

TICO[®] LF/PA - Low Frequency Mounting Pad Datasheet

Product Code: RC1156

Product Description

TICO[®] LF/PA - Low Frequency Mounting Pad is crafted from moulded synthetic rubber and features 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. The top and bottom strata are made from rubber bonded cork to provide high friction-bearing surfaces.



Technical Specification

Property	TICO [®] LF/PA/10	TICO [®] LF/PA/80
Maximum Recommended Static Stress	0.07 MN/m ²	0.7 MN/m ²
Breakdown	In excess of three times maximum working stress	
Hardness (IRHD)	40 ± 3	40 ± 3
Density (Typical)	1050kg/m ³	1050kg/m ³
Temperature Range	-30°C to +70°C	-30°C to +70°C

Dimensions

Property	TICO [®] LF/PA/10	TICO [®] LF/PA/80
Standard Thickness	25mm	32mm
Standard Size	150mm x 150mm	150mm x 150mm
Maximum Size	600mm x 150mm	600mm x 150mm



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Static Deflection

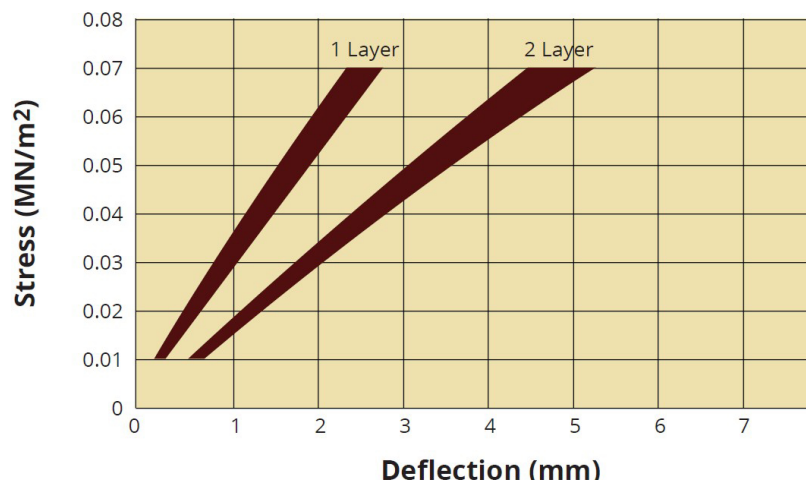
To use the graph:

1. Calculate stress on pads in MN/m² using formula:

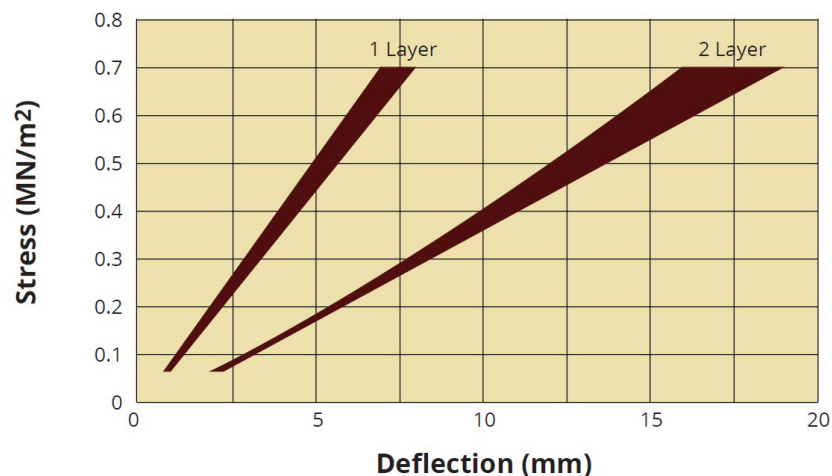
$$\text{Stress in MN/m}^2 = \frac{(\text{weight of machine in kg} \times 9.81 \div 1,000,000)}{\text{Area of pad in m}^2}$$

2. Project horizontal line from calculated stress to intercept desired thickness. Read deflection off horizontal axis of graph.

LF/PA/10



LF/PA/80



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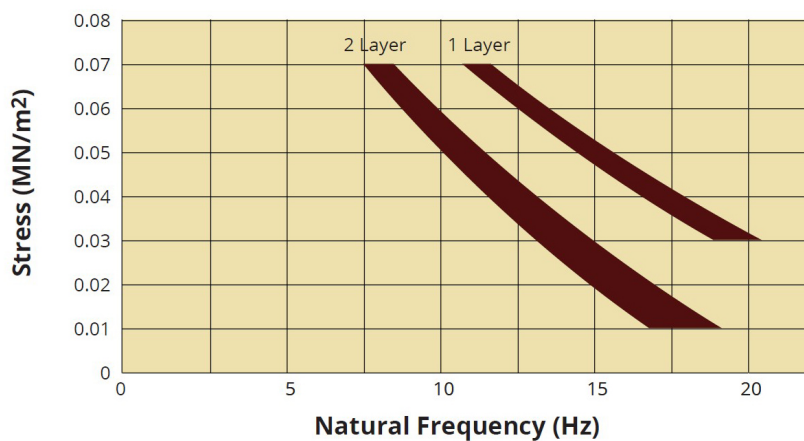
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Natural Frequency

