Farrat
ENGINEERS ON A MISSION

Data Sheet

VERLIMBER VR16 (Cyan)
Expanded Polyurethane Vibration Isolation Foam

Why choose Farrat VR16?

Farrat Verlimber is a range of premium grade vibration isolation materials used for low pressure applications. It is produced from high quality polyurethane using an innovative blown expansion method.

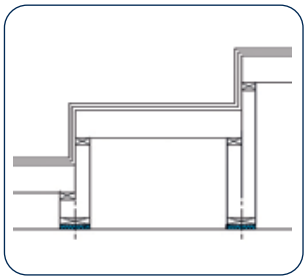
Farrat Verlimber VR16 provides excellent low frequency vibration isolation whilst withstanding high repeated strains without loss of performance. This allows very high levels of acoustic performance to be achieved in lightweight structures.

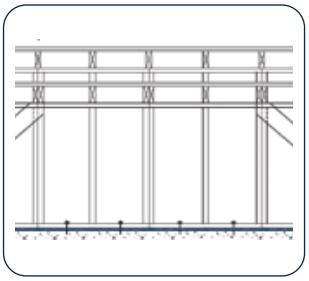
Farrat Verlimber Range:

← Increasing Acoustic Performance

VR16 **VR27** VR38

Increasing Load Bearing Capacity →





Verlimber VR16 used to isolate light-weight timber structures
See Farrat Application Document AVP-PLAS-14a for more information.

Features

- High resilience with very good low frequency isolation and damping performance.
- Excellent for repeated compression cycle applications (up to 45% strain)
- Long working lifetime (>60 years)
- Waterproof and non-absorbing
- Available in 270 grade (VR27) and 385 grade (VR38) for higher pressures

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 Verlimber VR16 can be used in a wide range of noise and vibration applications, such as:

Full Area
- Full building (raft-slab)
- Soil pressure bearing supports
- Movement joints

Strips
- Partition loading
- Corbels
- Timber frame supports

Pads
- Bespoke low-load isolation
- Steel/timber frame isolation
- General anti-vibration pads

For more information on using Verlimber VR16 (including standard details), please see the following Farrat Technical Brochures:

- **Applications - Cinemas**
- **Timber Stadia Seating**

Available to download at: www.farrat.com

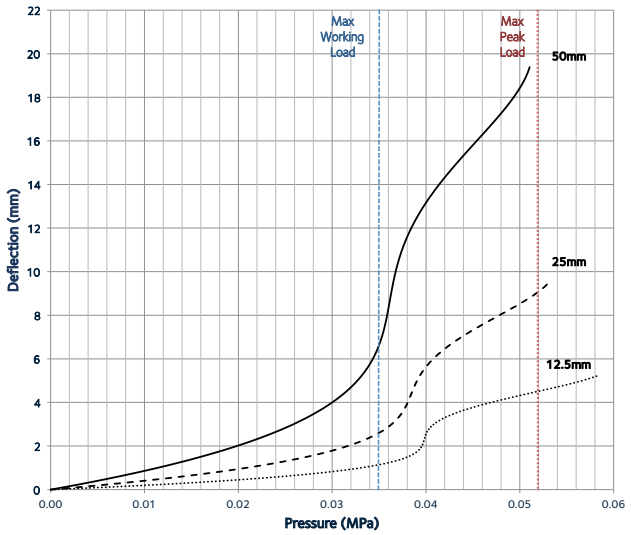
Verlimber VR16 site applications:

CHARACTERISTICS	TEST STANDARD	PROPERTIES	UNIT
Hardness	Asker C*	8 (+/-3)	IRHD
Density	BS EN ISO 845	160	Kg/m³
Tensile Strength	ISO 1798:2008	0.55	N/mm²
Elongation at Break	ISO 1798:2008	>250	%
Compression Set (70hrs@23°C)	ISO 1856:2000	<5	%
Water Absorption	Volume Swell - 7 Days*	<10	%
Creep	ISO 8013:2012*	3.2	% per decade

* Indicates value quoted has been converted from an equivalent standard, or where no standard exists, describes the methodology.

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	1.7	N/A
Damping Ratio, C/C_c @ f_n		9.4	%
Max Static Pressure [Overload]		0.035 [0.052]	N/mm²
Max Residual Compression After Overload		2.0	%
Standard Sheet Size	+/-2%	2000x1000	mm
Operating Temperature	N/A	-30 to +60	°C
Operational Life	N/A	60	Years

Static Deflection



Key

50mm

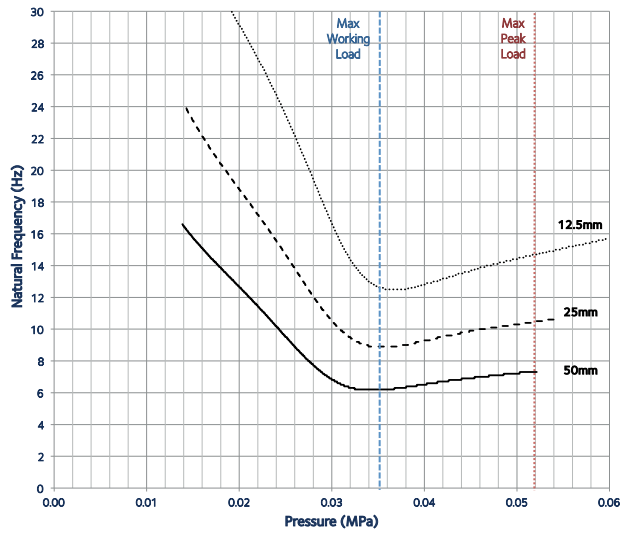
25mm

12.5mm

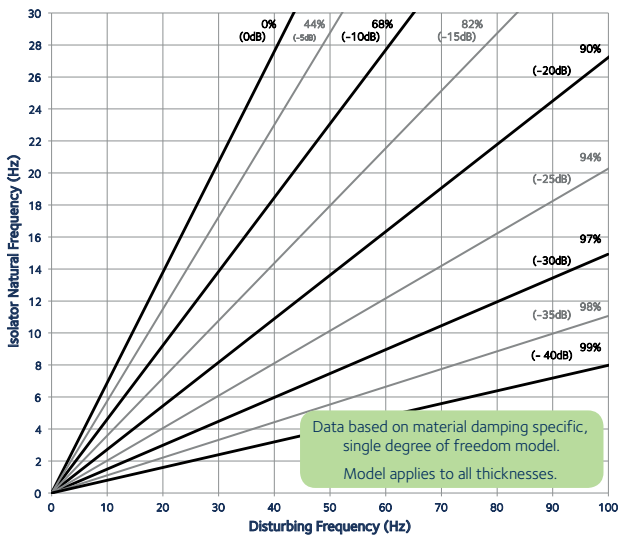
AVAILABILITY		
THICKNESS	TREAD (Bottom/Top)	STOCK
12.5 mm	Woven/Woven	Non-Stock
25 mm	Woven/Woven	Stock
Other up to 100 mm	Woven/Woven	Bespoke

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.