

Bringing Natural Light Indoors "Advantages of Multiwall Polycarbonate"



Guided by circadian rhythms, we humans have a 24-hour internal clock that is largely dependent on exposure to natural light. When exposed to natural light in the morning, we wake up earlier. Likewise, when we're exposed to natural light in the evening, we tend to go to sleep later.

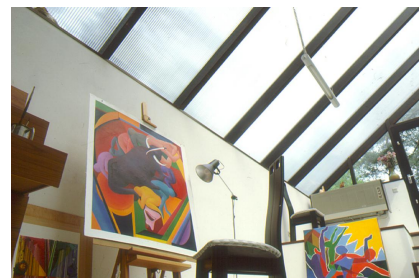
The transition between standard and daylight-saving time changes the number of hours we are exposed to natural light, often interfering with our sleep-wake cycle. To combat feeling tired after daylight-savings ends, experts recommend getting as much natural light exposure as possible during the day. This is why building or remodeling structures with daylighting in mind is so essential.

Daylighting is the architectural practice of welcoming natural light into the interior of a building using windows, skylights, clerestories, or vertical glazing. While glass has been traditionally used in these types of applications, it does have some inherent disadvantages.



One of multiwall polycarbonates advantages over glass is its ability to diffuse natural light. This filtered, diffused light reduces glare and heat build-up. Multiwall polycarbonate effectively optimizes interior lighting and provides glare control while reducing solar heat gain.

Compared to glass, multiwall polycarbonate is incredibly light in weight. Multiwall polycarbonate sheets cost less to transport, are easier to handle and install, and require less structural framing and support. Need to make precise angles or adjust the length? Multiwall polycarbonate can be cut to size and drilled 'on site' using common woodworking tools.



In addition, multiwall polycarbonate is significantly more durable than glass. Virtually unbreakable! Sheets are also available in a variety of colors, thicknesses, textures, and structures to control light transmission and thermal performance. Overall, multiwall polycarbonate is a more cost-effective, energy-efficient daylighting solution for both new and retrofit applications.

Multiwall Polycarbonate Advantages:

- Extremely durable, impact, and scratch resistant
- Provides insulation while allowing natural light in
- Filters out UV rays while letting light pass through
- Easy to handle, fabricate, and install
- Cold form on site without cracking or splintering
- Economical way to bring natural light into a space.



Beyond its outstanding physical characteristics, multiwall polycarbonate offers architects, designers, and builders an array of aesthetic opportunities — from energy efficient facades to light-filled interior spaces.

Its versatility makes it ideal for both small and large projects. Whether used in the construction of a home, school, office building, apartment complex, hotel, or industrial warehouse, multiwall polycarbonate is finding its place in today's modern building world.



To learn more about the daylighting advantages of using multiwall polycarbonate for your next project, please call 888-602-4441 to speak to a knowledgeable member of the AmeriLux A-Team.

Featured Product

TOPGAL Polycarbonate Standing Seam System

The TOPGAL standing seam panel system integrates the high-performance characteristics of the multiwall polycarbonate sheet with top quality components, giving architects and builders the flexibility to design creative yet sustainable roofing features.

- Flexible & Easy to Install
- Two-Sided UV Protection
- Purlin Based Installation
- Minimum 5% Slope
- Highly Resistant to Wind & Snow Load
- Watertight Leak Proof System
- Class A/CC1 Fire Rating

The turned-up edges of these polycarbonate roof panels are linked together with aluminum or polycarbonate connectors that are easy to fit and install. More natural light can be brought into a building without added structural complexity.

Stocked in clear, bronze, ice, and blue, the TOPGAL polycarbonate standing seam system is perfect for commercial, residential, and industrial glazing applications that provide either daylight or shade and need protection from the elements.



*An easy to install
multiwall polycarbonate
standing seam system!*

[Visit Product Page](#)

DIY Tip of the Month

Dog Hunting Kennel

Need a hunting dog kennel but you're working with a budget? A good quality dog kennel or crate isn't cheap. You could easily spend between \$300 and \$900



UV Protection?



depending on the size and materials. Before spending that money, consider building your own dog crate.

If you're handy with tools, you can easily build a dog crate for a reasonable price. Factors to consider when building a travel kennel include creating enough space so your dog can turn around, stand, and lie down comfortably. Good ventilation is also very important.

Resistant to moisture, stains, and odors, HDPE (high density polyethylene) sheets feature an extremely durable, hard-wearing surface. These high-quality plastic sheets are easy to fabricate and can be machined, drilled, and die-cut.



HDPE Product Details:

- Stocked in White or Black
- Smooth & Textured Side
- Thickness: 0.100" | 0.220"
- Sheet Sizes: 24"x36" | 48"x96"

A hunting crate built out of HDPE plastic sheets is easy to clean and some dogs actually prefer the solid walls. This can help your four-legged friend feel safe and secure while on the road.

