The structure of Lumira® aerogel inhibits sound and vibration transmission not just by blocking, but by absorbing sound energy, creating significant sound control by reducing external and internal noise transfer.

Reduce your carbon footprint

Energy is a key part of the sustainability concept. It is widely acknowledged that the construction, occupation and running of buildings accounts for close to half of all energy consumption in the USA and Europe. Not only can Lumira aerogel save energy and reduce CO2 emissions, it is also reusable when the building is decommissioned. Lumira aerogel is safe for human and ecological systems, and is manufactured with little to no impact on the environment. This means including daylighting systems with Lumira insulation in building designs can help create healthier living, recreational and work spaces, and can assist in securing LEED™ certification and meet or exceed stringent building codes such as Part L in the UK, Energieinsparverordnung in Germany, and Reglementation Technique in France. Lumira aerogel holds Silver Cradle to Cradle™ certification from McDonough Braungart Design Chemistry. Cabot Aerogel is also a member of the American Architectural Manufacturers Association and the US Green Building Council.

About Lumira® Aerogel

Aerogel is among the lightest and most effective insulating materials in the world. Cabot’s Lumira® brand aerogel is a solid which consists of air (>90%) contained in a structure with pore sizes less than the mean free path of air molecules, which severely inhibits heat transfer through the material, enabling world-class performance. Cabot produces Lumira aerogel at the state-of-the-art manufacturing facility located near Frankfurt, Germany where it began commercial production in 2003.

Hear the difference

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Studies show that comfort, productivity, learning and customer consumption/retention are directly improved by the tactical use of natural light as the primary source of illumination in workplaces, schools, hospitals, homes, and retail environments. Traditionally, this has resulted in a compromise, as the conventional materials used to transmit natural light have demonstrated an inability to insulate, while highly insulative materials have been unable to transmit meaningful quantities of daylight. Current transparent daylighting systems, while allowing maximum daylight, also bring problems such as glare, indoor overheating, drafts, hot spots and high contrast zones. Harnessing the exclusive properties of Lumira® aerogel for use in daylighting systems has changed all that, with:

- Unsurpassed thermal insulation – R-value of 8 per inch / U-value of 0.75 W/m2K per 25 mm
- Increased natural light transmission – 50% or 2.64 inch or 10mm
- Superior light diffusion – elimination of glare
- Improved acoustic performance
- Reduced solar heat gain/loss
- Decreased energy consumption – heat, air conditioning, lighting, ventilation, carbon emissions
- Unmatched moisture resistance – 100% hydrophobic
- Exceptional color-stability and insulation performance

Lumira® aerogel offers high performance daylighting systems to deliver a range of design benefits. Whether the installation is horizontal, vertical or at an angle, Lumira insulation retains its properties, enabling unflinching thermal efficiency while allowing exceptional daylight and optimized building aesthetics without sacrificing, making the choice easy when compared to Lumira aerogel, which allows daylighting products to deliver a range of R-values from 6 to 20 (U-value of 0.28 to 0.3) while harnessing essential natural daylight.

Why Lumira® aerogel?

Cabet partners with architects and building owners to understand their evolving needs, providing solutions that optimize aesthetics and daylighting design while addressing increasingly stringent building and energy code requirements. As a global leader in infrastructure solutions, Cabet products are developed with transparent challenges in mind. Translucent Lumira aerogel maintains and enhances energy efficiency while enabling a wide range of commercial and residential building design choices, allowing architects and building owners to proactively reduce the carbon footprint of their buildings. The inclusion of Lumira aerogel in daylighting systems virtually eliminates the trade-off of insulation vs. natural light by providing 2 to 6 times the thermal performance of traditional, poorly Insulated fenestration products, while maintaining optimal light transmission. As a result, even large daylight surface areas can maintain high energy efficiency by reducing thermal loads.

Insulation values of existing building insulation products

| Insulation Material | R-value per inch | U-factor per square foot
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Fiberglass batts</td>
<td>3.0</td>
<td>0.43</td>
</tr>
<tr>
<td>Mineral wool bat</td>
<td>3.5</td>
<td>0.37</td>
</tr>
<tr>
<td>Fiberglass blanket</td>
<td>2.2</td>
<td>0.55</td>
</tr>
<tr>
<td>Fiberglass fiberglass blanket</td>
<td>1.5</td>
<td>0.95</td>
</tr>
<tr>
<td>Rock wool</td>
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When incorporated into the following systems, in both roofs and facades, Lumira® aerogel offers architects and building owners a multitude of design benefits. Whether the installation is horizontal, vertical or at an angle. Lumira insulation retains its properties, enabling unflinching thermal efficiency while allowing exceptional daylight and optimized building aesthetics without sacrificing, but actually improving occupant comfort and productivity by Lumira daylighting systems projects have been installed all over the world. Visit our website, www.cabotaerogel.com, for project profiles and more information.

Insulated/Covered units

High performance daylighting

Structural Polycarbonate Skylights and Facades

Polycarbonate Skylight Systems

High efficiency, lower costs

Strengthening the customary weak link of the building envelope with high performance Lumira daylighting systems considerably impacts cost and energy efficiency in a variety of ways. The natural light diffusion and glare elimination provided by Lumira aerogel can replace or supplement artificial lighting, resulting in significant energy and demand savings. Heat loss and gain are controlled by the unique characteristics of Lumira particles, which inhibit heat transfer, measurably impacting HVAC loads and occupant comfort, at great energy savings to the building owner. The UV stability, durability, and moisture-resistance of hydrophobic Lumira insulation result in extended product life and lower long-term operational costs. These benefits hold true even in extreme or demanding applications such as passive houses, zero-carbon or positive energy buildings.
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Insulation Values of Existing Building Insulation Products

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<th>R-value</th>
<th>U-value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foamglas® 2000</td>
<td>3.2</td>
<td>0.72</td>
</tr>
<tr>
<td>Polyurethane</td>
<td>3.0</td>
<td>0.70</td>
</tr>
<tr>
<td>Fiberglass</td>
<td>2.8</td>
<td>0.75</td>
</tr>
<tr>
<td>R-100</td>
<td>2.8</td>
<td>0.8</td>
</tr>
<tr>
<td>R-80</td>
<td>2.6</td>
<td>0.9</td>
</tr>
<tr>
<td>R-20</td>
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- Unprecedented thermal insulation — R-value of 8 per inch / U-value of 0.75 W/m²K per 25 mm
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**Insulation Values of Existing Building Insulation Products**

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<tbody>
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**Specifications**

- **Comprehensive daylighting solutions:** Structural composite panels, structural polycarbonate skylights, translucent U-channel glass, smoke vents, continuous natural light arches, tensile structures, fabric roofing, unit skylights, rooflights, and skylight systems.
- **Lighting enhancement:** Solar, non-light transmissive construction delivers an R-value of 24 (U-value of 0.24), while high performance triple-glazed photon-gain glazing delivers R-8 (U-0.7), enabling the choice between grey as compared to Lumira aerogel, which allows daylighting products to deliver a range of R-values from 3 to 20 (U-0.38 to 0.03), while maintaining essential natural daylight.

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Recycled materials would be able to reduce our carbon footprint.

The new standard in eco-daylighting solutions