



VERLIMBER VR16 (Cyan)

Expanded Polyurethane Vibration Isolation Foam

FARRAT VERLIMBER RANGE:



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.

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 support
- › Movement joints

Strips

- › Partition loading
- › Corbels
- › Timber frame supports

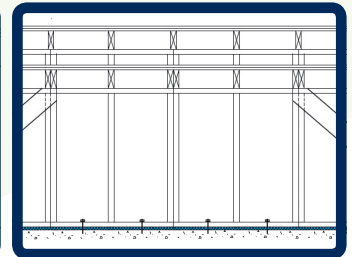
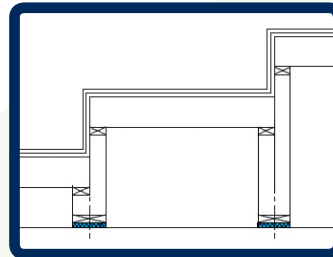
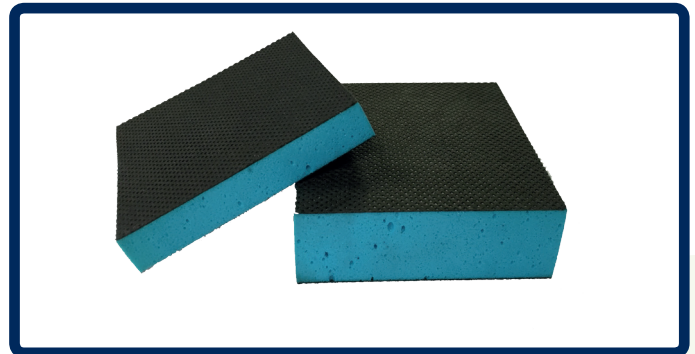
Pads

- › 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
- › Applications - Timber Stadia Seating

Available to download at: www.farrat.com



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

Verlimber VR16 site applications:

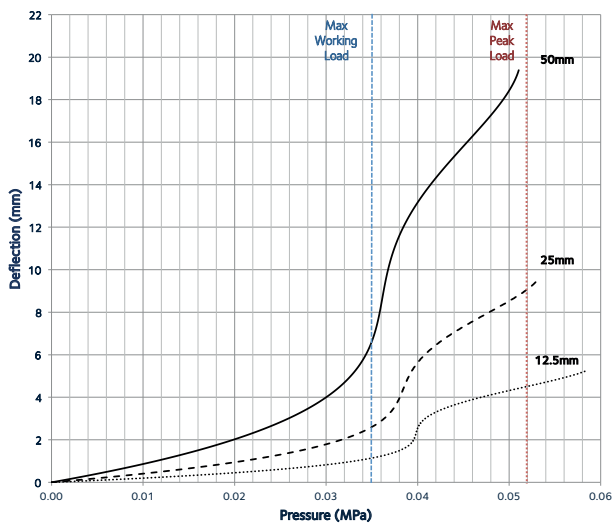


Hardness	Asker C*	8 (+/-3)	IRHD
Density	BS EN ISO 845	160	Kg/m ³
Tensile Strength	ISO 1798:2008	0.55	N/mm ²
Elongation at Break	ISO 1798:2008	>250	%
Compression Set (24hrs@70°C)	ISO 1856:2000	<5	%
Water Absorption	Volume Swell - 7 Days*	<10	%
Creep	ISO 8013:2012*	3.2	% per decade

* 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. Test pad dimensions: 75 x 75mm	1.7	N/A
Damping Ratio, C/C _c @ f _n		9.4	%
Max Static Pressure [Overload]		0.035 [0.052]	N/mm ²
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

