QuietZone® Spiral Duct Liner

**Description**
QuietZone® Spiral Duct Liner enhances indoor environmental quality by absorbing noise and by lowering heat loss or gain through duct walls.

**Key Features**
- Outstanding thermal and acoustical performance.
- Economical, cost effective alternative to round double-wall configuration air ducts.
- Cleanable surface with a black mat facing that provides a smooth, durable surface making it easier to clean the duct liners using methods and equipment described in North American Insulation Manufacturers Association (NAIMA) Publication AH122, Cleaning Fibrous Glass Insulated Duct Systems: Recommended Practice.
- Bacterial and fungal growth resistant with an EPA registered biocide that protects the airstream surface from microbial growth.

**Product Applications**
QuietZone® Spiral Duct Liner is not recommended for the following applications:

**Limitations**
A. Ducts which will be subjected to operating temperatures exceeding 250°F (inside surface).
B. Ducts which will be subjected to temperatures exceeding 150°F on the outside surface.
C. Kitchen or fume exhaust ducts or to convey solids or corrosive gases.
D. Burying in concrete or buried below grade.
E. Installation immediately adjacent to high-temperature electric heating coils without radiation protection and to equipment such as evaporative coolers, humidifiers, cooling coils and outside intakes.
F. With coal or wood-fueled equipment, or with equipment of any type which does not include automatic maximum temperature controls.
G. Ducts which will be subject to liquid water, liner should be protected with a sheet metal sleeve and drip pan adjacent.
H. Inside fire damper sleeves.
I. When duct systems run through unconditioned space and are used for cooling only (when heating is from another source), register openings must be tightly sealed to prevent accumulation of water vapor in the duct system during the heating season.

**Installation**
Refer to Owens Corning™ QuietZone® Spiral Duct Liner installation manual for proper installation of the liner.

When required, duct liner coating should be designed for HVAC interior ductwork that contains an EPA-registered antimicrobial (biocide). The coating is applied to the edges, fabrication cuts, and repair of airstream surface when needed.

**Technical Information**

**Tips to Avoid Mold Growth in Ducts**
Mold in duct systems occurs when moisture comes into contact with dirt or dust collected on the duct system surfaces. Proper filters will minimize the collection of dust and dirt, but care needs to be exercised to prevent water accumulation.
formation in the duct. A properly sized, installed and operated air conditioning unit will minimize the likelihood of water formation. The system must be maintained and operated to insure that sufficient dehumidification is occurring and that filters are installed and changed as recommended by the equipment manufacturer.

Standards, Codes Compliance

- National Fire Protection Association Standards NFPA 90A/90B
- ICC International Mechanical Code
- NYC MEA# 186-69
- Meets requirements of ASTM C1338, ASTM G21, (fungi test) and ASTM G22 (bacteria test).

Certifications and Sustainable Features of QuietZone® Spiral Duct Liner

- Certified by SCS Global Services to contain a minimum of 53% recycled glass content, 31% pre-consumer and 22% post-consumer.
- Certified to meet indoor air quality standards under the stringent GREENGUARD Certification Program and the GREENGUARD Gold Certification*.

* Duct Liner up to and including 1” is GREENGUARD Gold Certified.

Environmental and Sustainability

Owens Corning is a worldwide leader in building material systems, insulation and composite solutions, delivering a broad range of high-quality products and services. Owens Corning is committed to driving sustainability by delivering solutions, transforming markets and enhancing lives. More information can be found at http://sustainability.owenscorning.com.

Notes:

QuietZone® Spiral Duct Liner is tailored to fit your specific duct size, so compression at grooves and joints is kept to a minimum, providing consistent thermal performance throughout the entire duct system.

Product Availability

QuietZone® Spiral Duct Liner is available in the following thickness and board sizes:

<table>
<thead>
<tr>
<th>Thickness</th>
<th>48&quot; x 120&quot; x 1&quot; thickness (1,220mm x 3,048mm x 25mm)</th>
<th>48&quot; x 120&quot; x 1½&quot; thickness (1,220mm x 3,048mm x 38mm)</th>
<th>48&quot; x 120&quot; x 2&quot; thickness (1,220mm x 3,048mm x 51mm)</th>
</tr>
</thead>
</table>

Thermal Performance

at 75°F (24°C) Mean Temperature

<table>
<thead>
<tr>
<th>Thickness</th>
<th>R-value: ft²•°F/ BTU (RSl: m²•K/W)</th>
<th>k-value: BTU•hr•ft²•°F (I W/m²•°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; (25mm)</td>
<td>4.3 (0.76)</td>
<td>0.23 (0.033)</td>
</tr>
<tr>
<td>1½&quot; (38mm)</td>
<td>6.5 (1.15)</td>
<td>0.23 (0.033)</td>
</tr>
<tr>
<td>2&quot; (51mm)</td>
<td>8.70 (1.53)</td>
<td>0.23 (0.033)</td>
</tr>
</tbody>
</table>

Acoustical Performance

Sound absorption coefficients at octave band center frequencies, Hz.

<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>1&quot;</td>
<td>0.08</td>
<td>0.19</td>
<td>0.69</td>
<td>0.94</td>
<td>0.99</td>
<td>0.98</td>
<td>0.70</td>
</tr>
<tr>
<td>1½&quot;</td>
<td>0.12</td>
<td>0.33</td>
<td>0.92</td>
<td>1.04</td>
<td>1.03</td>
<td>1.02</td>
<td>0.85</td>
</tr>
<tr>
<td>2&quot;</td>
<td>0.14</td>
<td>0.72</td>
<td>1.15</td>
<td>1.12</td>
<td>1.06</td>
<td>1.07</td>
<td>1.00</td>
</tr>
</tbody>
</table>

This data was collected using a limited sample size and are not absolute values. Therefore, reasonable tolerances must be applied. Tests were conducted in accordance with ASTM C423, Mounting A (material applied against a solid backing.)

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SCS Global Services provides independent verification of recycled content in building materials and verifies recycled content claims made by manufacturers.

For more information, visit www.SCSglobalservices.com.

GREENGUARD Certified products are certified to GREENGUARD standards for low chemical emissions into indoor air during product usage. For more information, visit ul.com/gg.