



ISOMAT NR62

High Performance Vibration Isolation Material

FARRAT ISOMAT NR RANGE:



Why Choose Farrat Isomat NR62?

Farrat Isomat is a range of natural, neoprene and nitrile rubbers moulded into innovatively designed, constant shape-factor sheets to provide load bearing vibration isolation. It is used regularly in both structural and industrial applications around the world as full sheets, strips and individual pads.

Isomat NR62 exploits the properties of the highest grade of 62-IRHD natural rubber to provide high levels of noise and vibration isolation with moderate damping, while maintaining a low dynamic to static ratio.

Features

- › Materials tested and approved to BS 6177:1982 and BS EN 1337-3:2005
- › Very high resilience with moderate damping qualities
- › Low level of creep
- › Long working lifetime (>60 years)
- › Also available as neoprene CR (for enhanced chemical resistance) and nitrile rubber BR (for enhanced damping).

Can be supplied as full sheets, cut to size pads and strips (including holes and slots if required) according to the customer's requirements.

Applications

Farrat Isomat NR62 can be used in a wide range of vibration isolation applications, such as:

Full Area

- › Full building isolation (raft-slab)
- › Heavyweight partition support

Strips

- › Light/Medium weight partition support
- › Pre-cast concrete supports

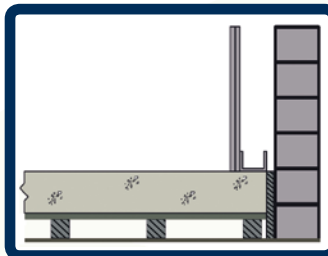
Pads

- › Acoustic floating floor isolators
- › Anti-vibration pads
- › Steel/timber frame isolation
- › Vibration isolation for machinery/plant
- › Isolated foundations for sensitive or high impact machinery

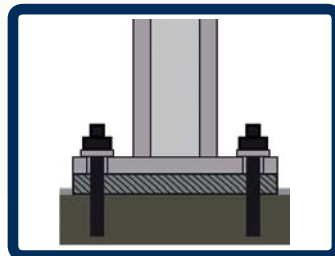
For more information on using Isomat NR62 (including standard details), please see the following Farrat Technical Brochures:

- › **Floating Floors**
- › **Full Building Isolation**

Available to download at: www.farrat.com/downloads

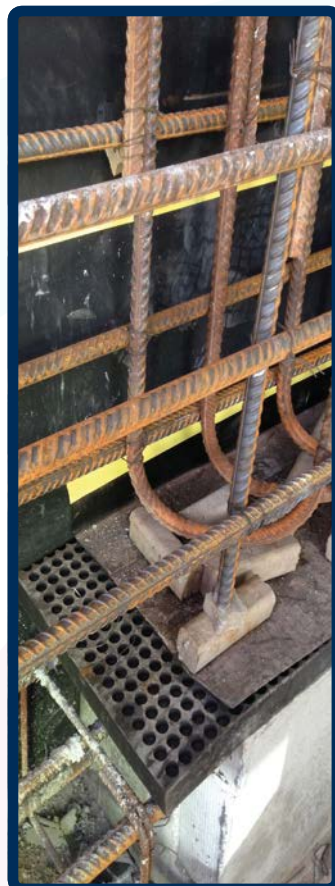
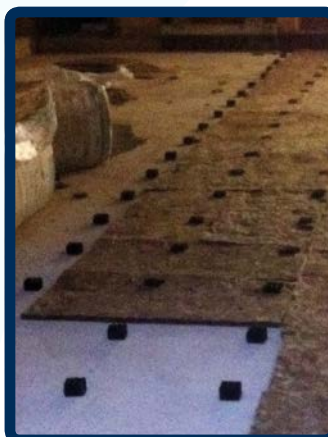


Isomat NR62 used as floating floor isolators



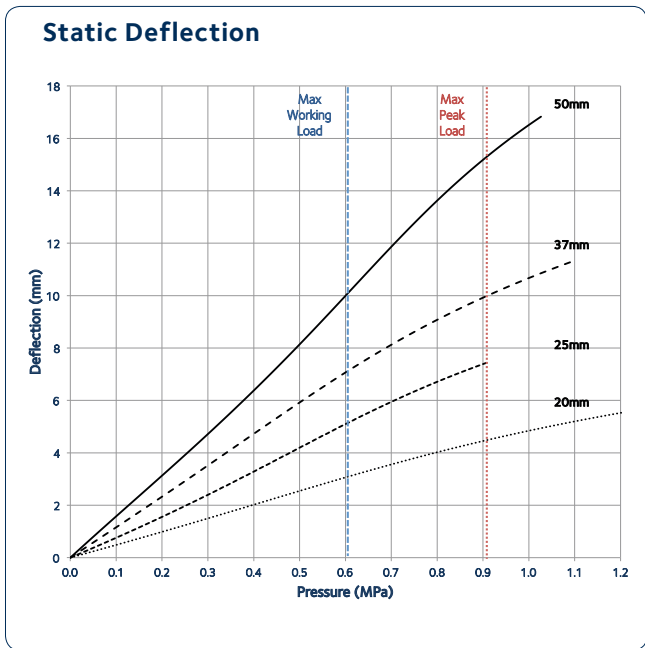
Isomat NR62 used as steel column isolation

