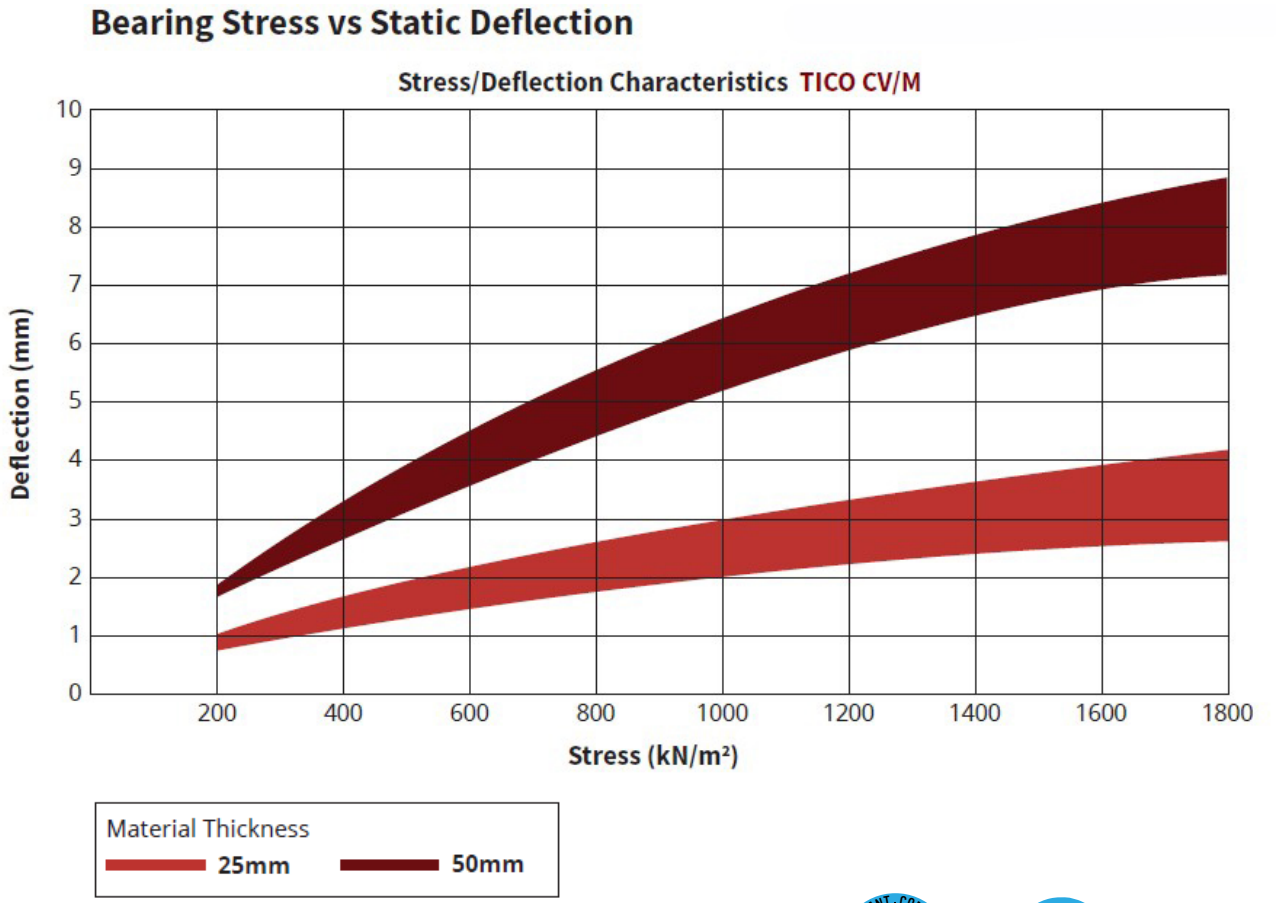
Standard Dimensions

Property	Value
Standard Thickness	25mm, 50mm, 75mm
Maximum Sheet Size	1200mm x 1000mm
Optimum Size	300mm x 300mm Bearing sizes are designed to give optimum performance

Non-standard sizes and thicknesses available on request.
When 50mm thick or greater reinforcing plies of high tensile fabric are incorporated
Bearing pads can be supplied with a protective Hypalon lacquer edge proofing if required.

