

Data Sheet

Vibisol® HLB-NR



The HLB-NR range of Vibisol's Vibration Isolation Materials have 3 mm thick stainless steel plates vulcanised to the top and bottom of the active rubber layer. The strength of the bond is stronger than the rubber itself and allows a significant boost to the load bearing capacity over an unreinforced rubber isolator, while maintaining a very high level of vibration isolation performance.

Isolators in this range are used regularly in both structural and industrial applications around the world as cut strips and individual pads, which can be made in any 2D profile.

HLB-NR 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
- ▶ Very high resilience and low damping qualities
- ▶ Low level of creep
- ▶ Long working lifetime (>60 years)
- ▶ Exceptional load bearing capacity (see over)
- ▶ 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.

Vibisol® HLB-NR

Steel Reinforced Natural Rubber

Applications

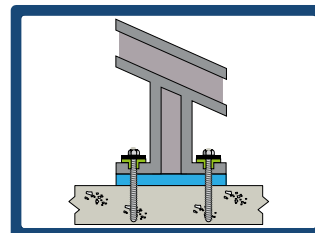
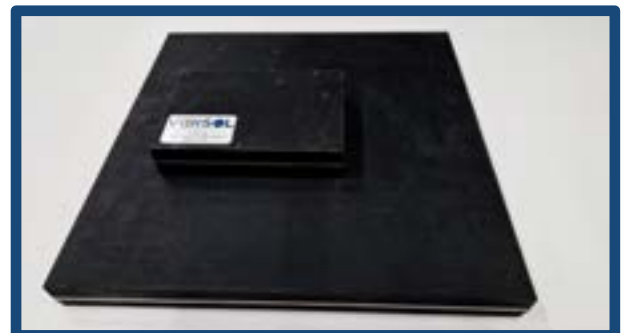
- ▶ HLB-NR can be used in a wide range of vibration isolation applications, such as:

Strips

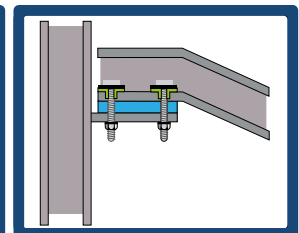
- ▶ Masonry Walls
- ▶ Corbels
- ▶ Lateral Load Buffers

Individual Pads

- ▶ Steel Frames
- ▶ Raked Seating Structures
- ▶ AHU's and M&E Plants Wind
- ▶ Posts
- ▶ SFS Frames



HLB used as a baseplate isolator



HLB used as a beam to column isolator



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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 2011	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. Test pad dimensions: 250 x 250mm		N/A
Damping Ratio, C/C _c @ f _n			%
Max Static Pressure [Overload]			N/mm ²
Max Residual Compression After Overload			%
Standard Sheet Size	+/-5%	1000 x 500	mm
Operating Temperature	N/A	-30 to +60	°C
Operational Life	N/A	60	Years

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