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
<table>
<thead>
<tr>
<th>CHARACTERISTICS</th>
<th>TEST STANDARD</th>
<th>PROPERTIES</th>
<th>UNIT</th>
</tr>
</thead>
<tbody>
<tr>
<td>Static Compression Modulus, ( E_c )</td>
<td>Varies with load/thickness – see graphs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dynamic to Static Ratio</td>
<td>Determined using in-house test methodology.</td>
<td>1.7</td>
<td>N/A</td>
</tr>
<tr>
<td>Damping Ratio, ( C/C_c ) ( @ f )</td>
<td></td>
<td>9.4</td>
<td>%</td>
</tr>
<tr>
<td>Max Static Pressure ( (\text{Overload}) )</td>
<td>Test pad dimensions: 75 x 75mm</td>
<td>0.035</td>
<td>(0.052)</td>
</tr>
<tr>
<td>Max Residual Compression After Overload</td>
<td></td>
<td>2.0</td>
<td>%</td>
</tr>
<tr>
<td>Standard Sheet Size</td>
<td>+/-2%</td>
<td>2000x1000</td>
<td>mm</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>N/A</td>
<td>-30 to +60</td>
<td>°C</td>
</tr>
<tr>
<td>Operational Life</td>
<td>N/A</td>
<td>60</td>
<td>Years</td>
</tr>
</tbody>
</table>

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

**Static Deflection**

**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.