—————	50 mm	12.5 mm
-----	25 mm		

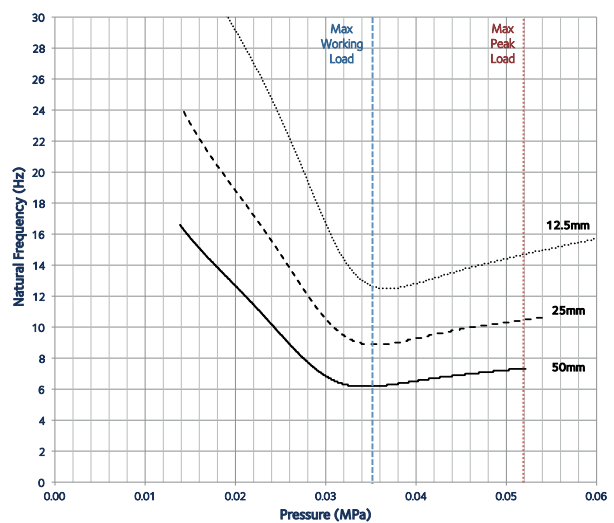
Availability

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

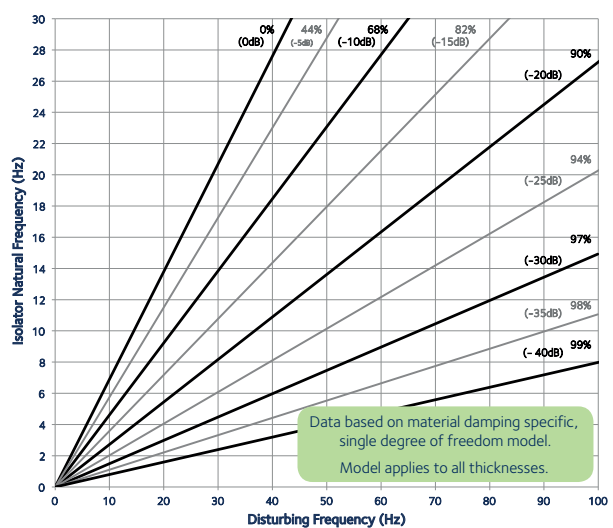
Typical Lead Times

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

Natural Frequency



Isolation Efficiency (Transmissibility)



Data based on material damping specific, single degree of freedom model.
Model applies to all thicknesses.

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



VERLIMBER VR27 (Violet)

Expanded Polyurethane Vibration Isolation Foam

FARRAT VERLIMBER RANGE:



Why choose Farrat VR27?

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 VR27 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.

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 160 grade (VR16) for lower pressures 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 VR27 can be used in a wide range of noise and vibration applications, such as:

Full Area

- › Full building (raft-slab)
- › Soil pressure bearing support
- › Movement joints

Strips

- › Partition loading
- › Corbels
- › Timber frame supports

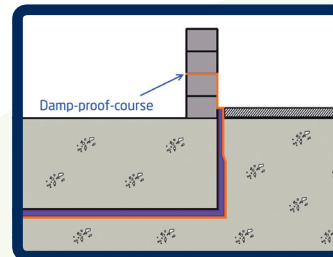
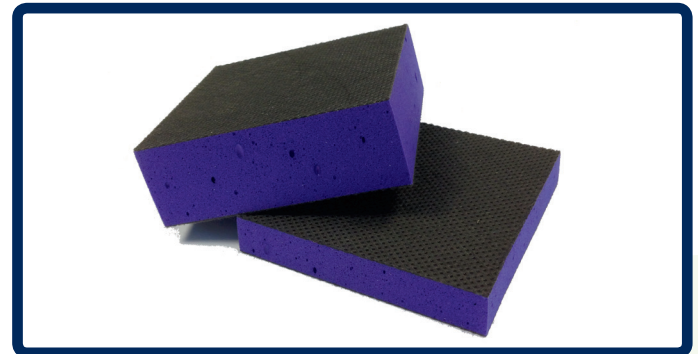
Pads

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

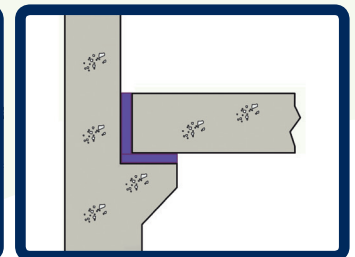
For more information on using Verlimber VR27 (including standard details), please see the following Farrat Technical Brochures:

- › **Applications - Cinemas**
- › **Full Building Isolation**

Available to download at: www.farrat.com

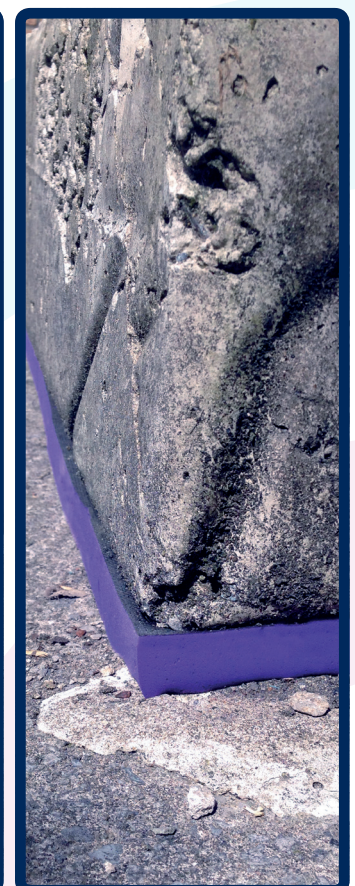


Verlimber VR27 used as raft-slab isolation



Verlimber VR27 used as corbel strip isolation

Verlimber VR27 site applications:

