

LVI Lateral Vibration Isolation material

Applications

Vibration damping and isolation material specifically designed for side wall vibration isolation of foundations. Particularly suited to **sensitive machinery such as printing machines**. Provides the best degree of isolation when used in conjunction with an **ISOMAT** or **FAVIM** isolated foundation base.

Construction: Recycled rubber particles with a polyurethane PUR binder.

Building materials class: B2

Standard Sheet Sizes: 1m x 0.5m x 50mm.
Pads, Strips and other sheet sizes available.

Farrat LVI 440 material		
Static Compression Modulus	N/mm ²	0.15-0.33
Dynamic Compression Modulus	N/mm ²	0.29-1*
Specific Static Spring Constant	N/mm/mm ²	0.006
Creep after 70 Hrs at max pressure	%	4
Max Static Pressure	kPa	100
Deflection at Maximum Pressure	mm	14.6
Natural Frequency Range	Hz	10-25
Operating Temperature Range	°C	-30 to 120
Standard Thickness	mm	50/25
Density	kg/m ³	440
* Dependant upon disturbing frequency		



ISF Isofoam Sidewall Vibration Isolation Material

Applications

Vibration damping and isolation material specifically designed for side wall vibration isolation of foundations. Can also be used as a base isolation material where required.

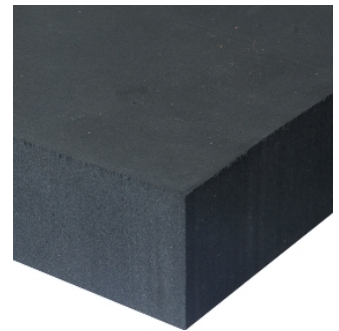
Provides the best degree of side wall isolation when used in conjunction with an **ISOMAT**, **FAVIM** or **ISOLAY** foundation base.

Construction: EPDM closed cell rubber foam.

Building materials class: B2

Standard Sheet Sizes: 2m x 1m and 1m x 1m.
Pads, Strips and other sheet sizes available.

Farrat ISF material		
Static Compression Modulus	N/mm ²	0.17
Dynamic Compression Modulus	N/mm ²	0.17-0.8*
Specific Static Spring Constant	N/mm/mm ²	0.007
Creep after 70 Hrs at max pressure	%	10
Max Static Pressure	kPa	100
Deflection at Maximum Pressure	mm	21.8
Natural Frequency Range	Hz	8-20
Operating Temperature Range	°C	-30 to 120
Standard Thickness	mm	50/45/40/25
Density	kg/m ³	150
* Dependant upon disturbing frequency		



FVF Void Filler Sidewall and Base Void Filler Material

Applications

FVF Void filler can be used as either a side wall void filler or a base void filler between **ISOMAT** isolators. Particularly useful when pouring inertia blocks to maintain a constant void between inertia block and surrounding structure.

Construction: Expanded styrene foam.

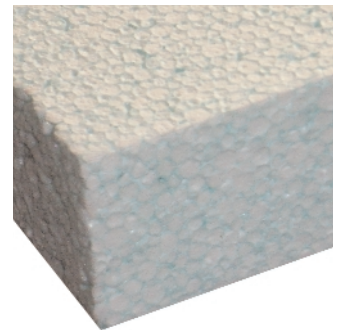
Building materials class: B2

Standard Sheet Sizes:

2.4m x 1.2m and 1.2m x 1.2m.

Pads, Strips and other sheet sizes available.

Farrat FVF material		
Static Compression Modulus	N/mm ²	0.4
Dynamic Compression Modulus	N/mm ²	N/A
Specific Static Spring Constant	N/mm/mm ²	0.011
Creep after 70 Hrs at max pressure	%	30
Max Static Pressure	kPa	50
Deflection at Maximum Pressure	mm	15
Natural Frequency Range	Hz	15-30
Operating Temperature Range	°C	-30 to 120
Standard Thickness	mm	50 / 25
Density FVF-10 (for bases)	kg/m ³	10
Density FVF-15 (for sidewall)	kg/m ³	15



LVI or ISF can be used on its own or in conjunction with a base isolation material e.g. Favim, Isolay or Isomat.

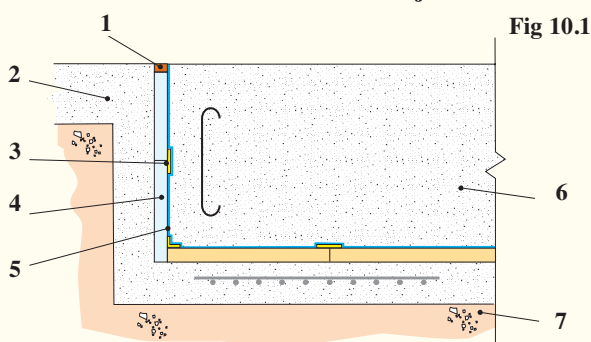


Fig 10.1

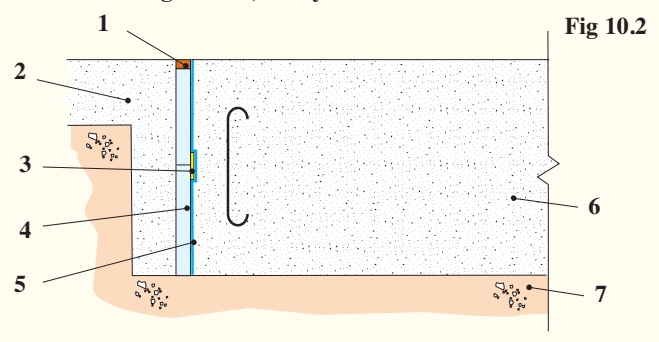


Fig 10.2

Description of Diagram

- 1) Polymeric sealant or sealing strip (Not supplied by Farrat)
- 2) Reinforced impermeable concrete to sides and base of pit. Thickness and concrete specification to be determined by ground and loading conditions.
- 3) **JLT** Joint line tape to all joints.
- 4) Farrat **LVI, ISF or FVF** side wall vibration isolation material, spot bonded to pit walls using **WB Adhesive**.
- 5) Damp proof membrane **DPM**. Minimum 1000gsm.
- 6) Steel cage reinforced concrete foundation block designed to support imposed dynamic and static loads and suitable for elastic support.
- 7) Consolidated hardcore base