Static Properties in Compression



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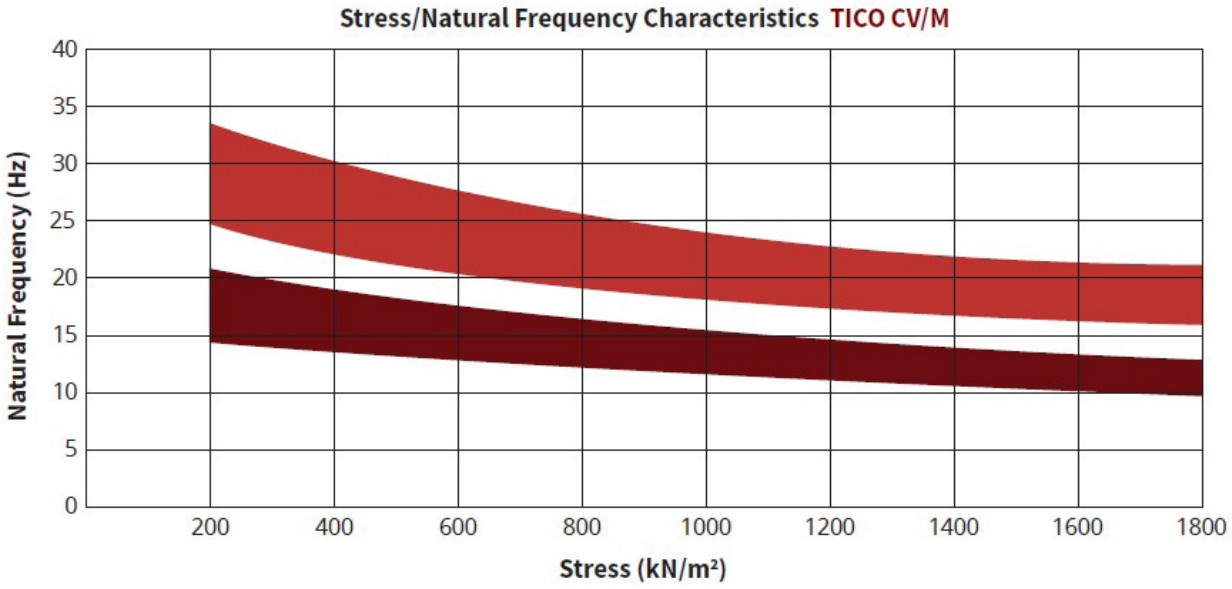
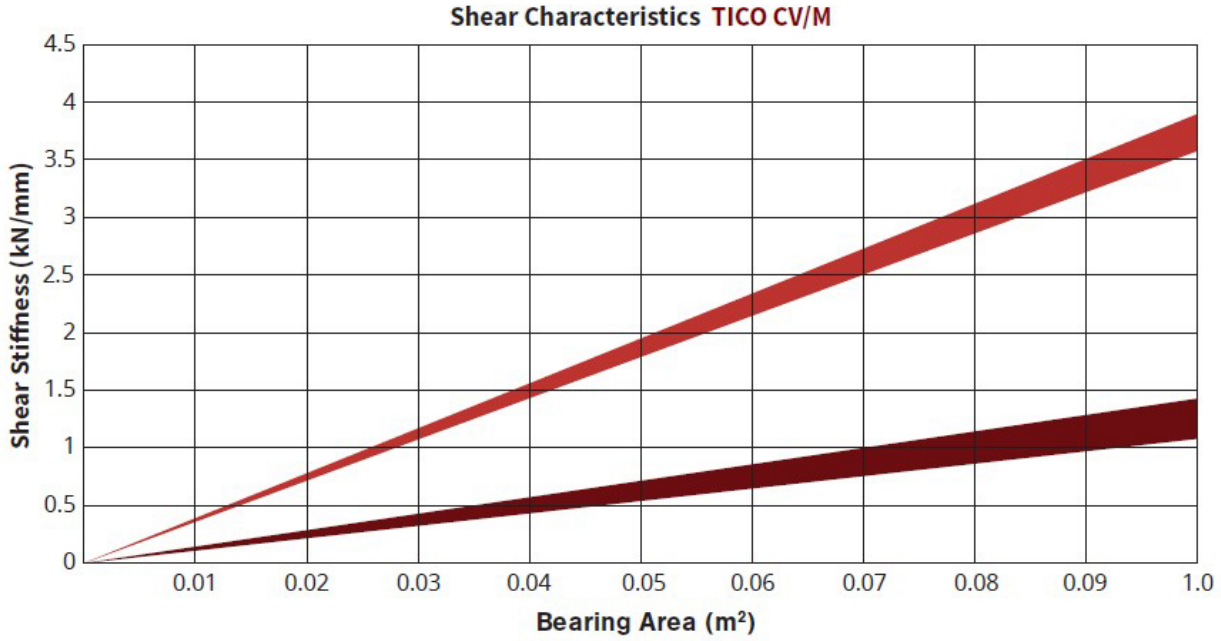
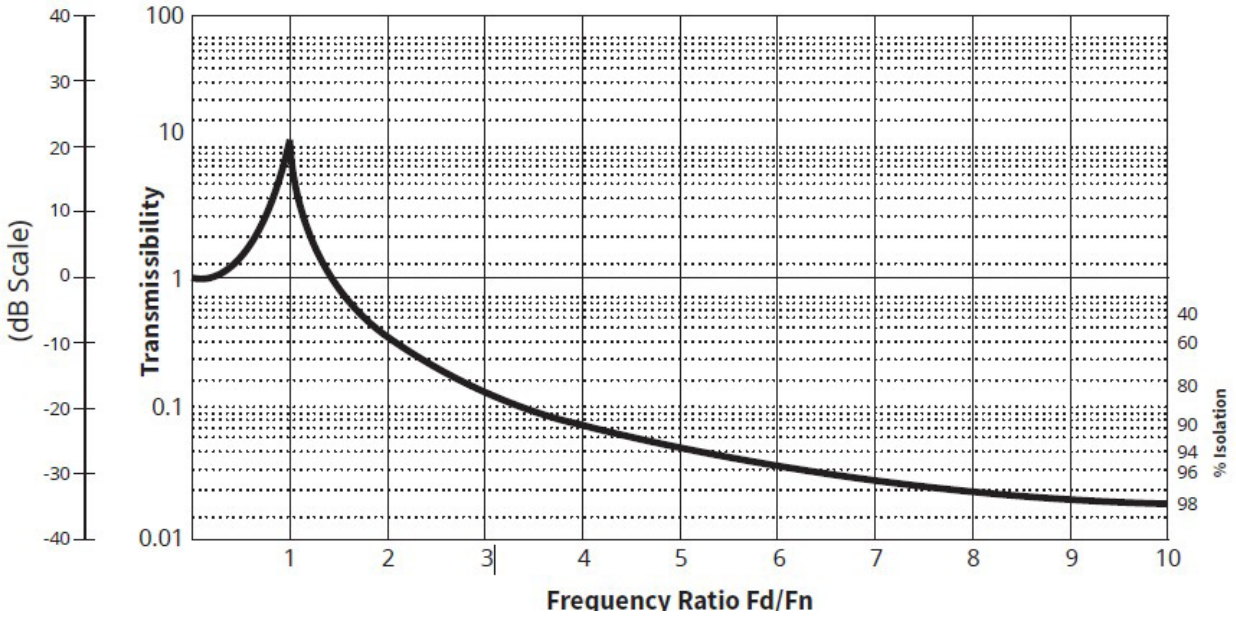
Bearing Stress vs Natural Frequency



Shear Stiffness



Transmissibility



All TICO materials are manufactured in accordance with BS EN ISO 9001: 2000.

Installation

Bearings should always be handled with care during installation. Damaged bearings should not be used but brought to the immediate attention of the resident engineer or consultant.

Recommendations

- Where possible, the recommendations of BS6177 (Selection and Use of Elastomeric Bearings for Vibration Isolation of Buildings) are to be complied with. Particular attention should be paid to section 4.6 with regard to bearing support surfaces.
- Where there is a cluster of bearings, sufficient space around the bearing should be allowed for "bulge" caused by the load being carried.
- A minimum of 25mm should be allowed between bearings and where bearings are adjacent to failsafes.
- Allow additional shear restraints when considering lateral stability. There are a number of well proven installation techniques, but it is important to consider the design at an early stage.

NB. Data is intended for guidance only. It has been prepared from results of extensive testing over many years and includes an allowance for long term 'creep' and ageing.

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