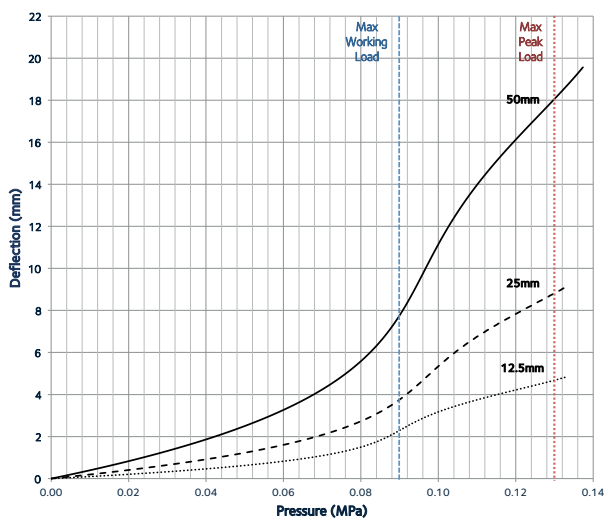


Hardness	Asker C*	13 (+/-3)	IRHD
Density	BS EN ISO 845	270	Kg/m ³
Tensile Strength	ISO 1798:2008	1.00	N/mm ²
Elongation at Break	ISO 1798:2008	>400	%
Compression Set (70hrs@23°C)	ISO 1856:2000	<5	%
Water Absorption	Volume Swell - 7 Days*	<10	%
Creep	ISO 8013:2012*	1.9	% per decade

* 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. Test pad dimensions: 75 x 75mm	1.4	N/A
Damping Ratio, $C/C_c @ f_n$		5.5	%
Max Static Pressure [Overload]		0.09 [0.13]	N/mm ²
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

—	50 mm	12.5 mm
- - - -	25 mm		

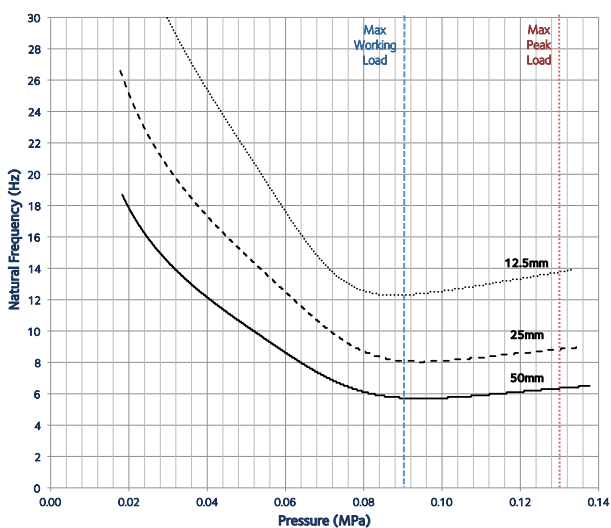
Availability

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

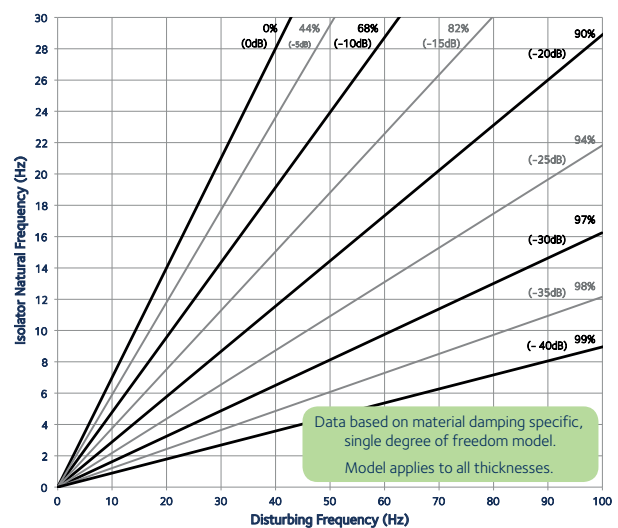
Typical Lead Times

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

Natural Frequency



Isolation Efficiency (Transmissibility)



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VERLIMBER VR38 (Graphite)

Expanded Polyurethane Vibration Isolation Foam

FARRAT VERLIMBER RANGE:



Why choose Farrat VR38?

