Linacoustic RC is a flexible duct liner insulation made from strong, glass fibers bonded with a thermosetting resin. The airstream surface is protected with JM’s exclusive Reinforced Coating system, which combines our state-of-the-art Permacote® acrylic coating with a flexible glass mat reinforcement to provide a smooth airstream surface.

Factory-Applied Edge Coating
Edge coating is factory applied to the edges of the liner core, ensuring coverage of the leading edges per NAIMA/SMACNA requirements. Shop fabrication cuts may be coated with SuperSeal® edge treatment (refer to publication AHS-202).

Uses
Linacoustic RC is specifically designed for lining sheet metal ducts in air conditioning, heating and ventilating systems, providing superior acoustical and thermal performance.

General Properties
- Operating temperature (max.) – ASTM C 411 250°F (121°C)
- Air velocity (max.) – ASTM C 1071 6000 fpm (30.5 m/sec)
- Water repellency – INDA IST 80.6 ≥6
- Fungi resistance – ASTM C 1338 Does not breed or promote
- Fungi resistance – ASTM G 21 No growth
- Bacteria resistance – ASTM G 22 No growth

Standard Thicknesses and Packaging

<table>
<thead>
<tr>
<th>Thickness</th>
<th>Roll Length</th>
<th>Roll Widths for All Thicknesses*</th>
</tr>
</thead>
<tbody>
<tr>
<td>in</td>
<td>mm</td>
<td>lineal feet</td>
</tr>
<tr>
<td>½</td>
<td>13</td>
<td>100, 150, 200 31, 46, 61</td>
</tr>
<tr>
<td>1</td>
<td>25</td>
<td>50, 100, 150, 200 15, 31, 46, 61</td>
</tr>
<tr>
<td>1½</td>
<td>38</td>
<td>50, 100</td>
</tr>
<tr>
<td>2</td>
<td>51</td>
<td>50</td>
</tr>
</tbody>
</table>

*Available in ¼” (6.4 mm) increment
Contact your Regional Sales Office for stock items and availability of special sizes.

Surface Burning Characteristics
Linacoustic RC meets the Surface Burning Characteristics and Limited Combustibility of the following standards:

Standard/Test Method
- ASTM E 84
- UL 723
- NFPA 255
- NFPA 90A and 90B
- NFPA 259
- CAN/ULC S102-M88

UL labels supplied on packages when requested on order.

Green Building Attributes
GREENGUARD® certification is not intended for residential environments. Instead, the certification is intended only for buildings meeting ASHRAE 62.1-2007 commercial building ventilation rates. This certification is proof that the product meets the GREENGUARD Environmental Institute’s indoor air quality standards and product emission standards for VOCs.

Advantages
- Improves Indoor Building Environment. Linacoustic RC improves indoor environmental quality by helping to control both temperature and sound.
- Resistant to Dust and Dirt. The tough acrylic polymer Permacote coating helps guard against the incursion of dust or dirt into the substrate, minimizing the potential for biological growth.
- Will Not Support Microbial Growth. Permacote coating is formulated with an immobilized, EPA-registered, protective agent to protect the coating from potential growth of fungus and bacteria.
- Linacoustic RC duct liner meets all requirements for fungi and bacterial resistance. Tests were conducted in accordance with ASTM C 1338 and ASTM G 21 (fungi testing) and ASTM G 22 (bacteria resistance testing). Detailed information is available in Johns Manville fact sheet HSE-103FS.
- Note: As with any type of surface, microbial growth may occur in accumulated duct system dirt, given certain conditions. This risk is minimized with proper design, filtration, maintenance and operation of the HVAC system.
- Cleanability. If HVAC system cleaning is required, the Reinforced Coating airstream surface may be cleaned with industry-recognized dry methods. See the North American Insulation Manufacturers Association (NAIMA) “Cleaning Fibrous Glass Insulated Air Duct Systems.”
- Highly Resistant to Water. The Reinforced Coating surface provides superior resistance to penetration of incidental water into the fiber glass wool core.

Specification Compliance
- ASTM C 1071, Type I
- ICC Compliant
- California Title 24
- MEA #353-93-M
- ASHRAE 62
- SMACNA Application Standards for Duct Liners
- NAIMA Fibrous Glass Duct Liner Installation Standard
- Canada: CGSB 51-9P-11M and CAN/CGSB 51.11
Linacoustic® RC
Fiber Glass Duct Liner with Reinforced Coating System

Installation
Linacoustic RC installation must be performed in accordance with the requirements of the NAIMA Fibrous Glass Duct Liner Standards or SMACNA HVAC Duct Construction Standard. All transverse edges, or any edges exposed to airflow, must be coated with an approved duct liner coating material, such as Johns Manville SuperSeal products.

Minimizes Pre-installation Damage. Linacoustic RC’s Reinforced Coating System is highly resistant to damage that can occur during in-shop handling, fabrication, jobsite shipping and installation.

Easy to Fabricate. Linacoustic RC is light in weight and easy to handle. Clean, even edges can be accurately cut with regular shop tools.

Thermal Performance

<table>
<thead>
<tr>
<th>Thickness</th>
<th>R-value</th>
<th>Conductance</th>
</tr>
</thead>
<tbody>
<tr>
<td>in</td>
<td>mm</td>
<td>(hr•ft²•°F)/Btu</td>
</tr>
<tr>
<td>½</td>
<td>13</td>
<td>2.2</td>
</tr>
<tr>
<td>1</td>
<td>25</td>
<td>4.2</td>
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<tr>
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<td>38</td>
<td>6.3</td>
</tr>
<tr>
<td>2</td>
<td>51</td>
<td>8.0</td>
</tr>
</tbody>
</table>

R-value and conductance are calculated from the material thermal conductivity tested in accordance with ASTM C 518 at 75°F (24°C) mean temperature.

Sound Absorption Coefficients (Type “A” Mounting)

<table>
<thead>
<tr>
<th>Thickness</th>
<th>125</th>
<th>250</th>
<th>500</th>
<th>1000</th>
<th>2000</th>
<th>4000</th>
<th>NRC</th>
</tr>
</thead>
<tbody>
<tr>
<td>in</td>
<td>mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>½</td>
<td>13</td>
<td>0.07</td>
<td>0.20</td>
<td>0.44</td>
<td>0.66</td>
<td>0.84</td>
<td>0.93</td>
</tr>
<tr>
<td>1</td>
<td>25</td>
<td>0.08</td>
<td>0.31</td>
<td>0.64</td>
<td>0.84</td>
<td>0.97</td>
<td>1.03</td>
</tr>
<tr>
<td>1½</td>
<td>38</td>
<td>0.10</td>
<td>0.47</td>
<td>0.85</td>
<td>1.01</td>
<td>1.02</td>
<td>0.99</td>
</tr>
<tr>
<td>2</td>
<td>51</td>
<td>0.25</td>
<td>0.66</td>
<td>1.00</td>
<td>1.05</td>
<td>1.02</td>
<td>1.01</td>
</tr>
</tbody>
</table>

Coefficients were tested in accordance with ASTM C 423 and ASTM E 795.

ISO 9000 Certification

Johns Manville mechanical insulation products are designed, manufactured and tested in our own facilities, which are certified and registered to stringent ISO 9000 (ANSI/ASQC 90) series quality standards. This certification, along with regular, independent third-party auditing for compliance, is your assurance that Johns Manville products deliver consistent high quality.