Isomat NR62 site applications:



| CHARACTERISTICS | TEST STANDARD | PROPERTIES | UNIT |
|----------------------------------|------------------|------------|-------------------|
| Hardness | BS ISO 48:2010 | 62 (+/- 3) | IRHD |
| Density | BS EN ISO 845 | 800 | Kg/m ³ |
| Tensile Strength | BS ISO 37:2011 | 27.3 | N/mm ² |
| Elongation at Break | BS ISO 37:2011 | 606 | % |
| Compression Set (24hrs@70°C) | ISO 815-1:2008 | 25 | % |
| Tear Resistance Trouser Method A | ISO 34-1:2010 | 16.7 | kN/m |
| Static Shear Modulus | BS ISO 1827:2007 | 1.08 | N/mm ² |
| Creep | ISO 8013 : 2006 | 2.4 | % per decade |

| CHARACTERISTICS | TEST STANDARD | PROPERTIES | UNIT |
|--|--|-------------|-------------------|
| Static Compression Modulus, E _c | Varies with load/thickness - see graphs | | |
| Dynamic to Static Ratio | Determined using in-house test methodology | 2.3 | N/A |
| Damping Ratio, C/C _c @ f _n | | 4.8 | % |
| Max Static Pressure [Overload] | | 0.61 [0.92] | N/mm ² |
| Max Residual Compression After Overload | | 2.0 | % |
| Standard Sheet Size | +/-5% | 1010x505 | mm |
| Operating Temperature | N/A | -30 to +60 | °C |
| Operational Life | N/A | 60 | Years |



Key

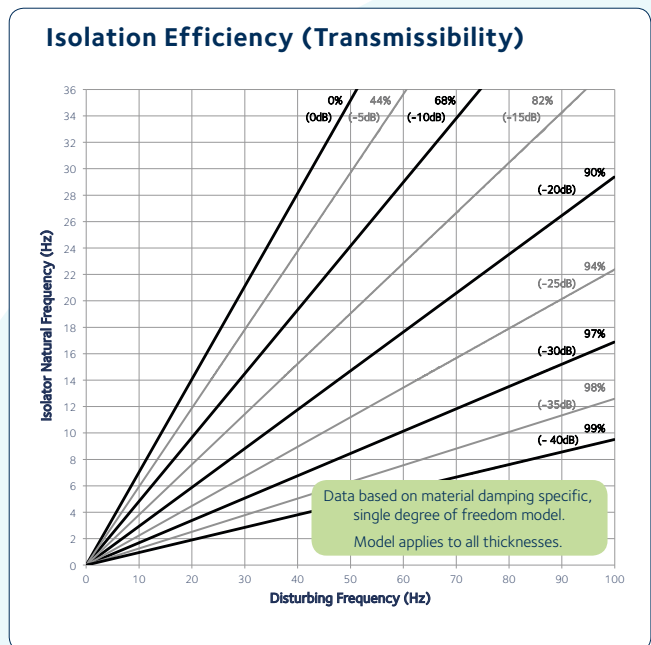
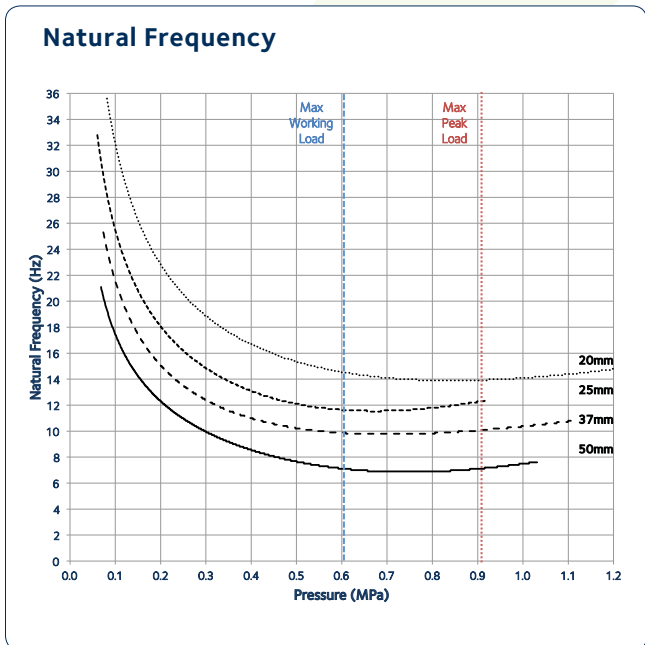
| | | | |
|-------|--------------|-----------|--------------|
| ————— | 50 mm | - - - - - | 37 mm |
| | 25 mm | | 20 mm |

Availability

| THICKNESS | TREAD (Bottom/Top) | STOCK |
|-----------|--------------------|-----------|
| 20 mm | Isomat/Plain | Non-Stock |
| 25 mm | Isomat/Treaded | Stock |
| 37 mm | Isomat/Plain | Non-Stock |
| 50 mm | Isomat/Isomat | Stock |

Typical Lead Times

| | |
|------------------------------------|-------------------|
| STOCK | 2-3 working days |
| NON-STOCK | 2-3 working weeks |
| BESPOKE | 4-6 working weeks |
| If cutting is required add +5 days | |



All information in this datasheet is for guidance only based on current knowledge and may be subject to change and correction.