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 VR38 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.

Features

- › High resilience with very good low frequency isolation and damping performance.
- › Excellent for repeated compression cycle applications (up to 40% strain)
- › Long working lifetime (>60 years)
- › Waterproof and non-absorbing
- › Available in 160 grade (VR16) and 270 grade (VR27) for lower 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 VR38 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

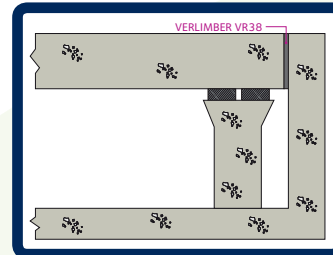
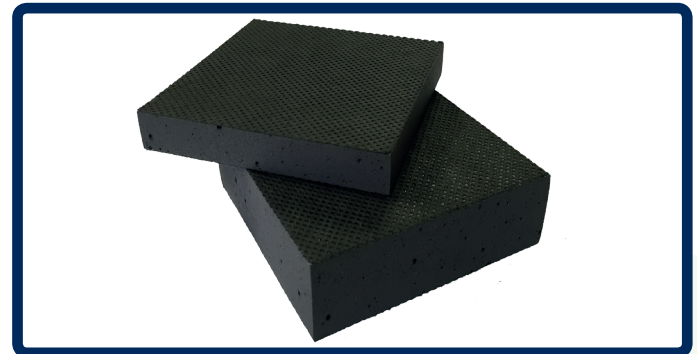
Pads

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

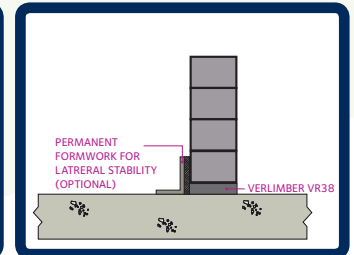
For more information on using Verlimber VR38 (including standard details), please see the following Farrat Technical Brochures:

