VITEROLITE® 900

non-combustible sound absorber

Viterolite® 900 is a non-combustible sound absorber ideally suited for areas which require no smoke emission, volatiles, toxic or noxious gases such as tunnels, air shafts or public areas. It is constructed using cement binding agents, ideally used in high wear, high impact and trafficable areas. It can be custom made into any shape or size. Typical custom applications include wall panels, road barriers, air shaft linings, rail and vehicle tunnels.

Viterolite® 900 has been engineered to optimize maximum sound absorption across a broad frequency range while maintaining a natural concrete-like appearance.

The product design allows for drainage due to the material's porous nature. It has the strength to handle foot traffic and light vehicles making it ideal for construction of walkways.

Viterolite® 900 can also be utilised around electrical components as it is non-conductive.

For more information on the available designs, please contact your local Pyrotek representative.

SPECIFICATIONS

<table>
<thead>
<tr>
<th>Colour</th>
<th>Grey cement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Available</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nominal density: 1800 kg/m³</td>
</tr>
<tr>
<td></td>
<td>Rail track tile design:</td>
</tr>
<tr>
<td></td>
<td>Thickness: 170 mm</td>
</tr>
<tr>
<td></td>
<td>Length: 700 mm</td>
</tr>
<tr>
<td></td>
<td>Width: 915 mm</td>
</tr>
<tr>
<td></td>
<td>Customised size and designs available depending on MOQ</td>
</tr>
</tbody>
</table>

applications

• Rail tunnels in-between tracks
• Underground train stations
• Outdoor road barriers or exterior walls
• Trafficable flooring areas
• Plant rooms and substations
• Areas requiring high fire safety
• Transport depots

features

• Non-combustible
• No smoke emission, no toxic or noxious fumes generated when exposed to fire
• Non-fibrous and non-toxic: safe to handle
• Trafficable: impact resistant from foot traffic and light vehicles
• Non-conductive
• Customizable to suit any application
• Rigid, durable and self supporting with high sound absorption
• High weather, water and UV resistance
• Free draining: porous to allow transfer of water
• Can be used in conjunction with other sound absorbing products to suit acoustic requirements
• Can be easily coated using any exterior paint
• Acoustic renders can be easily applied
• Easily cleaned using detergents or any pressure wash system
TECHNICAL DATA SHEET

PRODUCT SPECIFICATIONS

<table>
<thead>
<tr>
<th>Product</th>
<th>Nominal density</th>
<th>Standard thickness</th>
<th>Standard length</th>
<th>Standard width</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Viterolite® 900 Rail track tile design</td>
<td>1800 kg/m³</td>
<td>170 mm</td>
<td>700 mm</td>
<td>915 mm</td>
<td>190 kg</td>
</tr>
</tbody>
</table>

Tolerances: Length ±5 mm, Width ±5 mm, Thickness ±5 mm, Weight ±10%. Customised size and design available.

MATERIAL PROPERTIES

<table>
<thead>
<tr>
<th>Test method</th>
<th>Property</th>
<th>Report</th>
<th>Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS/NZS 3000</td>
<td>Electrical conductivity</td>
<td>PYRO-TT-001</td>
<td>Non-conductive</td>
</tr>
<tr>
<td>AS 1530.1 / ISO 1182</td>
<td>Fire resistance</td>
<td>FNC11917</td>
<td>Non-combustible</td>
</tr>
<tr>
<td>AS 1530.3</td>
<td>Method for fire tests on building materials, components and structures</td>
<td>17-005996</td>
<td></td>
</tr>
<tr>
<td>AS 1657, AS 4586</td>
<td>Fixed platforms, walkways, stairways and ladders: Slip resistance classification of new pedestrian surface materials</td>
<td>R16545a</td>
<td>Slip resistant class P5 (Appendix A) D1 (Appendix B)</td>
</tr>
<tr>
<td>Design Life and maintenance</td>
<td>Service life assessment</td>
<td>DRM-17-L01R-10929</td>
<td>30 years with proper use, installation and maintenance</td>
</tr>
<tr>
<td>ASTM D5116</td>
<td>TVOC Specific area emission rate</td>
<td>CV180902</td>
<td>Emissions are less than Green Star recognised threshold of 0.5 mg/m²/hr</td>
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</tbody>
</table>

ACOUSTIC PERFORMANCE

<table>
<thead>
<tr>
<th>Frequency (Hz)</th>
<th>Viterolite® 900 - Rail Track Tile Absorption Coefficient (α)</th>
</tr>
</thead>
<tbody>
<tr>
<td>100</td>
<td>0.21</td>
</tr>
<tr>
<td>125</td>
<td>0.37</td>
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<tr>
<td>160</td>
<td>0.58</td>
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<tr>
<td>200</td>
<td>0.56</td>
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<tr>
<td>250</td>
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<tr>
<td>315</td>
<td>0.96</td>
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<tr>
<td>400</td>
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<tr>
<td>500</td>
<td>0.68</td>
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<tr>
<td>630</td>
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<tr>
<td>800</td>
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<tr>
<td>1000</td>
<td>0.74</td>
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<tr>
<td>1250</td>
<td>0.76</td>
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<tr>
<td>1600</td>
<td>0.79</td>
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<tr>
<td>2000</td>
<td>0.73</td>
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<tr>
<td>2500</td>
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<td>3150</td>
<td>0.70</td>
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<tr>
<td>4000</td>
<td>0.72</td>
</tr>
<tr>
<td>5000</td>
<td>0.73</td>
</tr>
<tr>
<td>NRC</td>
<td>0.75</td>
</tr>
<tr>
<td>SAA</td>
<td>0.76</td>
</tr>
<tr>
<td>αw</td>
<td>0.75 (L)</td>
</tr>
</tbody>
</table>

Tested to ISO 354:2003 at CSIRO, Australia | Report Number: AC219-01-1
The above results are based on the Viterolite® 900 rail track tile design.