



### Quick Web Links

- Contact Us
- AmeriLux Website
- About Architectural
- About Horticultural

 [Send to a Colleague](#)

### Frequently Asked Question

**Q:** What is Lumira<sup>®</sup> aerogel?

**A:** A dry silica particulate, Lumira<sup>®</sup> aerogel is a completely recyclable, lightweight insulation that repels water and retains its properties under compression.



Aerogel particles deliver superior thermal insulation and light diffusion. Cradle-to-Cradle certified, Lumira<sup>®</sup> aerogel is designed to optimize light

## AmeriLux Newsletter

September 2015

### Clayton H.S. Recreation Center

*"Pinnacle 350 Skylights"*

- Building/Owner:** Clayton School District, Clayton, MO
- Skylight Contractor:** St. Louis Skylights, Chesterfield, MO
- Spec. Writer:** RMT Roofing & Waterproofing, Manchester, MO
- Wasco Rep:** Roofing Sales Associates, Inc., St. Charles, MO

The School District of Clayton is located in the City of Clayton, six miles west of St. Louis, Missouri. The district is comprised of six schools. In 2010, the school's recreation center began experiencing problems with the FRP (Fiberglass-Reinforced Polymer) skylights in the building. The staff was tasked with the process of exploring options to repair or replace the existing units.

While attending the annual MSPMA Conference and Tradeshow in 2010, Tim Wonish, Clayton School District's Director of Facility Services met Kevin Geil with Roofing Sales Associates, Inc., manufacturers' representatives of commercial-roofing products including Wasco Skylights. The two men spoke about the issues the school was having with the manufacturer of the existing FRP skylights in the district's center.



After their conversation, Kevin was asked to put a proposal together so Tim could submit it for next year's school budget. St. Louis Skylights, a local skylight contractor, was contacted by Kevin to put a budget number together with a quote from Wasco for replacement skylights. Kevin also worked with RMT Roofing and Waterproofing to write the roof work specifications.

transmission in daylighting applications.

Lumira® aerogel is produced by the Cabot Corporation at its state-of-the-art manufacturing facility located near Frankfurt, Germany. To learn more, [CLICK HERE](#).

[FIND MORE FAQ ON OUR WEBSITE - CLICK HERE](#)

Check out our [Pinterest Page for Application Ideas!](#)



### Polycarbonate Term

#### Visible Light Transmittance

Visible Light Transmittance or as it's better known "Visible Transmittance" (VT) is a measure of how much visible light passes through a glazing material such as a window, door, or skylight.

The visible spectrum of sunlight is defined as the wavelengths that are visible to the human eye (380 to 720 nanometers).

The skylight project went out for bid in the spring of 2011. September of that year, St. Louis Skylights received a letter of intent to replace the existing units. The renovation project was installed in two phases the following year.



The failing units in the gymnasium were replaced with Wasco metal-framed skylight structures. The 9'6" wide x 42' long Pinnacle 350 double pitch skylights feature 25mm clear polycarbonate panels filled with Lumira® aerogel for superior thermal performance.

The pool roof skylight was retrofitted with a 9'6" wide x 83' long structural ridge system. Like the double pitch, this skylight features a clear anodized metal-frame with Lumira® aerogel-filled multiwall polycarbonate panels, providing more visible light transmittance at a better U-Value than the previous FRP system.

The Wasco Pinnacle 350 glazing system was the ideal replacement solution for the Clayton School District skylight renovation project. The high performance properties of the new skylights will provide both visual and thermal comfort, controlling the amount of daylight, quality of light, and amount of solar heat gain let into the building.

*Founded in 1935, Wasco Skylights is one of America's largest skylight manufacturers. [Click here to learn more about their full line of commercial and residential daylighting solutions.](#)*

## Springstowne Library/Fire Station

### "EcoSky3 System - Energy Efficient Skylights"

Located in the city of Vallejo, CA, the Springstowne Library, a branch of the Vallejo Public Library, shares the same building with the city's Fire Station No. 24. Vallejo is one of California's oldest cities and is the last remaining area on the San Francisco Bay available for development.

As part of the city's effort to refurbish and repair its public buildings, the Vallejo City Council determined the Library/Fire Station's roof needed to be replaced and brought up to Title 24 specifications. The project required replacement of all materials down to the roof deck sheathing. This included removing and



A glazing product with a higher Visible Light Transmittance delivers more visible light in a space. If designed properly, this can offset electric lighting costs and its associated cooling loads.

[CLICK HERE TO VISIT OUR ONLINE GLOSSARY PAGE](#)

Check out Our YouTube Channel



Make sure to Subscribe!

Check out Our BLOG



Visit our blog for updates on products, projects, technical information, industry news, and more! [CLICK HERE!](#)

DIY Tip of the Month

Polycarbonate panels are an ideal covering for both commercial and hobby "cold-climate greenhouses".

Join Us on LinkedIn

replacing the ten existing skylights.

The quality of light provided by the replacement skylights was extremely critical, especially in the libraries computer lab and reading areas where glare could be a major issue. As a Title 24 roof, low solar heat gain and high thermal performance were also necessary requirements. Choosing the right skylight manufacturer was an important concern.

After reviewing a number of manufacturers, the projects roofing contractor, Jared Johnson with State Roofing Systems, Inc., chose Wasco Skylights and their EcoSky3 system. The EcoSky3 system was the city's choice because of the unit's superior thermal performance and anti-glare properties.



By incorporating Acrylite® Satin Sky glazing with a 10mm Lumira® aerogel-filled polycarbonate panel, the EcoSky3 unit skylight delivers all the benefits of natural diffused light while providing excellent visible light transmission and reducing solar heat gain. The airtight system is completely sealed and does not require condensation holes, improving the thermal efficiency of the unit.

The EcoSky3 system is a "green" product that meets IECC requirements in all climate zones, is NRFC certified, and will meet the high efficacy requirements of California Energy Commission's Title 24.

*Wasco Skylights offers a wide range of energy efficient skylights for both standard and custom applications. [Click here to learn more about their latest innovations and product offerings.](#)*

*State Roofing Systems, Inc. are roofing contractors focusing primarily on commercial/industrial and large residential re-roof projects. [Click here for more information about this company.](#)*


## METALCON 2015 - Tampa, Florida

*"Marking the Event's 25th Anniversary"*


Come Visit Us in Booth# 1709!



*"Incorporating natural daylighting into your next metal building project is easy with our broad range of high-performance"*



**BECOME A FAN!**

 Like us on  
**Facebook**

Join Our Mailing List!

*polycarbonate products."*

**When:**

- Wednesday, October 14th | 12 pm - 6 pm
- Thursday, October 15th | 12 pm - 6 pm
- Friday, October 16th | 10 am - 2 pm

**Where:** Tampa Convention Ctr, 333 S. Franklin Street, Tampa, FL

**What:** METALCON was developed 25 years ago to promote the metal building market. The event offers attendees numerous networking and learning opportunities such as:

- Best Practices in Metal Technology
- Peer-to-Peer Education Sessions
- Business Tactics for Success
- Innovative Metal Products and Services
- Hands-on Metal Roofing Challenges

corrugated polycarbonate | multiwall polycarbonate | PVC sheet & liner panels

[Forward email](#)



This email was sent to cgeiger@ameriluxinternational.com by [crichards@ameriluxinternational.com](mailto:crichards@ameriluxinternational.com) | [Update Profile/Email Address](#) | Rapid removal with [SafeUnsubscribe™](#) | [About our service provider](#).



AmeriLux International, LLC | 1212 Enterprise Drive | De Pere | WI | 54115