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This course provides an overview of how multiwall polycarbonate is manufactured, the advantages over other building products, and its multiple architectural applications.

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AmeriLux Newsletter

March 2014

Glen Oaks Library

"American-Architects 'Building of the Year' for 2013"

Architect: Marble Fairbanks, Brooklyn, NY

General Contractor: Summit Construction Services Group, White Plains, NY

Channel Glass: Technical Glass Products (TGP), Snoqualmie, WA

Located in the easternmost portion of the New York City Borough of Queens, the new Glen Oaks Branch Library replaces an existing one-story facility with an 18,000 square foot, high-performance, LEED certified building.



This state-of-the-art public library has three levels, a sky-lit reading lounge, an outdoor reading space, and a dedicated teen lounge kids floor.

The glazing on the west and north facades features both a clear and translucent channel glass curtain wall provided by Technical Glass Products of Snoqualmie, WA (Pilkington Profilit™ Channel Glass). The middle portion of the channel glass wall was left clear to allow natural daylight to flood the interior and reach the partially exposed lower level.



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

Frequently Asked Product Question:

Q: What is the difference between "corrugated polycarbonate" and multiwall polycarbonate" sheet profiles?

A: Corrugated polycarbonate is a single layer sheet characterized by either a wave or box-type profile, similar in design to metal roofing sheets with "peaks and valleys".

Multiwall polycarbonate is characterized by a rectangular hollow structure "flutes" that run the length of the sheet. Multiwall sheets are fabricated in many configurations such as twin-wall, three-wall, five-wall and five-wall x-structure.

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

Polycarbonate Term:

Flutes:

Multiwall polycarbonate is defined by two or more layers of polycarbonate sheeting attached by perpendicular supports. "Flutes" are formed by these vertical interior walls within the layers. These flutes

level's west façade is clad with TGP's Pilkington Profilit™ insulated channel glass system. Each pair of interlocking single-glazed channels is filled with Lumira® aerogel-filled panels, giving portions of the façade an opalescent appearance while adding privacy and reducing solar heat gain. A total of 1,400 sq ft of Lumira® aerogel-filled 16mm polycarbonate provided by AmeriLux International was used in this channel glass system. This vast amount of glazing brings light into the space, providing a visual transparency and a luminous glow at night.

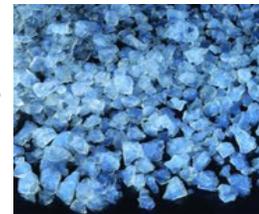
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Lumira® aerogel is a registered trademark of Cabot Corporation.

An Ideal "Fill Solution" for Polycarbonate Daylighting Systems

"Lumira® aerogel-filled Polycarbonate Sheets"

Lumira® aerogel is a translucent material with un-matched thermal resistance. Its high thermal performance, ability to diffuse light, and hydrophobic nature, help it eliminate many obstacles to daylighting. The light diffusion eliminates glare while the thermal performance allows for ample glazing without sacrificing the thermal insulation of a building. Because Lumira® aerogel is hydrophobic it can be used in a variety of high humidity environments.



Windows, skylights, and openings greatly impact the energy efficiency of a building. Energy efficient daylighting systems can substantially reduce energy costs and provide a great return on investment.

Lumira® aerogel-filled polycarbonate sheets offer architects and building owners an effective way to utilize Lumira® aerogel's thermal performance and light diffusion. When Lumira® aerogel is combined with the diverse nature of multiwall polycarbonate it allows for greater design flexibility and can substantially improve the performance, application, and durability of glazing systems.



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Lumira® aerogel is a registered trademark of Cabot Corporation.

trap air, thus making this hollow structure an excellent thermal barrier. Flutes also help to keep the weight low and give the sheet its strength with long spanning capabilities.

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

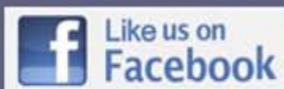
DIY Tip of the Month:

When multiwall polycarbonate is cut to size, small particles of dust or plastic may become lodged in the open flutes. It is important that this debris be cleared from the flutes before installation. Remove debris with a vacuum or compressed air. Do not flush the flutes with water because it may take a long time to dry out.

Request for Project Photos

If you have a recent project that incorporated our products, we would like to see it! Simply [CLICK HERE](#) to email photos and a brief description.

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Employee Spotlight: Travis Vanden Heuvel

"Developing Partnerships with a mix of Sales, Relationship Management, and Strategy"



Travis Vanden Heuvel has been with AmeriLux since May of 2011, starting out as the Business Development Leader charged with overseeing the Lumira® aerogel (formerly Nanogel®) portion of AmeriLux's business. As his responsibilities and the business' needs evolved, Travis was promoted to Director of Business Development.

In this new role, Travis was tasked with leading the company's marketing and communication efforts, along with directing AmeriLux's sales efforts in the architectural, commercial, building and construction, and design-build market segments. With the marketing and communications function recently having spun-off into a self-sustaining department led by Cassie Richards, Travis' time is now fully dedicated to sales and business development.

Travis' focus is to build and grow relationships by fully understanding the needs of AmeriLux's partners and working to create cost-effective solutions to meet those needs. In addition to enhancing the relationships with current customers, Travis is responsible for developing new business opportunities. This includes pursuing new markets, working to develop new products, and coordinating with the Operations Team to enhance existing services.

As a member of AmeriLux's Executive Committee, Travis works with the company's Vice President, Chief Financial Officer, General Manager, and Director of Operations - with direction from the Chief Executive Officer - on strategic planning and company-wide growth initiatives.

Outside of his professional life, Travis enjoys spending time with his wife, Jessica, and their two-year-old daughter, Faith.