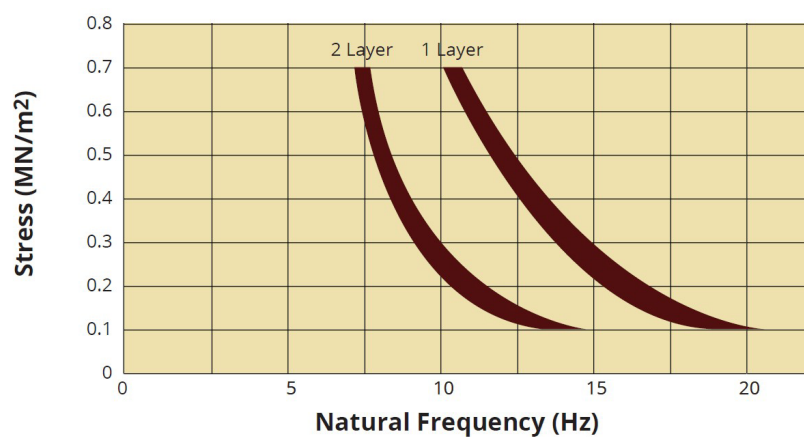
To use graph:

1. Calculate stress on pads MN/m^2 (see page 2 for formula).
2. Read from vertical axis across to desired pad thickness.
3. Read natural frequency (f_n) off horizontal axis.

LF/PA/10



LF/PA/80

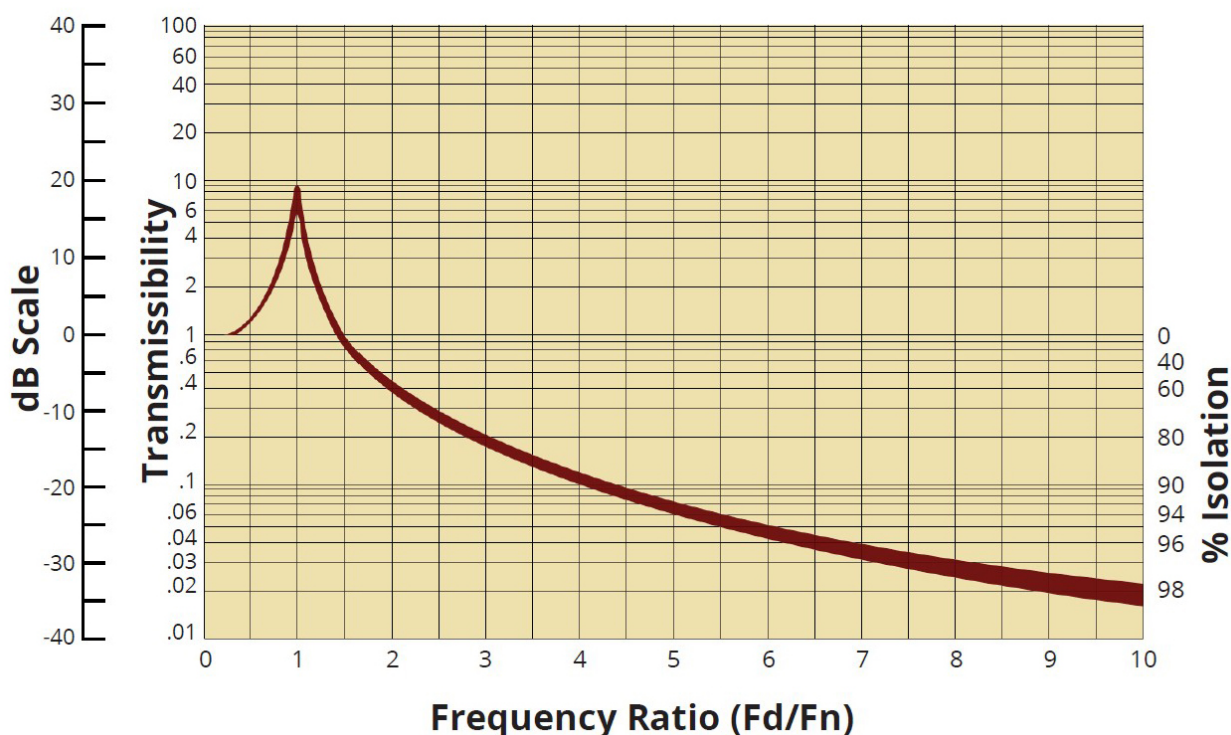


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Isolation Frequency

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.



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