

ISOMAT NR44

High Performance Vibration Isolation Material

Why Choose Farrat Isomat NR44?

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 NR44 exploits the properties of the highest grade of 44-IRHD natural rubber to provide very high levels of noise and vibration isolation with negligible damping, and a very low dynamic to static ratio.

Features

- ▶ Materials tested and approved to BS 6177:1982
- ▶ Very high resilience and low 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 NR44 can be used in a wide range of vibration isolation applications, such as:

Full Area

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

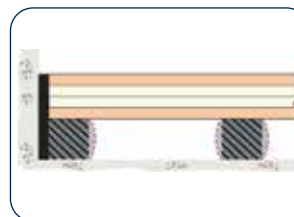
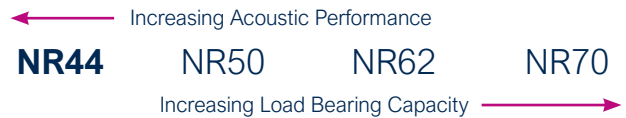
Strips

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

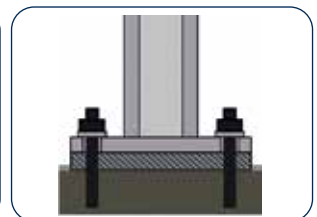
Pads

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

FARRAT ISOMAT NR RANGE:



Isomat NR44 used as floating floor isolators



Isomat NR44 used as steel column isolation

Isomat NR44 site applications:



For more information on using Isomat NR44 (including standard details), please see the following Farrat Technical Brochures:

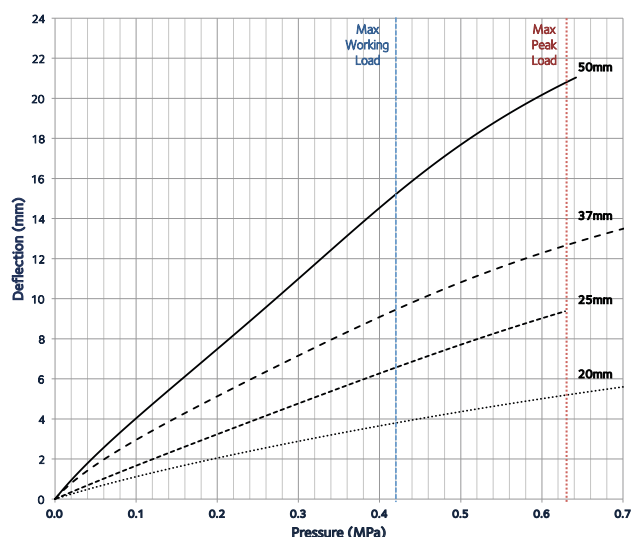
- ▶ **Floating Floors**
- ▶ **Full Building Isolation**

Available to download at: www.farrat.com

CHARACTERISTICS	TEST STANDARD	PROPERTIES	UNIT
Hardness	BS ISO 48:2010		IRHD
Density	BS EN ISO 845	100	Kg/m ³
Tensile Strength	BS ISO 37:2011	0.4	N/mm ²
Elongation at Break	BS ISO 37:2011	35	%
Compression Set (24hrs@70°C)	ISO 815-1:2008	E _{fl} , B2	N/A
Tear Resistance Trouser Method A	ISO 34-1:2010	35	%
Static Shear Modulus	BS ISO 1827:2011	E _{fl} , B2	N/A
Creep	ISO 8013 : 2006	35	%

CHARACTERISTICS	TEST STANDARD	PROPERTIES	UNIT
Static Compression Modulus	Varies with load/thickness – see graphs		
Dynamic to Static Ratio	Determined using in-house test methodology Test pad dimensions: 75 x 75mm	1.3	N/A
Damping Ratio @ f _n		2.0	%
Max Static Pressure [Overload]		0.42 [0.63]	N/mm ²
Max Residual Compression [Overload]	EN ISO 1856	2.0	%
Standard Sheet Size	+/-10%	1250x1000	mm
Operating Temperature	N/A	-30 to +60	°C
Operational Life	N/A	60	Years

Static Deflection



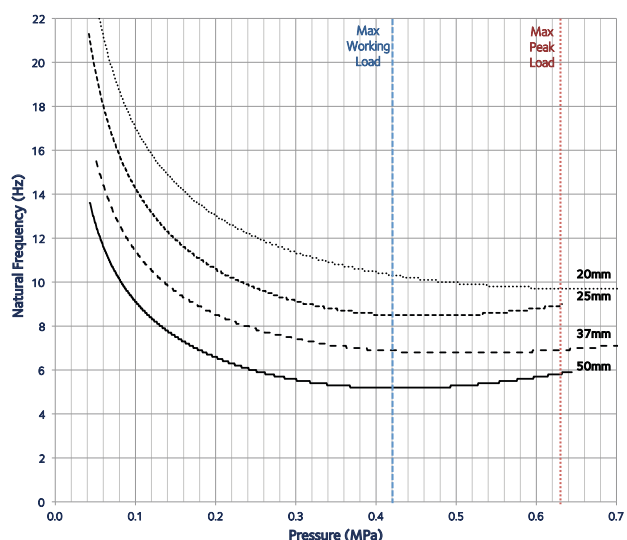
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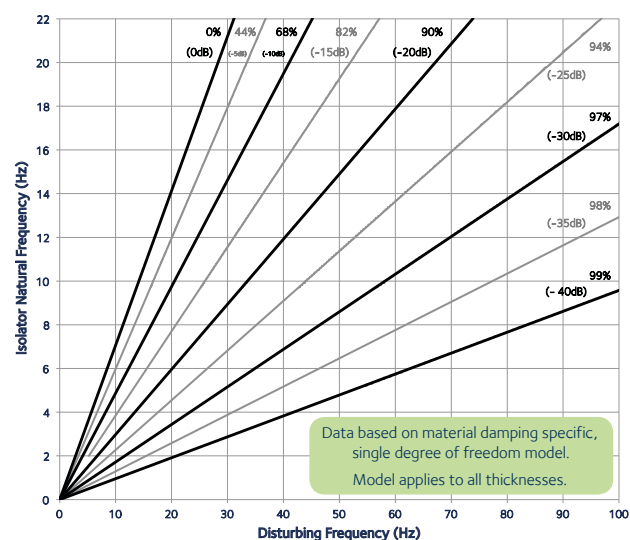
AVAILABILITY		
THICKNESS	TREAD (Bottom/Top)	STOCK
20 mm	Isomat/Plain	Non-Stock
25 mm	Isomat/Treaded	Stock
37 mm	Isomat/Plain	Non-Stock
50 mm	Isomat/Treaded	Stock

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

Natural Frequency



Isolation Efficiency (Transmissibility)



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