- › Applications - Cinemas
- › Full Building Isolation

Available to download at: www.farrat.com

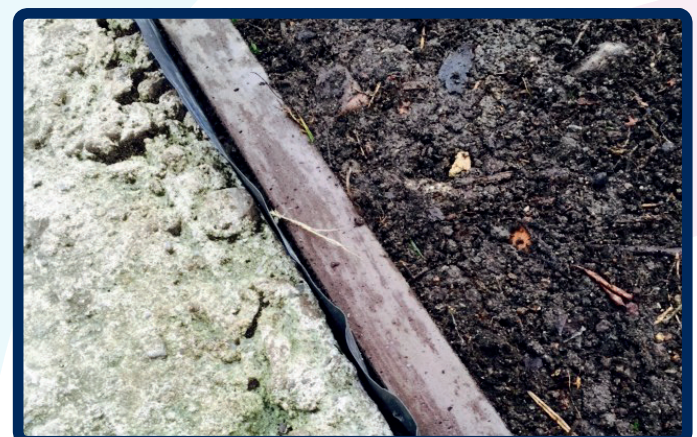


Verlimber VR38 used for soil pressure bearing isolation



Verlimber VR38 used for block work isolation

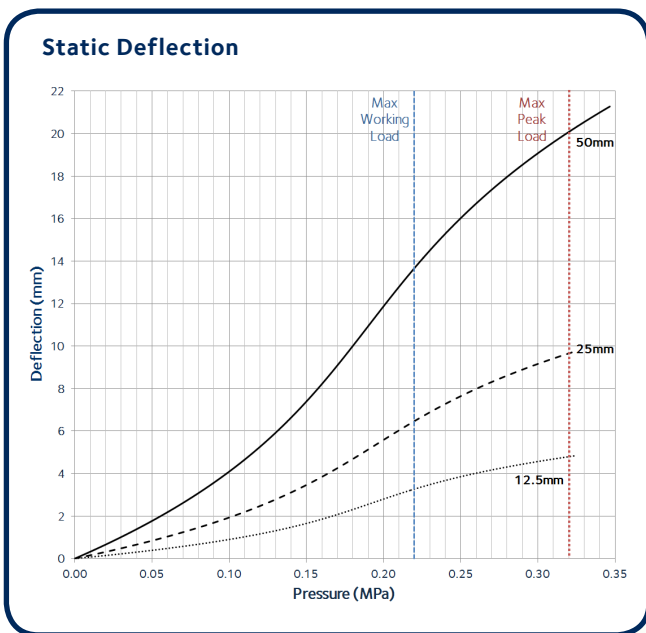
Verlimber VR38 site applications:



CHARACTERISTICS	TEST STANDARD	PROPERTIES	UNIT
Hardness	Asker C*	24 (+/-3)	IRHD
Density	BS EN ISO 845	385	Kg/m ³
Tensile Strength	ISO 1798:2008	1.9	N/mm ²
Elongation at Break	ISO 1798:2008	>400	%
Compression Set (70hrs@23°C)	ISO 1856:2000	<10	%
Water Absorption	Volume Swell - 7 Days*	<10	%
Creep	ISO 8013:2012*	1.7	% 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. Test pad dimensions: 75 x 75mm	1.5	N/A
Damping Ratio, C/C _c @ f _n		5.7	%
Max Static Pressure [Overload]		0.22 [0.32]	N/mm ²
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



Key

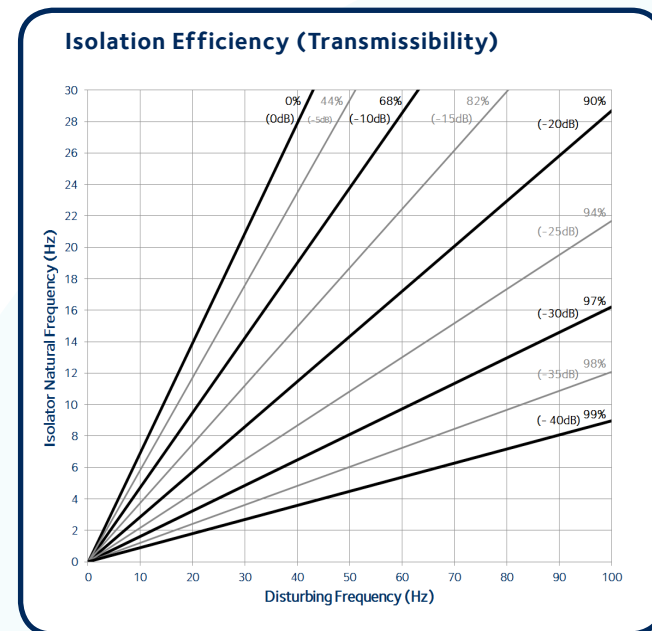
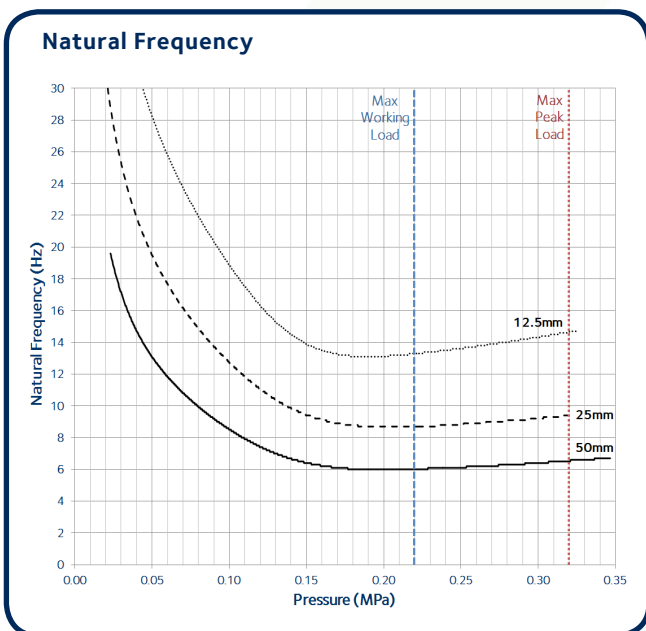
—	50 mm	12.5 mm
- - - -	25 mm		

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



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