Contact us today for more product information and let's get this project started!

Q: How much UV protection does a clear polycarbonate panel provide?

A: Regardless of its color, polycarbonate panels provide protection from ultraviolet radiation. Polycarbonate blocks both Ultraviolet A and Ultraviolet B. Almost the entire relevant UV spectrum is blocked! Polycarbonate panels block harmful UV rays by absorbing them, preventing it from being transmitted.

Because polycarbonate blocks UV by absorbing it, stabilizers are added to the raw materials, or a UV resistant coating is applied to one or on both sides of the panel. This protects the polycarbonate panel itself from loss of light transmission, discoloring, or becoming brittle over time.

Note: When installing a polycarbonate panel, it is very important to pay attention to which side of the panel is UV protected. The side with the UV filter must face outwards, towards the sun.

[More FAQs](#)

Daylight Savings Time: Importance of Natural Light

Daylight and the Circadian Rhythm

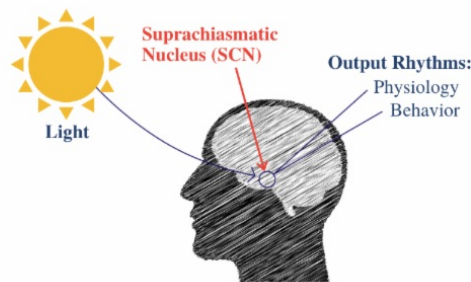


Did you know?

Increased daylighting in offices and classrooms has been found to improve cognitive function and productivity.

The impact of light on humans is natural and proven by science. Our bodies undergo physical, mental, and behavioral changes daily due to changes in light and darkness. This is called the circadian rhythm.

How Circadian Rhythm Works



Bringing natural light inside during the day triggers a response in part of the brain, called the SCN, creating positive output rhythms such as improved alertness, better mood, and greater energy.

Links of Interest

- [Located in California, the Sandi Simon Center for Dance features translucent polycarbonate in the walls, bringing daylight and a sense of motion throughout the](#)

[building.](#)

- [This plant-covered, Tottenham home called 'The Green House' uses clear polycarbonate panels for the exterior siding, creating the illusion of a giant plant-filled greenhouse.](#)
- [The Anawhata House in New Zealand is a compact yet dynamic dwelling with a polycarbonate wall along the north façade, allowing filtered light to flood the home's interior.](#)

Company Highlights

New Warehouse Expansion: Groundbreaking Ceremony

Earlier this month, the AmeriLux Family of Companies and Keller, Inc. officially broke ground on developing a new warehouse space in the De Pere East Industrial Park. AmeriLux purchased the land from the city earlier this year to accommodate the company's continuous growth and evolution.



Located about one mile south of AmeriLux's Wisconsin-based corporate headquarters, the new buildings will provide approximately 500,000 square feet of distribution and warehousing space. With 200,000 square feet still available, AmeriLux offers several great options for companies looking for space from full 3PL/4PL services to leased space, and everything in-between.

Upon completion of the new buildings in the winter of 2025-2026, AmeriLux will manage over 1.6 million square feet of distribution and warehousing space. The expansion is expected to create over 100 new jobs in manufacturing & warehousing, management & sales, and CDL drivers.

Watch Event Video >> www.NBC26.com

Quarterly Women's Meeting



The women of AmeriLux held their quarterly meeting on October 15th at the Green Bay Country Club in Bellevue, Wisconsin followed by a happy hour with appetizers and drinks.

This meetings speaker was Kasia Klaus, Executive Director of Awaken. A non-profit organization whose mission is to increase awareness and education surrounding the issue of commercial sexual exploration and provide housing and restoration for its victims. Kasia shared the organizations' mission and vision, working to make a difference in the lives of many.

In her message through Awaken, Kasia brought up the importance of having a collective mission. The mission doesn't change, but how we move forward towards it will. This statement is especially true for AmeriLux as we continue to experience growth now and in the future to come.

Learn More >> [Awaken](#)

AmeriLux Halloween Fun!

Members of the A-Team embraced the spirit of the Halloween holiday by showing up today in some fun and creative costumes. Whether you're taking the kids out trick-or-treating or staying home to pass out candy to costumed visitors, the AmeriLux Family of Companies would like to wish everyone a safe and happy Halloween.



The AmeriLux Family of Companies

[AmeriLux International](#)
[AmeriLux Transportation & Logistics](#)
[Shape Products](#)
[EZ PVC](#)



AmeriLux International LLC | 1300 Enterprise Drive | De Pere, WI 54115 US

[Unsubscribe](#) | [Update Profile](#) | [Constant Contact Data Notice](#)



Try email marketing for free today!